



January 8, 2016

NMOCD District II  
Attn. Heather Patterson  
1301 W Grand Ave  
Artesia, NM 88210

SUBJECT: FINAL CLOSURE REPORT FOR INCIDENT 2RP-3356 BRUTUS 12 FEDERAL COM #2H, API #30-015-40823 EDDY COUNTY, NEW MEXICO

Dear Ms. Patterson:

On behalf of COG Operating (COG), Souder Miller & Associates (SMA) is pleased to submit the attached Final Closure Report summarizing the soil remediation activities performed for the release at the Brutus 12 Federal COM #002H in Eddy County, New Mexico. The purpose of the final closure report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for remediation of the release discovered on October 2, 2015.

At the request of COG, SMA assessed, delineated and remediated soil affected by produced oil at the Brutus 12 Federal COM #002H well location. The release was initially reported to NMOCD by COG Operating on October 16, 2015 as a release from a steel flowline leak. The table below summarizes information regarding the release. Results of the assessment and delineation follow in the attached report.

| Table 1: Release information and Site Ranking |                                      |            |                          |              |            |
|---|--------------------------------------|------------|--------------------------|--------------|------------|
| Name  | Brutus 12 Federal COM 2H             |            |                          |              |            |
| Location                                      | Incident Number                      | API Number | Section, Township, Range |              |            |
|   |                                      | 2RP-3356   | 30-015-40823             | SW/SE (UL O) | Section 12 |
| Estimated Date of Release                     | Discovered October 2, 2015           |            |                          |              |            |
| Date Reported to NMOCD                        | October 16, 2015                     |            |                          |              |            |
| Reported by                                   | Amanda Trujillo, COG Operating LLC   |            |                          |              |            |
| Land Owner                                    | Federal                              |            |                          |              |            |
| Reported To                                   | NM Oil Conservation Division (NMOCD) |            |                          |              |            |
| Source of Release                             | Steel Flowline Leak                  |            |                          |              |            |
| Released Material                             | Crude Oil                            |            |                          |              |            |
| Released Volume                               | 85 bbls Crude Oil                    |            |                          |              |            |
| Recovered Volume                              | 59 bbls Crude Oil                    |            |                          |              |            |

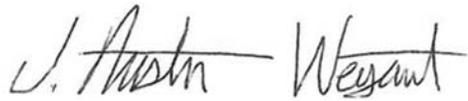


|   |  |
|---|--|
| Net Release   | 26 bbls Crude Oil  |
| Nearest Waterway  | Pecos River is over 1 mile east of the location                      |
| Depth to Groundwater  | Estimated to be 76 feet  |
| Nearest Domestic Water Source   | Greater than 1,000 feet  |
| NMOCD Ranking   | 10   |
| SMA Response Dates  | Initial: November 2, 2015 Mitigation Activities:<br>December 4, 2015 |
| Subcontractors  | TCS  |
| Disposal Facility   | Lea Land, LLC  |
| Estimated Yd <sup>3</sup> Contaminated Soil<br>Excavated and Disposed | 24   |

A copy of the C-141 Initial is located in Appendix B. For questions or comments pertaining to the release or the attached Work Plan, please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant  
Project Scientist

Reviewed by:



Cynthia Gray, CHMM  
Senior Scientist



# SOIL REMEDIATION FINAL CLOSURE REPORT FOR INCIDENT 2RP-3356

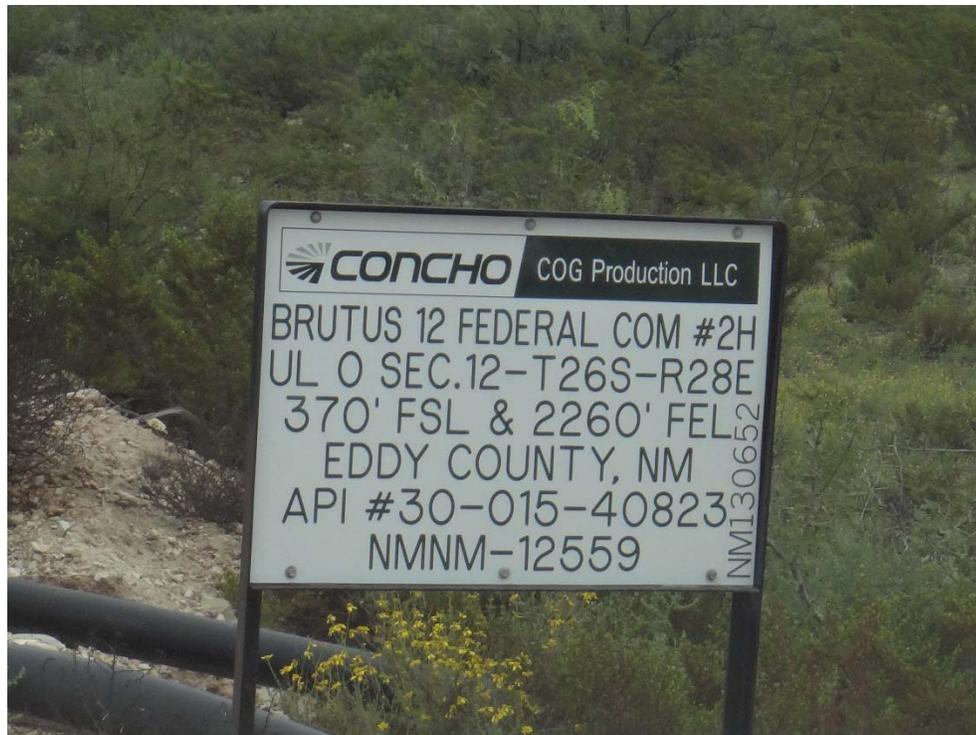
## COG OPERATING LLC

BRUTUS 12 FEDERAL COM 2H

API# 30-015-40823

UL O SECTION 12, T26S R28E, NMPM

EDDY COUNTY, NM



Prepared for:  
COG Operating LLC  
2407 Pecos Ave  
Artesia, NM 88210

Prepared by:  
Souder, Miller & Associates  
201 S. Halagueno  
Carlsbad, NM 88221  
575-689-7040

