



September 8, 2020

Oil Conservation Division, District I
1625 N. French Drive
Hobbs, New Mexico 88240

Bureau of Land Management, CFO
620 E. Green St.
Carlsbad, NM 88220

Re: Closure Report
Azores Federal 002H (4.18.20)
Tracking#: NRM2012235693
GPS: 32.181495, -103.69847
Unit Letter O, Section 29, Township 24 South, Range 32 East
Lea County, New Mexico

To Whom it May Concern,

COG Operating, LLC (COG) is pleased to submit the following closure report in response to a release that occurred at the Azores Federal #002H, located in Unit Letter O, Section 29, Township 24 South, Range 32 East Lea County, New Mexico. The spill site coordinates are 32.181495, -103.69847.

BACKGROUND

The release was discovered on April 18, 2020. An initial C-141 was submitted and accepted by the New Mexico Oil Conservation Division (NMOCD). The release was caused by internal flowline corrosion. The entirety of the release was on pad within an earthen berm. Approximately four (4) barrels of produced water and two (2) barrels of crude were released. The initial C-141 is attached in Appendix A.

GROUNDWATER AND REGULATORY

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within a one (1) Mile radius of the Release Site and identify any registered water wells within a 1/2 Mile of the Release Site. No water wells were found within a 1/2 mile of the Release site; therefore, COG remediated the site to the standards shown in Table I of 19.15.29.12 NMAC for an average depth to water of <50 feet.

A risk-based evaluation and site determinations were performed in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). According to the site characterization evaluation, the affected area has low potential for cave and karst, and no other receptors (water wells, playas, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

| Site Characterization | Average Groundwater Depth (ft.) | Water well within ½ Mile |
|-----------------------|---------------------------------|--------------------------|
| Low Karst | >100 ft | Not found |

Delineation and Closure Criteria:

| Remedial Action Levels (RALs) | |
|-------------------------------|-----------|
| Chlorides | 600 mg/kg |
| TPH (GRO and DRO and MRO) | 100 mg/kg |
| Benzene | 10 mg/kg |
| Total BTEX | 50 mg/kg |

INITIAL ASSESSMENT

- Prior to remediation, one (1) auger hole (AH-1) was installed to assess and evaluate the release area. The sample results are shown in Table 1. The samples indicated that the impacted area around AH-1 was impacted to a depth of approximately 1.0' to 1.5' below surface.

REMEDIAL ACTIONS

- Once excavated to the appropriate depth, confirmation samples were collected from the excavation bottom and sidewalls per NMAC 19.15.29.
- The impacted areas around L1 and L2 were excavated to a depth of approximately 1.5' to 2.0' below surface and the areas of L3 and L4 were both excavated to a depth of approximately 1.0' below surface.
- Table 1 shows the sample depths and analytical results.
- All the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The site was backfilled with clean "like" material.
- The analytical data shows that all confirmation samples meets NMOCD closure criteria (NMAC 19.15.29.12(E) Table I).

SAMPLING AND BACKFILLING

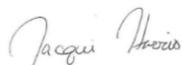
Once excavated, soil samples were collected from the bottom and sidewalls to confirm the removal of impacted soil. Composite bottom and sidewall samples were collected every 200 square feet to be representative of the release area. All samples were below Table 1 closure criterial levels. Once completed, the excavated area was backfilled with non-contaminated material with concentrations below 600 mg/kg of chlorides.

CLOSURE REQUEST

COG Operating, LLC respectfully requests that the New Mexico Oil Conservation Division and the Bureau of Land Management grant closure approval for the Azores Federal #002H that occurred on April 18, 2020 (Tracking # NRM2012235693). The final C-141 is attached in Appendix A.

Should you have any questions or concerns on the closure report, please do not hesitate to contact me.

Sincerely,



Jacqui Harris
Senior HSE Coordinator
Jharris2@concho.com

Maps

Azores Federal 2H

Site and Sample Map

Legend

-  AH-1 (Initial Sample)
-  Azores Fed 2 Release Area (4.18.20)
-  Confirmation Samples
-  Sidewall Sample

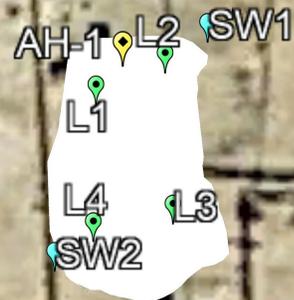


Table of Analytical Data

**Table 1
COG Operating LLC.
Azores Federal 2
Lea County, New Mexico**

| Sample ID | Sample Date | Soil Status | | TPH (mg/kg) | | | | | | | Benzene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|--|-------------|--|---------|-------------|----------|----------|---------------|----------|----------|---------------|-----------------|--------------------|------------------|
| | | In-Situ | Removed | GRO | DRO | MRO | Total | GRO | DRO | Total | | | |
| Average Depth to Groundwater (ft) | | >100' with no water well within 1/2 mile | | | | | | | | | | | |
| NMOC RRAL Limits (mg/kg) | | | | - | - | - | 100 | - | - | 100 | 10 | 50 | 600 |
| Initial Assessment and Sampling | | | | | | | | | | | | | |
| AH-1 (0-1) | 6/9/2020 | | X | 892 | 3990 | 279 | 5161.0 | 892 | 3990 | 4882.0 | 0.0594 | 20.6 | 15500 |
| AH-1 (1-1.5) | 6/9/2020 | | X | <50.0 | <50.0 | <50.0 | 0.0 | <50.0 | <50.0 | 0.0 | <0.00198 | 0.0949 | 155 |
| Confirmation Sampling | | | | | | | | | | | | | |
| L1 (1' bottom) | 7/29/2020 | | X | <50.0 | 1220 | 123 | 1340.0 | <50.0 | 1220 | 1220.0 | <0.0172 | 0.5 | 24.6 |
| L1 (1.5' bottom) | 7/29/2020 | | X | <50.0 | 529 | 67.2 | 596.0 | <50.0 | 529 | 529.0 | <0.00200 | 0.0624 | 20.5 |
| L1 (2' bottom) | 7/31/2020 | X | | <50.0 | <50.0 | <50.0 | 0.0 | <50.0 | <50.0 | 0.0 | <0.00200 | <0.00200 | <10.0 |
| L2 (2' bottom) | 7/29/2020 | X | | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 0.0 | <0.00201 | 0.0999 | 250.0 |
| L2 (2.5' bottom) | 7/29/2020 | X | | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 0.0 | <0.00201 | <0.00201 | <9.92 |
| L3 (6" bottom) | 7/29/2020 | | X | <50.0 | 235 | <50.0 | 235.0 | <50.0 | 235 | 235.0 | <0.00200 | 0.1 | 113.0 |
| L3 (1' bottom) | 7/29/2020 | X | | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 0.0 | <0.00200 | 0.1 | <9.92 |
| L4 (6" bottom) | 7/29/2020 | | X | <50.0 | 348 | <50.0 | 348.0 | <50.0 | 348 | 348.0 | <0.00990 | 0.0 | 113.0 |
| L4 (1' bottom) | 7/29/2020 | X | | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 0.0 | <0.00200 | <0.00200 | 45.7 |
| SW1 | 7/31/2020 | X | | <50.0 | <50.0 | <50.0 | 0.0 | <50.0 | <50.0 | 0.0 | <0.00199 | <0.00199 | <9.96 |
| SW2 | 7/31/2020 | X | | <49.9 | <49.9 | <49.9 | 0.0 | <49.9 | <49.9 | 0.0 | <0.00200 | <0.00200 | <9.98 |

(-) Not Analyzed

Soil Excavated and Removed

PHOTOS



Open Excavation



Backfilled

Appendix A

C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

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

Release Notification

Responsible Party

| | |
|-------------------------|------------------------------|
| Responsible Party | OGRID |
| Contact Name | Contact Telephone |
| Contact email | Incident # (assigned by OCD) |
| Contact mailing address | |

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

| | |
|-------------------------|----------------------|
| Site Name | Site Type |
| Date Release Discovered | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| | | | | |

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

| | | |
|---|--|--|
| <input type="checkbox"/> Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release

State of New Mexico
Oil Conservation Division

Page 2

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

| | |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

| |
|--|
| <input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. |
| If all the actions described above have <u>not</u> been undertaken, explain why: |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |
| Printed Name _____ Title: _____ Signature: <u>Patricia Espinoza</u> _____ Date: _____ email: _____ Telephone: _____ |
| <u>OCD Only</u> Received by: _____ Date: _____ |

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

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| | |
|---|--|
| What is the shallowest depth to groundwater beneath the area affected by the release? | _____ (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: Jaqui Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: Jaquie Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

