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

## **Release Notification**

| ii-                                   |  |                                    |                            | onsib          | ole Party                                |                               | ENIED  |  |  |  |
|---------------------------------------|--|------------------------------------|----------------------------|----------------|--|-------------------------------|--|--|--|--|
| Responsible                           | Party: Ente  | rprise Field Ser                   | vices, LLC                 |                | OGRID: <b>151618</b>                     |                               |  |  |  |  |
| Contact Nam                           | ie: <b>Thomas</b>  | Long                               |                            |                | Contact Te                               | lephone: <b>505-5</b>         | 99-2286  |  |  |  |
| Contact ema                           | il:tjlong@e <sub>l</sub>   | prod.com                           |                            |                | Incident#(                               | assigned by OCD):             | NCS1904355294  |  |  |  |
| Contact mail 87401                    | ing address:   | 614 Reilly Ave,                    | Farmington, NM             | 1              |  |                               |  |  |  |  |
|                                       |  |                                    | Location o                 | of Re          | elease So                                | urce                          |  |  |  |  |
| Latitude 36.6                         | 51985  |                                    | Longitude <u>-1</u>        | 107.67         | 1788                                     | (NAD 8                        | 3 in decimal degrees to 5 decimal places)  |  |  |  |
| Site Name Federal 13-22 #2            |  |                                    |                            |                | Site Type N                              | latural Gas G                 | athering Pipeline  |  |  |  |
| Date Release Discovered: 1/10/2019    |  |                                    |                            |                | Serial Number (if applicable): NM 113113 |                               |  |  |  |  |
| Unit Letter                           | Section  | Township                           | Range                      |                | County                                   |                               | Incorrect C-141 Type,<br>Impacts still in place Operator   |  |  |  |
| С                                     | 22   | 28N                                | 8W                         |                | San Ju                                   | an                            | must submit a Remediation Plan /Deferral Request and ask for a Deferral in the report Resubmit C-141 no later than July 27, 2020 |  |  |  |
| Surface Owner                         | r: State   | 🛚 Federal 🔲 Tr                     | ibal 🔲 Private ( <i>Na</i> | ате <u>: В</u> | LM                                       |                               | )  |  |  |  |
|                                       | Material   | (c) Paleoced (Salect of            | Nature and                 |                |  |                               | volumes provided below)  |  |  |  |
| Crude Oil                             | Matchai  | Volume Release                     |                            | aicuiacio      | ins or specific j                        | Volume Recov                  |  |  |  |  |
| Produced Water Volume Released (bbls) |  |                                    |                            |                | Volume Recovered (bbls)                  |                               |  |  |  |  |
|                                       | Is the concentration of dissolved chlorid produced water >10,000 mg/l? |                                    |                            | loride i       | in the Yes No                            |                               |  |  |  |  |
|                                       | te   | Volume Released (bbls): 15-20 bbls |                            |                |  | Volume Recovered (bbls): None |  |  |  |  |
| Natural G                             | as   | Volume Released (Mcf): 2.31 MCF    |                            |                |  | Volume Recovered (Mcf): None  |  |  |  |  |
| Other (des                            | scribe)  | Volume/Weight                      | Released (provide i        | units):        |  | Volume/Weigl                  | nt Recovered (provide units)   |  |  |  |
| C                                     |  | 40 0040                            |                            |                |  |                               |  |  |  |  |

Cause of Release: On January 10, 2019, an Enterprise technician discovered a release on the Federal 13-22 #2 pipeline. The pipeline was isolated, depressurized, locked out and tagged out. On February 5, 2019, Enterprise completed the repairs and initial remediation. The final excavation dimensions measured approximately 50 feet long by 15 feet wide ranging from approximately four (4) to 20 feet deep. Approximately 264 cubic yards of hydrocarbon impacted soil were excavated and transported to a New Mexico Oil Conservation Division approved land farm facility. Additional remediation by excavating was not possible do the presence for permanent structures. From April 15, 2019 to April 16, 2019, a site assessment was performed utilizing a hollow stem auger drilling rig. No subsurface contamination was identified from the site assessment activities. Enterprise requests a deferment of additional remediation activities until facility/well site decommissioning. A third party closure report is included with this "Final." C-141.

Received by OCD: 12/30/2019 8:53:52 AM

State of New Mexico Oil Conservation Division

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

Form C-141 Page 2

Page 2 of 101 Incident ID District RP Facility ID Application ID

## Closure

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

| A scaled site and sampling diagram as described in 19.15.2   | 9.11 NMAC   |
|--|---|
| Photographs of the remediated site prior to backfill or phomust be notified 2 days prior to liner inspection)  | tos of the liner integrity if applicable (Note: appropriate OCD District office   |
| ☐ Laboratory analyses of final sampling (Note: appropriate C   | DDC District office must be notified 2 days prior to final sampling)  |
| ☐ Description of remediation activities  |   |
|  |   |
| and regulations all operators are required to report and/or file cer<br>may endanger public health or the environment. The acceptance<br>should their operations have failed to adequately investigate and<br>human health or the environment. In addition, OCD acceptance<br>compliance with any other federal, state, or local laws and/or reg | •   |
| OCD Only   |   |
| Received by:   | Date:   |
| Closure approval by the OCD does not relieve the responsible par<br>remediate contamination that poses a threat to groundwater, surface<br>party of compliance with any other federal, state, or local laws are  | rty of liability should their operations have failed to adequately investigate and ce water, human health, or the environment nor does not relieve the responsible nd/or regulations. |
| Closure Approved by: DENIED  | Date:   |
| Printed Name:  | Title:  |
|  |   |

## Federal 13-22 #2 Well Tie Pipeline Release Closure Report

Unit Letter C, Section 22, Township 28 North, Range 8 West Rio Arriba County, New Mexico

October 17, 2019

Prepared for: Enterprise Field Services, LLC 614 Reilly Avenue Farmington, New Mexico 87401

Prepared by:
Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401



Prepared for:

Enterprise Field Services, LLC 614 Reilly Avenue Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401

Heather M. Woods, P.G., Area Manager

October 17, 2019

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#### 1.0 Introduction

The Enterprise Field Services, LLC (Enterprise) Federal 13-22 #2 well tie pipeline release site is located in Unit Letter C, Section 22, Township 28 North, Range 8 West, in Rio Arriba County, New Mexico. The release was discovered on January 1, 2019, and the line was immediately isolated and depressurized.

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial image of the release location is included on Figures 1 and 2.

## 2.0 Release Summary

| Site Name   | Federal 13-22 #2 Well Tie Pipeline Release  |   |  |  |  |  |
|---|---|---|--|--|--|--|
| Site Location Description                                 | Unit Letter C, Section 22, Township 28 North, Range 8<br>West (N36.65200, W107.67178)   |   |  |  |  |  |
| Land Jurisdiction   | Bureau of Land Management (BLM)   |   |  |  |  |  |
| Discovery Date  | January 1, 2019   |   |  |  |  |  |
| Release Source  | Corrosion of well tie pipeline  |   |  |  |  |  |
| Substance(s) Released                                     | Natural gas and   | pipeline liquids                            |  |  |  |  |
| Contractor  | West States Energy Contractor  Remedial Excavation Figure 50 feet by 15 feet by feet in depth (north) and 20 feet in depth (source) |   |  |  |  |  |
| Volume of Soil<br>Transported for<br>Disposal/Remediation | Approximately<br>264 cubic<br>yards   | Envirotech Landfarm<br>(Permit #NM-01-0011) |  |  |  |  |

#### 3.0 Remediation Standards Determination

The remediation standards for the release location are determined per 19.15.29 of the New Mexico Authority Code (NMAC) and are determined by depth to groundwater with a concentration of less than 10,000 milligrams per kilogram (mg/kg) total dissolved solids (TDS) and several factors outlined in 19.15.29.12(4)(e) NMAC.