January 08, 2015  
SMA Reference  
5B23978 BG8



## Table of Contents

|     |  |   |
|-----|--|---|
| 1.0 | Introduction.....                        | 4 |
| 2.0 | Site Ranking and Land Jurisdiction ..... | 4 |
| 3.0 | Assessment and Initial Results .....     | 4 |
| 4.0 | Soil Remediation Summary .....           | 4 |
| 5.0 | Conclusions and Recommendations.....     | 5 |
| 6.0 | Closure and Limitations.....             | 5 |

### Figures:

Figure 1: Vicinity Map

Figure 2: Site Map

### Tables:

Table 1: Release Information and Site Ranking

Table 2: Summary of Laboratory Analyses

### Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Final

## **1.0 Introduction**

On behalf of COG Operating LLC (COG), SMA has prepared this report describing the assessment, initial delineation and mitigation of the crude oil release 2RP-3356 associated with the Brutus 12 Federal COM #2H well site. The site is located in UL O, Section 12, T 26S, R 28 E NMPM, Eddy County, New Mexico, on federal land administered by the Bureau of Land Management (BLM).

## **2.0 Site Ranking and Land Jurisdiction**

The release site is located approximately 1.4 miles (> 1,000 feet) west of Pecos River, in an area managed by BLM with an elevation of approximately 2,950 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 100 feet but greater than 50 feet below ground surface (bgs). Figure 1 illustrates the location and site vicinity and Figure 2 depicts the site details and sample locations. SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. No water supply well is located within a 1000 foot radius of the site. The physical location of this release is within the jurisdiction of NMOCD.

This release location has been assigned a NMOCD ranking of 10 for which "Guidelines for Remediation" require a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 1000 ppm total petroleum hydrocarbons (TPH). Table 1 shows site ranking rationale.

## **3.0 Assessment and Initial Results**

On November 2nd, 2015, after receiving 811 clearance, SMA personnel assessed the release site with hand tools, a Photo Ionization Detector (PID), and a mobile chlorides titration kit. The affected area was found to be 200 feet long and 12 feet wide. Four composite samples (C1-4) and two location specific samples were taken to depths of 2 feet bgs. Using field screening, samples were found to exhibit only background levels of chloride. Sample locations are noted on Figure 2 "Site Details and Sample Location Map". For additional information on the initial soil results and site assessment, please refer to the NMOCD approved work plan (Soil Remediation Work Plan for Incident 2RP-3356.) All samples were collected and processed utilizing NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Benzene and Total BTEX using EPA Method 8021B, DRO and GRO by EPA Method 8015D.

## **4.0 Soil Remediation Work Plan**

SMA begin the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. The composite sample locations C3 and C4 are within a crude oil pipeline right of way (ROW), no excavation occurred in this area. SMA continuously guided the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. Delineation occur to depths of 2 foot bgs to sufficiently delineate the plume by NMOCD Division 1 standards. Excavation was done to affectively remove hydrocarbon contaminated soil located south and east of the tank battery. In this area contaminated soil was removed to 1 foot bgs of and no further excavation occurred due to the plastic liner from the tank battery berm. Confirmation samples were collected under the plastic liner to confirm that no hydrocarbon contamination was under the plastic. Closure samples were collected at final depth

of excavation and on sidewalls to show that contaminated soil was removed on a vertical and horizontal extent. Approximately 24 cubic yards of hydrocarbon contaminated soil was removed and replaced with clean backfill material to bring the contours to surface grade. The contaminated soil was transported for proper disposal at Lea Land, near Carlsbad, NM an NMOCD permitted facility.

## 5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 10: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 1000 ppm TPH. The release consisted of crude oil found during the initial assessment and delineation.

All closure confirmation samples were taken as discrete samples to ensure that the contaminated soil was removed.

Soil sample location are illustrated in Figure 2. A summary of the laboratory analyses is included in Table 2. Laboratory reports are included in Appendix A.

## 6.0 Closure and Limitations

Closure standards have been achieved for the crude oil release 2RP-3356 on the Brutus 12 Federal COM 2H well pad.

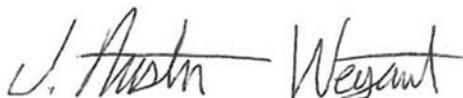
The scope of our services consisted of the performance of a preliminary spill assessment, verification of release stabilization, regulatory liaison, and preparation of a Remediation Work Plan and a Request for Closure. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant  
Project Scientist