Site Assessment Data

Azores Federal 2H

Karst Occurance

Legend



Azores



Low Karst Potential

Azores Fed 2H



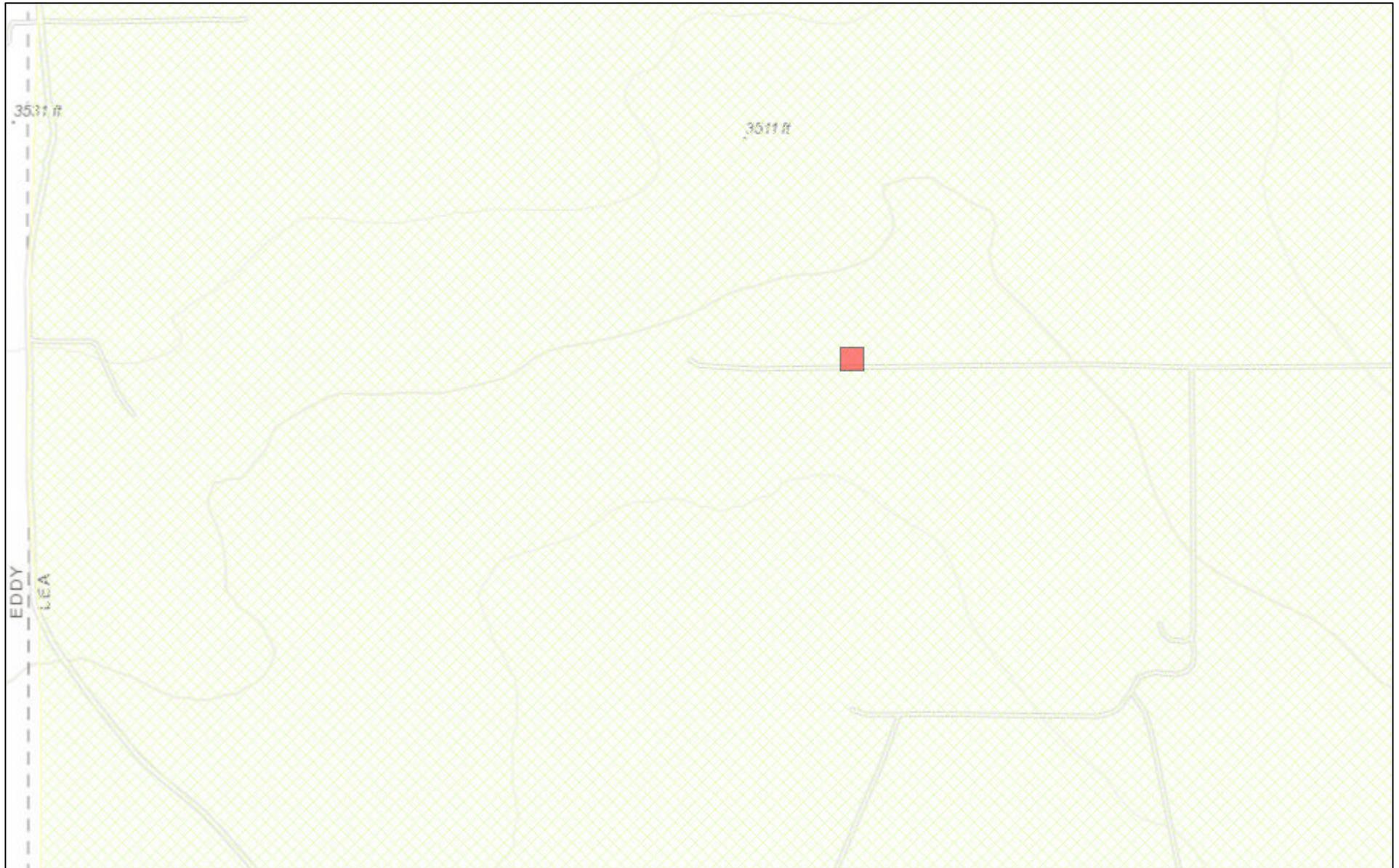
1

J-1

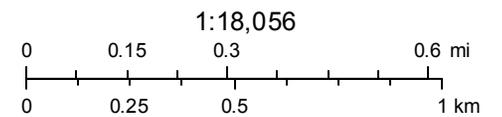


2 mi

New Mexico NFHL Data



September 8, 2020



FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321005103402301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321005103402301 24S.32E.33.42241

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Land-surface elevation 3,499.00 feet above NGVD29

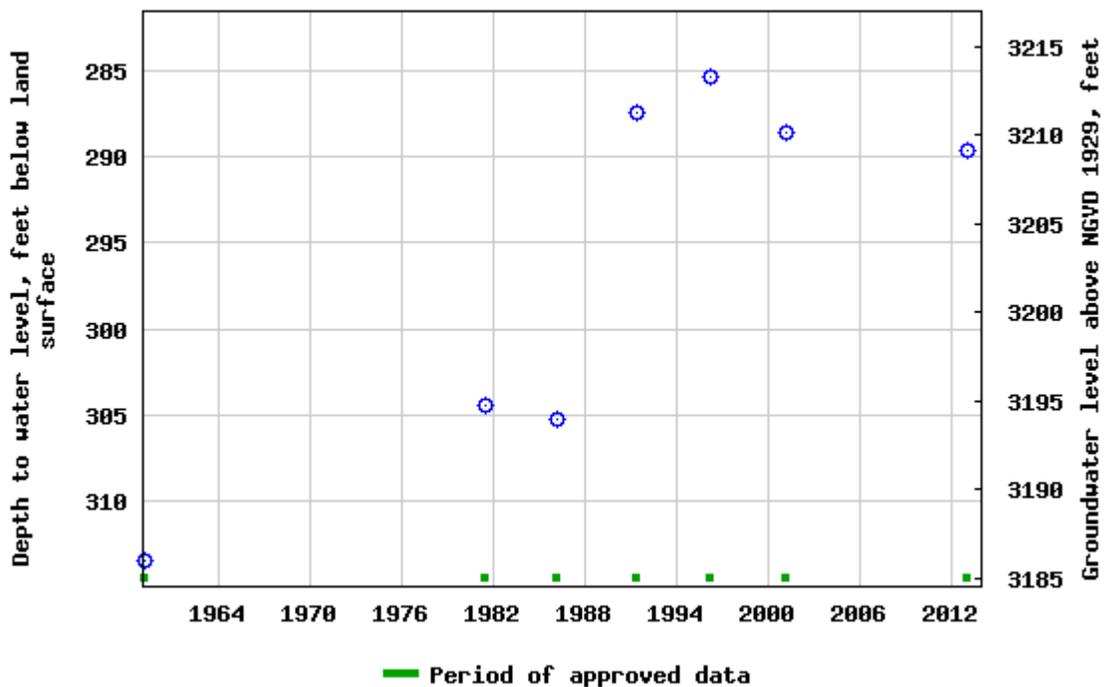
The depth of the well is 367 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

| |
|------------------------------------|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

USGS 321005103402301 24S.32E.33.42241



Breaks in the plot represent a gap of at least one year between field measurements. [Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
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[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2020-06-19 15:26:36 EDT

0.67 0.57 nadww01

Appendix C

Analytical Data



Certificate of Analysis Summary 664333

COG Operating, LLC, Midland, TX

Project Name: Azores Federal 2H (4/18/20_

Project Id:
Contact: Ike Tavarez
Project Location: Lea County NM

Date Received in Lab: Fri 06.12.2020 14:05
Report Date: 06.19.2020 14:22
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 664333-001 | 664333-002 | | | |
|------------------------------------|-------------------|------------------|------------------|--|--|--|
| | <i>Field Id:</i> | AH-1 (0-1) | AH-1 (1-1.5) | | | |
| | <i>Depth:</i> | | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | | | |
| | <i>Sampled:</i> | 06.09.2020 00:00 | 06.09.2020 00:00 | | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | 06.18.2020 15:00 | 06.18.2020 15:00 | | | |
| | <i>Analyzed:</i> | 06.19.2020 03:22 | 06.19.2020 01:20 | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | |
| Benzene | | 0.0594 0.0400 | <0.00198 0.00198 | | | |
| Toluene | | 2.58 0.0400 | 0.0138 0.00198 | | | |
| Ethylbenzene | | 4.44 0.0400 | 0.0194 0.00198 | | | |
| m,p-Xylenes | | 8.80 0.0800 | 0.0404 0.00397 | | | |
| o-Xylene | | 4.75 0.0400 | 0.0213 0.00198 | | | |
| Total Xylenes | | 13.6 0.0400 | 0.0617 0.00198 | | | |
| Total BTEX | | 20.6 0.0400 | 0.0949 0.00198 | | | |
| Chloride by EPA 300 | <i>Extracted:</i> | 06.12.2020 16:15 | 06.12.2020 16:15 | | | |
| | <i>Analyzed:</i> | 06.13.2020 02:07 | 06.13.2020 02:12 | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | |
| Chloride | | 15500 100 | 155 5.00 | | | |
| TPH By SW8015 Mod | <i>Extracted:</i> | 06.12.2020 17:00 | 06.12.2020 17:00 | | | |
| | <i>Analyzed:</i> | 06.13.2020 04:51 | 06.13.2020 05:10 | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | |
| Gasoline Range Hydrocarbons | | 892 49.9 | <50.0 50.0 | | | |
| Diesel Range Organics | | 3990 49.9 | <50.0 50.0 | | | |
| Motor Oil Range Hydrocarbons (MRO) | | 279 49.9 | <50.0 50.0 | | | |
| Total TPH | | 5160 49.9 | <50.0 50.0 | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Manager



Analytical Report 664333

for

COG Operating, LLC

Project Manager: Ike Tavarez

Azores Federal 2H (4/18/20_

06.19.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-34), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.19.2020

Project Manager: **Ike Tavarez**
COG Operating, LLC
600 W Illinois
Midland, TX 79701

Reference: XENCO Report No(s): **664333**
Azores Federal 2H (4/18/20_
Project Address: Lea County NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 664333. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 664333 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, slightly slanted style.

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 664333

COG Operating, LLC, Midland, TX

Azores Federal 2H (4/18/20_

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|--------------|--------|------------------|--------------|---------------|
| AH-1 (0-1) | S | 06.09.2020 00:00 | | 664333-001 |
| AH-1 (1-1.5) | S | 06.09.2020 00:00 | | 664333-002 |



CASE NARRATIVE

Client Name: COG Operating, LLC

Project Name: Azores Federal 2H (4/18/20_

Project ID:
Work Order Number(s): 664333

Report Date: 06.19.2020
Date Received: 06.12.2020

Sample receipt non conformances and comments:

V1.001 Revision - O-xylenes missing from original version JK 06/19/2020

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3128926 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 664333-001.

Batch: LBA-3129395 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 664333-001.



