

Jason Michelson Operations Lead, Portfolio Operations Central

June 6, 2024

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

**APPROVED** By Mike Buchanan at 10:01 am, Jan 14, 2025

Re: Federal 4 Com #001 Incident #nAB189450649 2024 Assessment Activities Work Plan Eddy County, New Mexico

Dear whom it concerns,

Please find enclosed for your files, copies of the following work plan:

• Federal 4 Com #001 2024 Assessment Activities Work Plan

The submittal was prepared by Arcadis U.S., Inc. (Arcadis) for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A Inc.

Please do not hesitate to call Russell Grant with Arcadis at 432-217-2064 or myself at 832-854-5601, should you have any questions.

Respectfully,

Jason Michelson

Jason Michelson

Encl. Federal 4 Com #001 2024 Assessment Activities Work Plan

C.C. Amy Barnhill, Chevron/MCBU

Review of the 2024 Assessment Activities Work Plan for Federal 4
Com #001: Content is satisfactory is hereby approved with the
following condition:
1 As groundwater has been confirmed to be impacted at this site,
please collect soil samples at every foot to a depth of 14 feet; depth to
groundwater is approximately 14 feet from surface.
2. Install eight (8) soil borings as proposed at locations, with the
additional four feet to groundwater.
3 Submit soil samples for BTEX, TPH and chloride analyses.
4. Please submit the work plan results to OCD within sixty (60) days
from the receipt of this approval.

Jason Michelson Operations Lead Central Portfolio Operations - Central 1500 Louisiana Street, Houston, TX 77002 Tel 832 854 5601 Mobile 281 660 8564 jmichelson@chevron.com



Mr. Jason Michelson Operations Lead Upstream Business Unit Chevron Environmental Management Company. 1500 Louisiana Street, Floor 38 Houston, TX 77002

Date: June 6, 2024 2024 Assessment Activities Work Plan Federal 4 COM #001 Incident #nAB1819450649 Carlsbad, New Mexico Arcadis U.S., Inc. 10205 Westheimer Road Suite 800 Houston Texas 77042 Phone: 713 953 4800 Fax: 713 977 4620 www.arcadis.com

TX Engineering License # F-533 TX Geoscientist License # 50158

Dear Mr. Michelson,

At the request of Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company, Arcadis U.S., Inc. (Arcadis) is providing this work plan (WP) to perform additional soil assessment activities for the Federal 4 COM #001 Site located in Carlsbad, New Mexico (Site). This WP are for tasks anticipated to be completed as part of the 2024 scope of work (SOW) from June 1, 2024, through March 31, 2025. The tasks in this WP include:

- Project Management and Coordination
- Utility Locate
- Delineation Soil Borings
- Annual Reporting

# **Project Information**

The Site is located approximately seven miles northeast of Carlsbad, New Mexico. The Bureau of Land Management legal description is the northeast quarter of the southwest quarter of Section 4, Township 21-South, Range 27-East. The property's surface rights are owned by the Bureau of Land Management (BLM) and Chevron Midcontinent, L.P., holds the oil and gas lease.

The Site is located on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the north, Chaves and Eddy County to the west, and to Texas to the south. Additional Site history and previous investigation summaries are provided in **Attachment 1**.

## **Scope of Work**

Arcadis will perform consulting services for the work tasks described below. Key assumptions that may affect the schedule and costs are noted.

#### Task 1 – Project Management and Coordination

This task includes professional labor services for project coordination with CEMC, Chevron Mid-Continent Business Unit (MCBU), the New Mexico Oil Conservation Division (NMOCD), Bureau of Land Management (BLM), and New Mexico Office of the State Engineer (NMOSE). Work will include project planning with the CEMC operations lead, including one meeting with the NMOCD.

In addition, the following activities associated with project controls will also be completed:

- Reviewing and processing of vendor invoices,
- Monthly budget tracking, general project communications, correspondence, and coordination,
- Reviewing and updating the site-specific health and safety plan (HASP).

#### Task 2 – Utility Locate

Prior to initiating any intrusive work, the presence of subsurface and overhead utilities will be investigated in accordance with Arcadis Utility Location and Clearance Standard (Health and Safety Standard No. ARCHSFS019) and CEMC Ground Disturbance Standard and supplemental Subsurface Line Strike Prevention Guidance, requiring a minimum of three lines of evidence consisting of the following:

- Notify New Mexico 811 a minimum of 48 hours in advance of commencing intrusive activities at the Site. The notification will allow its member utilities to review all proposed soil boring locations at the Site and identify potential subsurface utility conflicts,
- Contract a licensed private utility locating service to complete a geophysical survey of the proposed soil boring locations at the Site. The private utility locating service will utilize ground penetrating radar and electromagnetic equipment, among other utility locating techniques, to identify any subsurface utilities near the proposed soil boring locations. Located utilities will be surveyed using Trimble GeoExplorer 6000 series global positioning system equipment, or equivalent,
- Arcadis will prepare and submit a dig plan to the Chevron MCBU Functional Operations Team for approval,
- Attempt to clear all proposed soil boring locations utilizing air knifing equipment (by drilling subcontractor) to at least 5 feet below ground surface (bgs). In the event clearance is not feasible, the subcontractor will follow variance requirements.

The geophysical survey will require oversight by one Arcadis field staff and is assumed to take one (12-hour/day) to complete.

#### Task 3 – Delineation Soil Borings

Arcadis proposes conducting further soil investigation activities at the Site which include the advancement of eight (8) shallow soil borings (SB-28, SB-29, SB-30, SB-31, SB-32, SB-33, SB-34, and SB-35) utilizing an air rotary drilling rig as depicted on **Figure 1**. Arcadis assumes that soil investigation activities will take two Arcadis staff a total of three days (12-hour/day) to complete. Arcadis assumes Chevron currently holds an active Oil and Gas Lease for the Site and that the Sundry Notice is valid. Additionally, Arcadis assumes that the MCBU Land Group will complete all requirements to secure an easement agreement with the BLM, prior to Arcadis commencing

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

fieldwork. Arcadis proposes to use White Drilling to complete the soil boring installations. The drilling company will complete the following tasks, with oversight provided by Arcadis field personnel:

- Notify NM811 a minimum of 48 hours in advance of commencing intrusive activities at the Site. The notification will allow its member utilities to review proposed sample locations at the Site and identify potential subsurface utility conflicts.
- Clear all locations utilizing air knifing equipment to at least 5 feet bgs. In the event clearance to 5 feet bgs is not feasible, Arcadis will follow CEMC's variance process.
- Eight soil borings will be advanced to approximately 10 feet bgs. Groundwater in this area is known to be approximately 14 feet bgs. Arcadis will prepare a Well Plugging Plan of Operations and submit to NMOSE for review and approval if groundwater is encountered. Arcadis assume that NMOSE will not require the submittal of the WR-07 to proceed with soil boring activities or approval of the plugging plan.
- Soil cuttings will be stored in 55-gallon drums, properly labeled as Investigative derived waste (IDW), and stored onsite.
- Abandon the 8 shallow soil borings using hydrated bentonite chips. If groundwater is encountered, the boring will be plug as detailed on the approved Well Plugging Plan of Operations.
- Mobilization and demobilization of the drill rig, a field support truck, an operator, and two drilling helpers.

The 8 shallow soil borings will be logged by an Arcadis geologist according to Unifed Soil Classification System (USCS) guidelines. Arcadis will collect grab soil samples from the advancement of each soil boring at:

- surface
  - o 0 to 1 feet bgs
- subsurface
  - o 1 to 2 feet bgs,
  - o 2 to 3 feet bgs,
  - o 3 to 4 feet bgs,
  - o 4 to 5 feet bgs,
  - o 5 to 6 feet bgs,
  - o 6 to 7 feet bgs,
  - o 7 to 8 feet bgs,
  - o 8 to 9 feet bgs, and
  - o 9 to 10 feet bgs

The soil samples will be collected in clean, laboratory-supplied sample containers, labeled, placed on ice, cooled to approximately 4 degrees Celsius, and transported via overnight courier to Pace Labs located in Mt. Juliet, Tennessee, a State of New Mexico-certified laboratory, under chain-of-custody protocol for the following analysis:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B,
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by USEPA Method 8015M, and

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• Chloride by USEPA Method 300.0

Results of the soil assessment activities will be included in the annual monitoring report (see Task 4).

Soil cuttings from drilling activities, will be stored in 55-gallon drums, properly labeled, and stored onsite. The drums will be sampled to determine disposal classification of the waste. The IDW is assumed to be classified as non-hazardous. Arcadis will arrange for a disposal company to transfer the drums to a CEMC-approved waste disposal facility. Arcadis assumes that waste pick-up for transport to an approved disposal facility will require oversite by an Arcadis representative, requiring one 12-hour day.

#### Task 4 – Annual Assessment Reporting

The results of the soil assessment activities will be summarized in a report to be submitted to the NMOCD. The report will include analytical data, figures showing locations and results, boring logs, and laboratory analytical data sheets. Recommendations for Site closure and/or additional work to move the Site towards closure will be provided in a cover letter and discussed with CEMC. The report will be submitted prior to the end of the first quarter of 2025.

## **Assumptions**

- Mobilization fees estimated based on travel costs to / from Midland, TX,
- No additional field efforts will be requested,
- Field activities will be completed in 12-hour days,
- Assumes one annual report,
- Assumes weather conditions will allow access and field tasks to be completed during the scheduled events.

## **Project Team**

The Arcadis Project Manager will be Russell Grant, Associate Project Manager will be Sheila Hernandez, and Ross Brady will be the Task Manager. Scott Foord will provide program management support.

# Contact

Arcadis appreciates the opportunity to provide site support services to CEMC. If you have any questions or comments, please contact either Russell Grant by phone at 432.217.2064 or by e-mail at <u>russell.grant@arcadis.com</u> or Scott Foord by phone at 713.953.4853 or by email at <u>William.foord@arcadis.com</u>. Sincerely, Arcadis U.S., Inc.