Depth to groundwater at the site is anticipated to be greater than 100 feet below grade surface (bgs) based on the local well records and the area's geology and geomorphology. Supporting documents for this determination are included in Appendix A. These supporting documents were submitted to the New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division (NMOCD) District 3 office for concurrence with the determination prior to confirmation sampling. Concurrence was granted by Mr. Cory Smith, Environmental Specialist, via email on January 15, 2019. A copy of this correspondence is included in Appendix B.



Closure criteria for the soils impacted at the release location are determined by the "greater than 100 feet" category of Table 1, 19.15.29.12 NMAC, which are as follows: 20,000 milligrams per kilogram (mg/kg) chloride per United States Environmental Protection Agency (USEPA) Method 300.0 or SM 4500-Cl B; 2,500 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and mineral oil range organics (MRO) per USEPA Method 8015M; 1,000 mg/kg TPH as GRO and DRO per USEPA Method 8015M; 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX) per USEPA Method 8021B or 8260B; and 10 mg/kg benzene per USEPA Method 8021B or 8260B.

#### 4.0 Field Activities

On January 24, 2019, Enterprise began repair and remediation activities at the location which included the replacement of approximately 40 feet of well tie pipeline. West State Energy Contractor provided heavy equipment operation and repair support. Rule Engineering, LLC (Rule) personnel provided excavation guidance and collected confirmation samples from the resultant excavation.

#### **Excavation**

Confirmation samples (SC-1 through SC-7) were collected from the excavation on January 29, 2019. Based on laboratory results, additional excavation of the southern portion of the base was performed extending that portion of the base to a depth of approximately 12 feet into hard sandstone where confirmation samples SC-9 through SC-11 were collected on January 31, 2019. Additionally, a sample from a stockpile (SC-8) was collected on the same day.

Laboratory results indicated that the southern base exceeded remediation standards and was advanced to a depth of approximately 20 feet into the hard sandstone. Having reached the limits of the equipment, sample TP-1 was collected from the base of the excavation. Due to the limits of the excavator, hardness of the rock, and proximity to other onsite equipment, it was determined that continued assessment of the site would be performed utilizing a drill rig to advance soil borings and the excavation was backfilled with clean, imported soil. The stockpile that had been sampled as SC-8 was removed to the landfarm with the remainder of the excavation spoils. Approximately 264 cubic yards of hydrocarbon impacted soils were removed from the remedial portion of the excavation measuring approximately 50 feet by 15 feet and 4 feet in depth in the north half of the excavation and up to 20 feet in depth in the south half.

A depiction of the excavation with sample locations is included as Figure 2. A copy of the executed C-138 Solid Waste Acceptance Form is included in Appendix C.

#### **Continued Assessment**

On March 15 and 16, 2019, Rule advanced five soil borings, SB-1 through SB-5, in the area of the prior excavation for the collection of soil samples utilizing a hollow-stem auger drill rig. The soil boring locations were hydro-excavated to approximately five feet bgs to ensure no underground facilities would be damaged during drilling. Sampling was



performed using split-spoon samplers at approximately 2.5 foot intervals to the total depths ranging from 25.5 feet to 30.5 feet bgs.

A depiction of the soil boring locations relative to the prior excavation location is included as Figure 3 and soil boring logs are included in as Appendix D.

## 5.0 Confirmation Soil Sampling

Rule collected confirmation soil samples (SC-1 through SC-11) from the sidewalls and bases of the remedial excavation and from the onsite stockpile on January 29 and 31, 2019. Each confirmation soil sample is a representative composite comprised of five equivalent aliquots of soil collected from the sampled area.

Samples were also collected from the soil borings (SB-1 through SB-5). A portion of each sample was field screened for volatile organic compounds (VOCs). Field screening for VOC vapors was conducted with a photoionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Laboratory samples were collected from the intervals exhibiting the highest VOC concentrations and from the deepest interval sampled.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. Samples were analyzed for BTEX per USEPA Method 8021B, TPH (GRO/DRO/MRO) per USEPA 8015M/D, and chlorides per USEPA Method 300.0, as appropriate.

A depiction of the excavation extents with sample locations is included as Figure 2 and a depiction of the soil boring locations relative to the excavation extents is included as Figure 3. Summaries of the laboratory results for excavation confirmation samples is included as Table 1 and soil borings is included as Table 2. A photograph log of the confirmation sampling areas is included in Appendix E.

## 6.0 Laboratory Analytical Results

Confirmation samples SC-1, SC-8, and SC-9, were removed by excavation and transported to the landfarm for remedation/disposal, and therefore not included in the following discussion. Laboratory analytical results for the excavation confirmation samples indicate that samples SC-3 through SC-7 and TP-1 exhibit benzene, total BTEX, and TPH, and chloride concentrations below the remediation standards. However, samples SC-2, SC-10, and SC-11 (southern base area) exhibit benzene, total BTEX, and/or TPH concentrations in excess of the remediation standards.

Additionally, laboratory analytical results for the samples collected from soil borings SB-1 through SB-5 indicate that benzene, total BTEX, and TPH are below the remediation standards, having established that chlorides were below remediation standards during excavation confirmation sampling.



Method detection limits for these constituents are below the remediation standards for all the constituents.

Laboratory analytical results are summarized in Tables 1 and 2, sample locations are illustrated on Figures 2 and 3, and the analytical laboratory reports are included in Appendix F.

#### 7.0 Conclusions

Hydrocarbon impacted soils associated with the Federal 13-22 #2 release have been excavated and transported to an approved landfarm for disposal/remediation as site conditions will allow. A small volume of residual impacted rock may be present in the southern portion of the remediation excavation area as indicated by laboratory analytical results for confirmation samples SC-2, SC-10, and SC-11. Laboratory analytical results show that chloride is below remediation standards for the excavation. To delineate the potential volume of residual BTEX and TPH impact, soil borings SB-1 was advanced as near as possible to the release location without endangering the buried pipeline, and SB-2 through SB-5 were advanced near the perimeter of the prior excavation. Laboratory analytical results for the samples collected from the soil borings report benzene, total BTEX, and TPH concentrations below the closure criteria set forth for the release indicating a minimal volume of residual impacted material may be present. Therefore, no further work is recommended.

#### 8.0 Closure and Limitations

This report has been prepared for the exclusive use of Enterprise and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with Enterprise. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.