Cynthia Gray, CHMM  
Senior Scientist

**Figures:**

Figure 1: Vicinity Map

Figure 2: Site Details and Sample Locations Map

**Tables:**

Table 1: Release Information and Site Ranking

Table 2: Summary of Laboratory Analyses

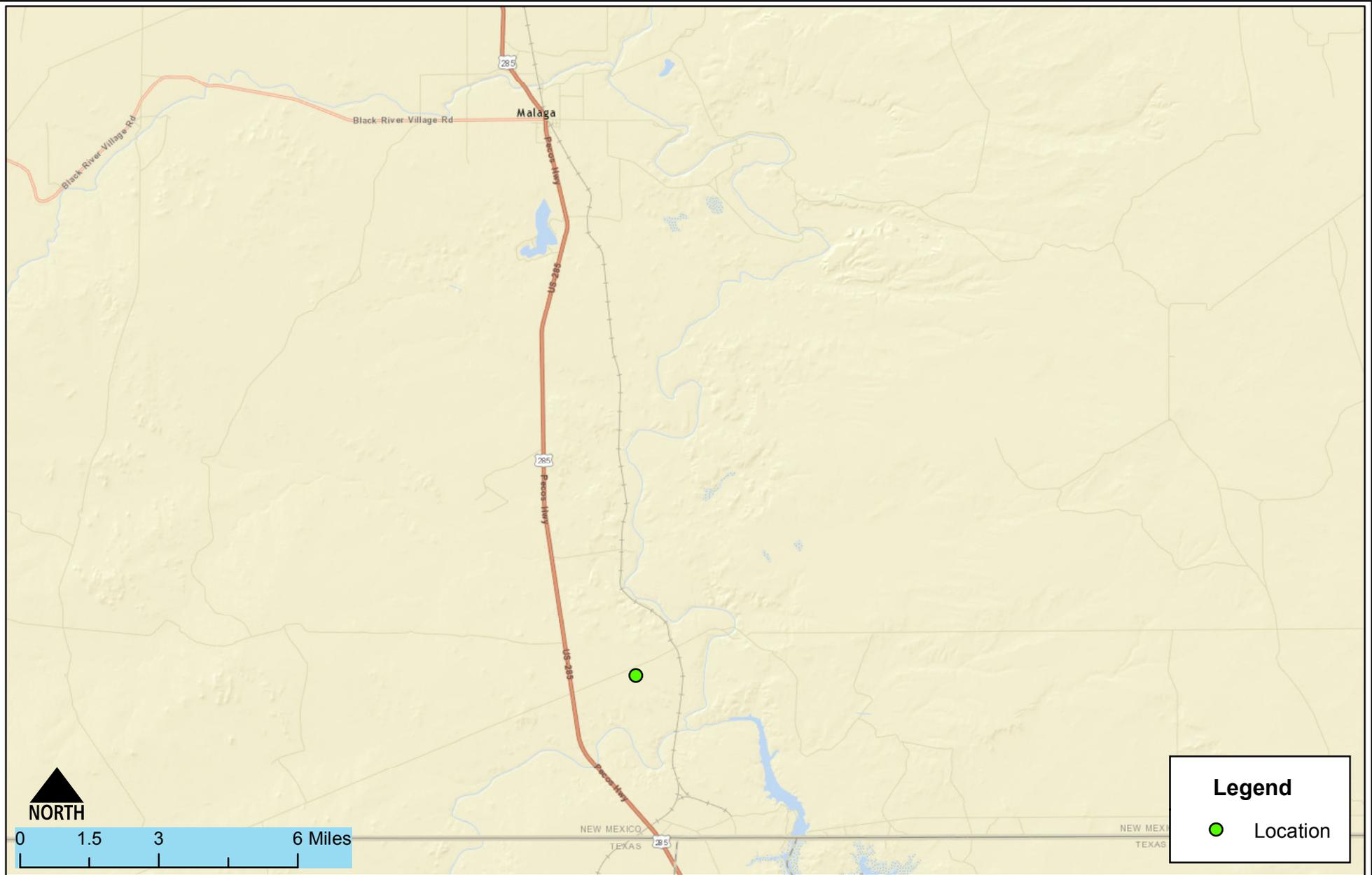
**Appendices:**

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Final

# FIGURE 1

## VICINITY MAP



**Legend**

- Location

Vicinity Map  
 COG- Brutus 12 Federal Com 2H  
 Malaga, New Mexico

Figure 1

|  |           |             |           |              |
|--|-----------|-------------|-----------|--------------|
| Date Saved:<br>11/17/2015  | By: _____ | Date: _____ | Revisions | Descr: _____ |
| Copyright 2015 Souder, Miller & Associates - All Rights Reserved | By: _____ | Date: _____ |           | Descr: _____ |

|          |                        |
|----------|------------------------|
| Drawn    | <u>Lucas Middleton</u> |
| Checked  | _____                  |
| Approved | _____                  |



201 South Halaguena Street  
 Carlsbad, New Mexico 88221  
 (575) 689-7040  
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# FIGURE 2

## SITE DETAILS AND SAMPLE LOCATIONS MAP



**Legend**

- Samples
- Estimated Spill Area
- Battery
- Pad

Site Detail and Sample Locations  
 COG- Brutus 12 Federal Com 2H  
 Malaga, New Mexico

Figure 2

|  |           |             |           |              |
|--|-----------|-------------|-----------|--------------|
| Date Saved:<br>1/7/2016  | By: _____ | Date: _____ | Revisions | Descr: _____ |
|  | By: _____ | Date: _____ |           | Descr: _____ |
| Copyright 2015 Souder, Miller & Associates - All Rights Reserved |           |             |           |              |

|          |                        |
|----------|------------------------|
| Drawn    | <u>Lucas Middleton</u> |
| Checked  | _____                  |
| Approved | _____                  |



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# TABLE 1

## RELEASE INFORMATION AND SITE RANKING

| Table 1: Release information and Site Ranking                      |   |            |                          |             |            |
|--|---|------------|--------------------------|-------------|------------|
| Name   | Brutus 12 Federal COM 2H  |            |                          |             |            |
| Location   | Incident Number   | API Number | Section, Township, Range |             |            |
|  |   | 2RP-3356   | 30-015-40823             | SW/SE (ULO) | Section 12 |
| Estimated Date of Release  | Discovered October 2, 2015  |            |                          |             |            |
| Date Reported to NMOCD   | 16-Oct-15   |            |                          |             |            |
| Reported by  | Amanda Trujillo, COG Operating LLC                                |            |                          |             |            |
| Land Owner   | Federal   |            |                          |             |            |
| Reported To  | NM Oil Conservation Division (NMOCD)                              |            |                          |             |            |
| Source of Release  | Steel Flowline Leak   |            |                          |             |            |
| Released Material  | Crude Oil   |            |                          |             |            |
| Released Volume  | 85 bbls Crude Oil   |            |                          |             |            |
| Recovered Volume   | 59 bbls Crude Oil   |            |                          |             |            |
| Net Release  | 26 bbls Crude Oil   |            |                          |             |            |
| Nearest Waterway   | Pecos River is over 1 mile east of the location                   |            |                          |             |            |
| Depth to Groundwater   | Estimated to be 76 feet   |            |                          |             |            |
| Nearest Domestic Water Source                                      | Greater than 1,000 feet   |            |                          |             |            |
| NMOCD Ranking  | 10  |            |                          |             |            |
| SMA Response Dates   | Initial: November 2, 2015 Mitigation Activities: December 4, 2015 |            |                          |             |            |
| Subcontractors   | TCS   |            |                          |             |            |
| Disposal Facility  | Lea Land, LLC   |            |                          |             |            |
| Estimated Yd <sup>3</sup> Contaminated Soil Excavated and Disposed | 24  |            |                          |             |            |