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Scott Foord Program Manager

- CC. Jason Michelson CEMC Enclosures: Tables
  - 1. Historical Soil Analytical Data

Figures

- 1. 2021 Soil Analytical data and 2024 Proposed Soil Boring Locations Attachments
  - 1. Additional Site History and Previous Investigation Summaries

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Table 1 Historical Soil Investigation Analytical Data CEMC Federal 4 Com #001 Eddy County, New Mexico

Image: book of the set of the se	Boring Location ID	Sample Date	Sample Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	TPH-ORO (mg/Kg)	Chloride (mg/Kg)	% Moisture
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111/17/2020         2         2         0         000107         0.00113         0.001147         0.0024         4.01         38.0         2.6.4         4.01 H B         60.0           11/17/2020         5         16         0.00010         0.00101         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00107         0.00113         0.00107         0.00113         0.00107         0.00113         0.00107         0.00113         0.00107         0.00113         0.00107         0.00113         0.00117         0.00113         0.00113         0.00117         0.00113         0.00117         0.00113         0.00117         0.00113         0.00113         0.00113         0.00112         0.00112         0.00112         0.00112         0.00113         0.00111         0.00113         0.001113         0.001113         0.001113         0.001113         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114         0.001114													
Sh:14         11/17/2202         31.04         <0.00081         <0.00173         <0.00174         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.0022         <0.00477         <0.0022         <0.00477         <0.0022         <0.00477         <0.0022         <0.00477         <0.0022         <0.00477         <0.0022         <0.00477         <0.0022         <0.00477         <0.0022         <0.00172         <0.00477         <0.0022         <0.0018         <0.00477         <0.0022         <0.0018         <0.00477         <0.072         <0.22         <0.0018         <0.00477         <0.072         <0.22         <0.0018         <0.00472         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017         <0.00472         <0.0017 <th< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													
111/17/200         510         -0.00081         -0.00103         -0.001073         -0.00585         6.16.1         33.9         24.80 H8         24.80           111/17/200         9101         -0.00081         -0.00110         -0.00172         -0.00587         13.1         38         977.H8         23.6           111/17/200         1010         -0.00082         -0.0013         -0.00175         -0.00178         -0.00377         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00173         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00178         -0.00188         -0.0118         -0.00188         -0.0118         -0.00188         -0.0118         -0.00188         -0.0118         -0.00188         -0.0118         -0.00188         -0.0118         -0.00189         -0.00189         -0.00189         -0.00189         -0.00189         -0.00189         -0.00189         -0.00189         -0.00189         -0.00189         -0.00189         -0.0018         -0.00189	SB 11												
111/12/200         71/08          0.000081         0.00101         0.001071         0.000871         0.00182         0.000871         0.00182         0.001071         0.000871         0.00182         0.000172         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00187         0.000871         0.00181         0.000172         0.000113         0.0004126         0.00181         0.0004126         0.00181         0.000181         0.00017         0.0004159         0.00455         0.00181         0.00171         0.0004159         0.00455         0.00181         0.00171         0.0004159         0.00455         0.00184         0.00181         0.000111         0.0014159         0.00455         0.00181         0.00181         0.00181         0.00171         0.001415         0.00455         0.00183         0.00171         0.00111         0.001459         0.00384         0.018         0.00183         0.00171         0.00111         0.00184         0.00018         0.0018         0.00184	58-11												
11/17/2020         0.01         -0.00002         -0.00102         -0.00103         -0.00037         -0.72         -2.23         -6.53         7.860/H B         23.6           11/17/2020         1.10         -0.00002         -0.00173         -0.00037         -0.722         15.9         57.7         7.800/H B         15.1           11/17/2020         3.10.4         -0.000654         -0.00173         -0.00113         -0.00113         -0.00113         -0.00118         -0.0012         -0.00118 <th></th> <td></td>													
11/17/2020         11/12/202         20.000682         -0.000775         -0.00188         -0.000717         -0.0728         75.7         7.880/H B         21.1           11/17/2020         210.3         -0.000683         -0.00173         -0.00113         -0.00112         -0.00116         -0.0112         -0.00116         -0.0112         -0.00116         -0.0112         -0.00116         -0.0112         -0.00116         -0.0112         -0.00116         -0.0112         -0.00116         -0.00126         -0.0112         -0.00116         -0.00126         -0.0113         -0.00116         -0.00116         -0.00116         -0.00116         -0.0016         -0.0113         -0.00111         -0.00116         -0.00114         -0.00116         -0.00114         -0.00116         -0.00114         -0.00114         -0.00114         -0.00116         -0.00114													
SB-12         11/17/2020         210 3         0.00028         0.00137         -0.00111         -0.00112         -0.00128         -0.0128         15.5         71.2         2010 HB         19.3           11/17/2020         310 4         0.00028         -0.00137         -0.00111         -0.00112         -0.00112         -0.00112         -0.00112         -0.00112         -0.00112         -0.00112         -0.00112         -0.00112         -0.00112         -0.00112         -0.00116         -0.00163         -0.00113         -0.00116         -0.00113         -0.00116         -0.00113         -0.00116         -0.00113         -0.00116         -0.00114         -0.00013         -0.00107         -0.00364         -0.0017         -0.00145         -0.0016         -0.00174         -0.00174         -0.00164         -0.0017         -0.00164         -0.0017         -0.00174         -0.0017         -0.2018         -0.00173         -0.00171         -0.2018         -0.00173         -0.00171         -0.2018         -0.00173         -0.00171         -0.2017         -2.22         -0.70         1.50         2.51         2.51         2.51         2.51         2.51         2.51         2.51         2.51         2.51         2.51         2.51         2.51         2.51         2.51													
11/17/2020         51 6         0.00022         0.0017         -0.00112         -0.00112         -0.0012         -0.012         9.92.J         52.1         3990 HB         2.35           11/17/2020         710.8         -0.00022         -0.0013         -0.00113         -0.00415         -0.00456         -21.87         24.4         25.24 HB         21.7         24.86           11/17/2020         110.1         -0.000534         -0.00103         -0.00107         -0.003926         -0.73         -2.27         -6.52         21.7         24.85           11/17/2020         110.2         -0.000544         -0.00103         -0.001048         -0.00104         -0.00174         -0.004946         -0.00174         -0.00174         -0.00174         -0.22         -6.70         -1.5         2.5           11/17/2020         3 10.4         -0.000964         -0.00170         -0.00174         -0.00174         -0.00174         -0.0177         -2.28         6.70         2.5         2.5         11/17         2.2         -6.70         1.5         2.5         11/17         2.20         1.5         2.5         1.5         2.5         2.5         11/17         2.0         1.5         2.2         1.5         2.5         1.5         2.5 <th></th> <td></td>													
H11/72020         9 10 16         -0.000138         -0.001013         -0.00113         -0.004161         -0.006451         -0.0064         -2.18         2.21         5.21 H B         2.20           11/17/2020         10 10         -0.000581         -0.00103         -0.00017         -0.003866         -0.0137         -2.000586         -0.0114         -0.003866         -0.0138         -2.21         -6.62         2.17         -2.66         2.17         2.66         2.23         -6.79         2.01         2.00         -2.000586         -0.00128         -0.000386         -0.00124         -0.0017         -0.003846         -0.0007         -2.22         -6.70         3.15         2.53           11/17/2020         10.16         -0.000598         -0.00170         -0.003946         -0.0807         2.64         133         -7.89         2.69           11/17/2020         9.10         -0.000589         -0.00132         -0.000799         -0.00168         -0.0701         1.150         2.230         159         2.230           11/17/2020         9.10         -0.00054         -0.00152         -0.000799         -0.00112         -0.01243         -0.700         1.150         2.30         159         17.7         2.41         1.1177         2.240<	SB-12												
H11/72020         90 10         c.000051         c.000130         c.000111         c.000112         c.000111         c.000111         c.000111         c.000112         c.000111         c.000111         c.000112         c.000112         c.000114         c.00112         c.000114         c.00112         c.000114         c.00112         c.000114         c.00112         c.000114         c.00112         c.000114         c.00111 <thc.001114< th=""> <thc.001114< th=""> <thc.0011< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td></thc.0011<></thc.001114<></thc.001114<>											-		
11/17/2020         1102         -000083         -000103         -000114         -000115         -00088         -2.28         -6.88         33.5         25.3           SB-13         11/17/2020         3 to 4         -0000884         -000107         -0003944         -00017         -2.28         -6.70         9.15 J         25.7           11/17/2020         7 to 6         -0000594         -00017         -0003944         -000394         -00017         -2.28         -6.70         9.15 J         25.7           11/17/2020         7 to 6         -0000594         -000370         -000107         -0003944         -00174         -003984         -0.71         -2.28         -0.87         -2.14         -6.27         05.9 H B         20         12.8         2.30         118         2.30         158         2.30         158         2.30         158         2.30         158         2.30         158         2.30         158         2.30         158         2.30         158         159         2.30         158         159         2.30         158         159         2.30         158         159         159         2.31         158         159         159         159         159         159         159													
