August 15, 2022

District II
New Mexico Oil Conservation Division
811 S. First Street
Artesia, New Mexico 88210

**Re: Remediation Work Plan**
**Federal FC Com #2H Tank Battery**
**Incident Number NAPP2213935679**
**Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of EOG Resources, Inc. (EOG), has prepared this Remediation Work Plan to document site assessment activities performed to date and propose a work plan to address the impacted soil identified at the Federal FC Com #2H Tank Battery (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address unknown historical impacts to soil at the Site, which were discovered during the decommissioning process.

## SITE DESCRIPTION AND RELEASE SUMMARY

The Site (Figure 1) is located in Unit M, Section 24, Township 20 South, Range 24 East, in Eddy County, New Mexico (32.5538864° N, 104.5482407°W) and is associated with oil and gas exploration and production operations on land under the stewardship of the Bureau of Land Management (BLM).

On May 18, 2022, historical impacts were discovered during decommissioning of aboveground storage tanks at the Site. An unknown quantity of crude oil and produced water appears to have been released to the facility well pad based on observations of soil staining and preliminary sampling results. EOG reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on May 19, 2022. The release was assigned Incident Number NAPP2213935679.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 323341104330401, located approximately 0.49 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 236 feet bgs and a total depth of 272 feet bgs. Ground surface elevation at the groundwater well location is 3,621 feet above mean sea level (amsl), which is approximately 19 feet lower in elevation than the Site. All wells used for

depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 575 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On May 16, 2022, Ensolum personnel completed a Site visit to evaluate the historical release extent, which was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

Delineation activities were conducted to assess the vertical extent of impacted soil. Boreholes BH01 through BH03 were advanced via hand auger within the historical release extent on pad. The delineation boreholes were advanced to a maximum depth of 1 foot bgs before encountering auger refusal. Discrete delineation soil samples were collected from each borehole at depths of 0.5 feet bgs and from 1 foot bgs in BH01 and BH03. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the borehole were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Field screening and laboratory analytical results from the borehole samples indicated excavation of impacted soil was warranted. Ensolum personnel oversaw the preliminary excavation of impacted soil beginning May 31, 2022; however, field screening results from composite excavation confirmation samples, suggested additional excavation was necessary. As such, on June 22, 2022 and July 19, 2022, Ensolum personnel conducted supplemental delineation activities to determine the vertical extent of impacted soil. Potholes PH01 and PH02 were advanced via track-mounted backhoe within the historical release extent to a maximum depth of 20 feet bgs. Discrete soil samples were collected from each pothole at depths ranging from 7 feet bgs to 20 feet bgs based on field screening results with the goal

of identifying the terminal extent of impacted soil. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Field screening results and lithologic observations are included in Appendix C. The delineation soil samples were handled and analyzed as described above. The delineation soil sample locations are depicted on Figure 2.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated chloride was not detected at concentrations exceeding 600 mg/kg. No benzene was detected in any soil sample and BTEX was only detected in the sample from PH02 collected at 18 feet bgs at a minimal concentration of 0.870 mg/kg. Soil samples collected from near surface and 1-foot bgs in BH01 did not contain detectable concentrations of TPH or chloride. Concentrations of TPH exceeding 100 mg/kg were identified in soil samples collected from near ground surface in BH02 and BH03. Subsurface samples collected from potholes indicated the elevated TPH concentrations in soil extended 14 feet bgs in PH01 and 18 feet bgs in PH02. Delineation potholes PH01 and PH02 each contained terminal samples in compliance with the Closure Criteria providing vertical delineation of the hydrocarbon impacts. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

## PROPOSED REMEDIATION WORK PLAN

Ensolum, on behalf of EOG, proposes to continue excavating TPH-impacted soil to below the established Site Closure Criteria of 100 mg/kg. Based on the delineation soil sample analytical results and the area of the release extent, an estimated 4,000 cubic yards of impacted soil will be excavated from the well pad and transported for disposal at a permitted landfarm. Depth of the excavation is expected to range from 14 feet to 18 feet bgs. Once field screening results indicate impacted soil has been removed, confirmation samples will be collected at least every 200 square feet from the floor and sidewalls of the excavation. The samples will be analyzed for TPH only since delineation soil sample results excluded chloride, benzene, and BTEX as contaminants of concern. Once sampling results document concentrations of TPH less than 100 mg/kg, a closure report will be submitted to NMOCD requesting site closure. The excavation will be backfilled with locally procured material and recontoured to match Site conditions.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
**Ensolum, LLC**

Tacoma Morrissey
Senior Geologist

Ashley Ager
Program Director, M.S., P.G.

cc: Chase Settle, EOG
Amber Griffin, EOG
Bureau of Land Management

Appendices:

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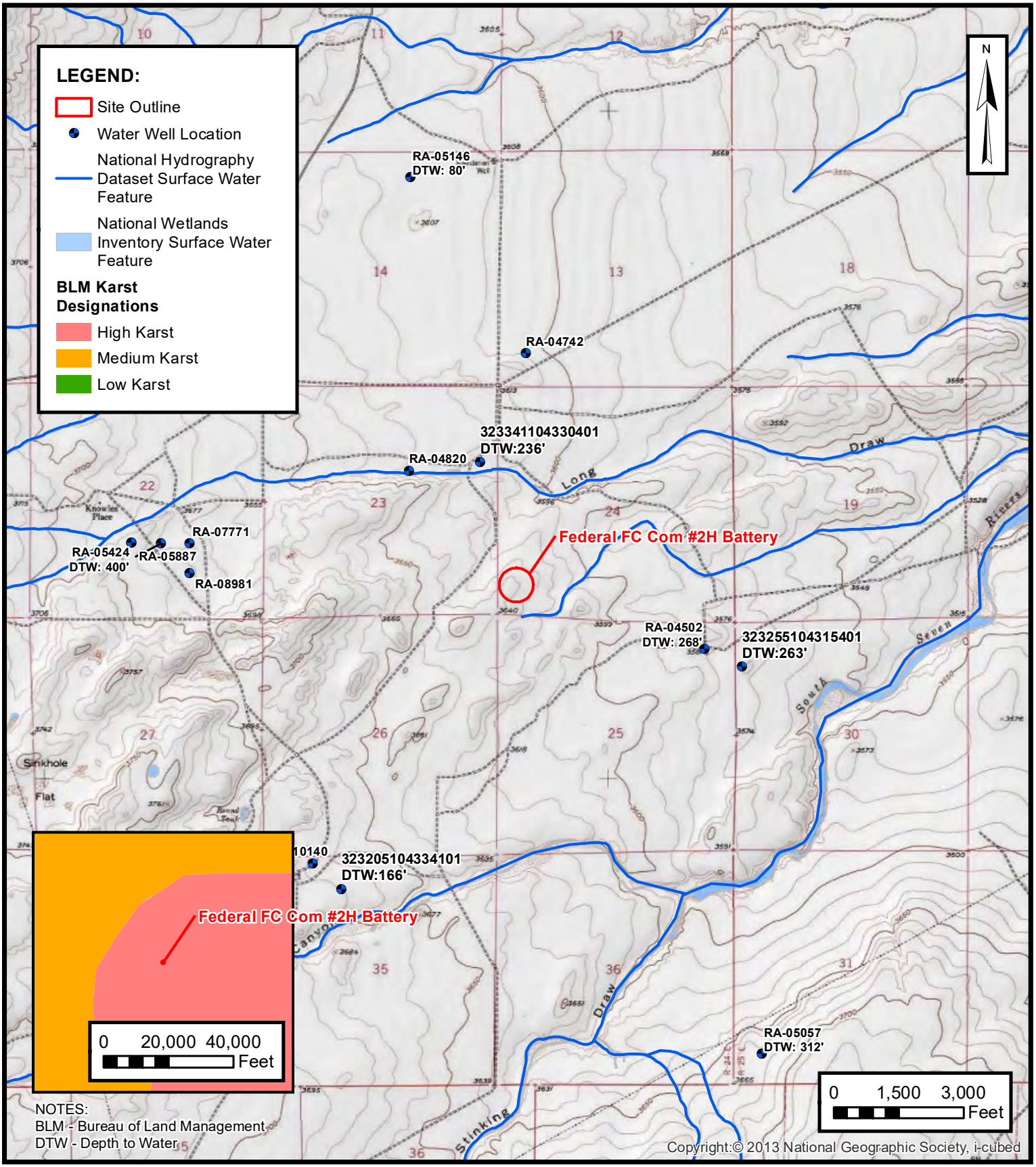
# FIGURES