# TABLE 2

## SUMMARY OF LABORATORY ANALYSES

**Table 2: Summary of Laboratory Analyses**

| Analytical Report-<br>1506542<br>1601181 | Sample Number on<br>Figure 2 Map | Sample Date | Depth   | BTEX<br>ppm | Benzene<br>mg/Kg | GRO<br>mg/Kg | DRO<br>mg/Kg | Cl-<br>mg/Kg |
|--|----------------------------------|-------------|---------|-------------|------------------|--------------|--------------|--------------|
| 1511206-001                              | C1                               | 11/2/2015   | Surface | 25.2        | BDL              | 870          | 26,000       | N/A          |
| 1511206-002                              | C2                               | 11/2/2015   | Surface | 6.6         | BDL              | 310          | 23,000       | N/A          |
| 1511206-003                              | C3                               | 11/2/2015   | Surface | BDL         | BDL              | BDL          | 28           | N/A          |
| 1511206-004                              | C4                               | 11/2/2015   | Surface | BDL         | BDL              | BDL          | 13           | N/A          |
| 1601181-001                              | L1                               | 1/5/2015    | 1.5'    | N/A         | N/A              | BDL          | BDL          | N/A          |
| 1601181-002                              | L2                               | 1/5/2015    | 1.5'    | N/A         | N/A              | 21           | 290          | N/A          |
| 1601181-003                              | L3                               | 1/5/2015    | 1.5'    | N/A         | N/A              | BDL          | 780          | N/A          |

# APPENDIX A

## LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

November 11, 2015

Austin Weyant  
Souder, Miller & Associates  
201 S Halagueno  
Carlsbad, NM 88221  
TEL: (575) 689-7040  
FAX

RE: Brutus 12 Fed Com 2H

OrderNo.: 1511206

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/4/2015 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](http://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 qualifers 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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511206

Date Reported: 11/11/2015

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** C1

**Project:** Brutus 12 Fed Com 2H

**Collection Date:** 11/2/2015 3:13:00 PM

**Lab ID:** 1511206-001

**Matrix:** SOIL

**Received Date:** 11/4/2015 12:15:00 PM

| Analyses   | Result | RL       | Qual | Units | DF  | Date Analyzed         | Batch               |
|--|--------|----------|------|-------|-----|-----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     |                       | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 26000  | 980      |      | mg/Kg | 100 | 11/9/2015 2:47:55 PM  | 22209               |
| Surr: DNOP                                       | 0      | 70-130   | S    | %REC  | 100 | 11/9/2015 2:47:55 PM  | 22209               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | 870    | 50       |      | mg/Kg | 10  | 11/6/2015 11:40:23 AM | 22214               |
| Surr: BFB  | 270    | 75.4-113 | S    | %REC  | 10  | 11/6/2015 11:40:23 AM | 22214               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     |                       | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.25     |      | mg/Kg | 10  | 11/6/2015 11:40:23 AM | 22214               |
| Toluene  | 1.2    | 0.50     |      | mg/Kg | 10  | 11/6/2015 11:40:23 AM | 22214               |
| Ethylbenzene                                     | ND     | 0.50     |      | mg/Kg | 10  | 11/6/2015 11:40:23 AM | 22214               |
| Xylenes, Total                                   | 24     | 1.0      |      | mg/Kg | 10  | 11/6/2015 11:40:23 AM | 22214               |
| Surr: 4-Bromofluorobenzene                       | 137    | 80-120   | S    | %REC  | 10  | 11/6/2015 11:40:23 AM | 22214               |

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

|                    |   |   |
|--------------------|---|---|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | 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                          |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
|                    | S % Recovery outside of range due to dilution or matrix |   |

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511206

Date Reported: 11/11/2015

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** C2

**Project:** Brutus 12 Fed Com 2H

**Collection Date:** 11/2/2015 3:15:00 PM

**Lab ID:** 1511206-002

**Matrix:** SOIL

**Received Date:** 11/4/2015 12:15:00 PM

| Analyses   | Result | RL       | Qual | Units | DF  | Date Analyzed         | Batch               |
|--|--------|----------|------|-------|-----|-----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     |                       | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 23000  | 930      |      | mg/Kg | 100 | 11/9/2015 3:51:55 PM  | 22209               |
| Surr: DNOP                                       | 0      | 70-130   | S    | %REC  | 100 | 11/9/2015 3:51:55 PM  | 22209               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | 310    | 4.9      |      | mg/Kg | 1   | 11/6/2015 12:03:36 PM | 22214               |
| Surr: BFB  | 852    | 75.4-113 | S    | %REC  | 1   | 11/6/2015 12:03:36 PM | 22214               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     |                       | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1   | 11/6/2015 12:03:36 PM | 22214               |
| Toluene  | 0.086  | 0.049    |      | mg/Kg | 1   | 11/6/2015 12:03:36 PM | 22214               |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1   | 11/6/2015 12:03:36 PM | 22214               |
| Xylenes, Total                                   | 6.6    | 0.098    |      | mg/Kg | 1   | 11/6/2015 12:03:36 PM | 22214               |
| Surr: 4-Bromofluorobenzene                       | 266    | 80-120   | S    | %REC  | 1   | 11/6/2015 12:03:36 PM | 22214               |

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 Value above quantitation range                  |
| 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                          |
| R           | RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
| S           | % Recovery outside of range due to dilution or matrix |   |

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511206

Date Reported: 11/11/2015

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** C3

**Project:** Brutus 12 Fed Com 2H

**Collection Date:** 11/2/2015 3:17:00 PM

**Lab ID:** 1511206-003

**Matrix:** SOIL

**Received Date:** 11/4/2015 12:15:00 PM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 28     | 9.6      |      | mg/Kg | 1  | 11/9/2015 4:55:50 PM | 22209               |
| Surr: DNOP                                       | 102    | 70-130   |      | %REC  | 1  | 11/9/2015 4:55:50 PM | 22209               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 11/6/2015 1:19:09 PM | 22214               |
| Surr: BFB  | 97.3   | 75.4-113 |      | %REC  | 1  | 11/6/2015 1:19:09 PM | 22214               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 11/6/2015 1:19:09 PM | 22214               |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 11/6/2015 1:19:09 PM | 22214               |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 11/6/2015 1:19:09 PM | 22214               |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 11/6/2015 1:19:09 PM | 22214               |
| Surr: 4-Bromofluorobenzene                       | 113    | 80-120   |      | %REC  | 1  | 11/6/2015 1:19:09 PM | 22214               |