Certificate of Analytical Results 664333

COG Operating, LLC, Midland, TX

Azores Federal 2H (4/18/20_

Sample Id: **AH-1 (0-1)**
 Lab Sample Id: 664333-001

Matrix: Soil
 Date Collected: 06.09.2020 00:00

Date Received: 06.12.2020 14:05

Analytical Method: Chloride by EPA 300
 Tech: CHE
 Analyst: CHE
 Seq Number: 3128895

Date Prep: 06.12.2020 16:15

Prep Method: E300P
 % Moisture:
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 15500 | 100 | mg/kg | 06.13.2020 02:07 | | 20 |

Analytical Method: TPH By SW8015 Mod
 Tech: DVM
 Analyst: ARM
 Seq Number: 3128926

Date Prep: 06.12.2020 17:00

Prep Method: SW8015P
 % Moisture:
 Basis: Wet Weight

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | 892 | 49.9 | mg/kg | 06.13.2020 04:51 | | 1 |
| Diesel Range Organics | C10C28DRO | 3990 | 49.9 | mg/kg | 06.13.2020 04:51 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 279 | 49.9 | mg/kg | 06.13.2020 04:51 | | 1 |
| Total TPH | PHC635 | 5160 | 49.9 | mg/kg | 06.13.2020 04:51 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 123 | % | 70-130 | 06.13.2020 04:51 | |
| o-Terphenyl | 84-15-1 | 186 | % | 70-130 | 06.13.2020 04:51 | ** |



Certificate of Analytical Results 664333

COG Operating, LLC, Midland, TX

Azores Federal 2H (4/18/20_

Sample Id: **AH-1 (0-1)**
 Lab Sample Id: 664333-001

Matrix: Soil
 Date Collected: 06.09.2020 00:00

Date Received: 06.12.2020 14:05

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 15:00

Basis: Wet Weight

Seq Number: 3129395

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | 0.0594 | 0.0400 | mg/kg | 06.19.2020 03:22 | | 20 |
| Toluene | 108-88-3 | 2.58 | 0.0400 | mg/kg | 06.19.2020 03:22 | | 20 |
| Ethylbenzene | 100-41-4 | 4.44 | 0.0400 | mg/kg | 06.19.2020 03:22 | | 20 |
| m,p-Xylenes | 179601-23-1 | 8.80 | 0.0800 | mg/kg | 06.19.2020 03:22 | | 20 |
| o-Xylene | 95-47-6 | 4.75 | 0.0400 | mg/kg | 06.19.2020 03:22 | | 20 |
| Total Xylenes | 1330-20-7 | 13.6 | 0.0400 | mg/kg | 06.19.2020 03:22 | | 20 |
| Total BTEX | | 20.6 | 0.0400 | mg/kg | 06.19.2020 03:22 | | 20 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 400 | % | 70-130 | 06.19.2020 03:22 | ** | |



Certificate of Analytical Results 664333

COG Operating, LLC, Midland, TX

Azores Federal 2H (4/18/20_

Sample Id: **AH-1 (1-1.5)**

Matrix: Soil

Date Received: 06.12.2020 14:05

Lab Sample Id: 664333-002

Date Collected: 06.09.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.12.2020 16:15

Basis: Wet Weight

Seq Number: 3128895

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 155 | 5.00 | mg/kg | 06.13.2020 02:12 | | 1 |

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.12.2020 17:00

Basis: Wet Weight

Seq Number: 3128926

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 06.13.2020 05:10 | U | 1 |
| Diesel Range Organics | C10C28DRO | <50.0 | 50.0 | mg/kg | 06.13.2020 05:10 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 06.13.2020 05:10 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 06.13.2020 05:10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-130 | 06.13.2020 05:10 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-130 | 06.13.2020 05:10 | |



Certificate of Analytical Results 664333

COG Operating, LLC, Midland, TX

Azores Federal 2H (4/18/20_

Sample Id: **AH-1 (1-1.5)**

Matrix: Soil

Date Received: 06.12.2020 14:05

Lab Sample Id: 664333-002

Date Collected: 06.09.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.18.2020 15:00

Basis: Wet Weight

Seq Number: 3129395

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|---------------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 06.19.2020 01:20 | U | 1 |
| Toluene | 108-88-3 | 0.0138 | 0.00198 | mg/kg | 06.19.2020 01:20 | | 1 |
| Ethylbenzene | 100-41-4 | 0.0194 | 0.00198 | mg/kg | 06.19.2020 01:20 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0404 | 0.00397 | mg/kg | 06.19.2020 01:20 | | 1 |
| o-Xylene | 95-47-6 | 0.0213 | 0.00198 | mg/kg | 06.19.2020 01:20 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0617 | 0.00198 | mg/kg | 06.19.2020 01:20 | | 1 |
| Total BTEX | | 0.0949 | 0.00198 | mg/kg | 06.19.2020 01:20 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 109 | % | 70-130 | 06.19.2020 01:20 | |



COG Operating, LLC
Azores Federal 2H (4/18/20_

Analytical Method: Chloride by EPA 300

Seq Number: 3128895
MB Sample Id: 7705369-1-BLK

Matrix: Solid
LCS Sample Id: 7705369-1-BKS

Prep Method: E300P
Date Prep: 06.12.2020
LCSD Sample Id: 7705369-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride | <5.00 | 250 | 240 | 96 | 231 | 92 | 90-110 | 4 | 20 | mg/kg | 06.13.2020 00:00 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3128895
Parent Sample Id: 664315-076

Matrix: Soil
MS Sample Id: 664315-076 S

Prep Method: E300P
Date Prep: 06.12.2020
MSD Sample Id: 664315-076 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride | 13.6 | 248 | 255 | 97 | 256 | 98 | 90-110 | 0 | 20 | mg/kg | 06.13.2020 00:16 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3128895
Parent Sample Id: 664315-086

Matrix: Soil
MS Sample Id: 664315-086 S

Prep Method: E300P
Date Prep: 06.12.2020
MSD Sample Id: 664315-086 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride | 12.1 | 248 | 256 | 98 | 256 | 98 | 90-110 | 0 | 20 | mg/kg | 06.13.2020 01:26 | |

Analytical Method: TPH By SW8015 Mod

Seq Number: 3128926
MB Sample Id: 7705407-1-BLK

Matrix: Solid
LCS Sample Id: 7705407-1-BKS

Prep Method: SW8015P
Date Prep: 06.12.2020
LCSD Sample Id: 7705407-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons | <50.0 | 1000 | 977 | 98 | 1140 | 114 | 70-130 | 15 | 20 | mg/kg | 06.13.2020 02:43 | |
| Diesel Range Organics | <50.0 | 1000 | 951 | 95 | 1090 | 109 | 70-130 | 14 | 20 | mg/kg | 06.13.2020 02:43 | |

Surrogate

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 104 | | 125 | | 130 | | 70-130 | % | 06.13.2020 02:43 |
| o-Terphenyl | 110 | | 114 | | 127 | | 70-130 | % | 06.13.2020 02:43 |

Analytical Method: TPH By SW8015 Mod

Seq Number: 3128926

Matrix: Solid
MB Sample Id: 7705407-1-BLK

Prep Method: SW8015P
Date Prep: 06.12.2020

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 06.13.2020 02:24 | |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



COG Operating, LLC
Azores Federal 2H (4/18/20_

Analytical Method: TPH By SW8015 Mod

Seq Number: 3128926
Parent Sample Id: 664315-081

Matrix: Soil
MS Sample Id: 664315-081 S

Prep Method: SW8015P
Date Prep: 06.12.2020
MSD Sample Id: 664315-081 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons | <49.9 | 998 | 990 | 99 | 995 | 100 | 70-130 | 1 | 20 | mg/kg | 06.13.2020 03:38 | |
| Diesel Range Organics | <49.9 | 998 | 996 | 100 | 1000 | 100 | 70-130 | 0 | 20 | mg/kg | 06.13.2020 03:38 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 119 | | 120 | | 70-130 | % | 06.13.2020 03:38 |
| o-Terphenyl | 104 | | 105 | | 70-130 | % | 06.13.2020 03:38 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129395
MB Sample Id: 7705768-1-BLK

Matrix: Solid
LCS Sample Id: 7705768-1-BKS

Prep Method: SW5035A
Date Prep: 06.18.2020
LCSD Sample Id: 7705768-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene | <0.00200 | 0.100 | 0.100 | 100 | 0.103 | 103 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |
| Toluene | <0.00200 | 0.100 | 0.0978 | 98 | 0.0965 | 97 | 70-130 | 1 | 35 | mg/kg | 06.18.2020 22:15 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0971 | 97 | 0.100 | 100 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.192 | 96 | 0.198 | 99 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |
| o-Xylene | <0.00200 | 0.100 | 0.0980 | 98 | 0.101 | 101 | 70-130 | 3 | 35 | mg/kg | 06.18.2020 22:15 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 4-Bromofluorobenzene | 105 | | 100 | | 100 | | 70-130 | % | 06.18.2020 22:15 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3129395
Parent Sample Id: 664315-078

Matrix: Soil
MS Sample Id: 664315-078 S

Prep Method: SW5035A
Date Prep: 06.18.2020
MSD Sample Id: 664315-078 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene | <0.00198 | 0.0992 | 0.0832 | 84 | 0.0874 | 87 | 70-130 | 5 | 35 | mg/kg | 06.18.2020 22:56 | |
| Toluene | <0.00198 | 0.0992 | 0.0754 | 76 | 0.0820 | 82 | 70-130 | 8 | 35 | mg/kg | 06.18.2020 22:56 | |
| Ethylbenzene | <0.00198 | 0.0992 | 0.0705 | 71 | 0.0817 | 82 | 70-130 | 15 | 35 | mg/kg | 06.18.2020 22:56 | |
| m,p-Xylenes | <0.00397 | 0.198 | 0.136 | 69 | 0.158 | 79 | 70-130 | 15 | 35 | mg/kg | 06.18.2020 22:56 | X |
| o-Xylene | <0.00198 | 0.0992 | 0.0723 | 73 | 0.0825 | 83 | 70-130 | 13 | 35 | mg/kg | 06.18.2020 22:56 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 4-Bromofluorobenzene | 101 | | 102 | | 70-130 | % | 06.18.2020 22:56 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating, LLC