SB-13         11/17/2020         2 to 3         -0.00986         -0.00164         -0.00164         -0.00884         -0.007         -2.32         -6.79         20         28.5           11/17/2020         5 to 6         -0.000694         -0.0017         -0.003949         -0.0071         -2.22         -6.70         9.15 J         25.7           11/17/2020         5 to 6         -0.000696         -0.0017         -0.003949         -0.0814         -2.14         -6.25         20.18 B Fl         26.9           11/17/2020         9 to 10         -0.000644         -0.00132         -0.000797         -0.001084         -0.770         1.150         2.300         115 B         23.9         115 B         12.9         14.6         5.85         11.0         1.570         24.8         15.1         11.1													
SB-13         11/17/2020         3 to 4         -0.00124         -0.001124         -0.00114         -0.20114         -0.221         -2.28         -6.70         9.15 J         2.57           11/17/2020         7 to 6         -0.000589         -0.00131         -0.000970         -0.001849         -0.807         26.4         133         7.80 J         26.5           11/17/2020         7 to 6         -0.000589         -0.00179         -0.000384         -0.0711         <2.13													
11/17/2020         5 to 6         c0.000599         c0.00107         c0.003949         c0.807         28.4         133         7.80 J         28.9           11/17/2020         16         c0.000596         c0.00131         c0.000970         c0.00108         c0.003940         c0.8013         c2.13         c5.2         28.18 Pf 1         23.0           11/17/2020         10 c1         c0.000614         c0.00121         c0.00124         c0.703         1.300         2.280         1138         7.80 J         2.280         1138         7.80 J         2.280         1138         7.80 J         2.80         1138         7.80 J         2.80         1138         7.80 J         2.80         1138         7.80 J         2.80         1138         7.80 J         1.80 J	SB-13												
11/17/2020         9 to 10         c0.00065         c0.00132         c0.00079         c0.00108         c0.003984         c0.781         c2.13         c6.22         66.5 J H B         20.1           11/17/2020         1 to 1         c0.000674         c0.00112         c0.000124         c0.0753         1.330         2.390         159         2.39           11/17/2020         2 to 3         0.00190 J         c0.0013         c0.00124         c0.0753         1.330         2.390         113 B         17.4           11/17/2020         3 to 4         0.0158         c0.00153         1.7         0.204         1.92133         160         2.510         3.130         c4.96         19.1           11/17/2020         5 to 6          -         2.38         6.33         8.71         654         5.970         10,700         46.7 J B         19.6           11/17/2020         7 to 8          -         2.38         6.33         8.71         654         5.970         10,700         46.7 J B         19.6           11/17/2020         1 to 2         d0.000579         d0.00721         d0.003827         c0.837         110         38         102         23.1 J B         19.3 J B         19.3		11/17/2020	5 to 6	<0.000599	< 0.00131	< 0.000970	<0.00107	<0.003949	<0.807	-		7.80 J	26.9
SB-14         11/17/2020         0 to 1         40.00013/2         0.00129 J         0.001264 d         -0.00112 d         -0.00124 d         -0.0112 d         -0.00124 d         -0.0112 d         -0.01243 d         -0.750 d         1,330 d         2,380 d         113 B         17.4           11/17/2020         3 10 d         0.0158 d         -0.00113 d         -0.00112 d         -0.01243 d         20.2 d         1,120 d         1,870 d         2,380 d         113 B         17.4           11/17/2020         3 10 d         0.0158 d         -0.0013 d         1.7         0.204 d         1,9213 d         160 d         2,510 d         3,130 d         4.96 d         19.1           11/17/2020         7 10 8         -         -         2.12 d         3.46 d         5.58 d         410 5,110 5,710 d         25.3 d         20.2         1,12 d         1,870 d         25.3 d         20.2           11/17/2020         7 10 8         -         -         2.12 d         3.46 d         0.00327 d         0.337 d         10.3 d         25.3 d         12 d         25.0 d         11.2 d         0.0014 d         0.00327 d         0.437 d         1.33 d         2.0 d         1.33 d         1.3 d         1.33 d         1.33 d         1.33 d         1.33 d <th></th> <td></td>													
11/1/72020         11 0 2         <0.000124         <0.00112         <0.001124         <0.0733         1.330         2.390         113 B         17.4           11/17/2020         2 to 3         0.00190         <0.00136			0 to 1										
SB-14         11/17/2020         31 o4         0.0158         <0.00153         1.7.7         0.240         1.9.213         160         2.101         3.130         <4.96         19.1           11/17/2020         5166           2.12         3.46         5.58         410         5.10         5.70         10.70         45.7 JB         19.2           11/17/2020         71 08           2.38         6.33         5.71         654         5.970         10.700         45.7 JB         19.8           11/17/2020         11 02         0.000962 J< 0.00127		11/17/2020		<0.000624	< 0.00137	<0.00101	<0.00112	< 0.004124	<0.753	1,330	2,390	113 B	17.4
11/17/2020         5 to 6           2.12         3.46         5.58         410         5,710         5,710         253 B         20.2           11/17/2020         7 to 8          -         2.38         6.33         8.71         654         5,970         10,700         46.7 J B         19.6           11/17/2020         0 to 1         -0.000902 J         -0.00127         <0.000388	SB-14												
11/17/2020         7 to 8          -         2.38         6.33         8.71         654         5.970         10,700         46.7 J B         19.6           11/17/2020         8 to 9         0.000672         -0.000372         -0.00372         3.3.8         809         943         21.3 J B         19.8           11/17/2020         10 to 1         -0.000575         -0.00127         -0.003327         -0.873         1107         255         312         23.0           11/17/2020         10 to 1         -0.000555         -0.00127         -0.00138         -0.00123         -0.873         1107         255         312         23.0           11/17/2020         10 to 4         0.000511         2.008         -0.00123         1.03123         208         998         811         404         18.8           11/17/2020         7 to 8         -0.00573         -0.0125         0.00118         -0.003462         -0.865         139         241         414         11.6           11/17/2020         7 to 8         -0.00572         -0.00152         -0.00118         -0.003426         0.865         139         241         414         11.6           11/17/2020         10 to 1         -0.000652	30-14												
11/17/2020         0101         <0.000678         <0.00127         <0.000938         <0.00104         <0.003827         <0.873         190         384         119.j         25.4           11/17/2020         1102         <0.000665		11/17/2020	7 to 8			2.38	6.33	8.71	654	5,970	10,700	46.7 J B	19.6
11/17/2020         11 to 2         <0.000565         <0.00124         <0.00011         <0.003729         <0.873         117         255         312         29.0           11/17/2020         2 to 3         0.00404         0.00251 J         2.08         <0.00120													
SB-15         11/17/2020         2 to 3         0.0040 J         0.00251 J         2.08         <0.00120         2.0812         274         1,770         1,620         140 J         19.1           SB-15         11/17/2020         3 to 4         0.00216 J         0.00186 J         1.03         <0.00123													
SB-15         11/17/2020         310 4         0.00216 J         0.00165 J         1.03         <0.00123         1.03123         208         998         811         404         18.8           11/17/2020         510 6         <0.00046													
11/17/2020         710 8         <0.00573         <0.0125         0.0238 J         <0.0033         0.02853         <0.0665         139         241         414         11.6           11/17/2020         810 9         <0.00662	SB-15												
11/17/2020         81 09         <0.000682         0.00116 J         <0.00124         0.003452         0.005 J         30.7         85         419         12.7           11/17/2020         0 to 1         <0.000686													
S8-16         11/1/72020         110 2         <0.000816         <0.00035         <0.000998         <0.00114         <0.00474         <0.289         <2.29         <6.69         663 B         25.4           11/17/2020         2 10 3         <0.00063												419	
Sb-16         11/17/2020         210.3         <0.00083         <0.0013         <0.0014         <0.001495         <0.720         <2.21         <6.6.5         803.B         22.7           11/17/2020         3 to 4         <0.000685													
11/17/2020         310 4	SB-16												
SB-17         11/17/2020         0 to 1          0.000808          0.002923          0.588         5.41 J         46.4         1.240 B         28.0           SB-17         11/17/2020         1 to 2          0.000842          0.00115          0.002923          0.588         5.41 J         46.4         1.240 B         28.0           11/17/2020         1 to 2          0.00042          0.00115         <													
SB-17         11/17/2020         210 3         <0.000872         <0.0019         <0.00192         <0.001432         <0.776         <2.28         <6.67         1.820 B         25.4           11/17/2020         3 to 4         <0.000672		11/17/2020	0 to 1	<0.000608	< 0.00133	<0.000985	0.00337 J	0.002923	<0.588	5.41 J	46.4	1,240 B	28.0
11/17/2020         210 3         <         <	SB-17												
SB-18         11/10/2021         0 to 1          0.000779           0.00173          0.00173          0.00173          0.000779          0.0289           2.5           11/10/2021         1 to 2          0.00081          0.00123          0.000861          0.000861          0.00123          0.000861          0.289          2.5         0.176 B J         341         116.5           11/10/2021         2 to 3          0.00173           0.00173          0.000861          0.00173          2.25         0.71 B J         88.4         28.4           11/10/2021         3 to 4           0.00128                  2.50         1.05 B J         344         14.65           11/10/2021         4 to 5              <													
11/10/2021         11 to 2													
11/10/2021         310.4         <0.000810         co.00025         <0.00128         <0.00153         <0.000810         <0.0296         <2.20         1.05 B.J         42.7         26.8           11/10/2021         4 to 5         <0.000729		11/10/2021	1 to 2	<0.000651	<0.00181	<0.00103	<0.00123	<0.000651	<0.0260	<1.93	1.05 B J	341	16.5
SB-18         11/10/2021         4 to 5          0.000729          0.000729          0.000729          0.000729          0.000729          0.000729          0.000729          0.000729          0.000740          0.000741          0.000741          0.000741          0.000741          0.000741          0.000741          0.000741          0.0000741													
Sb-te         11/10/2021         5 to 6         <0.000740         <0.00206         <0.00117         0.00182 J         <0.000740         <0.0280         <2.08         4.21 B J         14.2 J         22.6           11/10/2021         6 to 7         <0.00068	05.44												
11/10/2021         7 to 8         <0.000734         <0.00174         <0.000987         0.00147 J         <0.000734         <0.0254         <1.88         2.32 B J         12.4         14.5           11/10/2021         8 to 9         <0.000784	SB-18	11/10/2021	5 to 6	<0.000740	< 0.00206	<0.00117	0.00182 J	<0.000740	<0.0280	<2.08	4.21 B J	14.2 J	22.6
11/10/2021 8 to 9 <0.000784 <0.00218 <0.00124 0.00190 J <0.000784 0.0291 <2.16 2.72 B J 20.9 J 25.3													