## **Tables**



Table 1. Summary of Excavation Confirmation Laboratory Analytical Results **Enterprise Field Services** Federal 13-22 #2 Well Tie Pipeline Release **Rio Arriba County, New Mexico** 

|                |                 |   |                       | Laboratory Analytical Results |                    |                              |                             |                    |                          |                          |                          |                     |
|----------------|-----------------|---|-----------------------|-------------------------------|--------------------|------------------------------|-----------------------------|--------------------|--------------------------|--------------------------|--------------------------|---------------------|
| Sample<br>Name | Date            | Approximate<br>Sample Depth<br>(ft bgs) | Sample Location       | Benzene<br>(mg/kg)            | Toluene<br>(mg/kg) | Ethylben-<br>zene<br>(mg/kg) | Total<br>Xylenes<br>(mg/kg) | Total BTEX (mg/kg) | TPH as<br>GRO<br>(mg/kg) | TPH as<br>DRO<br>(mg/kg) | TPH as<br>MRO<br>(mg/kg) | Chloride<br>(mg/kg) |
|                | Rei             | mediation Stand                         | lard*                 | 10                            | NE                 | NE                           | NE                          | 50                 | 1,000 as (               | GRO+DRO / 2              | ,500 Total               | 20,000              |
|                |                 |   |                       |                               | Removed by         | Excavation                   |                             |                    |                          |                          |                          |                     |
| SC-1           | 1/29/2019       | 5                                       | South Base            | <0.88                         | 27                 | 9.7                          | 130                         | 167                | 2,000                    | 740                      | <48                      | <60                 |
| SC-8           | 1/31/2019       |   | Stockpile             | 14                            | 210                | 44                           | 400                         | 668                | 9,800                    | 220                      | <47                      |                     |
| SC-9           | 1/31/2019       | 10 - 12                                 | South Base            | 23                            | 310                | 64                           | 560                         | 960                | 15,000                   | 290                      | <48                      |                     |
|                |                 |   |                       | Exca                          | vation Confi       | rmation Sam                  | ples                        |                    |                          |                          |                          |                     |
| SC-2           | 1/29/2019       | 0 - 5                                   | East Wall - South     | 1.3                           | 42                 | 11                           | 140                         | 194                | 2,100                    | 280                      | <48                      | <60                 |
| SC-3           | 1/29/2019       | 0 - 5                                   | West Wall - South     | <0.13                         | 1.6                | 0.91                         | 13                          | 16                 | 170                      | 92                       | <48                      | <60                 |
| SC-4           | 1/29/2019       | 0 - 5                                   | South Wall            | <0.11                         | <0.21              | <0.21                        | 0.46                        | 0.46               | <21                      | 15                       | <48                      | <60                 |
| SC-5           | 1/29/2019       | 4                                       | North Base            | <0.019                        | 0.082              | <0.039                       | 0.23                        | 0.31               | <3.9                     | <9.8                     | <49                      | <60                 |
| SC-6           | 1/29/2019       | 0 - 4                                   | East Wall - North     | <0.022                        | <0.044             | <0.044                       | <0.087                      | ND                 | <4.4                     | <9.9                     | <49                      | <60                 |
| SC-7           | 1/29/2019       | 0 - 4                                   | West Wall - North     | <0.023                        | <0.046             | <0.046                       | <0.092                      | ND                 | <4.6                     | 24                       | <47                      | <60                 |
| SC-10          | 1/31/2019       | 6 - 12                                  | West Wall - Mid/South | 13                            | 200                | 42                           | 380                         | 635                | 8,800                    | 210                      | <47                      |                     |
| SC-11          | 1/31/2019       | 6 - 12                                  | East Wall - Mid/South | 3.7                           | 71                 | 19                           | 190                         | 284                | 4,600                    | 330                      | <49                      |                     |
| TP-1           | 2/5/2019        | 20                                      | South Base            | <0.048                        | 1.2                | 0.66                         | 7.3                         | 9.2                | 110                      | <9.8                     | <49                      |                     |
| Notes:         | ft bgs - feet b | elow grade surfa                        | ice                   |                               | TPH - total p      | etroleum hydro               | ocarbons                    |                    |                          |                          |                          |                     |

mg/kg - milligrams per kilogram

GRO - gasoline range organics

NE - not established

DRO - diesel range organics

ND - not detected above laboratory reporting limits

MRO - mineral oil range organics

\*Per Table 1 of 19.15.29.12 NMAC, based on category "greater than 100 feet" depth to groundwater



Table 2. Summary of Soil Boring Laboratory Analytical Results Enterprise Field Services Federal 13-22 #2 Well Tie Pipeline Release Rio Arriba County, New Mexico

|                |               |   | Field<br>Screening | Laboratory Analytical Results |                    |                              |                             |                    |                          |                          |                          |
|----------------|---------------|---|--------------------|-------------------------------|--------------------|------------------------------|-----------------------------|--------------------|--------------------------|--------------------------|--------------------------|
| Sample<br>Name | Date          | Approximate<br>Sample Depth<br>(ft bgs) | VOCs by PID (ppm)  | Benzene<br>(mg/kg)            | Toluene<br>(mg/kg) | Ethylben-<br>zene<br>(mg/kg) | Total<br>Xylenes<br>(mg/kg) | Total BTEX (mg/kg) | TPH as<br>GRO<br>(mg/kg) | TPH as<br>DRO<br>(mg/kg) | TPH as<br>MRO<br>(mg/kg) |
| Rer            | nediation Sta |   |                    | 10                            | NE                 | NE                           | NE                          | 50                 | 1.000 as 0               | GRO+DRO / 2              | .500 Total               |
|                |               | 20                                      | 1,322              | <0.24                         | 5.5                | 2.7                          | 29                          | 37                 | 520                      | 27                       | <49                      |
|                |               | 22.5                                    | 1,709              | <0.050                        | 0.11               | <0.099                       | 0.89                        | 1.00               | 41                       | <9.6                     | <48                      |
| SB-1           | 4/16/2019     | 25                                      | 596                |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 30                                      | 183                | <0.024                        | <0.048             | <0.048                       | <0.096                      | ND                 | <4.8                     | 18                       | <49                      |
|                |               | 7.5                                     | 147                |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 10                                      | 292                | <0.024                        | <0.047             | <0.047                       | <0.095                      | ND                 | <4.7                     | 10                       | <46                      |
|                |               | 12.5                                    | 104                | -                             |                    |                              |                             |                    |                          |                          |                          |
| SB-2           | 4/16/2019     | 15                                      | 162                | <0.024                        | <0.048             | <0.048                       | <0.095                      | ND                 | <4.8                     | <9.8                     | <49                      |
|                |               | 17.5                                    | 119                | -                             |                    |                              |                             |                    |                          |                          |                          |
|                |               | 20                                      | 13.3               |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 25                                      | 36.2               | <0.024                        | <0.048             | <0.048                       | <0.095                      | ND                 | <4.8                     | <10                      | <50                      |
|                |               | 7.5                                     | 64.1               |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 10                                      | 172                |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 12.5                                    | 371                | <0.025                        | <0.050             | <0.050                       | <0.10                       | ND                 | <5.0                     | <9.7                     | <49                      |
| SB-3           | 4/16/2019     | 15                                      | 137                |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 17.5                                    | 125                | -                             |                    |                              |                             |                    |                          |                          |                          |
|                |               | 20                                      | 156                | <0.024                        | <0.047             | <0.047                       | <0.095                      | ND                 | <4.7                     | <9.8                     | <49                      |
|                |               | 25                                      | 77.8               | <0.023                        | <0.047             | <0.047                       | <0.093                      | ND                 | <4.7                     | <9.6                     | <48                      |
|                |               | 7.5                                     | 59.2               | 1                             |                    |                              | -                           |                    |                          | -                        |                          |
|                |               | 10                                      | 25.5               | -                             |                    |                              | -                           |                    |                          |                          |                          |
|                |               | 12.5                                    | 274                | <0.024                        | <0.048             | <0.048                       | <0.097                      | ND                 | <4.8                     | <9.5                     | <47                      |
| SB-4           | 4/15/2019     | 15                                      | 73.2               |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 17.5                                    | 131                |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 20                                      | 148                | <0.025                        | <0.050             | <0.050                       | <0.10                       | ND                 | <5.0                     | <9.1                     | <46                      |
|                |               | 25                                      | 108                | <0.025                        | <0.050             | <0.050                       | <0.099                      | ND                 | <5.0                     | <9.7                     | <48                      |
|                |               | 7.5                                     | 26.4               |                               |                    |                              |                             |                    |                          |                          |                          |
| SB-5           |               | 10                                      | 94.3               |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 15                                      | 167                |                               |                    |                              |                             |                    |                          |                          |                          |
|                | 4/15/2019     | 17.5                                    | 252                | <0.024                        | <0.048             | <0.048                       | <0.096                      | ND                 | <4.8                     | <9.8                     | <49                      |
|                | ., 10, 2010   | 20                                      | 160                |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 22.5                                    | 216                |                               |                    |                              |                             |                    |                          |                          |                          |
|                |               | 25                                      | 303                | <0.025                        | <0.050             | <0.050                       | <0.099                      | ND                 | <5.0                     | <9.6                     | <48                      |
|                |               | 30                                      | 32.2               | <0.025                        | <0.049             | <0.049                       | <0.099                      | ND                 | <4.9                     | <9.5                     | <47                      |