Date/ Time Received: 06.12.2020 02.05.00 PM

Work Order #: 664333

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | -2 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6*Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | N/A |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 06.12.2020
 Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 06.12.2020
 Jessica Kramer



Certificate of Analysis Summary 668503

COG Operating LLC, Artesia, NM

Project Name: Azores Fed 2

Project Id:
Contact: Jacqui Harris
Project Location: Lea County, NM

Date Received in Lab: Wed 07.29.2020 11:15
Report Date: 07.30.2020 09:37
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 668503-001 | | 668503-002 | | 668503-003 | | 668503-004 | | 668503-005 | | 668503-006 | |
|------------------------------------|-------------------|------------------|--------|------------------|---------|------------------|---------|------------------|---------|------------------|---------|------------------|---------|
| | <i>Field Id:</i> | L1 @ 1' | | L1 @ 1.5' | | L2 @ 2' | | L2 @ 2.5' | | L3 @ 6" | | L3 @ 1' | |
| | <i>Depth:</i> | 1- ft | | 1.5- ft | | 2- ft | | 2.5- ft | | 6- ft | | 1- ft | |
| | <i>Matrix:</i> | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | | SOIL | |
| | <i>Sampled:</i> | 07.29.2020 07:00 | | 07.29.2020 07:03 | | 07.29.2020 07:07 | | 07.29.2020 07:10 | | 07.29.2020 07:15 | | 07.29.2020 07:18 | |
| BTEX by EPA 8021B | <i>Extracted:</i> | 07.29.2020 15:07 | | 07.29.2020 15:07 | | 07.29.2020 15:07 | | 07.29.2020 15:07 | | 07.29.2020 15:07 | | 07.29.2020 15:07 | |
| | <i>Analyzed:</i> | 07.29.2020 15:39 | | 07.29.2020 15:59 | | 07.29.2020 16:19 | | 07.29.2020 16:40 | | 07.29.2020 17:00 | | 07.29.2020 17:21 | |
| | <i>Units/RL:</i> | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Benzene | | <0.0172 | 0.0172 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | <0.00200 | 0.00200 | <0.00200 | 0.00200 |
| Toluene | | <0.0172 | 0.0172 | <0.00200 | 0.00200 | <0.00201 | 0.00201 | <0.00201 | 0.00201 | 0.00569 | 0.00200 | <0.00200 | 0.00200 |
| Ethylbenzene | | 0.0675 | 0.0172 | 0.0121 | 0.00200 | 0.00658 | 0.00201 | <0.00201 | 0.00201 | 0.0151 | 0.00200 | 0.0152 | 0.00200 |
| m,p-Xylenes | | 0.162 | 0.0345 | 0.0295 | 0.00399 | 0.0119 | 0.00402 | <0.00402 | 0.00402 | 0.0596 | 0.00400 | 0.0104 | 0.00400 |
| o-Xylene | | 0.223 | 0.0172 | 0.0208 | 0.00200 | 0.0814 | 0.00201 | <0.00201 | 0.00201 | 0.0512 | 0.00200 | 0.0950 | 0.00200 |
| Total Xylenes | | 0.385 | 0.0172 | 0.0503 | 0.00200 | 0.0933 | 0.00201 | <0.00201 | 0.00201 | 0.111 | 0.00200 | 0.105 | 0.00200 |
| Total BTEX | | 0.453 | 0.0172 | 0.0624 | 0.00200 | 0.0999 | 0.00201 | <0.00201 | 0.00201 | 0.132 | 0.00200 | 0.121 | 0.00200 |
| Chloride by EPA 300 | <i>Extracted:</i> | 07.29.2020 12:30 | | 07.29.2020 12:30 | | 07.29.2020 12:30 | | 07.29.2020 12:30 | | 07.29.2020 12:30 | | 07.29.2020 12:30 | |
| | <i>Analyzed:</i> | 07.29.2020 13:13 | | 07.29.2020 13:34 | | 07.29.2020 13:41 | | 07.29.2020 13:48 | | 07.29.2020 13:55 | | 07.29.2020 14:16 | |
| | <i>Units/RL:</i> | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Chloride | | 24.6 | 9.94 | 20.5 | 10.0 | 250 | 10.1 | <9.92 | 9.92 | 113 | 9.98 | <9.92 | 9.92 |
| TPH By SW8015 Mod | <i>Extracted:</i> | 07.29.2020 15:00 | | 07.29.2020 15:00 | | 07.29.2020 15:00 | | 07.29.2020 15:00 | | 07.29.2020 15:00 | | 07.29.2020 15:00 | |
| | <i>Analyzed:</i> | 07.29.2020 15:17 | | 07.29.2020 15:37 | | 07.29.2020 15:57 | | 07.29.2020 16:18 | | 07.29.2020 16:38 | | 07.29.2020 16:58 | |
| | <i>Units/RL:</i> | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL | mg/kg | RL |
| Gasoline Range Hydrocarbons | | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Diesel Range Organics | | 1220 | 50.0 | 529 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | 235 | 50.0 | <50.0 | 50.0 |
| Motor Oil Range Hydrocarbons (MRO) | | 123 | 50.0 | 67.2 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 |
| Total TPH | | 1340 | 50.0 | 596 | 50.0 | <50.0 | 50.0 | <50.0 | 50.0 | 235 | 50.0 | <50.0 | 50.0 |

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Certificate of Analysis Summary 668503

COG Operating LLC, Artesia, NM

Project Name: Azores Fed 2

Project Id:
Contact: Jacqui Harris
Project Location: Lea County, NM

Date Received in Lab: Wed 07.29.2020 11:15
Report Date: 07.30.2020 09:37
Project Manager: Jessica Kramer

| | | | | | | |
|------------------------------------|-----------------------------|------------------|------------------|--|--|--|
| Analysis Requested | Lab Id: | 668503-007 | 668503-008 | | | |
| | Field Id: | L4 @6" | L4 @1' | | | |
| | Depth: | 6- ft | 1- ft | | | |
| | Matrix: | SOIL | SOIL | | | |
| | Sampled: | 07.29.2020 07:22 | 07.29.2020 07:24 | | | |
| BTEX by EPA 8021B | Extracted: | 07.29.2020 15:07 | 07.29.2020 15:07 | | | |
| | Analyzed: | 07.29.2020 17:41 | 07.29.2020 15:18 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | |
| | Benzene | <0.00990 0.00990 | <0.00200 0.00200 | | | |
| Toluene | <0.00990 0.00990 | <0.00200 0.00200 | | | | |
| Ethylbenzene | <0.00990 0.00990 | <0.00200 0.00200 | | | | |
| m,p-Xylenes | 0.0210 0.0198 | <0.00400 0.00400 | | | | |
| o-Xylene | 0.0165 0.00990 | <0.00200 0.00200 | | | | |
| Total Xylenes | 0.0375 0.00990 | <0.00200 0.00200 | | | | |
| Total BTEX | 0.0375 0.00990 | <0.00200 0.00200 | | | | |
| Chloride by EPA 300 | Extracted: | 07.29.2020 12:30 | 07.29.2020 12:30 | | | |
| | Analyzed: | 07.29.2020 14:23 | 07.29.2020 14:30 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | |
| Chloride | 113 9.96 | 45.7 10.0 | | | | |
| TPH By SW8015 Mod | Extracted: | 07.29.2020 15:00 | 07.29.2020 13:00 | | | |
| | Analyzed: | 07.29.2020 17:20 | 07.29.2020 13:35 | | | |
| | Units/RL: | mg/kg RL | mg/kg RL | | | |
| | Gasoline Range Hydrocarbons | <50.0 50.0 | <50.0 50.0 | | | |
| | Diesel Range Organics | 348 50.0 | <50.0 50.0 | | | |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 50.0 | <50.0 50.0 | | | | |
| Total TPH | 348 50.0 | <50.0 50.0 | | | | |

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Analytical Report 668503

for

COG Operating LLC

Project Manager: Jacqui Harris

Azores Fed 2

07.30.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



07.30.2020

Project Manager: **Jacqui Harris**
COG Operating LLC
2407 Pecos Avenue
Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): **668503**
Azores Fed 2
Project Address: Lea County, NM

Jacqui Harris:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 668503. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 668503 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 668503

COG Operating LLC, Artesia, NM

Azores Fed 2

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| L1 @1' | S | 07.29.2020 07:00 | 1 ft | 668503-001 |
| L1 @1.5' | S | 07.29.2020 07:03 | 1.5 ft | 668503-002 |
| L2 @2' | S | 07.29.2020 07:07 | 2 ft | 668503-003 |
| L2 @2.5' | S | 07.29.2020 07:10 | 2.5 ft | 668503-004 |
| L3 @6" | S | 07.29.2020 07:15 | 6 ft | 668503-005 |
| L3 @1' | S | 07.29.2020 07:18 | 1 ft | 668503-006 |
| L4 @6" | S | 07.29.2020 07:22 | 6 ft | 668503-007 |
| L4 @1' | S | 07.29.2020 07:24 | 1 ft | 668503-008 |