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## ARCADIS Design & Consultancy for natural and tuilt assets

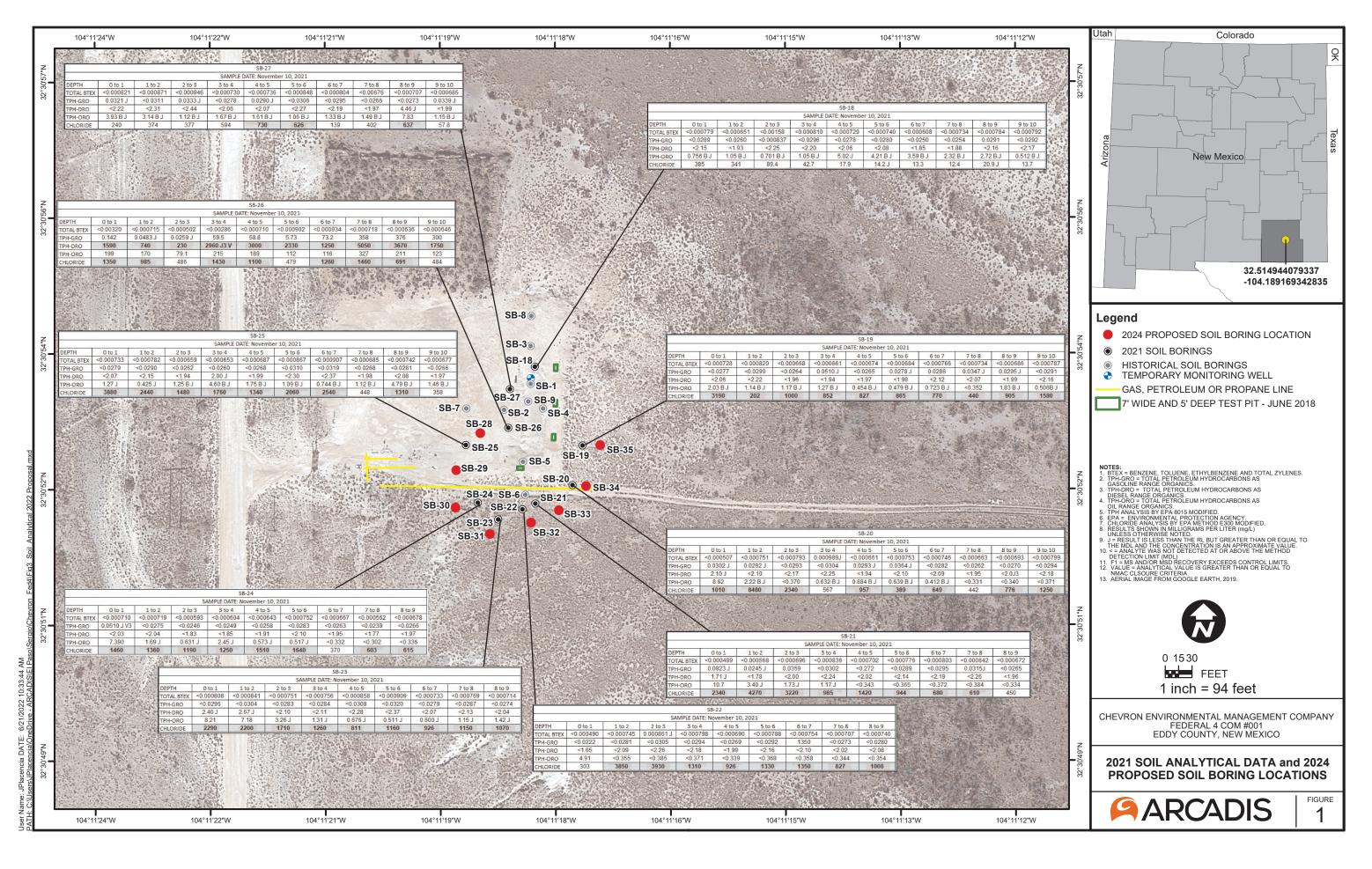
Table 1 Historical Soil Investigation Analytical Data CEMC Federal 4 Com #001 Eddy County, New Mexico