Notes:

ft bgs - feet below grade surface

mg/kg - milligrams per kilogram

NE - not established

ND - not detected above laboratory reporting limits

BTEX - total benzene, toluene, ethylbenzene, and xylenes

VOC - volitile organic compounds

\*Per Table 1 of 19.15.29.12 NMAC, based on category "greater than 100 feet" depth to groundwater

PID - photoionization detector

ppm - parts per million

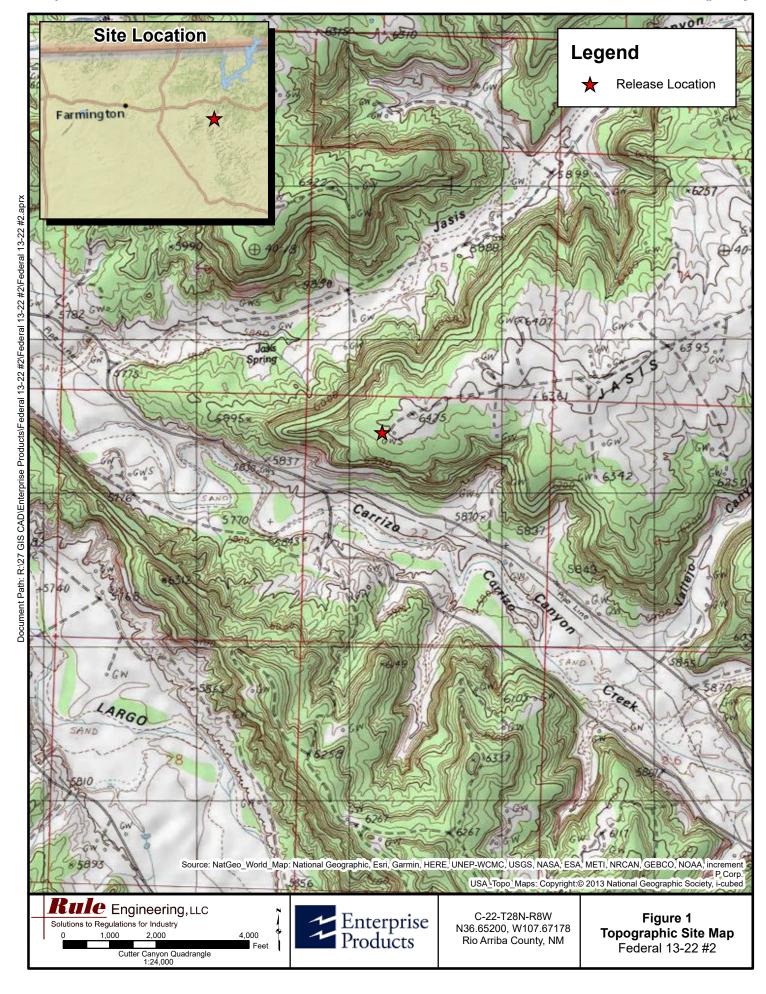
TPH - total petroleum hydrocarbons GRO - gasoline range organics DRO - diesel range organics