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

|                    |   |   |             |
|--------------------|---|---|-------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |             |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |             |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      | Page 3 of 9 |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |             |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |             |
|                    | S % Recovery outside of range due to dilution or matrix |   |             |

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511206

Date Reported: 11/11/2015

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** C4

**Project:** Brutus 12 Fed Com 2H

**Collection Date:** 11/2/2015 3:19:00 PM

**Lab ID:** 1511206-004

**Matrix:** SOIL

**Received Date:** 11/4/2015 12:15:00 PM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 13     | 9.9      |      | mg/Kg | 1  | 11/9/2015 5:59:37 PM | 22209               |
| Surr: DNOP                                       | 92.7   | 70-130   |      | %REC  | 1  | 11/9/2015 5:59:37 PM | 22209               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 11/6/2015 1:42:28 PM | 22214               |
| Surr: BFB  | 90.2   | 75.4-113 |      | %REC  | 1  | 11/6/2015 1:42:28 PM | 22214               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 11/6/2015 1:42:28 PM | 22214               |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 11/6/2015 1:42:28 PM | 22214               |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 11/6/2015 1:42:28 PM | 22214               |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 11/6/2015 1:42:28 PM | 22214               |
| Surr: 4-Bromofluorobenzene                       | 115    | 80-120   |      | %REC  | 1  | 11/6/2015 1:42:28 PM | 22214               |

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

|                    |   |   |             |
|--------------------|---|---|-------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank | Page 4 of 9 |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |             |
|                    | 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                          |             |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |             |
|                    | S % Recovery outside of range due to dilution or matrix |   |             |

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511206

Date Reported: 11/11/2015

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** L1

**Project:** Brutus 12 Fed Com 2H

**Collection Date:** 11/2/2015 3:21:00 PM

**Lab ID:** 1511206-005

**Matrix:** SOIL

**Received Date:** 11/4/2015 12:15:00 PM

| Analyses   | Result | RL       | Qual | Units | DF  | Date Analyzed         | Batch               |
|--|--------|----------|------|-------|-----|-----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     |                       | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 14000  | 960      |      | mg/Kg | 100 | 11/10/2015 2:39:48 PM | 22209               |
| Surr: DNOP                                       | 0      | 70-130   | S    | %REC  | 100 | 11/10/2015 2:39:48 PM | 22209               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | 3400   | 250      |      | mg/Kg | 50  | 11/6/2015 11:16:55 AM | 22214               |
| Surr: BFB  | 218    | 75.4-113 | S    | %REC  | 50  | 11/6/2015 11:16:55 AM | 22214               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     |                       | Analyst: <b>NSB</b> |
| Benzene  | 4.7    | 2.5      |      | mg/Kg | 50  | 11/6/2015 11:16:55 AM | 22214               |
| Toluene  | 94     | 2.5      |      | mg/Kg | 50  | 11/6/2015 11:16:55 AM | 22214               |
| Ethylbenzene                                     | 26     | 2.5      |      | mg/Kg | 50  | 11/6/2015 11:16:55 AM | 22214               |
| Xylenes, Total                                   | 200    | 5.0      |      | mg/Kg | 50  | 11/6/2015 11:16:55 AM | 22214               |
| Surr: 4-Bromofluorobenzene                       | 137    | 80-120   | S    | %REC  | 50  | 11/6/2015 11:16:55 AM | 22214               |

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

|                    |   |   |             |
|--------------------|---|---|-------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |             |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |             |
|                    | H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits      | Page 5 of 9 |
|                    | ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                          |             |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |             |
|                    | S % Recovery outside of range due to dilution or matrix |   |             |

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1511206

Date Reported: 11/11/2015

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** L2

**Project:** Brutus 12 Fed Com 2H

**Collection Date:** 11/2/2015 3:23:00 PM

**Lab ID:** 1511206-006

**Matrix:** SOIL

**Received Date:** 11/4/2015 12:15:00 PM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed         | Batch               |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                       | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 1700   | 97       |      | mg/Kg | 10 | 11/10/2015 3:22:25 PM | 22209               |
| Surr: DNOP                                       | 0      | 70-130   | S    | %REC  | 10 | 11/10/2015 3:22:25 PM | 22209               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 11/6/2015 2:05:43 PM  | 22214               |
| Surr: BFB  | 89.2   | 75.4-113 |      | %REC  | 1  | 11/6/2015 2:05:43 PM  | 22214               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                       | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 11/6/2015 2:05:43 PM  | 22214               |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 11/6/2015 2:05:43 PM  | 22214               |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 11/6/2015 2:05:43 PM  | 22214               |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 11/6/2015 2:05:43 PM  | 22214               |
| Surr: 4-Bromofluorobenzene                       | 113    | 80-120   |      | %REC  | 1  | 11/6/2015 2:05:43 PM  | 22214               |

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

|                    |   |   |             |
|--------------------|---|---|-------------|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank | Page 6 of 9 |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |             |
|                    | 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                          |             |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |             |
|                    | S % Recovery outside of range due to dilution or matrix |   |             |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1511206

11-Nov-15

**Client:** Souder, Miller & Associates

**Project:** Brutus 12 Fed Com 2H

| Sample ID <b>MB-22209</b>      | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|--------------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>22209</b>          |     | RunNo: <b>30094</b>  |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b>    | Analysis Date: <b>11/9/2015</b> |     | SeqNo: <b>916768</b>                                       |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                     | 10                              |     | 10.00  |             | 99.6                | 70       | 130       |      |          |      |

| Sample ID <b>LCS-22209</b>  | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>22209</b>          |     | RunNo: <b>30094</b>  |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b> | Analysis Date: <b>11/9/2015</b> |     | SeqNo: <b>917044</b>                                       |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value  | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47                              | 10  | 50.00  | 0           | 93.7                | 57.4     | 139       |      |          |      |
| Surr: DNOP                  | 5.2                             |     | 5.000  |             | 104                 | 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1511206