			Sample	Dentene	Teluene	Ethylbonzono	Total Vulence		TPU CRO			Chlorida	9/
101820         010         02000 <th< th=""><th>Boring Location ID</th><th>Sample Date</th><th></th><th>Benzene (mg/Kg)</th><th>Toluene (mg/Kg)</th><th>Ethylbenzene (mg/Kg)</th><th>Total Xylenes (mg/Kg)</th><th>Total BTEX (mg/Kg)</th><th>TPH-GRO (mg/Kg)</th><th>TPH-DRO (mg/Kg)</th><th>TPH-ORO (mg/Kg)</th><th>Chloride (mg/Kg)</th><th>% Moisture</th></th<>	Boring Location ID	Sample Date		Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	TPH-ORO (mg/Kg)	Chloride (mg/Kg)	% Moisture
100000         100         40000         400000        400000        400000			e Criteria <sup>(a)</sup>										
100000         100000        100000<													
10         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         10000000         10000000													
1170000         0 00000         0.00000 <t< th=""><th></th><td></td><td>3 to 4</td><td></td><td></td><td></td><td></td><td>&lt;0.000661</td><td></td><td></td><td></td><td></td><td></td></t<>			3 to 4					<0.000661					
1100000         0 00000         0.00000 <t< th=""><th>SB-19</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>	SB-19									-			
11/10000         0.0000        0.0000         0.0000        0.0000<		11/10/2021	6 to 7	<0.000766	< 0.00213	<0.00121	0.00238 J	< 0.000766	0.0286	<2.12	0.723 B J	770	24.2
11         0													
1         1         0													
99-00         1000000         30.6         000000 <th></th> <td>11/10/2021</td> <td>1 to 2</td> <td>&lt;0.000751</td> <td>&lt; 0.00209</td> <td>&lt;0.00119</td> <td>0.00225 J</td> <td>&lt;0.000751</td> <td>0.0292 J</td> <td>&lt;2.10</td> <td>2.22 B J</td> <td>8480</td> <td>23.3</td>		11/10/2021	1 to 2	<0.000751	< 0.00209	<0.00119	0.00225 J	<0.000751	0.0292 J	<2.10	2.22 B J	8480	23.3
94.00         11100001         10.00         0.00001         0				<0.000793									
1         1         0	SB-20	11/10/2021	4 to 5	<0.000661	<0.00184	<0.00104	<0.00124	< 0.000661	0.0293 J	<1.94	0.884 B J	957	17.2
11000000         1000000         000000         0000000         0000000         0000000         0000000         000000													
11000200         0 0.00000         0.0000         0.00000        0.00000        0.0000								<0.000663					
Image         Image <th< th=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													
11/10/2012         12/10/2		11/10/2021	0 to 1									2340	
11/10201         20.3         6         20.0110         40.0101         40.0088         60.008         42.00         42.00         40.008         40.0088         40.008 <th></th> <td>11/10/2021</td> <td>1 to 2</td> <td>8</td> <td>&lt;0.00158</td> <td>&lt;0.000896</td> <td>&lt;0.00107</td> <td>&lt;0.000568</td> <td>0.0245 J</td> <td>&lt;1.78</td> <td>3.40 J</td> <td>4270</td> <td>9.7</td>		11/10/2021	1 to 2	8	<0.00158	<0.000896	<0.00107	<0.000568	0.0245 J	<1.78	3.40 J	4270	9.7
11102021         31.04         4.0003         4.0011         4.00072         4.00072         4.02         4.24         1.71         985         23.3           11102021         4.05         4.0007         4.0017         4.00072         4.02         4.02         4.02         4.02         4.02         4.02         4.02         4.02         4.02         4.02         4.0011         4.00072         4.02         4.02         4.02         4.0011         4.00072         4.02         4.0015         4.00084         4.02         4.0015         4.00084         4.02         4.0015         4.00084         4.02         4.011         4.0017         4.00084         4.0021         4.0016         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.00097         4.0019         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197         4.00197		11/10/2021	2 to 3		<0.00194	<0.00110	<0.00131	<0.000696	0.0359	<2.00	1.73 J	3220	19.7
11/10/2011         3/9         d.0000         d.0011         d.00122         d.00072         d.022         d.02         d.024         d.036         y.44           11/10/2021         5/0.6         d.0007         d.0012         d.00114         d.00076         d.028         d.012         d.00076         d.028         d.216         d.038         y.44         24.8         d.038         y.46         24.8         d.038         y.46         24.8         d.038         d.0399         d.038         d.0399         d.038         d.0399         d.038         d.0399         d.038         d.0399         d.038         d.0399         d				< 0.00083	<0.00233	<0.00132	<0.00157	<0.000836	<0.0302	<2.24	1.17.1		28.3
B21         11/10221         46.5         4         0.00110         0.00110         0.001000         0.00100         0.00000         0.00100         0.00000 </th <th></th> <td>11/10/2021</td> <td>3 to 4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>985</td> <td></td>		11/10/2021	3 to 4									985	
11/10/2021         610         6         00022         00013         000081         000280         001081         000081         000280         001081         000080        000080        000080	SB-21	11/10/2021	4 to 5	2	<0.00195	<0.00111	<0.00132	<0.000702	<0.272	<2.02	<0.343	1420	20.1
11/102021         610         0.00000 0.0024         0.0017         0.00001         0.00001         0.00151         0.20         0.0324         0.0019         0.00001 <th< th=""><th></th><td>11/10/2021</td><td>5 to 6</td><td></td><td>&lt;0.00216</td><td>&lt;0.00122</td><td>&lt;0.00146</td><td>&lt;0.000776</td><td>&lt;0.0289</td><td>&lt;2.14</td><td>&lt;0.365</td><td>944</td><td>24.8</td></th<>		11/10/2021	5 to 6		<0.00216	<0.00122	<0.00146	<0.000776	<0.0289	<2.14	<0.365	944	24.8
111102021         16.97         0.00054         0.00150         0.00160         0.00167         0.00067         0.00176         0.00167         0.00176 <t< th=""><th></th><td></td><td></td><td>&lt;0.00080</td><td>&lt;0.00223</td><td>&lt;0.00127</td><td>&lt;0.00151</td><td>&lt;0.000803</td><td>&lt;0.0295</td><td>&lt;2.19</td><td>&lt;0.372</td><td></td><td>26.4</td></t<>				<0.00080	<0.00223	<0.00127	<0.00151	<0.000803	<0.0295	<2.19	<0.372		26.4
11/10/2021         11/16         2         000/03         00/03         0/00/03         0/00/03         0/00/03					<0.00224			<0.000040					28 F
11100220         8 0 0 2         0.00070         <		11/10/2021	7 to 8	2									
11100221         0001         0         000073         0000073         0000007         0000007         0000007         0000007         0000007         0000075         0000075         0000075         0000075         0000075         0000075         0000075         0000075         0000075         0000075         0000075         0000075         000075		11/10/2021	8 to 9	2	<0.00187	<0.00106	<0.00127	<0.000672	<0.0265	<1.96	<0.334	450	18
11100221         1102         0.00074         0.00140         0.00074         0.00074         0.0036         0.0037         0.0037         0.033         0.0037         0.0037         0.036         0.0366         0.0036         0.0037         0.0037         0.033         0.0037         0.0037         0.0037         0.036         0.0037<		11/10/2021	0 to 1		<0.00136	<0.000773	<0.000923	<0.000490	<0.0222	<1.65	4.91	303	2.4
11/10/2021         2         0.0000000         0.000			1 to 2	< 0.00074	< 0.00207	<0.00118	< 0.00140	<0.000745	<0.0281	<2.09	< 0.355		22.9
11/10/2021         3104         80/0000         0.00022         0.00150         0.000780         0.0024         2.18         0.0371         3339         2339           11/10/2021         4 to 5         0.00000         0.00120         0.00150         0.000780         0.00228         0.18         0.0330         2.28         0.0330         2.28         0.0330         2.28         0.0330         2.28         0.0329         2.16         0.338         2.22         133           11/10/2021         5 to 6         0.00074         0.00171         0.00074         0.00074         0.00074         0.00074         0.00077         0.00074         0.00014         0.00074         0.00014         0.00014         <		11/10/2021										3850	00.0
B8-20         11/10/2021         3104         8         40.00780         40.00780         40.00780         40.00780         40.00780         40.00780         40.0180         40.00780         40.00780         40.0180         40.0080         40.00780         40.00780         40.00780         40.00780         40.00780         40.0071		11/10/2021	2 to 3	J		<0.00134	<0.00159	0.000861 J	<0.0305	<2.26	<0.385	3930	28.9
Ba-22         11/10/2021         4 10 5         0         000078         0000078         0000078         0000078		11/10/2021	3 to 4	8	<0.00222	<0.00126	<0.00150	<0.000798	<0.0294	<2.18	<0.371	1310	26.1
11/10/2021         5166         -0.00078         -0.00120         -0.00120         -0.00120         -0.00078         -0.0027         -0.0027         -0.0027         -0.0027         -0.0027         -0.00120         -0.00120         -0.00120         -0.00170         -0.00074         1150         <-1.0	SB-22	11/10/2021	4 to 5		<0.00192	<0.00109	<0.00130	<0.000690	<0.0269	<1.99	<0.339	926	19.3
11/10/2021         6107         40.0076         40.0019         40.00142         40.00754         1350         42.10         40.38         1350         25.1           11/10/2021         710.8         40.00077         40.01197         40.00133         40.00770         40.0277         40.0280         40.0271         40.0280         40.0271         40.0280         40.0271         40.0280         40.0280         40.0280         40.0280         40.0280         40.0280         40.0280         40.0280         40.0280         40.0280         40.0283         40.0114         40.00141         40.00141         40.00141         40.00141         40.00141         40.00141         40.00141         40.00141         40.00141         40.00174         40.0110         40.00141         40.00076         40.0140         40.00076         40.0140         40.00076         40.0141         40.00076         40.0141         40.00076         40.0141         40.00076         40.0141         40.00073         40.0141         40.00076         40.0141         40.00076         40.0141         40.00076         40.0141         40.00076         40.0141         40.00076         40.0141         40.00076         40.0141         40.00076         40.0141         40.00076         40.0142         40.0142         40.00076<			5 to 6	<0.00078	<0.00219	< 0.00124	< 0.00148	<0.000788	<0.0292	<2.16	<0.368		25.6
11/10/2021         610         4         600/07		11/10/2021										1330	
11/10/2021         710         200/19         0.00/12         0.00/13         0.00/14         0.00/23         0.00/13         0.00/14		11/10/2021	6 to 7	4	<0.00210	<0.00119	<0.00142	<0.000754	1350	<2.10	<0.358	1350	23.5
11/10/2021         819         0         0.00000         0.00000         0.00011         0.00000         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00020         0.00010         0.00020         0.00010         0.00000         0.00020         0.00110         0.00011         0.00001         0.00020         2.601         1.11         2.200         2.85           11/10/2021         416         0.00000         0.00013         0.00110         0.00015         0.00005         0.00030         2.281         0.71         1.31         1.260         2.85           11/10/2021         416         0.00000         0.00013         0.00114         0.00171         0.00086         0.0033         2.281         0.71         1.11         1.11         1.11         2.81           11/10/2021         516         0.00070         0.00073         0.00071         0.00073         0.00071         0.00074         0.00274         2.04         1.42         1.70         2.99           11/10/2021         110         0.00071 <th></th> <td>11/10/2021</td> <td>7 to 8</td> <td></td> <td>&lt;0.00197</td> <td>&lt;0.00112</td> <td>&lt;0.00133</td> <td>&lt;0.000707</td> <td>&lt;0.0273</td> <td>&lt;2.02</td> <td>&lt;0.344</td> <td>827</td> <td>20.4</td>		11/10/2021	7 to 8		<0.00197	<0.00112	<0.00133	<0.000707	<0.0273	<2.02	<0.344	827	20.4
11/102021         010         000000 000000         0000000 000000         000000         000000         0000000         0000000         0000000         0000000         0000000         0000000         0000000         000000         000000         0000000         000000         000000         000000         000000         000000         000000         000000         000000         000000         000000         0000000         000000         000000         000000         000000         0000000         000000         000000         000000         000000         000000         000000         000000         000000         000000         000000         000000         000000         0000000         0000000         0000000<		11/10/2021	8 to 9		<0.00206	<0.00117	<0.00139	<0.000740	<0.0280	<2.08	< 0.354	1000	22.6
Bit 1002021         1102         000004         0.00034         0.00133         0.00136         0.000041         0.00034         2.67         7.18         2200           SB-23         111/102021         210.3         0.00004         0.00133         0.00133         0.00076         0.00234         2.67         7.18         2200         2.85           SB-24         111/102021         310.4         0.00004         0.00119         0.00143         0.000766         0.0224         2.11         1.31.J         1200         2.35           111/102021         510.6         0.00007         0.00133         0.00142         0.00088         0.0038         2.230         0.0133         2.21           111/102021         510.6         0.00070         0.00011         0.00118         0.00013         0.00073         0.0227         2.27         0.511.J         1160         22.1           111/102021         710.8         200071         0.00113         0.00113         0.00073         0.00274         2.001         2.207         0.600 J         926         22.1           111/102021         710.8         200071         0.00170         0.00113         0.000714         0.00071         0.00071         0.00171         0.00075		11/10/2021	0 to 1		<0.00225	-0.00128	<0.00152	-0.000808	-0.0206	2.40.1	9.21	2200	26.7
Bit         11/10/2021         1 for 2         1         00.0054         00.00136         00.00164         00.00241         00.0084         2.8034         2.803         2.803         2.803         2.803         2.803         2.803         2.803         2.803         2.803         2.813         11/10         2.203         11/10         2.203         11/10         2.201         1.81         1.231         1.233         1.231         1.236         1.231         1.231         1.231         1.236         2.366         2.316 <th></th> <td>11/10/2021</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.21</td> <td></td> <td></td>		11/10/2021									0.21		