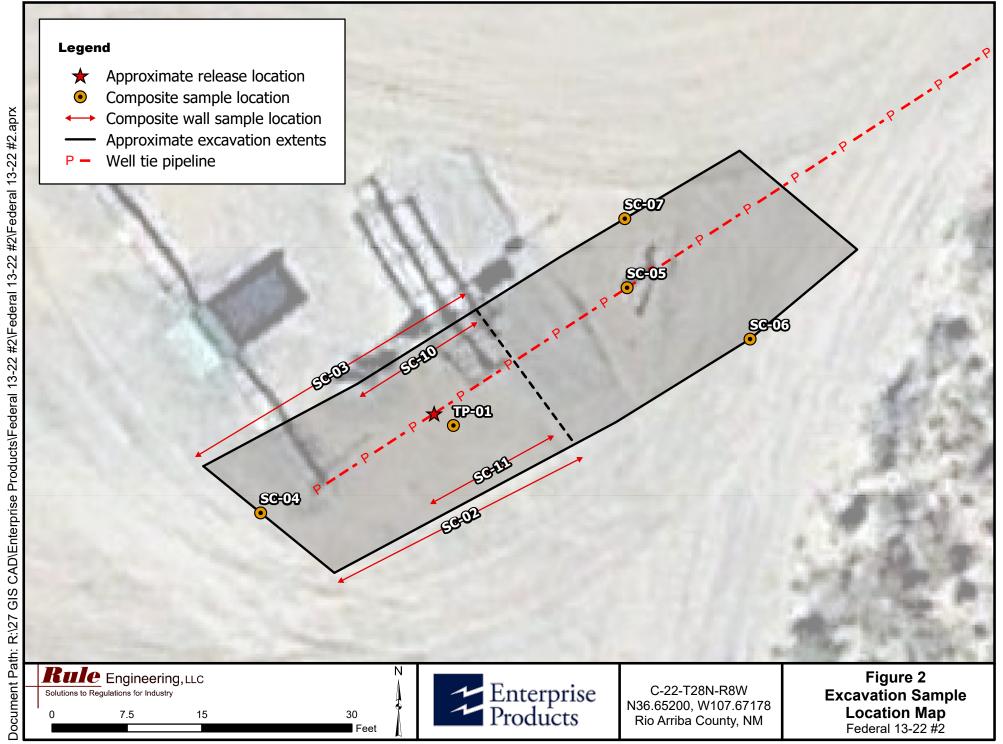
MRO - mineral oil range organics



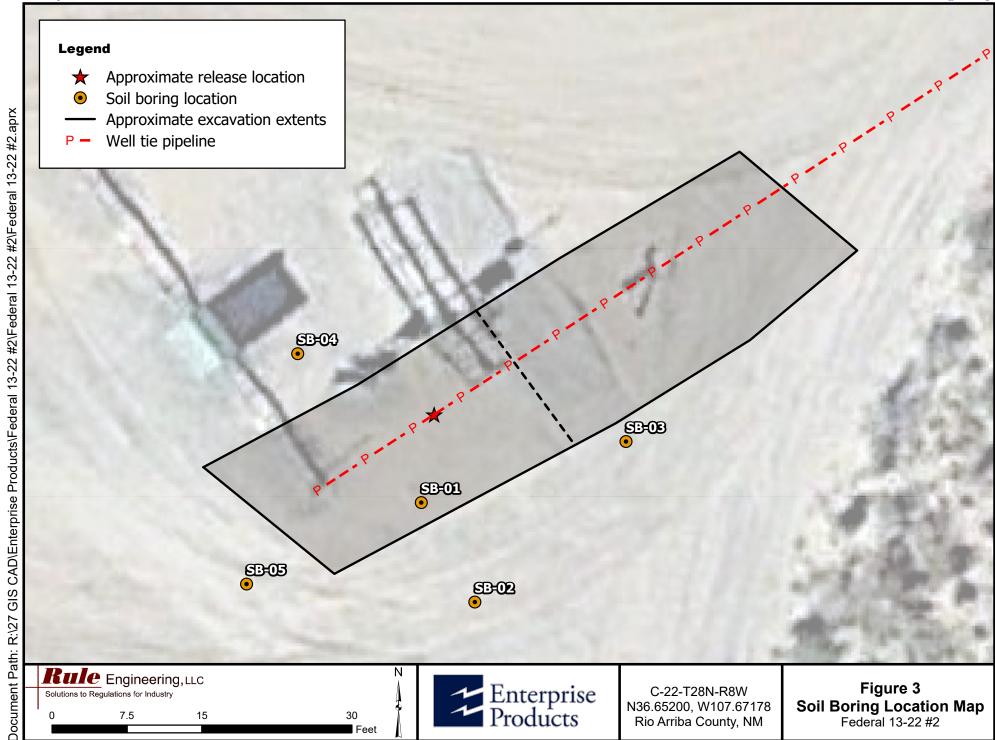
**Figures** 







Date: 10/17/2019



Date: 10/17/2019

## Appendix A

Closure Criteria Determination Documents



## Federal 13-22 #2 Well Tie Hydrogeologic Information

Depth to groundwater is anticipated to be greater than 100 feet below ground surface. This is based on the depth to groundwater of 480 feet reported for registered water well SJ 02283, located approximately 1.5 miles to the northeast and about 50 feet lower in elevation. Additionally, the Carrizo Wash located approximately 1,550 feet south of the release location is approximately 610 feet below the site in elevation.

The Jasis Spring is located approximately 0.5 mile to the northwest of the location.

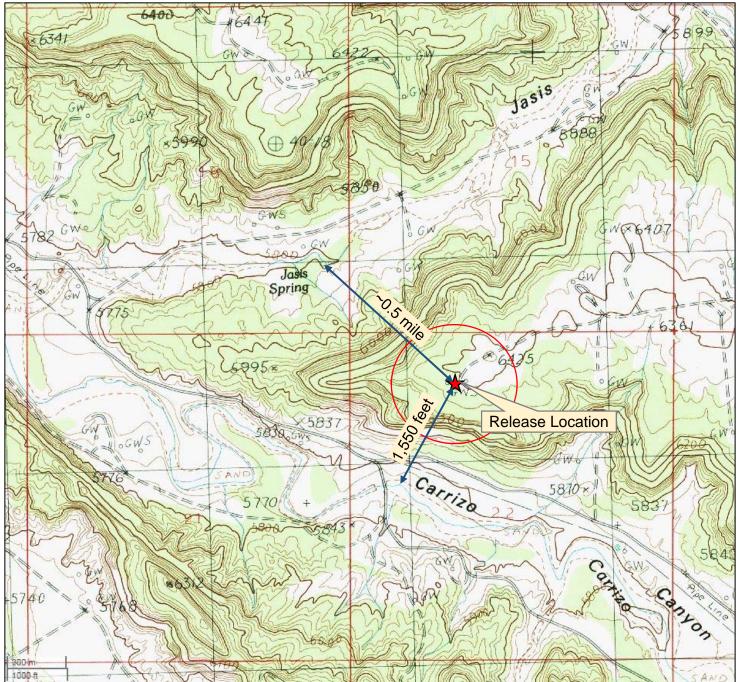
The nearest significant watercourse is the Carrizo Wash located approximately 1,550 feet south of the location.

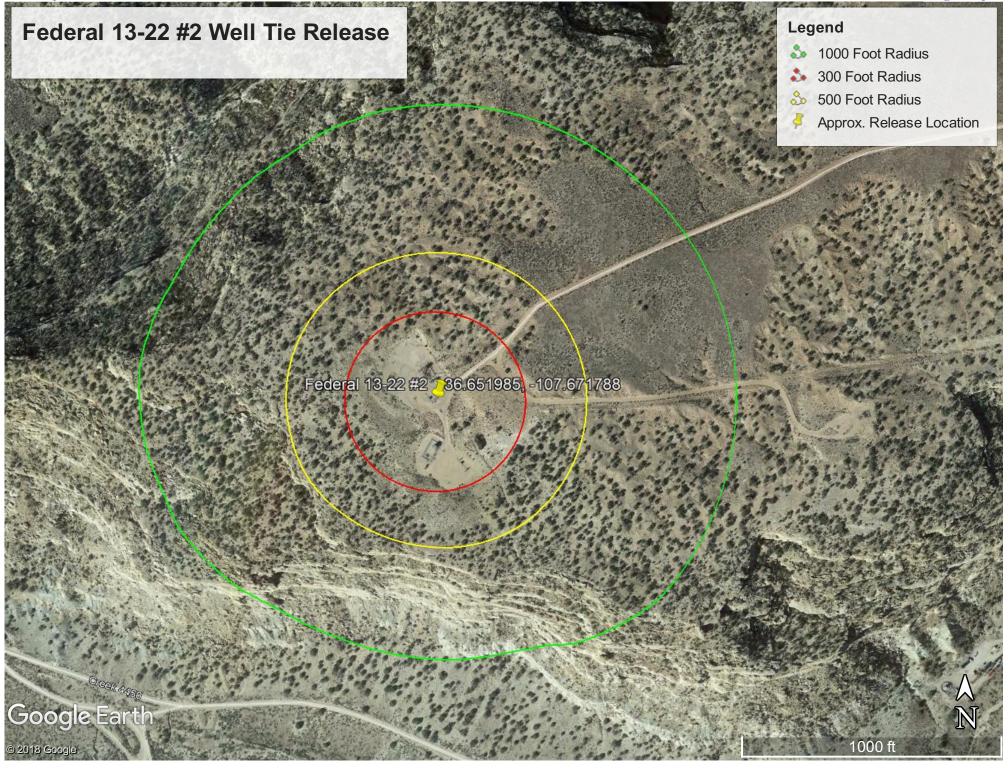
There are no water wells registered within 0.5 mile of the location.

The site is not within 300 feet of a wetland and is not within a 100-year floodplain.

The site is underlain by the Tertiary San Jose Formation which does have karst features.

Figure 1. Topographic Map







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

No records found.

**UTMNAD83 Radius Search (in meters):** 

Easting (X): 261169.68 Northing (Y): 4059594.58 Radius: 805



## New Mexico Office of the State Engineer

## **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng

 $\mathbf{X}$ 

SJ 02283

2 4 14 28N 08W

263604 4060474\*

**Driller License:** 

**Driller Company:** 

**Driller Name:** 

CHIVERA DRILLING CO.

CHIVERS BRYCE J.