11-Nov-15

**Client:** Souder, Miller & Associates

**Project:** Brutus 12 Fed Com 2H

| Sample ID <b>MB-22214</b>     | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>22214</b>          |     | RunNo: <b>30084</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b>   | Analysis Date: <b>11/6/2015</b> |     | SeqNo: <b>916449</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 850                             |     | 1000  |             | 85.1                | 75.4     | 113       |      |          |      |

| Sample ID <b>LCS-22214</b>    | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>22214</b>          |     | RunNo: <b>30084</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b>   | Analysis Date: <b>11/6/2015</b> |     | SeqNo: <b>916450</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24                              | 5.0 | 25.00   | 0           | 96.6                | 79.6     | 122       |      |          |      |
| Surr: BFB                     | 930                             |     | 1000  |             | 92.6                | 75.4     | 113       |      |          |      |

**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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1511206

11-Nov-15

**Client:** Souder, Miller & Associates

**Project:** Brutus 12 Fed Com 2H

| Sample ID <b>MB-22214</b>   | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>22214</b>          |       | RunNo: <b>30084</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b> | Analysis Date: <b>11/6/2015</b> |       | SeqNo: <b>916463</b>                         |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.050 |  |             |                     |          |           |      |          |      |
| Toluene                     | ND                              | 0.050 |  |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050 |  |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10  |  |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.1                             |       | 1.000  |             | 108                 | 80       | 120       |      |          |      |

| Sample ID <b>LCS-22214</b>  | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>22214</b>          |       | RunNo: <b>30084</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b> | Analysis Date: <b>11/6/2015</b> |       | SeqNo: <b>916464</b>                         |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.99                            | 0.050 | 1.000  | 0           | 99.1                | 80       | 120       |      |          |      |
| Toluene                     | 0.96                            | 0.050 | 1.000  | 0           | 96.2                | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.98                            | 0.050 | 1.000  | 0           | 98.1                | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.0                             | 0.10  | 3.000  | 0           | 99.8                | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.2                             |       | 1.000  |             | 115                 | 80       | 120       |      |          |      |

| Sample ID <b>1511206-002AMS</b> | SampType: <b>MS</b>             |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|---------------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>C2</b>            | Batch ID: <b>22214</b>          |       | RunNo: <b>30084</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b>     | Analysis Date: <b>11/6/2015</b> |       | SeqNo: <b>916468</b>                         |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                         | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 1.0                             | 0.049 | 0.9794                                       | 0.04442     | 99.5                | 69.6     | 136       |      |          |      |
| Toluene                         | 1.1                             | 0.049 | 0.9794                                       | 0.08588     | 99.1                | 76.2     | 134       |      |          |      |
| Ethylbenzene                    | 1.1                             | 0.049 | 0.9794                                       | 0           | 117                 | 75.8     | 137       |      |          |      |
| Xylenes, Total                  | 9.3                             | 0.098 | 2.938  | 6.601       | 92.6                | 78.9     | 133       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 2.2                             |       | 0.9794                                       |             | 228                 | 80       | 120       |      |          | S    |

| Sample ID <b>1511206-002AMSD</b> | SampType: <b>MSD</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>C2</b>             | Batch ID: <b>22214</b>          |       | RunNo: <b>30084</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>11/5/2015</b>      | Analysis Date: <b>11/6/2015</b> |       | SeqNo: <b>916469</b>                         |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 1.1                             | 0.049 | 0.9775                                       | 0.04442     | 105                 | 69.6     | 136       | 5.08 | 20       |      |
| Toluene                          | 1.1                             | 0.049 | 0.9775                                       | 0.08588     | 106                 | 76.2     | 134       | 6.15 | 20       |      |
| Ethylbenzene                     | 1.2                             | 0.049 | 0.9775                                       | 0           | 124                 | 75.8     | 137       | 5.53 | 20       |      |
| Xylenes, Total                   | 9.7                             | 0.098 | 2.933  | 6.601       | 104                 | 78.9     | 133       | 3.63 | 20       |      |
| Surr: 4-Bromofluorobenzene       | 2.7                             |       | 0.9775                                       |             | 273                 | 80       | 120       | 0    | 0        | S    |

**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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: SMA-CARLSBAD

Work Order Number: 1511206

RcptNo: 1

Received by/date: *AT* *11/04/15*  
 Logged By: Lindsay Mangin 11/4/2015 12:15:00 PM *[Signature]*  
 Completed By: Lindsay Mangin 11/5/2015 9:31:31 AM *[Signature]*  
 Reviewed By: *AT* *11/04/15*

**Chain of Custody**

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
  - 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
  - 6. Sample(s) in proper container(s)? Yes  No
  - 7. Sufficient sample volume for indicated test(s)? Yes  No
  - 8. Are samples (except VOA and ONG) properly preserved? Yes  No
  - 9. Was preservative added to bottles? Yes  No  NA
  - 10. VOA vials have zero headspace? Yes  No  No VOA Vials
  - 11. Were any sample containers received broken? Yes  No
  - 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
  - 13. Are matrices correctly identified on Chain of Custody? Yes  No
  - 14. Is it clear what analyses were requested? Yes  No
  - 15. 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: \_\_\_\_\_

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

|                      |                      |       |   |
|----------------------|----------------------|-------|---|
| Person Notified:     | <input type="text"/> | Date: | <input type="text"/>  |
| By Whom:             | <input type="text"/> | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text"/> |       |   |
| Client Instructions: | <input type="text"/> |       |   |

17. Additional remarks:

**18. Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 5.4     | Good      | Yes         |         |           |           |

# Chain-of-Custody Record

Client: SMA

Mailing Address: Carlsbad

Phone #:

Mail or Fax#:

A/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:

NELAP  Other

EDD (Type)

Turn-Around Time:

Standard  Rush

Project Name:

Brutus 12 FED Cam 2H

Project #:

Project Manager:

Astra Wegant

Sampler:

L132

On Ice:

Yes  No

Sample Temperature:

5.4

Date Time Matrix Sample Request ID

12/15 1513 Soil C1

1515 C2

1517 C3

1519 C4

1521 L1

1523 L2

Container Type and #

4oz soil

None

None

None

None

None

HEAL No.