CASE NARRATIVE

Client Name: COG Operating LLC

Project Name: Azores Fed 2

Project ID:
Work Order Number(s): 668503

Report Date: 07.30.2020
Date Received: 07.29.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: **L1 @1'** Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-001 Date Collected: 07.29.2020 07:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 24.6 | 9.94 | mg/kg | 07.29.2020 13:13 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 15:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 15:17 | U | 1 |
| Diesel Range Organics | C10C28DRO | 1220 | 50.0 | mg/kg | 07.29.2020 15:17 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 123 | 50.0 | mg/kg | 07.29.2020 15:17 | | 1 |
| Total TPH | PHC635 | 1340 | 50.0 | mg/kg | 07.29.2020 15:17 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 118 | % | 70-135 | 07.29.2020 15:17 | |
| o-Terphenyl | 84-15-1 | 109 | % | 70-135 | 07.29.2020 15:17 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM

Azores Fed 2

Sample Id: **L1 @1'**
 Lab Sample Id: 668503-001

Matrix: Soil
 Date Collected: 07.29.2020 07:00

Date Received: 07.29.2020 11:15
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.29.2020 15:07

Basis: Wet Weight

Seq Number: 3132984

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.0172 | 0.0172 | mg/kg | 07.29.2020 15:39 | U | 1 |
| Toluene | 108-88-3 | <0.0172 | 0.0172 | mg/kg | 07.29.2020 15:39 | U | 1 |
| Ethylbenzene | 100-41-4 | 0.0675 | 0.0172 | mg/kg | 07.29.2020 15:39 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.162 | 0.0345 | mg/kg | 07.29.2020 15:39 | | 1 |
| o-Xylene | 95-47-6 | 0.223 | 0.0172 | mg/kg | 07.29.2020 15:39 | | 1 |
| Total Xylenes | 1330-20-7 | 0.385 | 0.0172 | mg/kg | 07.29.2020 15:39 | | 1 |
| Total BTEX | | 0.453 | 0.0172 | mg/kg | 07.29.2020 15:39 | | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.29.2020 15:39 | | |
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 07.29.2020 15:39 | | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: **L1 @1.5'** Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-002 Date Collected: 07.29.2020 07:03 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 20.5 | 10.0 | mg/kg | 07.29.2020 13:34 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 15:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 15:37 | U | 1 |
| Diesel Range Organics | C10C28DRO | 529 | 50.0 | mg/kg | 07.29.2020 15:37 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 67.2 | 50.0 | mg/kg | 07.29.2020 15:37 | | 1 |
| Total TPH | PHC635 | 596 | 50.0 | mg/kg | 07.29.2020 15:37 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-135 | 07.29.2020 15:37 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-135 | 07.29.2020 15:37 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

| | | |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: L1 @1.5' | Matrix: Soil | Date Received: 07.29.2020 11:15 |
| Lab Sample Id: 668503-002 | Date Collected: 07.29.2020 07:03 | Sample Depth: 1.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5035A |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 07.29.2020 15:07 | Basis: Wet Weight |
| Seq Number: 3132984 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|---------------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:59 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:59 | U | 1 |
| Ethylbenzene | 100-41-4 | 0.0121 | 0.00200 | mg/kg | 07.29.2020 15:59 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0295 | 0.00399 | mg/kg | 07.29.2020 15:59 | | 1 |
| o-Xylene | 95-47-6 | 0.0208 | 0.00200 | mg/kg | 07.29.2020 15:59 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0503 | 0.00200 | mg/kg | 07.29.2020 15:59 | | 1 |
| Total BTEX | | 0.0624 | 0.00200 | mg/kg | 07.29.2020 15:59 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.29.2020 15:59 | |
| 1,4-Difluorobenzene | 540-36-3 | 91 | % | 70-130 | 07.29.2020 15:59 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: L2 @2' Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-003 Date Collected: 07.29.2020 07:07 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 250 | 10.1 | mg/kg | 07.29.2020 13:41 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 15:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 15:57 | U | 1 |
| Diesel Range Organics | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.29.2020 15:57 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.29.2020 15:57 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.29.2020 15:57 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-135 | 07.29.2020 15:57 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-135 | 07.29.2020 15:57 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

| | | |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: L2 @2' | Matrix: Soil | Date Received: 07.29.2020 11:15 |
| Lab Sample Id: 668503-003 | Date Collected: 07.29.2020 07:07 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5035A |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 07.29.2020 15:07 | Basis: Wet Weight |
| Seq Number: 3132984 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|----------------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:19 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:19 | U | 1 |
| Ethylbenzene | 100-41-4 | 0.00658 | 0.00201 | mg/kg | 07.29.2020 16:19 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0119 | 0.00402 | mg/kg | 07.29.2020 16:19 | | 1 |
| o-Xylene | 95-47-6 | 0.0814 | 0.00201 | mg/kg | 07.29.2020 16:19 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0933 | 0.00201 | mg/kg | 07.29.2020 16:19 | | 1 |
| Total BTEX | | 0.0999 | 0.00201 | mg/kg | 07.29.2020 16:19 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 07.29.2020 16:19 | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 07.29.2020 16:19 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: **L2 @2.5'** Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-004 Date Collected: 07.29.2020 07:10 Sample Depth: 2.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | <9.92 | 9.92 | mg/kg | 07.29.2020 13:48 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 15:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:18 | U | 1 |
| Diesel Range Organics | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.29.2020 16:18 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:18 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 102 | % | 70-135 | 07.29.2020 16:18 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 07.29.2020 16:18 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

| | | |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: L2 @2.5' | Matrix: Soil | Date Received: 07.29.2020 11:15 |
| Lab Sample Id: 668503-004 | Date Collected: 07.29.2020 07:10 | Sample Depth: 2.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5035A |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 07.29.2020 15:07 | Basis: Wet Weight |
| Seq Number: 3132984 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:40 | U | 1 |
| Toluene | 108-88-3 | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:40 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:40 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00402 | 0.00402 | mg/kg | 07.29.2020 16:40 | U | 1 |
| o-Xylene | 95-47-6 | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:40 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:40 | U | 1 |
| Total BTEX | | <0.00201 | 0.00201 | mg/kg | 07.29.2020 16:40 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 07.29.2020 16:40 | |
| 4-Bromofluorobenzene | 460-00-4 | 104 | % | 70-130 | 07.29.2020 16:40 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: **L3 @6"** Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-005 Date Collected: 07.29.2020 07:15 Sample Depth: 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 113 | 9.98 | mg/kg | 07.29.2020 13:55 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 15:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:38 | U | 1 |
| Diesel Range Organics | C10C28DRO | 235 | 50.0 | mg/kg | 07.29.2020 16:38 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:38 | U | 1 |
| Total TPH | PHC635 | 235 | 50.0 | mg/kg | 07.29.2020 16:38 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-135 | 07.29.2020 16:38 | |
| o-Terphenyl | 84-15-1 | 99 | % | 70-135 | 07.29.2020 16:38 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

| | | |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: L3 @6" | Matrix: Soil | Date Received: 07.29.2020 11:15 |
| Lab Sample Id: 668503-005 | Date Collected: 07.29.2020 07:15 | Sample Depth: 6 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5035A |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 07.29.2020 15:07 | Basis: Wet Weight |
| Seq Number: 3132984 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|----------------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 17:00 | U | 1 |
| Toluene | 108-88-3 | 0.00569 | 0.00200 | mg/kg | 07.29.2020 17:00 | | 1 |
| Ethylbenzene | 100-41-4 | 0.0151 | 0.00200 | mg/kg | 07.29.2020 17:00 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0596 | 0.00400 | mg/kg | 07.29.2020 17:00 | | 1 |
| o-Xylene | 95-47-6 | 0.0512 | 0.00200 | mg/kg | 07.29.2020 17:00 | | 1 |
| Total Xylenes | 1330-20-7 | 0.111 | 0.00200 | mg/kg | 07.29.2020 17:00 | | 1 |
| Total BTEX | | 0.132 | 0.00200 | mg/kg | 07.29.2020 17:00 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene | 540-36-3 | 94 | % | 70-130 | 07.29.2020 17:00 | |
| 4-Bromofluorobenzene | 460-00-4 | 111 | % | 70-130 | 07.29.2020 17:00 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: L3 @1' Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-006 Date Collected: 07.29.2020 07:18 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | <9.92 | 9.92 | mg/kg | 07.29.2020 14:16 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 15:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:58 | U | 1 |
| Diesel Range Organics | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.29.2020 16:58 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:58 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.29.2020 16:58 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 101 | % | 70-135 | 07.29.2020 16:58 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 07.29.2020 16:58 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM

Azores Fed 2

Sample Id: L3 @1' Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-006 Date Collected: 07.29.2020 07:18 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 15:07 Basis: Wet Weight
 Seq Number: 3132984