Bit 1/1/02021         3103         4         00.0078         00.0013         00.0076         00.0283         62.10         32.83         1/10         22.83           Bit 23         11/10/2021         3104         4         00.0076         00.0028         0.00284         <2.11         1.31         1.360         23.6           11/10/2021         4 105         0.00086         0.00233         0.00135         <0.00086         <0.00284         <0.00284         <0.00284         <0.00284         <0.00284         <0.00284         <0.00284         <0.00284         <0.00284         <0.00285         <0.00162         <0.000736         <0.00274         <0.00073         <0.00274         <0.00073         <0.00274         <0.00173         <0.00274         <0.00773         <0.00274         <0.00774         <0.00274         <0.00774         <0.00274         <0.00774         <0.00274         <0.00774         <0.00274         <0.00774         <0.00274         <0.00774         <0.00275         <2.04         1.82         1.85         1.85         <1.85         <1.85         <1.85         <1.20         <0.00714         <0.00275         <0.0027         <0.0027         <0.0027         <0.0027         <0.0027         <0.0027         <0.0027         <0.0027         <0.0027		11/10/2021	1 to 2	1	<0.00234	<0.00133	<0.00158	<0.000841	<0.0304	2.67 J	7.18	2200	28.5
B1100201         3104         -0.00076         0.00211         0.00119         0.00136         0.00076         0.00284         0.211         1.31J         1260         23.8           11/02021         4105         -0.00236         0.00135         -0.00162         -0.00086         -0.0038         -0.230         0.231         0.511J         1160         32.1           11/102021         6107         -0.00076         0.00214         -0.00161         -0.00076         0.00274         0.027         0.0017         0.00274         0.0017         0.00274         0.0017         0.0017         0.00274         0.017         0.00174         0.0274         0.01         1.15J         1160         22.1           11/102021         010         -0.00077         0.0019         0.00113         -0.00174         0.0074         0.023         7.30         1.42J         1070         209           11/102021         0110         -0.00077         0.0019         0.00113         -0.00174         0.0075         0.0023         0.00171         0.00174         0.0214         0.00174         0.0214         0.00174         0.0214         0.00171         0.00174         0.0214         0.00174         0.0214         0.00174         0.0214         0.0124 <th></th> <td>11/10/2021</td> <td>2 to 3</td> <td></td> <td>&lt;0.00209</td> <td>&lt;0.00118</td> <td>&lt;0.00141</td> <td>&lt;0.000751</td> <td>&lt;0.0283</td> <td>&lt;2.10</td> <td>3.26 J</td> <td>1710</td> <td>23.3</td>		11/10/2021	2 to 3		<0.00209	<0.00118	<0.00141	<0.000751	<0.0283	<2.10	3.26 J	1710	23.3
B8-23         11/10/2021         4 to 5         0.00285         0.00135         <0.00162			3 to 4		< 0.00211	<0.00119	< 0.00143	< 0.000756	< 0.0284	<2.11	1.31 J	1260	23.6
Bit 1/10/2021         5 to 6         8.0009 (-0.0023)         -0.00143         -0.00171         -0.00099 (-0.0027)         -0.0270         -0.217         0.511 J         1160         32.1           11/10/2021         6 to 7         -0.00073         -0.0024         -0.00173         -0.00276         -2.27         0.600J         32.6         22.1           11/10/2021         7 to 8         -0.00076         -0.00113         -0.00145         -0.00076         -0.0274         -2.07         0.600J         32.6         22.1           11/10/2021         7 to 8         -0.00071         -0.0019         -0.00113         -0.00145         -0.000714         -0.0274         -2.04         1.42 J         1070         20.9           11/10/2021         1 to 2         -0.00071         -0.0019         -0.00112         -0.00134         -0.000716         -0.051 J         -2.23         7.390         1460         20.7           11/10/2021         1 to 2         -0.00071         -0.0013         -0.0013         -0.00076         -0.0024         -1.48         0.631 J         1190         11.8           11/10/2021         1 to 2         -0.0016         -0.00164         -0.00112         -0.00064         -0.0246         -1.88         2.45 J         12	6B 33	11/10/2021								-0.00			
Bit         Bit <th>36-23</th> <td>11/10/2021</td> <td>4105</td> <td></td> <td>&lt;0.00239</td> <td>&lt;0.00133</td> <td>K0.00102</td> <td>&lt;0.000838</td> <td>&lt;0.0308</td> <td>\$2.20</td> <td>0.070 3</td> <td>011</td> <td>29.5</td>	36-23	11/10/2021	4105		<0.00239	<0.00133	K0.00102	<0.000838	<0.0308	\$2.20	0.070 3	011	29.5
Bit         11/10/2021         6 10 / 10         3         20.0024         20.0016         20.0073         20.0073         20.07		11/10/2021	5 to 6	9	<0.00253	<0.00143	<0.00171	<0.000909	<0.0320	<2.37	0.511 J	1160	32.1
11/10/2021         7 to 8         -0.00076         -0.00121         <0.00145			6 to 7		<0.00204	<0.00116	<0.00138	<0.000733	<0.0279	<2.07	0.600 J	926	22.1
BB-24         11/10/2021         8 to         9         0         0.0013         0.00135         0.000714         0.00274         <2.04			7 to 8	< 0.00076	< 0.00214	<0.00121	< 0.00145	<0.000769	<0.0287	<2.13	1.15 J	1150	24.4
11/10/2021         0 103         4         0.00193         0.00013         0.000134         0.000134         0.001014         0.001014         0.001014         0.001014         0.001014         0.00014         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000110         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000114         0.000125         0.00112         0.000114         0.000124         0.00124         0.000124         0.00124         0.00124         0.00124         0.00164         0.00125         0.00264         0.00114         0.000164         0.00124         0.00164         0.00124         0.00123         0.00263         0.128         0.0218         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.00166         0.000166         0.000166         0.000166		11/10/2021											
SB-24         110         100         0.00071 3         0.00200         0.00113         0.00135         0.000719         0.0275         0.2.04         1.69 J         1360         21.2           11/10/2021         2 to 3         0.00060         0.00165         0.000935         0.00112         0.000533         0.0246         1.83         0.631 J         1190         11.8           11/10/2021         3 to 4         0.00060         0.00168         0.000954         0.00114         0.000644         0.0246         1.83         0.631 J         1190         11.8           11/10/2021         4 to 5         0.00064         0.00179         0.00102         0.00121         0.000643         0.0258         c1.91         0.573 J         1510         15.9           11/10/2021         5 to 6         2         0.00105         0.00126         0.000667         c0.0283         c1.95         c0.332         370         17.6           11/10/2021         6 to 7         7         0.00066         c0.00166         c0.00168         c0.00168         c0.00168         c0.00168         c0.00168         c0.00168         c0.00067         c0.0283         c1.95         c0.332         370         17.6           11/10/2021         1 to 8 <th></th> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				4									
BB-24         11/10/2021         11/10         2         9         <0.002/0		11/10/2021											
11/10/2021         2103         3         20.00165         20.000935         20.00112         20.000835         20.00124         21.0046         21.13         0.0313         1190         11.8           11/10/2021         3 to 4         40.00060         <0.00168         <0.000954         <0.00114         <0.00064         <0.0249         <1.85         2.45 J         1250         12.8           11/10/2021         4 to 5         <0.00064         <0.00179         <0.00102         <0.00121         <0.000643         <0.0258         <1.91         0.573 J         1510         15.9           11/10/2021         5 to 6         <0.00067         <0.00126         <0.00072         <0.0203         <2.10         0.517 J         1640         23.4           11/10/2021         6 to 7         7         <0.00166         <0.00166         <0.00067         <0.0263         <1.95         <0.332         370         17.6           11/10/2021         7 to 8         <0.00076         <0.00186         <0.0016         <0.00073         <0.0266         <1.97         <0.336         615         18.4           11/10/2021         8 to 9         <0.00073         <0.00204         <0.00173         <0.0026         <0.00173         <0.00276         <0.00		11/10/2021		9	<0.00200								
SB-24         11/10/2021         3.04         4         0.00168         <0.00094		11/10/2021	2 to 3	3		<0.000935	<0.00112	<0.000593	<0.0246	<1.83	0.631 J	1190	11.8
SB-24         11/10/2021         4 to 5         0.00064 0.00075         <0.00179		11/10/2021	3 to 4		<0.00168	<0.000954	<0.00114	<0.000604	<0.0249	<1.85	2.45 J	1250	12.8
SB-24         11/10/2021         5 to 6         -0.00075 2         -0.00075 2         -0.00142         -0.000752         -0.0283         -2.10         0.517 J         1640         23.4           11/10/2021         5 to 6         -0.00075         2         -0.00142         -0.000752         -0.0283         -2.10         0.517 J         1640         23.4           11/10/2021         6 to 7         -7         -0.00066         -0.00126         -0.000667         -0.0283         -1.95         -0.332         370         17.6           11/10/2021         7 to 8         -0.00066         -0.00166         -0.00106         -0.000667         -0.0263         -1.95         -0.332         370         17.6           11/10/2021         7 to 8         -0.00067         -0.00188         -0.00168         -0.00168         -0.00075         -0.0266         -1.97         -0.336         615         18.4           11/10/2021         0 to 1         -0.00073         -0.00116         -0.00138         -0.000752         -0.0266         -1.97         -0.336         615         18.4           11/10/2021         1 to 2         -0.0018         -0.00114         -0.00174         -0.000752         -0.0266         -1.97         1.27 J         3880 </th <th>6D 04</th> <td></td> <td>4 to 5</td> <td>&lt; 0.00064</td> <td>&lt;0.00179</td> <td>&lt; 0.00102</td> <td>&lt;0.00121</td> <td>&lt; 0.000643</td> <td>&lt;0.0258</td> <td>&lt;1.91</td> <td>0.573 J</td> <td>1510</td> <td>15.9</td>	6D 04		4 to 5	< 0.00064	<0.00179	< 0.00102	<0.00121	< 0.000643	<0.0258	<1.91	0.573 J	1510	15.9
11/10/2021         5 10 6         2         0.002/9         0.001/9         0.001/2         0.000/12         0.000/12         0.000/12         0.000/12         0.001/12         0.001/12         0.001/12         0.001/12         0.001/12         0.001/12         0.001/12         0.001/12         0.001/12         0.00067         0.001/23         0.001/12         0.0001/12 <th>SB-24</th> <td>11/10/2021</td> <td></td>	SB-24	11/10/2021											
11/10/2021         0 b1 7         0.00160         0.00160         0.00120         0.00067         0.00073         0.00073         0.00017         0.00118         0.00073         0.00073         0.00017         0.00118         0.00073		11/10/2021		2									
Bit         11/10/2021         71.6         2         00.016         <0.00086		11/10/2021	6 to 7	7	<0.00186	<0.00105	<0.00126	<0.000667	<0.0263	<1.95	<0.332	370	17.6
Bit 0         8 to 9         0.00067 8         0.00199         0.00107         0.00128         0.000678         0.00266         0.197         0.0366         0.000678         0.0366         0.197         0.0366         0.000678         0.0366         0.197         0.0366         0.000678         0.0378         0.02066         0.197         0.0366         0.00073         0.0279         0.2.07         1.27 J         3880         22.1           11/10/2021         1 to 2         0.00078         0.00218         0.000123         0.00078         0.00206         0.00147         0.000769         0.0220         2.15         0.425 J         2440         25.2           11/10/2021         2 to 3         9         0.00184         0.00123         0.000659         0.0260         2.00 J         4.60 J         17.1           11/10/2021         3 to 4         0.00065         0.00184         0.00123         0.000659         0.0026         2.00 J         4.60 J         17.60         16.6           11/10/2021         3 to 4         0.0019         0.00103         0.00123         0.000657         0.0028         2.00 J         4.60 J         2.00 J         4.60 J         2.00 J         4.60 J         2.00 J         4.60 J         2.00 J		11/10/2021	7 to 8		<0.00156	<0.000886	<0.00106	<0.000562	<0.0239	<1.77	<0.302	603	9.2
SB-25         11/10/2021         0 to 1         -0.00073 3         -0.00214         <0.00173 -0.00204         <0.00116			8 to 9	< 0.00067	<0.00189	<0.00107	<0.00128	<0.000678	<0.0266	<1 97	<0.336	615	18.4
SB-25         11/10/2021         0101         3         <0.002/4		11/10/2021		8 <0.00073									
SB-25         11/10/2021         10.2         2         0.00173         <0.00173		11/10/2021	0 to 1	3	<0.00204	<0.00116	<0.00138	<0.000733	<0.0279	<2.07	1.27 J	3880	22.1
B8-25         11/10/2021         2 to 3         0.00065 9         <0.00184		11/10/2021	1 to 2		<0.00218	<0.000123	<0.00147	<0.000782	<0.0290	<2.15	0.425 J	2440	25.2
SB-25         11/10/2021         3 to 4         -0.00065 3         -0.00182         <0.00103			2 to 3	< 0.00065	<0.00184	< 0.00104	<0.00124	<0.000659	<0.0262	<1.94	1.25 B J	1480	17.1
SB-25         11/10/2021         3164         3         clubral         clubral <thclubra< th=""> <thclubra< th="">         clubra<th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thclubra<></thclubra<>													
SB-25         11/10/2021         4105         7         <0.00191		11/10/2021	3 to 4	3									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SB-25			7									
11/10/2021         0.07         7         2000233         2000133         2000171         2000097         2000139         22.37         0.744.83         2340         32           11/10/2021         7 to 8         5         0.00191         <0.00108         <0.00129         <0.000685         <0.0268         <1.98         1.12 B J         448         18.9           11/10/2021         8 to 9         <0.00074         <0.00106         <0.00140         <0.000742         <0.0281         <2.08         4.79 B J         1310         22.77           11/10/2021         0         <0.000677         <0.00107         <0.00177         <0.000742         <0.0281         <2.08         4.79 B J         1310         22.77													
11/10/2021         7/10         5         <0.00191		11/10/2021	6 to 7	7	<0.00253	<0.00143	<0.00171	<0.000907	<0.0319	<2.37	0.744 B J	2540	32
11/10/2021         8 to 9         <0.00074		11/10/2021	7 to 8		<0.00191	<0.00108	<0.00129	<0.000685	<0.0268	<1.98	1.12 B J	448	18.9
			8 to 9	< 0.00074	<0.00206	<0.00117	<0.00140	<0.000742	<0.0281	<2.08	4.79 B.J	1310	22.7
		11/10/2021											
		11/10/2021	9 to 10		<0.00189	<0.00107	<0.00128	<0.000677	<0.0266	<1.97	1.46 B J	358	18.4