**Drill Start Date:** 

06/07/1990

**Drill Finish Date:** 

06/10/1990

Plug Date:

Log File Date:

06/25/1990

**PCW Rcv Date:** 

Source:

Shallow Estimated Yield: 5 GPM

**Pump Type:** Casing Size:

\*UTM location was derived from PLSS - see Help

Pipe Discharge Size: Depth Well:

540 feet

Depth Water:

480 feet

Water Bearing Stratifications:

Top Bottom Description

512 Shale/Mudstone/Siltstone 510

Top

**Casing Perforations:** 

Bottom 510 530

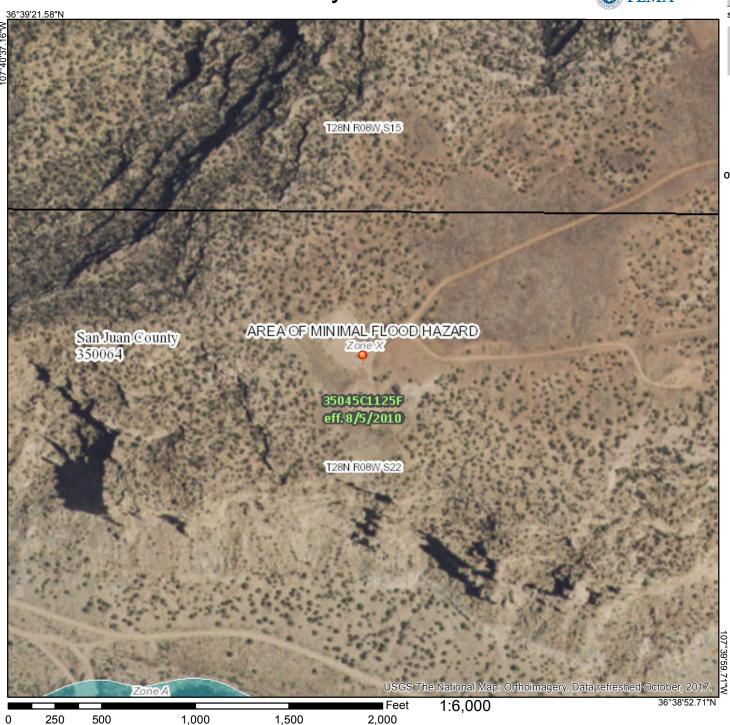
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/14/19 3:55 PM

POINT OF DIVERSION SUMMARY

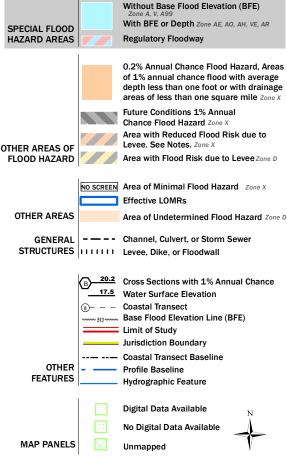
## National Flood Hazard Layer FIRMette





#### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



9

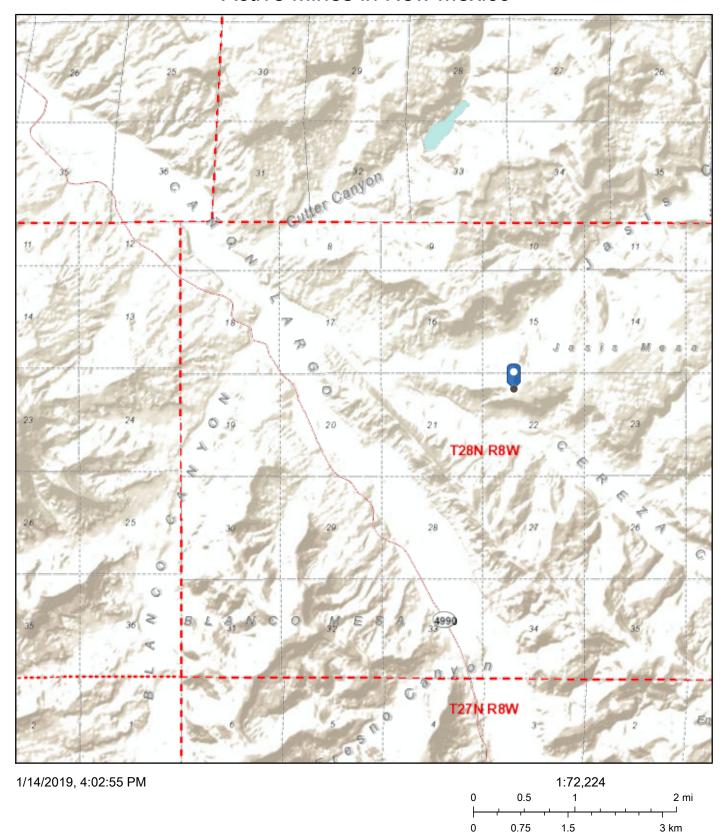
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/14/2019 at 5:59:27 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

## Active Mines in New Mexico



Bureau of Land Management Geographic Coordinate Database, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

# Appendix B NMOCD Correspondence



#### **Heather Woods**

From: Long, Thomas <tjlong@eprod.com>
Sent: Tuesday, January 15, 2019 8:20 AM

To: Heather Woods

**Subject:** FW: [EXT] RE: Federal 13-22#2 - UL C Section 22 T28N R8W; 36.651985, -107.671788

FYI

Tom Long 505-599-2286 (office) 505-215-4727 (Cell)

tjlong@eprod.com

From: Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

**Sent:** Tuesday, January 15, 2019 8:18 AM

To: Long, Thomas <tjlong@eprod.com>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>; 'l1thomas@blm.gov'

<l1thomas@blm.gov>

Cc: Stone, Brian <br/>
<br/>
Stone@eprod.com>

Subject: RE: [EXT] RE: Federal 13-22#2 - UL C Section 22 T28N R8W; 36.651985, -107.671788

Tom,

I would concur based on the data Enterprise provided it appears the closure standards Enterprise determined is correct.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas < tilong@eprod.com > Sent: Tuesday, January 15, 2019 7:58 AM

To: Smith, Cory, EMNRD < <a href="mailto:Cory.Smith@state.nm.us">Cory.Smith@state.nm.us</a>; Fields, Vanessa, EMNRD < <a href="mailto:Vanessa.Fields@state.nm.us">Vanessa.Fields@state.nm.us</a>;

'l1thomas@blm.gov' < <a href="mailto:l1thomas@blm.gov">l1thomas@blm.gov</a> > Cc: Stone, Brian < <a href="mailto:bmstone@eprod.com">bmstone@eprod.com</a> >

Subject: [EXT] RE: Federal 13-22#2 - UL C Section 22 T28N R8W; 36.651985, -107.671788

Cory,

In the event that this release become reportable, please find the attached siting criteria package. Do you concur that this release site would fall under the Tier III remediation standards (Benzene = 10 ppm, BTEX = 50 ppm, TPH = 2,500 ppm, GRO+DRO = 1,000 ppm and Chloride = 20,000 ppm) where groundwater is greater than 100 feet below ground surface? Please let me know your thoughts.