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**SITE RECEPTOR MAP**

EOG RESOURCES, INC.
FEDERAL FC COM #2H BATTERY
NAPP2213935679
Unit M, Sec 24 T20S R24E
Eddy County, New Mexico

**FIGURE**
**1**


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**DELINEATION SOIL SAMPLE LOCATIONS**

EOG RESOURCES, INC.
FEDERAL FC COM #2H BATTERY
NAPP2213935679
Unit M, Sec 24 T20S R24E
Eddy County, New Mexico

**FIGURE**

**2**

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# TABLES

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**TABLE 1**
**SOIL SAMPLE ANALYTICAL RESULTS**
**Federal FC Com #2H Battery**
**EOG Resources, Inc.**
**Eddy County, New Mexico**

| Sample I.D. | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | NE | 100 | 600 |
| **Delineation Soil Samples** | | | | | | | | | | |
| BH01 | 05/16/2022 | 0.5 | <0.0240 | <0.100 | <4.80 | <9.70 | <48.0 | <9.70 | <48.0 | <60.0 |
| BH01A | 05/16/2022 | 1 | <0.0250 | <0.100 | <5.00 | <9.60 | <48.0 | <9.60 | <48.0 | <60.0 |
| BH02 | 05/16/2022 | 0.5 | <0.120 | <0.500 | <25.0 | 8,300 | 9,700 | 8,300 | **18,000** | 190 |
| BH03 | 05/16/2022 | 0.5 | <0.0240 | <0.100 | <4.80 | 1,700 | 2,300 | 1,700 | **4,000** | <60.0 |
| BH03A | 05/16/2022 | 1 | <0.0250 | <0.100 | <5.00 | 480 | 1,100 | 480 | **1,600** | <60.0 |
| PH01 | 06/22/2022 | 7 | <0.120 | <0.490 | 31.0 | 3,000 | 1,400 | 3,100 | **4,500** | <60.0 |
| PH01A | 06/22/2022 | 10 | <0.120 | <0.470 | <24.0 | 2,500 | 1,100 | 2,500 | **3,600** | <60.0 |
| PH01B | 06/22/2022 | 14 | <0.0240 | <0.0900 | <4.70 | 66.0 | 50.0 | 66.0 | **120** | <60.0 |
| PH01C | 06/22/2022 | 16 | <0.0240 | <0.0900 | <4.70 | <15.0 | <49.0 | <15.0 | <49.0 | <60.0 |
| PH02 | 07/19/2022 | 18 | <0.120 | 0.870 | <24.0 | 1,400 | 750 | 1,400 | **2,200** | <60.0 |
| PH02A | 07/19/2022 | 20 | <0.0230 | <0.0900 | <4.60 | 40.0 | <48.0 | 40.0 | 40.0 | <60.0 |

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
~~Text~~ indicates soil was excavated

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# APPENDIX A

## Referenced Well Records

# National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

## Search Results -- 1 sites found

**site_no list =**

- 323341104330401

**Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

---

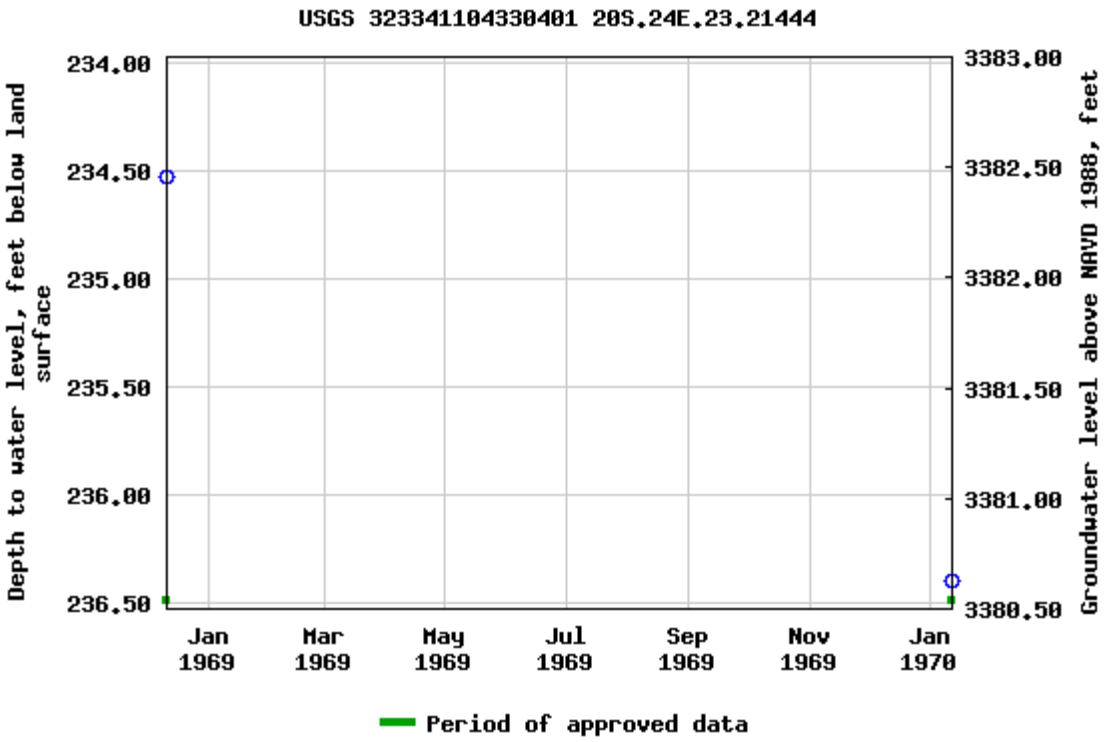
## USGS 323341104330401 20S.24E.23.21444

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°33'41", Longitude 104°33'04" NAD27
Land-surface elevation 3,617 feet above NAVD88
The depth of the well is 272 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats**

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




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
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News



**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: 2022-05-16 11:00:33 EDT
0.58 0.51 nadww01

*New Mexico Office of the State Engineer*

# Point of Diversion Summary

| Well Tag | POD Number | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64 | Q16 | Q4 | Sec | Tws | Rng | (NAD83 UTM in meters) X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | RA 04820 | 3 | 2 | | 23 | 20S | 24E | 541596 | 3602701* |