1511206

-001

-002

-003

-004

-005

-006

Date:

12/15

Relinquished by:

[Signature]

Date:

12/15

Relinquished by:

[Signature]

Received by:

[Signature]

Date:

11/11/15

Received by:

[Signature]

Date:

12/15

## Analysis Request

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Remarks:

Send MRO via email only. Do not include in report.  
Send a copy of results to Lisa.gaston@sevidermillen.com



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

January 11, 2016

Austin Weyant  
Souder, Miller & Associates  
201 S Halagueno  
Carlsbad, NM 88221  
TEL: (575) 689-7040  
FAX

RE: Brutus 12 Fed

OrderNo.: 1601181

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/7/2016 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](http://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 #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1601181

Date Reported: 1/11/2016

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** B-L1-1.5

**Project:** Brutus 12 Fed

**Collection Date:** 1/5/2016 10:00:00 AM

**Lab ID:** 1601181-001

**Matrix:** SOIL

**Received Date:** 1/7/2016 10:00:00 AM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 1/8/2016 10:09:00 AM | 23121               |
| Surr: DNOP                                       | 84.2   | 70-130   |      | %REC  | 1  | 1/8/2016 10:09:00 AM | 23121               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 1/8/2016 8:51:18 AM  | 23122               |
| Surr: BFB  | 91.4   | 66.2-112 |      | %REC  | 1  | 1/8/2016 8:51:18 AM  | 23122               |

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

|                    |   |   |
|--------------------|---|---|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | 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                          |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
|                    | S % Recovery outside of range due to dilution or matrix |   |

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1601181

Date Reported: 1/11/2016

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** B-L2-1.5

**Project:** Brutus 12 Fed

**Collection Date:** 1/5/2016 10:00:00 AM

**Lab ID:** 1601181-002

**Matrix:** SOIL

**Received Date:** 1/7/2016 10:00:00 AM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 290    | 9.9      |      | mg/Kg | 1  | 1/8/2016 10:30:28 AM | 23121               |
| Surr: DNOP                                       | 102    | 70-130   |      | %REC  | 1  | 1/8/2016 10:30:28 AM | 23121               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | 21     | 4.9      |      | mg/Kg | 1  | 1/8/2016 9:14:59 AM  | 23122               |
| Surr: BFB  | 180    | 66.2-112 | S    | %REC  | 1  | 1/8/2016 9:14:59 AM  | 23122               |

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

|                    |   |   |
|--------------------|---|---|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | 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                          |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
|                    | S % Recovery outside of range due to dilution or matrix |   |

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1601181

Date Reported: 1/11/2016

**CLIENT:** Souder, Miller & Associates

**Client Sample ID:** B-L3-1.5

**Project:** Brutus 12 Fed

**Collection Date:** 1/5/2016 10:00:00 AM

**Lab ID:** 1601181-003

**Matrix:** SOIL

**Received Date:** 1/7/2016 10:00:00 AM

| Analyses   | Result | RL       | Qual | Units | DF | Date Analyzed       | Batch               |
|--|--------|----------|------|-------|----|---------------------|---------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                     | Analyst: <b>KJH</b> |
| Diesel Range Organics (DRO)                      | 780    | 100      |      | mg/Kg | 10 | 1/8/2016 1:44:16 PM | 23121               |
| Surr: DNOP                                       | 0      | 70-130   | S    | %REC  | 10 | 1/8/2016 1:44:16 PM | 23121               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                     | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 1/8/2016 9:38:27 AM | 23122               |
| Surr: BFB  | 93.0   | 66.2-112 |      | %REC  | 1  | 1/8/2016 9:38:27 AM | 23122               |

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

|                    |   |   |
|--------------------|---|---|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank |
|                    | D Sample Diluted Due to Matrix                          | E Value above quantitation range                  |
|                    | 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                          |
|                    | R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                      |
|                    | S % Recovery outside of range due to dilution or matrix |   |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1601181

11-Jan-16

**Client:** Souder, Miller & Associates

**Project:** Brutus 12 Fed

| Sample ID                      | <b>MB-23121</b> | SampType:      | <b>MBLK</b>     | TestCode:   | <b>EPA Method 8015M/D: Diesel Range Organics</b> |          |              |      |          |      |
|--------------------------------|-----------------|----------------|-----------------|-------------|--|----------|--------------|------|----------|------|
| Client ID:                     | <b>PBS</b>      | Batch ID:      | <b>23121</b>    | RunNo:      | <b>31321</b>                                     |          |              |      |          |      |
| Prep Date:                     | <b>1/7/2016</b> | Analysis Date: | <b>1/8/2016</b> | SeqNo:      | <b>958746</b>                                    | Units:   | <b>mg/Kg</b> |      |          |      |
| 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                     | 9.1             |                | 10.00           |             | 91.4   | 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1601181

11-Jan-16

**Client:** Souder, Miller & Associates

**Project:** Brutus 12 Fed

| Sample ID <b>MB-23122</b>     | SampType: <b>MBLK</b>          |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>23122</b>         |     | RunNo: <b>31332</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/7/2016</b>    | Analysis Date: <b>1/8/2016</b> |     | SeqNo: <b>959506</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                         | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                             | 5.0 |   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 930                            |     | 1000  |             | 93.2                | 66.2     | 112       |      |          |      |

| Sample ID <b>LCS-23122</b>    | SampType: <b>LCS</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>23122</b>         |     | RunNo: <b>31332</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/7/2016</b>    | Analysis Date: <b>1/8/2016</b> |     | SeqNo: <b>959507</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                         | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 25                             | 5.0 | 25.00   | 0           | 99.4                | 79.6     | 122       |      |          |      |
| Surr: BFB                     | 980                            |     | 1000  |             | 98.3                | 66.2     | 112       |      |          |      |