Sincerely,

Tom Long 505-599-2286 (office) 505-215-4727 (Cell)

tjlong@eprod.com

From: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

Sent: Friday, January 11, 2019 7:40 AM

To: Long, Thomas <tilong@eprod.com>; Fields, Vanessa, EMNRD <<u>Vanessa.Fields@state.nm.us</u>>; 'l1thomas@blm.gov'

<l1thomas@blm.gov>

Cc: Stone, Brian <br/>
<br/>
Stone@eprod.com>

Subject: RE: Federal 13-22#2 - UL C Section 22 T28N R8W; 36.651985, -107.671788

Tom,

Thank you for the notification, please respond to the release per <u>19.15.29.8</u> NMAC. If the release is reportable please let us know as soon as possible.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Long, Thomas < tilong@eprod.com > Sent: Thursday, January 10, 2019 2:53 PM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>;

'l1thomas@blm.gov' < <a href="mailto:l1thomas@blm.gov">l1thomas@blm.gov</a> **Cc:** Stone, Brian < bmstone@eprod.com>

Subject: [EXT] Federal 13-22#2 - UL C Section 22 T28N R8W; 36.651985, -107.671788

Cory/Whitney,

This email is a courtesy notification that Enterprise had a release of natural gas and natural gas liquids on the Federal 13-22#2 pipeline today. The pipeline was isolated, depressurized, locked out and tagged out. An area of approximately two feet in diameter was impacted by the released fluids. Enterprise has not yet determined this release reportable per NMOCD regulation. The release is located at UL C Section 22 T28N R8W; 36.651985, -107.671788. I will keep you informed as to the reporting status and the field work. If you have any questions, please call or email.

Sincerely,

Thomas J. Long
Senior Environmental Scientist
Enterprise Products Company
614 Reilly Ave.
Farmington, New Mexico 87401

505-599-2286 (office) 505-215-4727 (Cell) tjlong@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

## Appendix C

Executed C-138 Soil Waste Acceptance Form



cDistrict 1
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 97057 - 0989 Revised August 1, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 \*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

|      | REQUEST FOR ATTROVAL TO ACCELT  | SOLID WASTE  |
|------|---|--|
| 2.   | Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401   | Invoice Information:<br>AFE: N40090<br>PM: Miles Moore<br>Pay Key: RB21200                   |
| 3.   | Originating Site:<br>Federal 13-22#2  |  |
| 4.   | Location of Material (Street Address, City, State or ULSTR):<br>UL C Section 22 T28N R8W; 36.651985, -107.671788  | Jan. 1 Feb. 2019   |
| 4.   | Source and Description of Waste: Hydrocarbon/Methanol impacted soil from remed  | iation activities associated with a natural gas  |
| 5.   | meter tube release.  Estimated Volume 20 (yd³) bbls Known Volume (to be entered by the operations)  |  |
| 5.   | GENERATOR CERTIFICATION STATEMENT OF W  |  |
| cert | representative or authorized agent for Enterprise Field SPANY & SIGN NAME  COMPANY NA ify that according to the Resource Conservation and Recovery Act (RCRA) and the US ulatory determination, the above described waste is: (Check the appropriate classification           | ME<br>Environmental Protection Agency's July 1988  |
|      | RCRA Exempt: Oil field wastes generated from oil and gas exploration and prodexempt waste.  Operator Use Only: Waste Acceptance Frequency   Monthly   | uction operations and are not mixed with non-    Weekly   Per Load                           |
|      | RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed haza subpart D, as amended. The following documentation is attached to demonstrate the atthe appropriate items) | ordous waste as defined in 40 CFR, part 261.   |
|      | MSDS Information RCRA Hazardous Waste Analysis  Process Knowledge   | •  |
|      | GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATE   | EMENT FOR LANDFARMS  |
| . /  | Than Loy  |  |
| Gen  | How Lay 1-14-19, representative for Enterprise Field Services, LLC authorize Envi   | rotech, Inc. to  |
|      | plete the required testing/sign the Generator Waste Testing Certification.  |  |
|      | R = R / L   |  |
| I, _ | resentative samples of the oil field waste have been subjected to the paint filter test and   | c. do hereby certify that  |
| hav  | eschalive samples of the off field waste have been subjected to the paint fifter test and been found to conform to the specific requirements applicable to landfarms pursuant   | tested for chloride content and that the samples to Section 15 of 19 15 36 NMAC. The results |
| of t | he representative samples are attached to demonstrate the above-described waste confo   | rm to the requirements of Section 15 of  |
| 6.   | Transporter: TBD Prado Farms, West States   |  |
|      | Permitted Surface Waste Management Facility   |  |
|      | e and Facility Permit #: Envirotech, Inc. Soil Remediation Facility * Permit #: NM ess of Facility: Hilltop, NM   | 01-0011  |
| Meth | od of Treatment and/or Disposal:    Evaporation   Injection   Treating Plant   Landfarm   | Landfill  Other  |
| Was  | te Acceptance Status:  APPROVED   DENIEI  | ) (Must Be Maintained As Permanent Record)   |
| PRIN | IT NAME: GVA A Combree TITLE: FAULUS MA   | ininger Date: 1/25/19  |
|      | NATURE: TELEPHONE NO.:  | · ·  |

Appendix D

Photograph Log



#### Photograph Log Federal 13-22 #2 Well Tie Pipeline Release Enterprise Field Services, LLC



Photograph #1

Client: Enterprise

Site Name:

Federal 13-22 #2 Well Tie Pipeline Release

Date Photo Taken: January 29, 2019

Release Location: N36.65200, W107.67178

C-22-28N-8W Rio Arriba County, NM

Photo Taken by: Heather Woods

Description: Facing north, view of the excavation extents, repaired pipeline, and confirmation sampling areas on January 29, 2019.

Photograph #2

Client: Enterprise

Site Name:

Federal 13-22 #2 Well Tie Pipeline Release

Date Photo Taken: January 29, 2019

Release Location: N36.65200, W107.67178

C-22-28N-8W Rio Arriba County, NM

Photo Taken by: Heather Woods



Description: Facing south, view of the excavation extents, repaired pipeline, and confirmation sampling areas on January 29, 2019.

#### Photograph Log Federal 13-22 #2 Well Tie Pipeline Release Enterprise Field Services, LLC



Photograph #3

Client: Enterprise

Site Name:

Federal 13-22 #2 Well Tie Pipeline Release

Date Photo Taken: January 31, 2019

Release Location: N36.65200, W107.67178

C-22-28N-8W Rio Arriba County, NM

Photo Taken by: Heather Woods



Description: Facing south, view of the excavation extents and confirmation sampling areas on January 31, 2019.

Photograph #4

Client: Enterprise

Site Name:

Federal 13-22 #2 Well Tie Pipeline Release

Date Photo Taken: February 5, 2019

Release Location: N36.65200, W107.67178

C-22-28N-8W Rio Arriba County, NM

Photo Taken by: Heather Woods



Description: Facing north, view of the final excavation extents in the sample area TP-1. The base is approximately 20 feet below ground surface.