**Driller License:** **Driller Company:**

**Driller Name:**

**Drill Start Date:** **Drill Finish Date:** **Plug Date:**

**Log File Date:** **PCW Rcv Date:** **Source:**

**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**

**Casing Size:** **Depth Well:** **Depth Water:**

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

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# APPENDIX B

## Photographic Log

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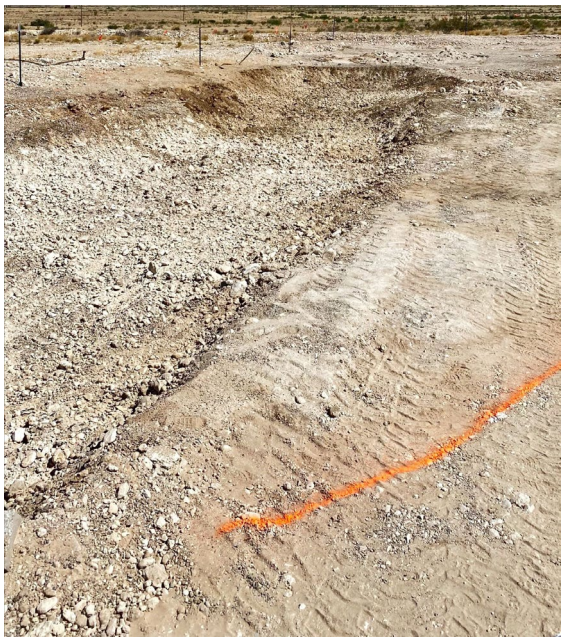
**Photographic Log**
EOG Resources, Inc.
Federal FC Com #2H Battery
Incident Number NAPP2213935679
Eddy County, New Mexico

Photograph 1 Date: 18-May-22
Description: View of staining following tank remoal, facing west.

Photograph 2 Date: 18-May-22
Description: View of staining observed following tank removal facing south.

Photograph 3 Date: 28-Apr-22
Description: View of containment showing all tanks removed, facing south.



Photograph 4 Date: 26-May-22
Description: Beginning of excavation facing north.

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# APPENDIX C

## Lithologic Soil Sampling Logs

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| | | |
|---|---|---|
| | Sample Name: BH01 | Date: 5/16/22 |
| | Site Name: Federal FC Com #2H | |
| | Incident Number: nAPP2213935679 | |
| | Job Number: 03C2000006 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Gilbert Moreno | Method: Hand Auger |
| Coordinates: 32.5538, -104.5482 | Hole Diameter: 4" | Total Depth: 1' |

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | <168 | 1.5 | N | BH01 | 0.5' | 0.5' | | SW with gravel, brown, fine-course |
| | <168 | 1.5 | N | BH01A | 1' | 1' | | CCHE, tan, silty, fine-course |

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| | | |
|---|---|---|
| | Sample Name: BH02 | Date: 5/16/22 |
| | Site Name: Federal FC Com #2H | |
| | Incident Number: nAPP2213935679 | |
| | Job Number: 03C2000006 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Gilbert Moreno | Method: Hand Auger |
| Coordinates: 32.5538, -104.5482 | Hole Diameter: 4" | Total Depth: 0.5' |

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | 201.6 | 43.7 | Y | BH02 | 0.5' | 0.5'<br>1' | | SW with gravel, L. brown, fine-course |

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| | | |
|---|---|---|
| | Sample Name: BH03 | Date: 5/16/22 |
| | Site Name: Federal FC Com #2H | |
| | Incident Number: nAPP2213935679 | |
| | Job Number: 03C2000006 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Gilbert Moreno | Method: Hand Auger |
| Coordinates: 32.5538, -104.5482 | Hole Diameter: 4" | Total Depth: 1' |

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | <168 | 0.7 | Y | BH03 | 0.5' | 0.5' | | SW with gravel, L. brown, fine-course |
| | <168 | 10.7 | Y | BH03A | 1' | 1' | | SW with gravel, L. brown, fine-course |

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| | | |
|---|---|---|
| | Sample Name: PH01 | Date: 6/22/22 |
| | Site Name: Federal FC Com #2H | |
| | Incident Number: nAPP2213935679 | |
| | Job Number: 03C2000006 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Kase Parker | Method: Excavator |
| Coordinates: 32.5538, -104.5482 | Hole Diameter: ~4' | Total Depth: 16' |

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | | | | | | 2' | | |
| | | | | | | 4' | | |
| | | | | | | 6' | | |
| | ND | 206 | Y | PH01 | 7' | | | Silty, well graded sand |
| | ND | 53 | N | | 8' | 8' | | Well graded sand |
| | ND | 204 | Y | | 9' | | | Well graded sand |
| | ND | 498 | Y | PH01A | 10' | 10' | | Well graded sand |
| | ND | 251 | Y | | 12' | 12' | | Well graded sand |
| | ND | 114 | Y | PH01B | 14' | 14' | | Well graded sand |
| | ND | 5.7 | Y | PH01C | 16' | 16' | | Silty, well graded sand |

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| | | |
|---|---|---|
| | Sample Name: PH02 | Date: 6/22/22 |
| | Site Name: Federal FC Com #2H | |
| | Incident Number: nAPP2213935679 | |
| | Job Number: 03C2000006 | |
| **LITHOLOGIC / SOIL SAMPLING LOG** | Logged By: Kase Parker | Method: Excavator |
| Coordinates: 32.5538, -104.5482 | Hole Diameter: ~4' | Total Depth: 22' |

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
|---|---|---|---|---|---|---|---|---|
| | ND | >5,000 | Y | | 16' | 16' | | Well graded sand |
| | ND | 2,436 | Y | PH02 | 18' | 18' | | Silty, brown, fine sand |
| | ND | 364 | N | PH02A | 20' | 20' | | Silty, brown, fine sand |
| | ND | 16.8 | N | | 22' | 22' | | Silty, brown, fine sand |

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# APPENDIX D

## Laboratory Analytical Reports & Chain of Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

May 27, 2022

Tacoma Morrissey
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Federal FC Com 2H Tank Battery OrderNo.: 2205808

Dear Tacoma Morrissey:

Hall Environmental Analysis Laboratory received 5 sample(s) on 5/18/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **2205808**
Date Reported: **5/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG **Client Sample ID:** BH01 0.5'
**Project:** Federal FC Com 2H Tank Battery **Collection Date:** 5/16/2022 9:30:00 AM
**Lab ID:** 2205808-001 **Matrix:** SOIL **Received Date:** 5/18/2022 8:27:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 5/20/2022 4:50:27 PM | 67596 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** | |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 5/23/2022 2:45:53 PM | 67548 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 5/23/2022 2:45:53 PM | 67548 |
| Surr: DNOP | 100 | 51.1-141 | | %Rec | 1 | 5/23/2022 2:45:53 PM | 67548 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/20/2022 3:21:00 AM | 67545 |
| Surr: BFB | 89.1 | 37.7-212 | | %Rec | 1 | 5/20/2022 3:21:00 AM | 67545 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/20/2022 3:21:00 AM | 67545 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/20/2022 3:21:00 AM | 67545 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/20/2022 3:21:00 AM | 67545 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 5/20/2022 3:21:00 AM | 67545 |
| Surr: 4-Bromofluorobenzene | 90.2 | 70-130 | | %Rec | 1 | 5/20/2022 3:21:00 AM | 67545 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