| Sample ID <b>1601181-001AMS</b> | SampType: <b>MS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|---------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>B-L1-1.5</b>      | Batch ID: <b>23122</b>         |     | RunNo: <b>31332</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/7/2016</b>      | Analysis Date: <b>1/8/2016</b> |     | SeqNo: <b>959508</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                         | Result                         | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)   | 30                             | 4.9 | 24.51   | 0           | 122                 | 62.5     | 151       |      |          |      |
| Surr: BFB                       | 1000                           |     | 980.4   |             | 102                 | 66.2     | 112       |      |          |      |

| Sample ID <b>1601181-001AMSD</b> | SampType: <b>MSD</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|--------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>B-L1-1.5</b>       | Batch ID: <b>23122</b>         |     | RunNo: <b>31332</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>1/7/2016</b>       | Analysis Date: <b>1/8/2016</b> |     | SeqNo: <b>959509</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                         | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 29                             | 4.9 | 24.61   | 0           | 118                 | 62.5     | 151       | 3.54 | 22.1     |      |
| Surr: BFB                        | 1000                           |     | 984.3   |             | 104                 | 66.2     | 112       | 0    | 0        |      |

**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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit



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: SMA-CARLSBAD

Work Order Number: 1601181

RcptNo: 1

Received by/date: SA 01/07/16

Logged By: Lindsay Mangin 1/7/2016 10:00:00 AM *Judy Mangin*

Completed By: Lindsay Mangin 1/7/2016 12:25:22 PM *Judy Mangin*

Reviewed By: AG 01/07/16

### Chain of Custody

- Custody seals intact on sample bottles? Yes  No  Not Present
- Is Chain of Custody complete? Yes  No  Not Present
- How was the sample delivered? Courier

### Log In

- Was an attempt made to cool the samples? Yes  No  NA
- Were all samples received at a temperature of >0° C to 6.0° C? Yes  No  NA
- Sample(s) in proper container(s)? Yes  No
- Sufficient sample volume for indicated test(s)? Yes  No
- Are samples (except VOA and ONG) properly preserved? Yes  No
- Was preservative added to bottles? Yes  No  NA
- VOA vials have zero headspace? Yes  No  No VOA Vials
- Were any sample containers received broken? Yes  No
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
- Are matrices correctly identified on Chain of Custody? Yes  No
- Is it clear what analyses were requested? Yes  No
- 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: \_\_\_\_\_

### Special Handling (if applicable)

- 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: \_\_\_\_\_

17. Additional remarks:

### 18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 5.7     | Good      | Yes         |         |           |           |

# Chain-of-Custody Record

Client: SMA

Mailing Address: 207 S. Wagoner

Carlisle, NY 13817

Phone #: 517-687-5351

Email or Fax#: Lisa and John @ road m. 116. 29

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation

NELAP  Other

EDD (Type)

Project Manager:

*Austin Weyant*

Sampler: *CM*

On Ice:  Yes  No

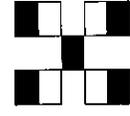
Sample Temperature: *5.7*

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. |
|------|------|--------|-------------------|----------------------|-------------------|----------|
| -515 | 1000 | Soil   | B-L1-1.5          | 4oz                  |                   | 1601181  |
|      |      |        | B-L2-1.5          |                      |                   | -001     |
|      |      |        | B-L3-1.5          |                      |                   | -002     |
|      |      |        |                   |                      |                   | -003     |

Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_

Received by: *Pat A...* Date: *01/07/10* Time: *1000*

Remarks: *MAD on email*



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

| BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 SIMS) | RCRA 8 Metals | Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) |
|----------------------------|------------------------------|-----------------------------|--------------------|--------------------|---------------------------|---------------|--|------------------------------|-------------|-----------------|----------------------|
|                            |                              | X                           |                    |                    |                           |               |  |                              |             |                 |                      |
|                            |                              | X                           |                    |                    |                           |               |  |                              |             |                 |                      |
|                            |                              | X                           |                    |                    |                           |               |  |                              |             |                 |                      |

# APPENDIX B

## FORM C141 FINIAL

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

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

|   |                             |
|---|-----------------------------|
| Name of Company: COG Operating LLC                  | Contact: Robert McNeill     |
| Address: 600 West Illinois Avenue, Midland TX 79701 | Telephone No. 432-230-0077  |
| Facility Name: BRUTUS 12 FEDERAL COM #002H          | Facility Type: 30-015-40823 |

|                        |                |                      |
|------------------------|----------------|----------------------|
| Surface Owner: Federal | Mineral Owner: | API No. 30-015-40823 |
|------------------------|----------------|----------------------|

**LOCATION OF RELEASE**

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| O           | 12      | 26S      | 28E   | 370'          | South            | 2260'         | East           | Eddy   |

Latitude 32.0508652 Longitude -104.0394058

**NATURE OF RELEASE**

|  |   |  |
|--|---|--|
| Type of Release:<br>Oil  | Volume of Release:<br>85 bbls Oil                 | Volume Recovered:<br>59 bbls Oil                 |
| Source of Release:<br>Steel Flowline   | Date and Hour of Occurrence:<br>10/2/2015 7:00 pm | Date and Hour of Discovery:<br>10/2/2015 7:00 pm |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Mike Bratcher - NMOCD         |  |
| By Whom? Lupe Carrasco   | Date and Hour: Sat 10/3/2015 8:40 PM              |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.         |  |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

This release was caused by a corroded steel flowline. A vacuum truck was dispatched to recover all standing fluid.

Describe Area Affected and Cleanup Action Taken.\*

The corroded flow line broke on the edge of the containment. Impact did occur to the nearby pasture. This release was addressed per the approved workplan and under the guidance of NMOCD and the BLM.

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

|   |   |                  |
|---|---|------------------|
| Signature:<br> | <b><u>OIL CONSERVATION DIVISION</u></b> |                  |
|   | Approved by Environmental Specialist:   |                  |
| Printed Name: Amanda Trujillo   | Approval Date:                          | Expiration Date: |
| Title: Senior Environmental Coordinator   | Conditions of Approval:                 |                  |
| E-mail Address: <a href="mailto:atrujillo@concho.com">atrujillo@concho.com</a>                    | Attached <input type="checkbox"/>       |                  |
| Date: December 29, 2015 Phone: 575-748-6940   |   |                  |

\* Attach Additional Sheets If Necessary