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 17:21 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 17:21 | U | 1 |
| Ethylbenzene | 100-41-4 | 0.0152 | 0.00200 | mg/kg | 07.29.2020 17:21 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0104 | 0.00400 | mg/kg | 07.29.2020 17:21 | | 1 |
| o-Xylene | 95-47-6 | 0.0950 | 0.00200 | mg/kg | 07.29.2020 17:21 | | 1 |
| Total Xylenes | 1330-20-7 | 0.105 | 0.00200 | mg/kg | 07.29.2020 17:21 | | 1 |
| Total BTEX | | 0.121 | 0.00200 | mg/kg | 07.29.2020 17:21 | | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 110 | % | 70-130 | 07.29.2020 17:21 | | |
| 1,4-Difluorobenzene | 540-36-3 | 96 | % | 70-130 | 07.29.2020 17:21 | | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: **L4 @6"** Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-007 Date Collected: 07.29.2020 07:22 Sample Depth: 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 113 | 9.96 | mg/kg | 07.29.2020 14:23 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 15:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 17:20 | U | 1 |
| Diesel Range Organics | C10C28DRO | 348 | 50.0 | mg/kg | 07.29.2020 17:20 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.29.2020 17:20 | U | 1 |
| Total TPH | PHC635 | 348 | 50.0 | mg/kg | 07.29.2020 17:20 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 107 | % | 70-135 | 07.29.2020 17:20 | |
| o-Terphenyl | 84-15-1 | 106 | % | 70-135 | 07.29.2020 17:20 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

| | | |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: L4 @6" | Matrix: Soil | Date Received: 07.29.2020 11:15 |
| Lab Sample Id: 668503-007 | Date Collected: 07.29.2020 07:22 | Sample Depth: 6 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5035A |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 07.29.2020 15:07 | Basis: Wet Weight |
| Seq Number: 3132984 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------|---------------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00990 | 0.00990 | mg/kg | 07.29.2020 17:41 | U | 1 |
| Toluene | 108-88-3 | <0.00990 | 0.00990 | mg/kg | 07.29.2020 17:41 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00990 | 0.00990 | mg/kg | 07.29.2020 17:41 | U | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0210 | 0.0198 | mg/kg | 07.29.2020 17:41 | | 1 |
| o-Xylene | 95-47-6 | 0.0165 | 0.00990 | mg/kg | 07.29.2020 17:41 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0375 | 0.00990 | mg/kg | 07.29.2020 17:41 | | 1 |
| Total BTEX | | 0.0375 | 0.00990 | mg/kg | 07.29.2020 17:41 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 07.29.2020 17:41 | |
| 4-Bromofluorobenzene | 460-00-4 | 98 | % | 70-130 | 07.29.2020 17:41 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

Sample Id: **L4 @1'** Matrix: Soil Date Received: 07.29.2020 11:15
 Lab Sample Id: 668503-008 Date Collected: 07.29.2020 07:24 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.29.2020 12:30 Basis: Wet Weight
 Seq Number: 3132962

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | 45.7 | 10.0 | mg/kg | 07.29.2020 14:30 | | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.29.2020 13:00 Basis: Wet Weight
 Seq Number: 3132966

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.29.2020 13:35 | U | 1 |
| Diesel Range Organics | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.29.2020 13:35 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.29.2020 13:35 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.29.2020 13:35 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-135 | 07.29.2020 13:35 | |
| o-Terphenyl | 84-15-1 | 102 | % | 70-135 | 07.29.2020 13:35 | |



Certificate of Analytical Results 668503

COG Operating LLC, Artesia, NM Azores Fed 2

| | | |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: L4 @1' | Matrix: Soil | Date Received: 07.29.2020 11:15 |
| Lab Sample Id: 668503-008 | Date Collected: 07.29.2020 07:24 | Sample Depth: 1 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5035A |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 07.29.2020 15:07 | Basis: Wet Weight |
| Seq Number: 3132984 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:18 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:18 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:18 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00400 | 0.00400 | mg/kg | 07.29.2020 15:18 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:18 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:18 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.29.2020 15:18 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 101 | % | 70-130 | 07.29.2020 15:18 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 07.29.2020 15:18 | |



COG Operating LLC

Azores Fed 2

Analytical Method: Chloride by EPA 300

Seq Number: 3132962

MB Sample Id: 7708307-1-BLK

Matrix: Solid

LCS Sample Id: 7708307-1-BKS

Prep Method: E300P

Date Prep: 07.29.2020

LCSD Sample Id: 7708307-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride | <10.0 | 250 | 269 | 108 | 265 | 106 | 90-110 | 1 | 20 | mg/kg | 07.29.2020 12:49 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3132962

Parent Sample Id: 668503-001

Matrix: Soil

MS Sample Id: 668503-001 S

Prep Method: E300P

Date Prep: 07.29.2020

MSD Sample Id: 668503-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride | 24.6 | 199 | 231 | 104 | 232 | 104 | 90-110 | 0 | 20 | mg/kg | 07.29.2020 13:20 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3132962

Parent Sample Id: 668533-001

Matrix: Soil

MS Sample Id: 668533-001 S

Prep Method: E300P

Date Prep: 07.29.2020

MSD Sample Id: 668533-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride | 47.1 | 200 | 245 | 99 | 243 | 99 | 90-110 | 1 | 20 | mg/kg | 07.29.2020 16:03 | |

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132966

MB Sample Id: 7708317-1-BLK

Matrix: Solid

LCS Sample Id: 7708317-1-BKS

Prep Method: SW8015P

Date Prep: 07.29.2020

LCSD Sample Id: 7708317-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons | <50.0 | 1000 | 1070 | 107 | 1090 | 109 | 70-135 | 2 | 35 | mg/kg | 07.29.2020 12:55 | |
| Diesel Range Organics | <50.0 | 1000 | 1120 | 112 | 1130 | 113 | 70-135 | 1 | 35 | mg/kg | 07.29.2020 12:55 | |

Surrogate

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 101 | | 128 | | 131 | | 70-135 | % | 07.29.2020 12:55 |
| o-Terphenyl | 100 | | 114 | | 114 | | 70-135 | % | 07.29.2020 12:55 |

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132966

Matrix: Solid

MB Sample Id: 7708317-1-BLK

Prep Method: SW8015P

Date Prep: 07.29.2020

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.29.2020 12:35 | |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



COG Operating LLC
Azores Fed 2

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132966

Parent Sample Id: 668503-008

Matrix: Soil

MS Sample Id: 668503-008 S

Prep Method: SW8015P

Date Prep: 07.29.2020

MSD Sample Id: 668503-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons | <50.2 | 1000 | 1030 | 103 | 1030 | 103 | 70-135 | 0 | 35 | mg/kg | 07.29.2020 13:56 | |
| Diesel Range Organics | <50.2 | 1000 | 1070 | 107 | 1070 | 107 | 70-135 | 0 | 35 | mg/kg | 07.29.2020 13:56 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 124 | | 123 | | 70-135 | % | 07.29.2020 13:56 |
| o-Terphenyl | 109 | | 108 | | 70-135 | % | 07.29.2020 13:56 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132984

MB Sample Id: 7708310-1-BLK

Matrix: Solid

LCS Sample Id: 7708310-1-BKS

Prep Method: SW5035A

Date Prep: 07.29.2020

LCSD Sample Id: 7708310-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene | <0.00200 | 0.100 | 0.104 | 104 | 0.101 | 101 | 70-130 | 3 | 35 | mg/kg | 07.29.2020 13:21 | |
| Toluene | <0.00200 | 0.100 | 0.0978 | 98 | 0.0944 | 94 | 70-130 | 4 | 35 | mg/kg | 07.29.2020 13:21 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.103 | 103 | 0.0993 | 99 | 71-129 | 4 | 35 | mg/kg | 07.29.2020 13:21 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.210 | 105 | 0.205 | 103 | 70-135 | 2 | 35 | mg/kg | 07.29.2020 13:21 | |
| o-Xylene | <0.00200 | 0.100 | 0.105 | 105 | 0.102 | 102 | 71-133 | 3 | 35 | mg/kg | 07.29.2020 13:21 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene | 101 | | 98 | | 99 | | 70-130 | % | 07.29.2020 13:21 |
| 4-Bromofluorobenzene | 102 | | 97 | | 95 | | 70-130 | % | 07.29.2020 13:21 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132984

Parent Sample Id: 668503-008

Matrix: Soil

MS Sample Id: 668503-008 S

Prep Method: SW5035A

Date Prep: 07.29.2020

MSD Sample Id: 668503-008 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene | <0.00199 | 0.0996 | 0.116 | 116 | 0.115 | 115 | 70-130 | 1 | 35 | mg/kg | 07.29.2020 14:02 | |
| Toluene | <0.00199 | 0.0996 | 0.108 | 108 | 0.110 | 110 | 70-130 | 2 | 35 | mg/kg | 07.29.2020 14:02 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.114 | 114 | 0.112 | 112 | 71-129 | 2 | 35 | mg/kg | 07.29.2020 14:02 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.230 | 116 | 0.228 | 114 | 70-135 | 1 | 35 | mg/kg | 07.29.2020 14:02 | |
| o-Xylene | <0.00199 | 0.0996 | 0.112 | 112 | 0.114 | 114 | 71-133 | 2 | 35 | mg/kg | 07.29.2020 14:02 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene | 94 | | 96 | | 70-130 | % | 07.29.2020 14:02 |
| 4-Bromofluorobenzene | 91 | | 89 | | 70-130 | % | 07.29.2020 14:02 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



One Concho
Center/6000 Illinois
Avenue/Midland, Texas
Tel (432) 683-7443

1008503

Client Name: COG-Artesia Site Manager:
 Project Name: Azores Fed 2
 Project Location: (county, state) Lea County, NM Project #:
 Invoice to: Jacqui Harris
 Receiving Laboratory: Sampler Name: Jacqui Harris
 Comments:

| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | SAMPLING | | MATRIX | | PRESERVATIVE METHOD | | # CONTAINERS (C)omposite/(G)rab | ANALYSIS REQUEST (Circle or Specify Method No.) |
|-------------------------|-----------------------|----------|---------|--------|-------|---------------------|-----|------------------------------------|--|
| | | YEAR | DATE | TIME | WATER | SOIL | HCL | | |
| L1 @ 1' | | | 7.29.20 | 7:00 | X | | X | | TPH 8015M (GRO - DRO - MRO) |
| L1 @ 1.5' | | | 7.29.20 | 7:03 | X | | X | | BTEX 8021B |
| L2 @ 2' | | | 7.29.20 | 7:07 | X | | X | | Chloride |
| L2 @ 2.5' | | | 7.29.20 | 7:10 | X | | X | | |
| L3 @ 6" | | | 7.29.20 | 7:15 | X | | X | | |
| L3 @ 1' | | | 7.29.20 | 7:18 | X | | X | | |
| L4 @ 6" | | | 7.29.20 | 7:22 | X | | X | | |
| L4 @ 1' | | | 7.29.20 | 7:24 | X | | X | | |