**Analytical Report**
Lab Order **2205808**
Date Reported: **5/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG **Client Sample ID:** BH01 1'
**Project:** Federal FC Com 2H Tank Battery **Collection Date:** 5/16/2022 9:35:00 AM
**Lab ID:** 2205808-002 **Matrix:** SOIL **Received Date:** 5/18/2022 8:27:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 5/23/2022 1:56:50 PM | 67621 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** | |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 5/23/2022 2:56:44 PM | 67548 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 5/23/2022 2:56:44 PM | 67548 |
| Surr: DNOP | 98.6 | 51.1-141 | | %Rec | 1 | 5/23/2022 2:56:44 PM | 67548 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 5/20/2022 3:41:00 AM | 67545 |
| Surr: BFB | 90.6 | 37.7-212 | | %Rec | 1 | 5/20/2022 3:41:00 AM | 67545 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 5/20/2022 3:41:00 AM | 67545 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 5/20/2022 3:41:00 AM | 67545 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 5/20/2022 3:41:00 AM | 67545 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 5/20/2022 3:41:00 AM | 67545 |
| Surr: 4-Bromofluorobenzene | 91.6 | 70-130 | | %Rec | 1 | 5/20/2022 3:41:00 AM | 67545 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

**Analytical Report**
Lab Order **2205808**
Date Reported: **5/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** BH02 0.5'
**Project:** Federal FC Com 2H Tank Battery
**Collection Date:** 5/16/2022 9:40:00 AM
**Lab ID:** 2205808-003 **Matrix:** SOIL
**Received Date:** 5/18/2022 8:27:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 190 | 60 | | mg/Kg | 20 | 5/23/2022 2:09:15 PM | 67621 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** | |
| Diesel Range Organics (DRO) | 8300 | 500 | | mg/Kg | 50 | 5/23/2022 4:33:35 PM | 67548 |
| Motor Oil Range Organics (MRO) | 9700 | 2500 | | mg/Kg | 50 | 5/23/2022 4:33:35 PM | 67548 |
| Surr: DNOP | 0 | 51.1-141 | S | %Rec | 50 | 5/23/2022 4:33:35 PM | 67548 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 25 | | mg/Kg | 5 | 5/20/2022 4:00:00 AM | 67545 |
| Surr: BFB | 95.8 | 37.7-212 | | %Rec | 5 | 5/20/2022 4:00:00 AM | 67545 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 5/20/2022 4:00:00 AM | 67545 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 5/20/2022 4:00:00 AM | 67545 |
| Ethylbenzene | ND | 0.25 | | mg/Kg | 5 | 5/20/2022 4:00:00 AM | 67545 |
| Xylenes, Total | ND | 0.50 | | mg/Kg | 5 | 5/20/2022 4:00:00 AM | 67545 |
| Surr: 4-Bromofluorobenzene | 96.8 | 70-130 | | %Rec | 5 | 5/20/2022 4:00:00 AM | 67545 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

**Analytical Report**
Lab Order **2205808**
Date Reported: **5/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** BH03 0.5'
**Project:** Federal FC Com 2H Tank Battery
**Collection Date:** 5/16/2022 9:45:00 AM
**Lab ID:** 2205808-004 **Matrix:** SOIL
**Received Date:** 5/18/2022 8:27:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 5/23/2022 2:21:39 PM | 67621 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** | |
| Diesel Range Organics (DRO) | 1700 | 440 | | mg/Kg | 50 | 5/25/2022 2:22:29 PM | 67548 |
| Motor Oil Range Organics (MRO) | 2300 | 2200 | | mg/Kg | 50 | 5/25/2022 2:22:29 PM | 67548 |
| Surr: DNOP | 0 | 51.1-141 | S | %Rec | 50 | 5/25/2022 2:22:29 PM | 67548 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/20/2022 4:20:00 AM | 67545 |
| Surr: BFB | 85.8 | 37.7-212 | | %Rec | 1 | 5/20/2022 4:20:00 AM | 67545 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 5/20/2022 4:20:00 AM | 67545 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/20/2022 4:20:00 AM | 67545 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/20/2022 4:20:00 AM | 67545 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 5/20/2022 4:20:00 AM | 67545 |
| Surr: 4-Bromofluorobenzene | 89.9 | 70-130 | | %Rec | 1 | 5/20/2022 4:20:00 AM | 67545 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

**Analytical Report**
Lab Order **2205808**
Date Reported: **5/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** BH03 1'
**Project:** Federal FC Com 2H Tank Battery
**Collection Date:** 5/16/2022 9:50:00 AM
**Lab ID:** 2205808-005 **Matrix:** SOIL
**Received Date:** 5/18/2022 8:27:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 5/23/2022 2:34:04 PM | 67621 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** | |
| Diesel Range Organics (DRO) | 480 | 100 | | mg/Kg | 10 | 5/25/2022 2:50:00 PM | 67548 |
| Motor Oil Range Organics (MRO) | 1100 | 500 | | mg/Kg | 10 | 5/25/2022 2:50:00 PM | 67548 |
| Surr: DNOP | 0 | 51.1-141 | S | %Rec | 10 | 5/25/2022 2:50:00 PM | 67548 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 5/20/2022 4:40:00 AM | 67545 |
| Surr: BFB | 87.5 | 37.7-212 | | %Rec | 1 | 5/20/2022 4:40:00 AM | 67545 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 5/20/2022 4:40:00 AM | 67545 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 5/20/2022 4:40:00 AM | 67545 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 5/20/2022 4:40:00 AM | 67545 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 5/20/2022 4:40:00 AM | 67545 |
| Surr: 4-Bromofluorobenzene | 88.2 | 70-130 | | %Rec | 1 | 5/20/2022 4:40:00 AM | 67545 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2205808**

***27-May-22***

**Client:** EOG

**Project:** Federal FC Com 2H Tank Battery

| Sample ID: **MB-67596** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **67596** | RunNo: **88190** | | | | | | | |
| Prep Date: **5/20/2022** | Analysis Date: **5/20/2022** | SeqNo: **3126542** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-67596** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **67596** | RunNo: **88190** | | | | | | | |
| Prep Date: **5/20/2022** | Analysis Date: **5/20/2022** | SeqNo: **3126543** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 90.7 | 90 | 110 | | | |

| Sample ID: **MB-67621** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **67621** | RunNo: **88218** | | | | | | | |
| Prep Date: **5/23/2022** | Analysis Date: **5/23/2022** | SeqNo: **3127932** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-67621** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **67621** | RunNo: **88218** | | | | | | | |
| Prep Date: **5/23/2022** | Analysis Date: **5/23/2022** | SeqNo: **3127933** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.6 | 90 | 110 | | | |

| Sample ID: **MB-67621** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **67621** | RunNo: **88201** | | | | | | | |
| Prep Date: **5/23/2022** | Analysis Date: **5/23/2022** | SeqNo: **3128092** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-67621** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **67621** | RunNo: **88201** | | | | | | | |
| Prep Date: **5/23/2022** | Analysis Date: **5/23/2022** | SeqNo: **3128093** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 94.9 | 90 | 110 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2205808**