### ARCADIS Because and built assets

Table 1 Historical Soil Investigation Analytical Data CEMC Federal 4 Com #001 Eddy County, New Mexico

		Sample										
Boring Location ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	TPH-ORO (mg/Kg)	Chloride (mg/Kg)	% Moisture
l.	NMAC Closure		10				50		100		600	
	11/10/2021	0 to 1	< 0.00320	<0.00889	< 0.00504	< 0.00602	< 0.00320	0.142	1590	199	1350	26.2
			< 0.00071	< 0.00199	<0.00113		<0.000715	0.0483 J	740		985	
	11/10/2021	1 to 2	5	<0.00199	<0.00113	<0.00135	<0.000715	0.0463 J	740	170	965	20.9
		2 to 3	<0.00050	< 0.00140	<0.000793	< 0.000946	<0.000502	0.0259 J	230	79.1	486	3.6
-	11/10/2021		2							-		
-	11/10/2021	3 to 4	<0.00286 <0.00071	< 0.00796	<0.00451	< 0.00539	< 0.00286	59.5	2960 J3 V	215	1430	21
SB-26	11/10/2021	4 to 5	0	<0.00198	<0.0012	<0.00134	<0.000710	58.8	3000	189	1100	20.6
	11/10/2021	5 to 6	<0.00090 2	<0.00251	<0.00142	<0.00170	<0.000902	5.73	2330	112	479	31.7
	11/10/2021	6 to 7	<0.00093 4	<0.00260	<0.00147	<0.00176	<0.000934	73.2	1250	116	1260	33.3
	11/10/2021	7 to 8	<0.00071 8	0.00341 J	<0.00113	<0.00135	<0.000718	358	5050	327	1460	21.2
	11/10/2021	8 to 9	<0.000636	0.00238 J	< 0.00100	< 0.00120	< 0.000636	376	3670	211	691	15.3
ľ	11/10/2021	9 to 10		0.00267 J	0.00218 J	0.0640	<0.000646	300	1750	123	484	16
	11/10/2021	0 to 1	< 0.000821	< 0.00229	< 0.00130	< 0.00155	< 0.000821	0.0321 J	<2.22	3.93 B J	240	27.5
	11/10/2021	1 to 2	<0.000871	< 0.00242	<0.00137	< 0.00164	<0.000871	< 0.0311	<2.31	3.14 B J	374	30.2
_	11/10/2021	2 to 3	<0.000946		< 0.00149	< 0.00178	< 0.000946	0.0333 J	<2.44	1.12 B J	377	33.9
-	11/10/2021	3 to 4	< 0.000730		< 0.00115	< 0.00138	< 0.000730	<0.0278	<2.06	1.67 B J	594	22
SB-27	11/10/2021	4 to 5	< 0.000736		< 0.00116	< 0.00139	<0.000736	0.0290 J <0.0306	<2.07	1.61 B J 1.06 B J	730 626	22.4
-	11/10/2021	5 to 6	< 0.000848		< 0.00134	< 0.00160			<2.27			29
-	11/10/2021 11/10/2021	6 to 7 7 to 8	<0.000804 <0.000676	<0.00224	<0.00127 <0.00107	<0.00152 <0.00127	<0.000804 <0.00676	<0.0295 <0.0266	<2.19 <1.97	1.33 B J 1.49 B J	139 402	26.5 18.3
-	11/10/2021	8 to 9	<0.000878	< 0.00188	<0.00107	<0.00127	<0.000707	<0.0200	<1.97 4.46 J	7.83	637	20.4
	11/10/2021	9 to 10	<0.000685	<0.00191	<0.00108	<0.00129	<0.000685	0.0339 J	<1.99	1.15 B J	57.8	18.9
	10/14/2019	0 to 1	0.000633	0.00139	0.00102	0.00113	0.004173	0.0648	229	153	178	20.2
	10/14/2019	1 to 2	0.000548	0.0012	0.000887	0.000983	0.003618	0.0637	604	300	233	25.4
MW-1	10/14/2019	4 to 5	0.000625	0.00137	0.00101	0.00112	0.004125	0.179	1600	806	114 J	20.3
	10/14/2019	9 to 10	0.000669	0.00146	0.00108	0.0012	0.004409	0.0642	34.7	34.7	97.3 J	32.2
	10/14/2019	14 to 15	0.000601	0.00132	0.000973	0.00108	0.003974	0.0887 J	394	175	127 J	29.6
Legend:												
	Analytical value is gre	ater than or ec	ual to NMAC	closure criter	ia							
	Percent	1										
	Milligram(s) per kilogra	am										
	Analyte was not detec		specified met	thod reporting	limit							
	Below ground surface											
	Benzene, toluene, eth											
	Total Petroleum Hy											
	Total Petroleum Hy				ics							
	Total Petroleum Hy			ge Organics	1							
	New Mexico Admir											
MS/MSD	Matrix spike/matrix	spike duplic	ate									
Lab Qualifiers:												
	Compound was for	ind in the bla	ank and sar	nnle								
	The sample(s) wer				over the highest	point of the calib	ration curve or c	lue to matrix i	nterference		-	-
	Sample was prepp					point or the callo			inclierence			
	The target analyte					and above the det	ection limit					-
	MS/MSD recoverie	s were found	to be outsi	te of the lah	oratory control li	nits due to possil	ole matrix/chemir	al interference	e. or a conce	entration of t	arget	
	analyte high enoug	h to affect th	e recovery	of the spike	concentration				0, 0, 0 00100		Gigot	
Notes:			2 . 000 roly	2. 210 opiko								





### SITE DESCRIPTION AND BACKGROUND

The following site description and background section provides an overview of the site location and regional setting including geology, hydrogeology, nearby drinking water wells, surface water, and climate.

#### **Site Location and Description**

The site is located approximately seven miles northeast of Carlsbad, New Mexico along the northeast quarter of the southwest quarter of Section 4, Township 21- South, Range 27-East. The properties surface ownership is owned by Bureau of Land Management and Chevron Midcontinent, L.P. holds the oil and gas lease. The site is located on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the north, Chaves and Eddy County to the west, and to Texas to the south.

#### **Nearby Water Wells and Surface Water**

Based on review of satellite imagery, Lake Avalon is located approximately 3 miles southwest of the site (GoogleEarth 2019). In January 2019, Arcadis reviewed information obtained from the New Mexico Office of the State Engineer (NMOSE) online database (NMOSE 2019), which indicated that there is one water supply well located approximately 760 ft (ft) to the east southeast from the Federal 4 COM #001 oil well. The primary use for this water well is for domestic and livestock watering. The NMOSE online database identified one water-supply well within a 1,000-meter radius of the site (NMOSE 2019). In addition, results of the database review indicate average depth to groundwater in the area is approximately 14 ft below ground surface (bgs).

#### Climate

Monthly average temperatures near the site vary from a minimum of 27.8 degrees Fahrenheit (°F) in January to a maximum of 95.6°F in July (Western Regional Climate Center [WRCC] Carlsbad, New Mexico [291469] weather station). Average annual precipitation recorded for the area of the site from the available WRCC period of record between 1900 and 2016 was approximately 12.84 inches per year (WRCC 2019a). Due to the arid climate, the site experiences low precipitation and high evaporation rates. Average annual evaporation from the available WRCC period of record between 1914 and 2005 was approximately 87.68 inches per year (WRCC 2019b).

#### **Regional Geology and Hydrogeology**

The site elevation is approximately 3,190 ft above mean sea level and is located above the Capitan Reef (Limestone) bed along the northern edge of the Paleozoic Era Delaware Basin with the Pecos River to the east and the Guadalupe Mountains to the west (Bachman 1980). In the early Permian, the Delaware Basin was a shallow marine environment supplied with seawater through the Hovey Channel and

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resulted in limestone and shale deposits. Throughout the Permian, the basin underwent subsidence.

Patch reefs, built primarily from calcareous sponges, encrusting algae, and limy mud, began forming along the shoreline edges, eventually resulting in the formation of the Capitan Reef. The Capitan Limestone is characterized as a massive white to gray, fossiliferous limestone bed. In the vicinity of the site, the limestone is further described as the fore-reef facies and is defined by evaporites and thin bedded limestone, shale, and sandstone units (Standen 2009). Sediment deposition continued as sea level dropped and continued to fill the basin area. The Delaware Basin is overlain with evaporites, primarily gypsum and halite, from the Castile and Salado Formations, followed by the carbonate, evaporite, and clastic sediments of the Rustler Formation, and lastly, by the red beds of the Dewey Lake Formation. The Delaware Basin and Capitan Reef area underwent extensive erosion and dissolution throughout the Mesozoic and Cenozoic eras and resulted in an ancient karst plain that was subsequently filled in by alluvial deposits known as the Pecos Valley Alluvium (TWBD 2019). The Pecos Valley Alluvium is predominantly composed of surficial deposits of transmissive sands and gravels mixed with low-permeability clays, primarily from the Pecos River (Barrol 2004).

The main source of fresh groundwater in the area comes from the subterranean karstic carbonate Permian Capitan Reef Aquifer which, in the vicinity of the site, is approximately 10 to 14 miles wide and has an average thickness of approximately 1,600 ft. The aquifer is confined by the Rustler, Salado, and Castile formations beneath it (Barrol 2004). Average depth to water based on the current wells in the vicinity of the site is approximately 32 bgs (NMOSE 2019). The primary natural aquifer recharge source is from the west by the precipitation over and area to of approximately 800 square miles in and west of the Guadalupe Mountains. Percolation, direct infiltration, and surface water are secondary natural recharge sources. Leakage from Lake Avalon to the west is the main source of artificial aquifer recharge (Barrol 2004).

## **INITIAL RELEASE RESPONSE**

On June 2018, four above ground storage tanks (ASTs) were removed and reclamation of the site was initiated. During reclamation activities, potential hydrocarbon impacts were identified beneath the former location of the ASTs and within test pits located east and south of the former ASTs. Based on field observations, CEMC excavated soils beneath the former AST battery. The soil beneath AST 1 and 3 exhibited higher hydrocarbon impacts than the soil beneath AST 2 and 4. CEMC personnel indicated potential hydrocarbon impacts appeared to be consistently observed between 45 and 60-degree angles from the ASTs. Four test trenches approximately 6 to 7 ft by 5 ft were excavated on the east and south sides of the former AST battery as depicted on Figure 2. Field observations indicated potential hydrocarbon impacts at a minimum of 5 ft below ground surface. A total of 225 yards of investigative derived material was removed and transported to R360 Environmental Solutions for proper disposal. Additionally, associated production equipment was decommissioned and removed from the site. Pursuant to New Mexico Oil Conservation Division (NMOCD) requirements (NMOCD 1993), Chevron MCBU submitted a Notification of Release and Correction (Form C-141) to the NMOCD, detailing the location, volume of release, and initial and planned cleanup efforts for the site.

## **2018 SOIL INVESTIGATION**

In November 2018, Arcadis conducted site assessment activities to facilitate the subsurface geology characterization, evaluation of hydrocarbons, and soil sample collection. Soil boring locations were

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selected based on the locations of observed staining during the AST removal and trenching as well as proximity of pipelines and other equipment at the site.

On November 7, 2018, to evaluate the potential extent of impact to soil at the site, Arcadis advanced five shallow soil borings to approximately 10 to 15 ft bgs. B-1 was installed beneath former AST 1and B-2 through B-5 were advanced around the perimeter of the former tank battery berms to support delineation (Figure 2). Although B-1 was initially proposed as a deep soil boring, targeting 50 ft bgs, wet soil was encountered at approximately 12 ft bgs indicating a shallow groundwater table exists at the site. Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Once cleared, air rotary technology was used to advance the soil borings and collect grab samples. Soil was continuously logged for stratigraphic characteristics according to the United Soil Classification System (USCS). Field personnel recorded soil types and other pertinent geologic data on boring logs. Elevated photo ionization detection (PID) readings (1,341 to 15,000 parts per million [ppm]) were recorded at soil boring location B-1 while locations B-2 through B-5 exhibited lower PID readings (15.9 to 52.8 ppm). Lithologic data indicated the subsurface material consisted primarily of gypsiferous caliche and sand layers from approximately 0 to 10 ft bgs. Three soil samples were collected from each boring location at varying upper, middle, and lower depths, which were determined based on field and PID observations. A total of 15 samples were collected in clean, laboratory-supplied glass jars, labeled, in an ice-chilled cooler, and submitted under appropriate chain of custody protocols to Xenco Laboratories in Lubbock, TX. Soil samples collected from

each boring were analyzed for:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO, diesel range organics (DRO), oil range organics (ORO) by EPA Method 8015B
- Chloride by EPA Method 300.0
- Percent moisture by SM 2540B

Following sampling, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions.