Requested by: *[Signature]* Date: 7/29/20 Time: 11:15
 Received by: *[Signature]* Date: 7/29/20 Time: 11:15
 Requested by: *[Signature]* Date: 7/29/20 Time: 11:15
 Received by: *[Signature]* Date: 7/29/20 Time: 11:15

LAB USE ONLY

Sample Temperature: 20/1.8

REMARKS:

Rush: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC

Date/ Time Received: 07.29.2020 11.15.00 AM

Work Order #: 668503

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist | | Comments |
|---|-----|--------------------------------------|
| #1 *Temperature of cooler(s)? | 1.8 | |
| #2 *Shipping container in good condition? | Yes | |
| #3 *Samples received on ice? | Yes | |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes | |
| #5 Custody Seals intact on sample bottles? | Yes | |
| #6*Custody Seals Signed and dated? | Yes | |
| #7 *Chain of Custody present? | Yes | |
| #8 Any missing/extra samples? | No | |
| #9 Chain of Custody signed when relinquished/ received? | Yes | |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes | |
| #11 Container label(s) legible and intact? | Yes | |
| #12 Samples in proper container/ bottle? | Yes | Samples received in bulk containers. |
| #13 Samples properly preserved? | Yes | |
| #14 Sample container(s) intact? | Yes | |
| #15 Sufficient sample amount for indicated test(s)? | Yes | |
| #16 All samples received within hold time? | Yes | |
| #17 Subcontract of sample(s)? | No | |
| #18 Water VOC samples have zero headspace? | N/A | |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 07.29.2020

Checklist reviewed by:



Jessica Kramer

Date: 07.29.2020



Certificate of Analysis Summary 668849

COG Operating LLC, Artesia, NM

Project Name: Azover Fed 2

Project Id:
Contact: Jacqui Harris
Project Location: Lea County

Date Received in Lab: Fri 07.31.2020 14:55
Report Date: 08.03.2020 12:17
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 668849-001 | 668849-002 | 668849-003 | | | |
|------------------------------------|-------------------|------------------|------------------|------------------|--|--|--|
| | <i>Field Id:</i> | L1 @2' | SW1 | SW2 | | | |
| | <i>Depth:</i> | 2- ft | | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | | | |
| | <i>Sampled:</i> | 07.31.2020 07:05 | 07.31.2020 07:09 | 07.31.2020 07:14 | | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | 07.31.2020 16:01 | 07.31.2020 16:01 | 07.31.2020 16:01 | | | |
| | <i>Analyzed:</i> | 07.31.2020 17:48 | 07.31.2020 18:08 | 07.31.2020 18:28 | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Benzene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | | | |
| Toluene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | | | |
| Ethylbenzene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | | | |
| m,p-Xylenes | | <0.00401 0.00401 | <0.00398 0.00398 | <0.00399 0.00399 | | | |
| o-Xylene | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | | | |
| Total Xylenes | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | | | |
| Total BTEX | | <0.00200 0.00200 | <0.00199 0.00199 | <0.00200 0.00200 | | | |
| Chloride by EPA 300 | <i>Extracted:</i> | 07.31.2020 15:50 | 07.31.2020 15:50 | 07.31.2020 15:50 | | | |
| | <i>Analyzed:</i> | 07.31.2020 15:54 | 07.31.2020 16:00 | 07.31.2020 16:06 | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Chloride | | <10.0 10.0 | <9.96 9.96 | <9.98 9.98 | | | |
| TPH By SW8015 Mod | <i>Extracted:</i> | 07.31.2020 16:00 | 07.31.2020 16:00 | 07.31.2020 16:00 | | | |
| | <i>Analyzed:</i> | 07.31.2020 16:21 | 07.31.2020 16:41 | 07.31.2020 17:01 | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | mg/kg RL | | | |
| Gasoline Range Hydrocarbons | | <50.0 50.0 | <50.0 50.0 | <49.9 49.9 | | | |
| Diesel Range Organics | | <50.0 50.0 | <50.0 50.0 | <49.9 49.9 | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.0 50.0 | <50.0 50.0 | <49.9 49.9 | | | |
| Total TPH | | <50.0 50.0 | <50.0 50.0 | <49.9 49.9 | | | |

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Analytical Report 668849

for

COG Operating LLC

Project Manager: Jacqui Harris

Azover Fed 2

08.03.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.03.2020

Project Manager: **Jacqui Harris**
COG Operating LLC
2407 Pecos Avenue
Artesia, NM 88210

Reference: Eurofins Xenco, LLC Report No(s): **668849**
Azover Fed 2
Project Address: Lea County

Jacqui Harris:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 668849. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 668849 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 668849

COG Operating LLC, Artesia, NM

Azover Fed 2

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|------------------|--------------|---------------|
| L1 @2' | S | 07.31.2020 07:05 | 2 ft | 668849-001 |
| SW1 | S | 07.31.2020 07:09 | ft | 668849-002 |
| SW2 | S | 07.31.2020 07:14 | ft | 668849-003 |



CASE NARRATIVE

Client Name: COG Operating LLC

Project Name: Azover Fed 2

Project ID:
Work Order Number(s): 668849

Report Date: 08.03.2020
Date Received: 07.31.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 668849

COG Operating LLC, Artesia, NM Azover Fed 2

Sample Id: **L1 @2'** Matrix: Soil Date Received: 07.31.2020 14:55
 Lab Sample Id: 668849-001 Date Collected: 07.31.2020 07:05 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.31.2020 15:50 Basis: Wet Weight
 Seq Number: 3133310

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | <10.0 | 10.0 | mg/kg | 07.31.2020 15:54 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.31.2020 16:00 Basis: Wet Weight
 Seq Number: 3133298

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.31.2020 16:21 | U | 1 |
| Diesel Range Organics | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.31.2020 16:21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.31.2020 16:21 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.31.2020 16:21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-135 | 07.31.2020 16:21 | |
| o-Terphenyl | 84-15-1 | 80 | % | 70-135 | 07.31.2020 16:21 | |



Certificate of Analytical Results 668849

COG Operating LLC, Artesia, NM Azover Fed 2

| | | |
|--------------------------------------|----------------------------------|---------------------------------|
| Sample Id: L1 @2' | Matrix: Soil | Date Received: 07.31.2020 14:55 |
| Lab Sample Id: 668849-001 | Date Collected: 07.31.2020 07:05 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5035A |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 07.31.2020 16:01 | Basis: Wet Weight |
| Seq Number: 3133315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 17:48 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 17:48 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 17:48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 07.31.2020 17:48 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 17:48 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 17:48 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.31.2020 17:48 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 97 | % | 70-130 | 07.31.2020 17:48 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 07.31.2020 17:48 | |



Certificate of Analytical Results 668849

COG Operating LLC, Artesia, NM Azover Fed 2

Sample Id: **SW1** Matrix: Soil Date Received: 07.31.2020 14:55
 Lab Sample Id: 668849-002 Date Collected: 07.31.2020 07:09
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.31.2020 15:50 Basis: Wet Weight
 Seq Number: 3133310

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | <9.96 | 9.96 | mg/kg | 07.31.2020 16:00 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.31.2020 16:00 Basis: Wet Weight
 Seq Number: 3133298

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <50.0 | 50.0 | mg/kg | 07.31.2020 16:41 | U | 1 |
| Diesel Range Organics | C10C28DRO | <50.0 | 50.0 | mg/kg | 07.31.2020 16:41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 07.31.2020 16:41 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 07.31.2020 16:41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 83 | % | 70-135 | 07.31.2020 16:41 | |
| o-Terphenyl | 84-15-1 | 78 | % | 70-135 | 07.31.2020 16:41 | |



Certificate of Analytical Results 668849

COG Operating LLC, Artesia, NM Azover Fed 2

Sample Id: **SW1** Matrix: Soil Date Received: 07.31.2020 14:55
 Lab Sample Id: 668849-002 Date Collected: 07.31.2020 07:09
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.31.2020 16:01 Basis: Wet Weight
 Seq Number: 3133315

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 07.31.2020 18:08 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 07.31.2020 18:08 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 07.31.2020 18:08 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 07.31.2020 18:08 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 07.31.2020 18:08 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 07.31.2020 18:08 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 07.31.2020 18:08 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 100 | % | 70-130 | 07.31.2020 18:08 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | % | 70-130 | 07.31.2020 18:08 | |



Certificate of Analytical Results 668849

COG Operating LLC, Artesia, NM Azover Fed 2

Sample Id: **SW2** Matrix: Soil Date Received: 07.31.2020 14:55
 Lab Sample Id: 668849-003 Date Collected: 07.31.2020 07:14
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.31.2020 15:50 Basis: Wet Weight
 Seq Number: 3133310

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|------------------|------|-----|
| Chloride | 16887-00-6 | <9.98 | 9.98 | mg/kg | 07.31.2020 16:06 | U | 1 |

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.31.2020 16:00 Basis: Wet Weight
 Seq Number: 3133298

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|------------------|------|-----|
| Gasoline Range Hydrocarbons | PHC610 | <49.9 | 49.9 | mg/kg | 07.31.2020 17:01 | U | 1 |
| Diesel Range Organics | C10C28DRO | <49.9 | 49.9 | mg/kg | 07.31.2020 17:01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 07.31.2020 17:01 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 07.31.2020 17:01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|------------------|------|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-135 | 07.31.2020 17:01 | |
| o-Terphenyl | 84-15-1 | 79 | % | 70-135 | 07.31.2020 17:01 | |



Certificate of Analytical Results 668849

COG Operating LLC, Artesia, NM Azover Fed 2

Sample Id: **SW2** Matrix: Soil Date Received: 07.31.2020 14:55
 Lab Sample Id: 668849-003 Date Collected: 07.31.2020 07:14
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.31.2020 16:01 Basis: Wet Weight
 Seq Number: 3133315