***27-May-22***

**Client:** EOG

**Project:** Federal FC Com 2H Tank Battery

| Sample ID: **LCS-67548** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **67548** | RunNo: **88170** |
| Prep Date: **5/19/2022** | Analysis Date: **5/20/2022** | SeqNo: **3126893** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 85.8 | 64.4 | 127 | | | |
| Surr: DNOP | 5.0 | | 5.000 | | 101 | 51.1 | 141 | | | |

| Sample ID: **MB-67548** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **67548** | RunNo: **88170** |
| Prep Date: **5/19/2022** | Analysis Date: **5/20/2022** | SeqNo: **3126897** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 11 | | 10.00 | | 112 | 51.1 | 141 | | | |

| Sample ID: **LCS-67607** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **67607** | RunNo: **88200** |
| Prep Date: **5/20/2022** | Analysis Date: **5/23/2022** | SeqNo: **3127567** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 6.4 | | 5.000 | | 127 | 51.1 | 141 | | | |

| Sample ID: **MB-67607** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **67607** | RunNo: **88200** |
| Prep Date: **5/20/2022** | Analysis Date: **5/23/2022** | SeqNo: **3127570** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 13 | | 10.00 | | 132 | 51.1 | 141 | | | |

| Sample ID: **MB-67666** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **67666** | RunNo: **88263** |
| Prep Date: **5/24/2022** | Analysis Date: **5/26/2022** | SeqNo: **3131422** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 10 | | 10.00 | | 101 | 51.1 | 141 | | | |

| Sample ID: **LCS-67666** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **67666** | RunNo: **88263** |
| Prep Date: **5/24/2022** | Analysis Date: **5/26/2022** | SeqNo: **3131423** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 5.4 | | 5.000 | | 108 | 51.1 | 141 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2205808**

***27-May-22***

**Client:** EOG

**Project:** Federal FC Com 2H Tank Battery

| Sample ID: **lcs-67545** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **67545** | RunNo: **88144** |
| Prep Date: **5/18/2022** | Analysis Date: **5/19/2022** | SeqNo: **3124750** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 100 | 72.3 | 137 | | | |
| Surr: BFB | 1900 | | 1000 | | 191 | 37.7 | 212 | | | |

| Sample ID: **mb-67545** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **67545** | RunNo: **88144** |
| Prep Date: **5/18/2022** | Analysis Date: **5/19/2022** | SeqNo: **3124752** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 910 | | 1000 | | 90.6 | 37.7 | 212 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2205808**

***27-May-22***

**Client:** EOG

**Project:** Federal FC Com 2H Tank Battery

| Sample ID: **lcs-67545** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **67545** | RunNo: **88144** |
| Prep Date: **5/18/2022** | Analysis Date: **5/19/2022** | SeqNo: **3124827** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.96 | 0.025 | 1.000 | 0 | 96.1 | 80 | 120 | | | |
| Toluene | 0.97 | 0.050 | 1.000 | 0 | 96.9 | 80 | 120 | | | |
| Ethylbenzene | 0.96 | 0.050 | 1.000 | 0 | 96.2 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.89 | | 1.000 | | 89.4 | 70 | 130 | | | |

| Sample ID: **mb-67545** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **67545** | RunNo: **88144** |
| Prep Date: **5/18/2022** | Analysis Date: **5/19/2022** | SeqNo: **3124828** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 89.7 | 70 | 130 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG | Work Order Number: 2205808 | RcptNo: 1

Received By: Joseph Alderette 5/18/2022 8:27:00 AM

Completed By: Desiree Dominguez 5/18/2022 10:03:54 AM

Reviewed By: CMC 5/18/22

## Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑

IO

# of preserved bottles checked for pH: 5/18/22 (<2 or >12 unless noted)

Adjusted?

Checked by:

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 5.5 | Good | | | | |

# Chain-of-Custody Record

Client: Chase Settle, Amber Griffin

Mailing Address: 105 S. 4th St. Artesia, NM 88210

Phone #: Amber.griffin@eogresources.com

email or Fax#: Chase.settle@eog resources

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☑ Rush 5 Day TAT

Project Name: Federal FC Com #2H

Tank Battery

Project #: 03C2000006

INC: NAB1821234289

Project Manager: Tacoma Morrissey

Sampler: Gilbert Moreno

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.5 - 0 = 5.5 °c


**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107


**Analysis Request**

| Date | Time | Matrix | Sample Name | (ft) DEPTH | Container Type and # | Preservative Type | HEAL No. 2205808 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, SO | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.16.22 | 9:30 | S | BH01 | 0.5' | 1, 2 oz, | N/A | -001 | X | X | | | | | X | | | |
| 5.16.22 | 9:35 | S | BH01 | 1' | 1, 2 oz, | N/A | -002 | X | X | | | | | X | | | |
| 5.16.22 | 9:40 | S | BH02 | 0.5' | 1, 2 oz, | N/A | -003 | X | X | | | | | X | | | |
| 5.16.22 | 9:45 | S | BH03 | 0.5' | 1, 2 oz, | N/A | -004 | X | X | | | | | X | | | |
| 5.16.22 | 9:50 | S | BH03 | 1' | 1, 2 oz, | N/A | -005 | X | X | | | | | X | | | |

| Date | Time | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| 5.17.22 | 07:00 | | | | 5/17/22 | 700 |
| 5/18/22 | 1900 | | | courier | 5.18.22 | 8:27 |

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

July 27, 2022

Tacoma Morrissey
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Federal FC Com 2H OrderNo.: 2207A15

Dear Tacoma Morrissey:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/21/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **2207A15**
Date Reported: **7/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** PH02 @ 18'
**Project:** Federal FC Com 2H
**Collection Date:** 7/19/2022 10:15:00 AM
**Lab ID:** 2207A15-001 **Matrix:** SOIL **Received Date:** 7/21/2022 6:55:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/25/2022 9:33:55 PM | 69047 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JME** | |
| Diesel Range Organics (DRO) | 1400 | 150 | | mg/Kg | 10 | 7/22/2022 6:47:40 PM | 68975 |
| Motor Oil Range Organics (MRO) | 750 | 480 | | mg/Kg | 10 | 7/22/2022 6:47:40 PM | 68975 |
| Surr: DNOP | 0 | 21-129 | S | %Rec | 10 | 7/22/2022 6:47:40 PM | 68975 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 7/22/2022 6:03:42 PM | 68966 |
| Surr: BFB | 123 | 37.7-212 | | %Rec | 5 | 7/22/2022 6:03:42 PM | 68966 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 7/22/2022 6:03:42 PM | 68966 |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 7/22/2022 6:03:42 PM | 68966 |
| Ethylbenzene | 0.27 | 0.24 | | mg/Kg | 5 | 7/22/2022 6:03:42 PM | 68966 |
| Xylenes, Total | 0.60 | 0.48 | | mg/Kg | 5 | 7/22/2022 6:03:42 PM | 68966 |
| Surr: 4-Bromofluorobenzene | 109 | 70-130 | | %Rec | 5 | 7/22/2022 6:03:42 PM | 68966 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

**Analytical Report**
Lab Order **2207A15**
Date Reported: **7/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** PH02A @ 20'
**Project:** Federal FC Com 2H
**Collection Date:** 7/19/2022 10:20:00 AM
**Lab ID:** 2207A15-002 **Matrix:** SOIL **Received Date:** 7/21/2022 6:55:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/25/2022 9:46:19 PM | 69047 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JME** | |
| Diesel Range Organics (DRO) | 40 | 14 | | mg/Kg | 1 | 7/22/2022 1:32:26 PM | 68975 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/22/2022 1:32:26 PM | 68975 |
| Surr: DNOP | 86.3 | 21-129 | | %Rec | 1 | 7/22/2022 1:32:26 PM | 68975 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 7/22/2022 7:15:36 PM | 68966 |
| Surr: BFB | 93.5 | 37.7-212 | | %Rec | 1 | 7/22/2022 7:15:36 PM | 68966 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/22/2022 7:15:36 PM | 68966 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 7/22/2022 7:15:36 PM | 68966 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 7/22/2022 7:15:36 PM | 68966 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 7/22/2022 7:15:36 PM | 68966 |
| Surr: 4-Bromofluorobenzene | 106 | 70-130 | | %Rec | 1 | 7/22/2022 7:15:36 PM | 68966 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