#### **Soil Sample Results**

The analytical data from the soil samples collected in November 2018 are compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on

August 14, 2018. The analytical results for the 15 soil assessment samples are summarized below:

- Benzene was not detected above the laboratory reporting limit in any of the 15 samples
- Toluene was not detected above the laboratory reporting limit in any of the 15 samples
- Ethylbenzene was detected in each of the three samples collected at B-1 with concentrations ranging from 0.374 milligrams per kilogram (mg/kg) (2 to 3 ft bgs) to 6.29 mg/kg (9 to 10 ft bgs)
- Total Xylenes were detected in each of the three samples collected at B-1 with concentrations ranging from 0.747 mg/kg (2 to 3 ft bgs) to 23.6 mg/kg (9 to 10 ft bgs)
- Total BTEX compounds were detected in each of the three samples collected at B-1 with concentrations ranging from 1.12 mg/kg (2 to 3 ft bgs) to 29.9 mg/kg (9 to 10 ft bgs). Total BTEX concentrations do not the exceed the 2018 NMAC CC of 50 mg/kg.

- Chloride was detected in each of the 15 samples collected at the site with concentrations ranging from an estimated 12.9 mg/kg at B-1 (6 to 7 ft bgs) to 2,710 mg/kg at B-5 (6 to 7 ft bgs). Chloride concentrations exceed the 2018 NMAC CC of 600 mg/kg in each of the samples collected from B-5 as well as one sample collected at B-2 (0 to 1 ft bgs) and one sample collected from B-3 (14to 15 ft bgs)
- TPH-GRO was detected in each of the three samples collected at B-1 with concentrations ranging from 74.4 mg/kg (2 to 3 ft bgs) to 903 mg/kg (9 to 10 ft bgs)
- TPH-DRO was detected in each of the three samples collected at B-1 with concentrations ranging from 1,810 mg/kg (2 to 3 ft bgs) to 4,800 mg/kg (9 to 10 ft bgs). TPH-DRO was also detected in one soil sample collected from B-5 (6 to 7 ft bgs) with an estimated concentration of 10.5 mg/kg
- TPH-ORO was detected in each of the three samples collected at B-1 with estimated concentrations ranging from 224 mg/kg (2 to 3 ft bgs) to 453 mg/kg (9 to 10 ft bgs)
   The 2018 NMAC CC for total TPH compounds (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg. Total TPH concentrations exceed the CC in each of the three samples collected from B-1.

### **2019 SOIL INVESTIGATION**

In October 2019, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the locations of observed staining during the AST removal and trenching, proximity of pipelines and other equipment at the site, as well as results of previous soil sampling activities completed at the Site in November 2018.

In October 2019, to evaluate the potential extent of impacts to soil at the Site, Arcadis advanced four shallow soil borings (B-6 through B-9) and one temporary monitoring well (MW-1). Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Slightly elevated (>3.0 PPM) photo ionization detection (PID) readings (6.1 to 192 parts ppm) were recorded at soil boring/temporary monitoring well location MW-1, as well as at soil boring location B-9 (9.5 to 379 ppm). Lower PID readings (0.0 to 4.1 ppm) were recorded at soil boring locations B-6, B-7, and B-8.

Four soil samples were collected from each boring location, and five soil samples were collected from temporary monitoring well MW-1. A total of 21 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260B
- Total petroleum hydrocarbons (TPH) diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

#### Soil Sample Results

The analytical data from the soil samples collected in October 2019 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the soil assessment samples are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- The 2019 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs. TPH concentrations exceeded the NMAC standard of 100 mg/kg in:
  - o All sample depths collected at B-9:
    - 0 1 ft bgs: 224 mg/kg
    - 1 2 ft bgs: 223 mg/kg
    - 4 5 ft bgs: 281 mg/kg
    - 9 10 ft bgs: 135 mg/kg
  - Four sample intervals collected at MW-1
    - 0 1 ft bgs: 229 mg/kg
    - 1 2 ft bgs: 604 mg/kg
    - 4 5 ft bgs: 1,600 mg/kg
    - 14 15 ft bgs: 394 mg/kg
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
  - One sample interval collected at B-6:
    - 1 2 ft bgs: 2,310 mg/kg
  - Two sample intervals collected at B-7:
    - 0 1 ft bgs: 1,680 mg/kg
    - 1 2 ft bgs: 2,350 mg/kg
  - Two samples collected from B-9:
    - 0 1 ft bgs: 1,300 mg/kg
    - 1 2 ft bgs: 754 mg/kg

### **2019 GROUNDWATER ASSESSMENT**

#### Monitoring Well Installation and Groundwater Sampling

Groundwater was gauged and samples were collected at the Site in 2019 from temporary monitoring well MW-1. The sample collected from MW-1 was analyzed for BTEX, TPH, and TDS (total dissolved solids). Temporary monitoring well MW-1 was plugged and abandoned after sampling.

#### **Groundwater Sample Results**

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Groundwater analytical results were compared to the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards. The analytical results for the groundwater sample collected from MW-1 in October 2019 are summarized below.

• Chloride was detected at a concentration of 387 milligrams per liter (mg/L) in the groundwater sample collected from MW-1 which exceeded the NMWQCC standard of 250 mg/L.

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- Benzene, toluene, ethylbenzene, and total xylenes reported below the NMWQCC standards of 0.01, 0.75, 0.75, and 0.62 mg/L, respectively, in MW-1 in October 2019.
- TDS exceeded the NMWQCC standard of 1,000 mg/L in monitoring well MW-1 at a concentration of 4,790 mg/L in October 2019

### **2020 SOIL INVESTIGATION**

In November 2020, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the locations of observed staining during the AST removal and trenching, proximity of pipelines and other equipment at the site, as well as results of previous soil sampling activities completed at the Site in November 2018 and October 2019.

In November 2020, to evaluate the potential extent of impacts to soil at the Site, Arcadis advanced nine shallow soil borings (SB-9 through SB-17). Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Elevated (>3.0 parts per million (ppm)) photo ionizing device (PID) readings were observed at SB-14 and SB-15 at depths of 1 to 9 ft bgs ranging from 6.9 to 238 ppm, and at depths of 2 to 8 ft bgs ranging from 6.0 to 187 ppm, respectively.

Soil samples were collected from each boring location at surface (0-1 ft bgs) and every foot to a total depth of 10 ft bgs for SB-9 through SB-13, 9 ft bgs for SB-14 and 15, and 4 ft bgs for SB-16 and 17. A total of 49 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260
- Total petroleum hydrocarbons (TPH) diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

#### **Soil Sample Results**

The analytical data from the soil samples collected in November 2020 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the soil assessment samples are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- The 2019 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs. TPH concentrations exceeded the NMAC standard of 100 mg/kg in:
  - o All seven (7) sample locations at SB-14
    - 0 1 ft bgs: 1,150 mg/kg
    - 1 2 ft bgs: 1,330 mg/kg
    - 2 3 ft bgs: 1,120 mg/kg
    - 3 4 ft bgs: 2,510 mg/kg

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- 5 6 ft bgs: 5,110 mg/kg
- 7 8 ft bgs: 5,970 mg/kg
- 8 9 ft bgs: 809 mg/kg
- Five (5) locations at SB-15
  - 0 1 ft bgs: 190 mg/kg
  - 1 2 ft bgs: 117 mg/kg
  - 2 3 ft bgs: 1,770 mg/kg
  - 3 4 ft bgs: 998 mg/kg
  - 7 8 ft bgs: 139 mg/kg
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
  - o All seven (7) sample locations at SB-9
    - 0 1 ft bgs: 1,360 mg/kg
    - 1 2 ft bgs: 4,210 mg/kg
    - 2 3 ft bgs: 2,070 mg/kg
    - 3 4 ft bgs: 1,460 mg/kg
    - 5 6 ft bgs: 2,760 mg/kg
    - 7 8 ft bgs: 1,390 mg/kg
    - 9 10 ft bgs: 1,690 mg/kg
  - Six (6) sample locations in SB-11
    - 0 1 ft bgs: 715 mg/kg
    - 1 2 ft bgs: 789 mg/kg
    - 3 4 ft bgs: 2,300 mg/kg
    - 5 6 ft bgs: 2,480 mg/kg
    - 7 8 ft bgs: 1,090 mg/kg
    - 9 10 ft bgs: 917 mg/kg
  - Five (5) sample locations in SB-12
    - 0 1 ft bgs: 7,660 mg/kg
    - 1 2 ft bgs: 7,850 mg/kg
    - 2 3 ft bgs: 2,010 mg/kg
    - 3 4 ft bgs: 936 mg/kg
    - 5 6 ft bgs: 3,990 mg/kg
  - Three (3) sample locations in SB-16
    - 0 1 ft bgs: 1,230 mg/kg
      - 1 2 ft bgs: 863 mg/kg
    - 2 3 ft bgs: 803 mg/kg
  - All four (4) sample locations in SB-17
    - 0 1 ft bgs: 1,240 mg/kg
    - 1 2 ft bgs: 602 mg/kg
    - 2 3 ft bgs: 1,820 mg/kg
    - 3 4 ft bgs: 942 mg/kg

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

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CONDITIONS

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Action 395106

CONDITIONS

Operator:	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd	Action Number:
Midland, TX 79706	395106
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS		
Created By	Condition	Condition Date
michael.buchanan	Review of the 2024 Assessment Activities Work Plan for Federal 4 Com #001: Content is satisfactory is hereby approved with the following condition: 1 As groundwater has been confirmed to be impacted at this site, please collect soil samples at every foot to a depth of 14 feet; depth to groundwater is approximately 14 feet from surface. 2. Install eight (8) soil borings as proposed at locations, with the additional four feet to groundwater. 3 Submit soil samples for BTEX, TPH and chloride analyses. 4. Please submit the work plan results to OCD within sixty (60) days from the receipt of this approval.	1/14/2025