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|---------------|-------------|----------|---------|-------|------------------|------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 18:28 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 18:28 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 18:28 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 07.31.2020 18:28 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 18:28 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 07.31.2020 18:28 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 07.31.2020 18:28 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------------|------------|------------|-------|--------|------------------|------|
| 4-Bromofluorobenzene | 460-00-4 | 97 | % | 70-130 | 07.31.2020 18:28 | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 07.31.2020 18:28 | |



COG Operating LLC

Azover Fed 2

Analytical Method: Chloride by EPA 300

Seq Number: 3133310

MB Sample Id: 7708527-1-BLK

Matrix: Solid

LCS Sample Id: 7708527-1-BKS

Prep Method: E300P

Date Prep: 07.31.2020

LCSD Sample Id: 7708527-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Chloride | <10.0 | 250 | 270 | 108 | 267 | 107 | 90-110 | 1 | 20 | mg/kg | 07.31.2020 14:18 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3133310

Parent Sample Id: 668753-001

Matrix: Soil

MS Sample Id: 668753-001 S

Prep Method: E300P

Date Prep: 07.31.2020

MSD Sample Id: 668753-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride | 262 | 202 | 479 | 107 | 479 | 107 | 90-110 | 0 | 20 | mg/kg | 07.31.2020 14:39 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3133310

Parent Sample Id: 668849-003

Matrix: Soil

MS Sample Id: 668849-003 S

Prep Method: E300P

Date Prep: 07.31.2020

MSD Sample Id: 668849-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Chloride | <10.0 | 200 | 209 | 105 | 209 | 105 | 90-110 | 0 | 20 | mg/kg | 07.31.2020 16:11 | |

Analytical Method: TPH By SW8015 Mod

Seq Number: 3133298

MB Sample Id: 7708503-1-BLK

Matrix: Solid

LCS Sample Id: 7708503-1-BKS

Prep Method: SW8015P

Date Prep: 07.31.2020

LCSD Sample Id: 7708503-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons | <50.0 | 1000 | 959 | 96 | 933 | 93 | 70-135 | 3 | 35 | mg/kg | 07.31.2020 11:35 | |
| Diesel Range Organics | <50.0 | 1000 | 981 | 98 | 951 | 95 | 70-135 | 3 | 35 | mg/kg | 07.31.2020 11:35 | |

Surrogate

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1-Chlorooctane | 82 | | 97 | | 94 | | 70-135 | % | 07.31.2020 11:35 |
| o-Terphenyl | 79 | | 83 | | 81 | | 70-135 | % | 07.31.2020 11:35 |

Analytical Method: TPH By SW8015 Mod

Seq Number: 3133298

MB Sample Id: 7708503-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 07.31.2020

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|------------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 07.31.2020 11:15 | |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



COG Operating LLC
Azover Fed 2

Analytical Method: TPH By SW8015 Mod

Seq Number: 3133298

Parent Sample Id: 668753-003

Matrix: Soil

MS Sample Id: 668753-003 S

Prep Method: SW8015P

Date Prep: 07.31.2020

MSD Sample Id: 668753-003 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Gasoline Range Hydrocarbons | <50.1 | 1000 | 939 | 94 | 978 | 98 | 70-135 | 4 | 35 | mg/kg | 07.31.2020 13:39 | |
| Diesel Range Organics | <50.1 | 1000 | 958 | 96 | 1000 | 100 | 70-135 | 4 | 35 | mg/kg | 07.31.2020 13:39 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|------------------|
| 1-Chlorooctane | 108 | | 100 | | 70-135 | % | 07.31.2020 13:39 |
| o-Terphenyl | 82 | | 84 | | 70-135 | % | 07.31.2020 13:39 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133315

MB Sample Id: 7708529-1-BLK

Matrix: Solid

LCS Sample Id: 7708529-1-BKS

Prep Method: SW5035A

Date Prep: 07.31.2020

LCSD Sample Id: 7708529-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|------------------|------|
| Benzene | <0.00200 | 0.100 | 0.0997 | 100 | 0.0954 | 95 | 70-130 | 4 | 35 | mg/kg | 07.31.2020 13:34 | |
| Toluene | <0.00200 | 0.100 | 0.0945 | 95 | 0.0905 | 91 | 70-130 | 4 | 35 | mg/kg | 07.31.2020 13:34 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0992 | 99 | 0.0953 | 95 | 71-129 | 4 | 35 | mg/kg | 07.31.2020 13:34 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.204 | 102 | 0.194 | 97 | 70-135 | 5 | 35 | mg/kg | 07.31.2020 13:34 | |
| o-Xylene | <0.00200 | 0.100 | 0.101 | 101 | 0.0972 | 97 | 71-133 | 4 | 35 | mg/kg | 07.31.2020 13:34 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|------------------|
| 1,4-Difluorobenzene | 99 | | 97 | | 95 | | 70-130 | % | 07.31.2020 13:34 |
| 4-Bromofluorobenzene | 104 | | 100 | | 92 | | 70-130 | % | 07.31.2020 13:34 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133315

Parent Sample Id: 668753-004

Matrix: Soil

MS Sample Id: 668753-004 S

Prep Method: SW5035A

Date Prep: 07.31.2020

MSD Sample Id: 668753-004 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|------------------|------|
| Benzene | <0.00199 | 0.0996 | 0.108 | 108 | 0.0972 | 97 | 70-130 | 11 | 35 | mg/kg | 07.31.2020 14:14 | |
| Toluene | <0.00199 | 0.0996 | 0.104 | 104 | 0.0915 | 92 | 70-130 | 13 | 35 | mg/kg | 07.31.2020 14:14 | |
| Ethylbenzene | <0.00199 | 0.0996 | 0.107 | 107 | 0.0933 | 93 | 71-129 | 14 | 35 | mg/kg | 07.31.2020 14:14 | |
| m,p-Xylenes | <0.00398 | 0.199 | 0.217 | 109 | 0.188 | 94 | 70-135 | 14 | 35 | mg/kg | 07.31.2020 14:14 | |
| o-Xylene | <0.00199 | 0.0996 | 0.108 | 108 | 0.0939 | 94 | 71-133 | 14 | 35 | mg/kg | 07.31.2020 14:14 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|------------------|
| 1,4-Difluorobenzene | 100 | | 98 | | 70-130 | % | 07.31.2020 14:14 |
| 4-Bromofluorobenzene | 98 | | 89 | | 70-130 | % | 07.31.2020 14:14 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

Chain of Custody

Work Order No: Lo 88849

| | | | |
|------------------|---------------|-------------------------|-----------------|
| Project Manager: | Jaquie Harris | Bill to: (if different) | COG - Arteria |
| Company Name: | COG | Company Name: | |
| Address: | | Address: | |
| City, State ZIP: | | City, State ZIP: | Carrollwood, MN |
| Phone: | 505-496-0185 | Email: | |

| | | | |
|-------------------|--------------|-------------|--------------------------|
| Project Name: | Arroyo Fed 2 | Turn Around | |
| Project Number: | | Routine | <input type="checkbox"/> |
| Project Location: | Lea, County | Rush: | X 24hr |
| Sampler's Name: | | Due Date: | |
| PO #: | | Quote #: | |

| | | | | | |
|-----------------------|---|--------------------|---|----------|--|
| SAMPLE RECEIPT | | Temp Blank: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Wet Ice: | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| Temperature (°C): | 12.0 / 11.8 | Thermometer ID: | | | |
| Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | | | |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | Total Containers: | 3 | | |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | | | | |

| Lab ID | Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | ANALYSIS REQUEST | Preservative Codes |
|---------|-----------------------|--------|--------------|--------------|-------|----------------------|------------------|--------------------|
| L1 @ 3' | | soil | 7:31:26 | 7:05 | | 1 | Chloride | |
| Sw1 | | soil | | 7:09 | | 1 | TPH | |
| Sw2 | | soil | | 7:14 | | 1 | BTEX | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

| | | | | | |
|------------------------------|--------------------------|--------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>Paul M...</i> | <i>[Signature]</i> | 7/31/20 1455 | | | |

Revised Date 02/28/19 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC

Date/ Time Received: 07.31.2020 02.55.00 PM

Work Order #: 668849

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | 11.8 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes |
| #5 Custody Seals intact on sample bottles? | Yes |
| #6*Custody Seals Signed and dated? | Yes |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | No |
| #18 Water VOC samples have zero headspace? | N/A |

Samples received in bulk containers.
Additional cooling process began in lab after receipt and precooling of samples.

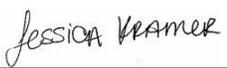
* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: 
Elizabeth McClellan

Date: 07.31.2020

Checklist reviewed by: 
Jessica Kramer

Date: 07.31.2020

| | |
|----------------|---------------|
| Incident ID | NRM2012235693 |
| District RP | |
| Facility ID | |
| Application ID | |

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____
 Signature: *Jacqui Harris* Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: Robert Hamlet Date: 3/1/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Robert Hamlet* Date: 3/1/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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

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

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

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

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

CONDITIONS

Action 10220

CONDITIONS OF APPROVAL

| | | | | | | | | | |
|-----------|-------------------|--------------------|------------------|--------|--------|----------------|-------|--------------|-------|
| Operator: | COG OPERATING LLC | 600 W Illinois Ave | Midland, TX79701 | OGRID: | 229137 | Action Number: | 10220 | Action Type: | C-141 |
|-----------|-------------------|--------------------|------------------|--------|--------|----------------|-------|--------------|-------|

| | |
|--------------|--|
| OCD Reviewer | Condition |
| rhamlet | We have received your closure report and final C-141 for Incident #NRM2012235693 AZORES FEDERAL 002H, thank you. This closure is approved. |