# QC SUMMARY REPORT
## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207A15**
***27-Jul-22***

**Client:** EOG
**Project:** Federal FC Com 2H

| Sample ID: **MB-69047** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **69047** | RunNo: **89782** |
| Prep Date: **7/25/2022** | Analysis Date: **7/25/2022** | SeqNo: **3197101** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-69047** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **69047** | RunNo: **89782** |
| Prep Date: **7/25/2022** | Analysis Date: **7/25/2022** | SeqNo: **3197102** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.5 | 90 | 110 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT
## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207A15**
***27-Jul-22***

**Client:** EOG
**Project:** Federal FC Com 2H

| Sample ID: **MB-68975** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68975** | RunNo: **89747** |
| Prep Date: **7/21/2022** | Analysis Date: **7/22/2022** | SeqNo: **3195780** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.3 | | 10.00 | | 82.6 | 21 | 129 | | | |

| Sample ID: **LCS-68975** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68975** | RunNo: **89747** |
| Prep Date: **7/21/2022** | Analysis Date: **7/22/2022** | SeqNo: **3195781** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 51 | 15 | 50.00 | 0 | 102 | 64.4 | 127 | | | |
| Surr: DNOP | 5.4 | | 5.000 | | 108 | 21 | 129 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207A15**

***27-Jul-22***

**Client:** EOG

**Project:** Federal FC Com 2H

| Sample ID: **mb-68966** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68966** | RunNo: **89719** |
| Prep Date: **7/21/2022** | Analysis Date: **7/22/2022** | SeqNo: **3194996** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 940 | | 1000 | | 93.9 | 37.7 | 212 | | | |

| Sample ID: **lcs-68966** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68966** | RunNo: **89719** |
| Prep Date: **7/21/2022** | Analysis Date: **7/22/2022** | SeqNo: **3194997** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 88.5 | 72.3 | 137 | | | |
| Surr: BFB | 1800 | | 1000 | | 175 | 37.7 | 212 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT
## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207A15**
***27-Jul-22***

**Client:** EOG
**Project:** Federal FC Com 2H

Sample ID: **mb-68966** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **68966** RunNo: **89719**
Prep Date: **7/21/2022** Analysis Date: **7/22/2022** SeqNo: **3195069** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 107 | 70 | 130 | | | |

Sample ID: **LCS-68966** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **68966** RunNo: **89719**
Prep Date: **7/21/2022** Analysis Date: **7/22/2022** SeqNo: **3195070** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 95.2 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 99.8 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 110 | 70 | 130 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2207A15** RcptNo: **1**

Received By: **Juan Rojas** **7/21/2022 6:55:00 AM**

Completed By: **Cheyenne Cason** **7/21/2022 7:22:04 AM**

Reviewed By: KDG 7.21.22

## Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JR 7/21/22

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 0.9 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: Chase Settle, Amber Griffin

Mailing Address: 105 S. 4th St. Artesia, NM 88210

Phone #:

email or Fax#: Chase_Settle@eogresources.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☒ Rush 5 Day

Project Name: Federal FC Com 2H

Job#: 03C2000006

Incident #: nAPP2213935679

Project Manager:
Tacoma Morrissey
tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.8+0.1=0.9


**HALL ENVIRONMENTAL ANALYSIS LABORATORY**
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107


**Analysis Request**

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2207465 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, SO | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/19/2022 | 10:15 | S | PH02 @ 18' | 2oz jars | | 1 | X | X | | | | | X | | | |
| 7/19/2022 | 10:20 | S | PH02A @ 20' | 2oz jars | | 2 | X | X | | | | | X | | | |
| 7/19/2022 | 10:25 | S | PH02B @ 22' (hold) | 2oz jars | | 3 | X | X | | | | | X | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| 7/20/22 | 945 | | | | 7/20/22 | 945 |
| 7/20/22 | 1900 | | | courier | 7/21/22 | 6:55 |

Remarks: Amber_Griffin@eogresources.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

July 07, 2022

Tacoma Morrissey
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Federal FC Com 2H OrderNo.: 2206D66

Dear Tacoma Morrissey:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/24/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**
Lab Order **2206D66**
Date Reported: **7/7/2022**

**CLIENT:** EOG
**Client Sample ID:** PH01 @ 7'
**Project:** Federal FC Com 2H
**Collection Date:** 6/22/2022 9:05:00 AM
**Lab ID:** 2206D66-001 **Matrix:** SOIL
**Received Date:** 6/24/2022 8:16:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 6/30/2022 12:58:09 PM | 68460 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | 3000 | 150 | | mg/Kg | 10 | 7/1/2022 2:03:58 AM | 68418 |
| Motor Oil Range Organics (MRO) | 1400 | 480 | | mg/Kg | 10 | 7/1/2022 2:03:58 AM | 68418 |
| Surr: DNOP | 0 | 51.1-141 | S | %Rec | 10 | 7/1/2022 2:03:58 AM | 68418 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | 31 | 25 | | mg/Kg | 5 | 6/28/2022 7:49:00 PM | 68388 |
| Surr: BFB | 168 | 37.7-212 | | %Rec | 5 | 6/28/2022 7:49:00 PM | 68388 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 6/28/2022 7:49:00 PM | 68388 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 6/28/2022 7:49:00 PM | 68388 |
| Ethylbenzene | ND | 0.25 | | mg/Kg | 5 | 6/28/2022 7:49:00 PM | 68388 |
| Xylenes, Total | ND | 0.49 | | mg/Kg | 5 | 6/28/2022 7:49:00 PM | 68388 |
| Surr: 4-Bromofluorobenzene | 103 | 70-130 | | %Rec | 5 | 6/28/2022 7:49:00 PM | 68388 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

**Analytical Report**
Lab Order **2206D66**
Date Reported: **7/7/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** PH01A @ 10'
**Project:** Federal FC Com 2H
**Collection Date:** 6/22/2022 9:20:00 AM
**Lab ID:** 2206D66-002 **Matrix:** SOIL **Received Date:** 6/24/2022 8:16:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 6/30/2022 1:10:33 PM | 68460 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | 2500 | 150 | | mg/Kg | 10 | 7/1/2022 2:17:55 AM | 68418 |
| Motor Oil Range Organics (MRO) | 1100 | 490 | | mg/Kg | 10 | 7/1/2022 2:17:55 AM | 68418 |
| Surr: DNOP | 0 | 51.1-141 | S | %Rec | 10 | 7/1/2022 2:17:55 AM | 68418 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 24 | | mg/Kg | 5 | 6/28/2022 8:09:00 PM | 68388 |
| Surr: BFB | 145 | 37.7-212 | | %Rec | 5 | 6/28/2022 8:09:00 PM | 68388 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 6/28/2022 8:09:00 PM | 68388 |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 6/28/2022 8:09:00 PM | 68388 |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 6/28/2022 8:09:00 PM | 68388 |
| Xylenes, Total | ND | 0.47 | | mg/Kg | 5 | 6/28/2022 8:09:00 PM | 68388 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 5 | 6/28/2022 8:09:00 PM | 68388 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

**Analytical Report**
Lab Order **2206D66**
Date Reported: **7/7/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** PH01B @ 14'
**Project:** Federal FC Com 2H
**Collection Date:** 6/22/2022 9:30:00 AM
**Lab ID:** 2206D66-003 **Matrix:** SOIL
**Received Date:** 6/24/2022 8:16:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 6/30/2022 1:22:58 PM | 68460 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | 66 | 14 | | mg/Kg | 1 | 7/1/2022 2:31:53 AM | 68418 |
| Motor Oil Range Organics (MRO) | 50 | 46 | | mg/Kg | 1 | 7/1/2022 2:31:53 AM | 68418 |
| Surr: DNOP | 90.5 | 51.1-141 | | %Rec | 1 | 7/1/2022 2:31:53 AM | 68418 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 6/28/2022 8:29:00 PM | 68388 |
| Surr: BFB | 89.4 | 37.7-212 | | %Rec | 1 | 6/28/2022 8:29:00 PM | 68388 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 6/28/2022 8:29:00 PM | 68388 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 6/28/2022 8:29:00 PM | 68388 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 6/28/2022 8:29:00 PM | 68388 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 6/28/2022 8:29:00 PM | 68388 |
| Surr: 4-Bromofluorobenzene | 84.8 | 70-130 | | %Rec | 1 | 6/28/2022 8:29:00 PM | 68388 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

**Analytical Report**
Lab Order **2206D66**
Date Reported: **7/7/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** PH01C @ 16'
**Project:** Federal FC Com 2H
**Collection Date:** 6/22/2022 9:35:00 AM
**Lab ID:** 2206D66-004 **Matrix:** SOIL **Received Date:** 6/24/2022 8:16:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 6/30/2022 1:35:23 PM | 68460 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **TOM** | |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/1/2022 2:45:54 AM | 68418 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/1/2022 2:45:54 AM | 68418 |
| Surr: DNOP | 96.4 | 51.1-141 | | %Rec | 1 | 7/1/2022 2:45:54 AM | 68418 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 6/28/2022 8:48:00 PM | 68388 |
| Surr: BFB | 88.2 | 37.7-212 | | %Rec | 1 | 6/28/2022 8:48:00 PM | 68388 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 6/28/2022 8:48:00 PM | 68388 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 6/28/2022 8:48:00 PM | 68388 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 6/28/2022 8:48:00 PM | 68388 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 6/28/2022 8:48:00 PM | 68388 |
| Surr: 4-Bromofluorobenzene | 83.9 | 70-130 | | %Rec | 1 | 6/28/2022 8:48:00 PM | 68388 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix interference | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206D66**

***07-Jul-22***

**Client:** EOG

**Project:** Federal FC Com 2H

| Sample ID: | **MB-68460** | SampType: | **mblk** | TestCode: | **EPA Method 300.0: Anions** |
|---|---|---|---|---|---|
| Client ID: | **PBS** | Batch ID: | **68460** | RunNo: | **89182** |
| Prep Date: | **6/29/2022** | Analysis Date: | **6/30/2022** | SeqNo: | **3170091** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: | **LCS-68460** | SampType: | **lcs** | TestCode: | **EPA Method 300.0: Anions** |
|---|---|---|---|---|---|
| Client ID: | **LCSS** | Batch ID: | **68460** | RunNo: | **89182** |
| Prep Date: | **6/29/2022** | Analysis Date: | **6/30/2022** | SeqNo: | **3170092** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.8 | 90 | 110 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206D66**

***07-Jul-22***

**Client:** EOG

**Project:** Federal FC Com 2H

| Sample ID: **MB-68418** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68418** | RunNo: **89166** |
| Prep Date: **6/28/2022** | Analysis Date: **7/1/2022** | SeqNo: **3169229** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.4 | | 10.00 | | 94.3 | 51.1 | 141 | | | |

| Sample ID: **MB-68456** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68456** | RunNo: **89166** |
| Prep Date: **6/29/2022** | Analysis Date: **6/30/2022** | SeqNo: **3169231** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 9.4 | | 10.00 | | 93.6 | 51.1 | 141 | | | |

| Sample ID: **LCS-68418** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68418** | RunNo: **89166** |
| Prep Date: **6/28/2022** | Analysis Date: **7/1/2022** | SeqNo: **3169232** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 40 | 15 | 50.00 | 0 | 79.9 | 64.4 | 127 | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 97.3 | 51.1 | 141 | | | |

| Sample ID: **LCS-68456** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68456** | RunNo: **89166** |
| Prep Date: **6/29/2022** | Analysis Date: **6/30/2022** | SeqNo: **3169234** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 4.7 | | 5.000 | | 94.7 | 51.1 | 141 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206D66**

***07-Jul-22***

**Client:** EOG

**Project:** Federal FC Com 2H

| Sample ID: **lcs-68381** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68381** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3164760** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: BFB | 2000 | | 1000 | | 196 | 37.7 | 212 | | | |

| Sample ID: **mb-68381** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68381** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3164761** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: BFB | 870 | | 1000 | | 87.5 | 37.7 | 212 | | | |

| Sample ID: **lcs-68388** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68388** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3165078** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 97.2 | 72.3 | 137 | | | |
| Surr: BFB | 2000 | | 1000 | | 195 | 37.7 | 212 | | | |

| Sample ID: **MB-68388** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68388** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3165150** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 900 | | 1000 | | 90.0 | 37.7 | 212 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206D66**

***07-Jul-22***

**Client:** EOG

**Project:** Federal FC Com 2H

| Sample ID: **lcs-68381** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68381** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3164770** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 85.6 | 70 | 130 | | | |

| Sample ID: **mb-68381** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68381** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3164771** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 0.85 | | 1.000 | | 85.2 | 70 | 130 | | | |

| Sample ID: **LCS-68388** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68388** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3165120** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 90.6 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 91.9 | 80 | 120 | | | |
| Ethylbenzene | 0.91 | 0.050 | 1.000 | 0 | 91.4 | 80 | 120 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 90.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 1.000 | | 86.9 | 70 | 130 | | | |

| Sample ID: **MB-68388** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68388** | RunNo: **89080** |
| Prep Date: **6/27/2022** | Analysis Date: **6/28/2022** | SeqNo: **3165152** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.84 | | 1.000 | | 84.0 | 70 | 130 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG | Work Order Number: 2206D66 | RcptNo: 1

Received By: **Kasandra Payan** 6/24/2022 8:16:00 AM

Completed By: **Sean Livingston** 6/24/2022 9:40:46 AM

Reviewed By: DAD 6/24/22

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? | Yes ☐ | No ☐ | NA ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by CMC 6/24/22

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 0.8 | Good | | | | |
| 2 | 2.0 | Good | | | | |

# Chain-of-Custody Record

Client: Chase Settle, Amber Griffin

Mailing Address: 105 S. 4th St. Artesia, NM 88210

Phone #:

email or Fax#: Settle@eogresources.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☒ Rush 5 Days

Project Name: Federal FC Com #2H

Project #: 03C2000006

Incident #: nAPP2213935679

Project Manager:
Tacoma Morrissey
tmorrissey@ensolum.com

Sampler: Kase Parker

On Ice: ☑ Yes ☐ No Set 6/24/22

# of Coolers: 2

Cooler Temp(including CF): ~~12.0-0.2=11.8~~ 1.0-0.2=0.8 7.2-0.2=2.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2206066 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, SO | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/22/2022 | 9:05 | S | PH01 @ 7' | 2oz Jars | | 001 | X | X | | | | | X | | | |
| 6/23/2022 | 9:20 | S | PH01A @10' | 2oz Jars | | 002 | X | X | | | | | X | | | |
| 6/24/2022 | 9:30 | S | PH01B @ 14' | 2oz Jars | | 003 | X | X | | | | | X | | | |
| 6/25/2022 | 9:35 | S | PH01C @ 16' | 2oz Jars | | 004 | X | X | | | | | X | | | |
| | | | | | | | | | | | | | | | | |
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Set 6/24/22 per Erin

KP

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | | | 6/23/22 | 1230 |
| Date: 6/23/22 | Time: 1900 | Relinquished by: | | courier | 6-24-22 | 8:16 |

Remarks: Amber_Griffin@eogresources.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

ENSOLUM

# APPENDIX E

## NMOCD Notifications

**From:** Chase Settle
**To:** Tacoma Morrissey
**Cc:** Amber Griffin
**Subject:** FW: Federal FC Com #2H (NAPP2213936364 & NAPP2213935679) Sampling Notification
**Date:** Thursday, July 7, 2022 4:07:09 PM

[ **EXTERNAL EMAIL**]

**From:** Miriam Morales <Miriam_Morales@eogresources.com>
**Sent:** Thursday, July 7, 2022 2:47 PM
**To:** blm_nm_cfo_spill@blm.gov; Robert.Hamlet@state.nm.us; mike.bratcher@state.nm.us; jocelyn.harimon@state.nm.us; Jennifer.Nobui@state.nm.us
**Cc:** Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
**Subject:** Federal FC Com #2H (NAPP2213936364 & NAPP2213935679) Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Federal FC Com #2H
M-24-20S-24, Eddy Co, NM
NAPP2213936364 & NAPP2213935679

Sampling will begin at 8:30 a.m. Tuesday, July 12, 2022 and continue through Friday, July 15, 2022.

Thank you,

*Miriam Morales*

**From:** Amber Griffin
**To:** Tacoma Morrissey; Ashley Ager
**Cc:** Chase Settle
**Subject:** FW: Federal FC Com #2H- Sampling Notification
**Date:** Wednesday, May 11, 2022 3:55:31 PM

---

[ **EXTERNAL EMAIL**]

Thank you,
Amber Griffin

---

**From:** Miriam Morales <Miriam_Morales@eogresources.com>
**Sent:** Wednesday, May 11, 2022 2:53 PM
**To:** Robert.Hamlet@state.nm.us; blm_nm_cfo_spill@blm.gov
**Cc:** Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
**Subject:** Federal FC Com #2H- Sampling Notification

Good afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Federal FC Com #2H
M-24-20S-24, Eddy Co, NM

Sampling will begin at 8:30 a.m. on Monday, May 16, 2022 and will be continuous through Tuesday, May 17, 2022.

Thank you,

*Miriam Morales*

**From:** Amber Griffin
**To:** Tacoma Morrissey
**Subject:** FW: Federal FC Com 2H (nAPP2213935679) Sampling Notification
**Date:** Wednesday, July 27, 2022 3:20:34 PM
**Attachments:** image001.png

---

[ **EXTERNAL EMAIL**]

Thank you,
Amber Griffin

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Wednesday, July 27, 2022 2:18 PM
**To:** blm_nm_cfo_spill@blm.gov; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
**Cc:** Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
**Subject:** Federal FC Com 2H (nAPP2213935679) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Federal FC Com 2H
M-24-20S-24E
Eddy County, NM
nAPP2213935679

Sampling will begin at 8:30 a.m. on Monday, August 1, 2022 and continue through Thursday, August 4, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

**Artesia Division**

**From:** Amber Griffin
**To:** Tacoma Morrissey; Ashley Ager
**Cc:** Chase Settle
**Subject:** FW: Federal FC Com 2H Sampling Notification
**Date:** Thursday, May 19, 2022 10:52:12 AM
**Attachments:** image001.png

---

[ **EXTERNAL EMAIL**]

Thank you,

Amber Griffin

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Thursday, May 19, 2022 9:45 AM
**To:** Robert.Hamlet@state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Jennifer.Nobui@state.nm.us; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; blm_nm_cfo_spill@blm.gov
**Cc:** Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
**Subject:** Federal FC Com 2H Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Federal FC Com 2H
M-24-20S-24E; Eddy County, NM

Sampling will begin at 8:30 a.m. on Wednesday, May 25, 2022 and will be continuous through Friday, May 27, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

ENSOLUM

# APPENDIX F

## Form 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

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

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

| | |
|---|---|
| Incident ID | nAPP2213935679 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party EOG Resources, Inc. | OGRID 7377 |
| Contact Name Amber Griffin | Contact Telephone 575-748-1471 |
| Contact email amber_griffin@eogresources.com | Incident # *nAPP2213935679* |
| Contact mailing address 104 S. 4th Street, Artesia, NM 88210 | |

## Location of Release Source

Latitude 32.5538864 Longitude -104.5482407
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Federal FC Com # 2H | Site Type Battery |
| Date Release Discovered 5/18/2022 | API# *(if applicable)* 30-015-26907 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| M | 24 | 20S | 24E | Eddy |

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)

| | | |
|---|---|---|
| ☑ Crude Oil | Volume Released (bbls) Unknown | Volume Recovered (bbls) 0 |
| ☑ Produced Water | Volume Released (bbls) Unknown | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☑ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release: Historical impacts were discovered during the decommissioning process of the battery. The environmental consultant contracted to investigate the area determined on 5/18/2022, based on the impacted area footprint, that the release more than likely breached the reportable volume threshold.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2213935679 |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☐ Yes ☑ 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*

☑ The source of the release has been stopped.
☑ The impacted area has been secured to protect human health and the environment.
☑ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☑ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Amber Griffin  Title: Rep Safety & Environmental Sr

Signature: Amber Griffin  Date: 5/19/2022

email: amber_griffin@eogresources.com  Telephone: 575-748-1471

**OCD Only**

Received by: Jocelyn Harimon  Date: 05/19/2022

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2213935679 |
| 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? | >100 (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☒ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☒ Yes ☐ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☒ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☐ Yes ☒ No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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 ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2213935679 |
| 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: Amber Griffin Title: Rep Safety & Environmental Sr.

Signature: Amber Griffin Date: 8/15/2022

email: amber_griffin@eogresources.com Telephone: 575-748-1741

**OCD Only**

Received by: Jocelyn Harimon Date: 08/15/2022

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAPP2213935679 |
| District RP | |
| Facility ID | |
| Application ID | |

# Remediation Plan

**Remediation Plan Checklist**: ***Each of the following items must be included in the plan.***

- [x] Detailed description of proposed remediation technique
- [x] Scaled sitemap with GPS coordinates showing delineation points
- [x] Estimated volume of material to be remediated
- [x] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [x] Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only**: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- [ ] Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- [ ] Extents of contamination must be fully delineated.
- [ ] Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Amber Griffin  Title: Rep Safety & Environmental Sr.

Signature: Amber Griffin  Date: 8/15/2022

email: amber_griffin@eogresources.com  Telephone: 575-748-1741

**OCD Only**

Received by: Jocelyn Harimon  Date: 08/15/2022

- [ ] Approved
- [x] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: Jennifer Nobui  Date: 09/30/2022

**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 134235

## CONDITIONS

| | |
|---|---|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377 |
| | Action Number:<br>134235 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| jnobui | Remediation Plan Approved with Conditions. Release has not been laterally delineated. Sidewall samples should be delineated to 100 mg/kg for TPH to define the edge of the release. | 9/30/2022 |