Appendix E

Soil Boring Logs



| Rule Engineering, LLC BOREHOLE NO.: SB-01    |  |   |                           |   |                        |  |  |
|--|--|---|---------------------------|---|------------------------|--|--|
| Solutions to Regulations fo                  | Industry   |   | 20.12.                    |   | Page 1 of 1            |  |  |
| DRILLING CO.: HRL C<br>DATE DRILLED: 4/16/19 | rise Products ompliance Solution  I 13-22 #2  in in ft | PROJECT #: ns LOGGED BY: DRILLER: DRILLING METHOD: SCREEN: CAS LENGTH: WELL DEPTH: SAMPLING METHOD: | NA ft<br>NA ft<br>30.5 ft | NORTHING: EASTING: SURFACE ELEV CASING ELEV: SLOT SIZE: TYPE: BORING DIAM: DEPTH TO GW: | NA ft NA in NA 7.25 in |  |  |
| DEPTH WELL SOIL BLO (ft BGS) LOG LOG / ft    |  | s   | SOIL DESCRIPTION          |   |                        |  |  |
| 0  |  | SC: Excavation backfill, clayey grained, no odor, no staining.  Sandstone: Orange brown, moi        | silty sand (SC-SM), r     |   |                        |  |  |
| NOTES: Boring only                           |  |   |                           |   |                        |  |  |

| <b>Rule</b> Engineering, шс         |                    |                           |                            |                   |          |   | BOREHOLE NO.: SB-02                         |   |                   |
|-------------------------------------|--------------------|---------------------------|----------------------------|-------------------|----------|---|---|---|-------------------|
| Solui                               | tions to Re        | gulatio                   | ons for Indi               | ustry             | ,        |   |   |   | Page 1 of 1       |
| DATE I<br>LOCAT<br>SCREE            | NG CO.:<br>DRILLED | HI<br>0: 4/<br>Fe<br>: N/ | 16/19<br>ederal 13<br>A in | oliance<br>-22 #2 | Solutior | PROJECT #:  IS LOGGED BY:  DRILLER:  DRILLING METHOD:  SCREEN:  CAS LENGTH: | 368.038 H. Woods K. Padilla HSA NA ft NA ft | NORTHING: EASTING: SURFACE ELEV CASING ELEV: SLOT SIZE: TYPE: |                   |
| BORING DEPTH: 25.5 ft WELL TYPE: NA |                    |                           |                            |                   |          | WELL DEPTH:<br>SAMPLING METHOD  | 25.5 ft                                     | BORING DIAM:<br>DEPTH TO GW:                                  | 7.25 in           |
| DEPTH<br>(ft BGS)                   | WELL               | SOIL                      | BLOWS<br>/ ft.             | PID<br>ppm        | %<br>REC | \$  | SOIL DESCRIPTION                            |   |                   |
| 0 -                                 |                    |                           |                            |                   |          | Removed by hydrovac.  |   |   |                   |
| 2-                                  |                    |                           |                            |                   |          |   |   |   |                   |
| 6-                                  |                    |                           |                            |                   | _        | Sandstone: light tan, slightly m  | oist, very fine grained                     | , slight odor, no stainin                                     | ng.               |
| 8 –                                 |                    |                           |                            | 147               |          |   |   |   |                   |
| 10 -                                |                    |                           |                            | 292               |          |   |   |   |                   |
| 12 -                                |                    |                           |                            | 104               |          |   |   |   |                   |
| 16 –                                |                    |                           |                            | 162               |          | Sandstone: Orange brown, sliç   | ghtly moist, very fine to                   | o fine grained, slight oc                                     | dor, no staining. |
| 18 -                                |                    |                           |                            | 119               |          |   |   |   |                   |
| 20 -                                |                    |                           |                            | 13.3              |          |   |   |   |                   |
| 22 -                                |                    |                           |                            |                   |          |   |   |   |                   |
| 24 -                                |                    |                           |                            | 36.2              |          |   |   |   |                   |
| NOTES: Boring only                  |                    |                           |                            |                   |          |   |   |   |                   |

| R                 | ule                | Er                | nginee             | erina.            | . LLC    |  | BORE  | HOLE NO.: S   | SB-03          |
|-------------------|--------------------|-------------------|--------------------|-------------------|----------|--|---|---|----------------|
| Solut             | tions to Re        | gulatio           | ons for Indi       | ustry             |          |  |   |   | Page 1 of 1    |
| DATE I            | NG CO.:<br>DRILLED | HI<br>): 4/<br>Fe | 16/19<br>ederal 13 | oliance<br>-22 #2 |          | PROJECT #: ns LOGGED BY: DRILLER: DRILLING METHOD: SCREEN: | 368.038<br>H. Woods<br>K. Padilla<br>HSA<br>NA ft | NORTHING:<br>EASTING:<br>SURFACE ELEV<br>CASING ELEV:<br>SLOT SIZE: |                |
| CASIN             | G DIAM:<br>G DEPT  | N                 | A in<br>5.5 ft     | 1                 |          | CAS LENGTH:<br>WELL DEPTH:<br>SAMPLING METHOD              | NA ft<br>25.5 ft                                  | TYPE:<br>BORING DIAM:<br>DEPTH TO GW:                               | NA<br>7.25 in  |
| DEPTH<br>(ft BGS) | WELL               | SOIL              | BLOWS<br>/ ft.     | PID<br>ppm        | %<br>REC |  | SOIL DESCRIPTION                                  |   |                |
| 0 _               |                    |                   |                    |                   |          | Removed by hydrovac.                                       |   |   |                |
| 2-                |                    |                   |                    |                   |          |  |   |   |                |
| 6 –               |                    |                   |                    |                   | _        | Sandstone: light tan, slightly m                           | noist, very fine grained                          | I, no odor, no staining.  |                |
| 8 –               |                    |                   |                    | 61.4              |          |  |   |   |                |
| 10 -              |                    |                   |                    | 172               |          |  |   |   |                |
| 12 -              |                    |                   |                    | 371               |          |  |   |   |                |
| 16 –              |                    |                   |                    | 137               |          |  |   |   |                |
| 18 -              |                    |                   |                    | 125               |          |  |   |   |                |
| 20 -              |                    |                   |                    | 156               |          | Sandstone: Oronge bysum - "                                | whith maint year fire -                           | o fine grained as ad-   | no staining    |
| 22 -              |                    |                   |                    |                   |          | Sandstone: Orange brown, slig                              | ynuy moist, very tine t                           | o iirie grained, no odor  | , no staining. |
| 24 –              |                    |                   |                    | 77.8              |          |  |   |   |                |
|                   | S: Borin           | ıg on             | ly                 |                   |          |  |   |   |                |

| R                               | ule   | F                    | nginee                           |                   | ПС       |   | BORE                      | HOLE NO.: S   | B-04                   |
|---------------------------------|---|----------------------|----------------------------------|-------------------|----------|---|---------------------------|---|------------------------|
| Solut                           | ions to Re  | gulatio              | ons for Indi                     | ustry             | , LLC    |   |                           |   | Page 1 of 1            |
| DATE DATE DE LOCAT SCREE CASINO | NG CO.:<br>DRILLED<br>ION:<br>N DIAM<br>G DIAM:<br>G DEPT | H): 4/<br>Fe<br>: N/ | 15/19 ederal 13 A in A in 5.5 ft | oliance<br>-22 #2 | Solutio  | PROJECT #: ns LOGGED BY: DRILLER: DRILLING METHOD: SCREEN: CAS LENGTH: WELL DEPTH: SAMPLING METHOD: | NA ft<br>NA ft<br>25.5 ft | NORTHING: EASTING: SURFACE ELEV CASING ELEV: SLOT SIZE: TYPE: BORING DIAM: DEPTH TO GW: | NA ft NA in NA 7.25 in |
| DEPTH<br>(ft BGS)               | WELL<br>LOG   | SOIL                 | BLOWS<br>/ ft.                   | PID<br>ppm        | %<br>REC | \$  | SOIL DESCRIPTION          |   |                        |
| 0 _                             |   |                      |                                  |                   |          | Removed by hydrovac.  |                           |   |                        |
| 2-                              |   |                      |                                  |                   |          |   |                           |   |                        |
| 4 -                             |   | • •                  |                                  |                   | _        | Sandstone: light tan, slightly me   | oiet very fine grained    | no odor, no staining  |                        |
| 6 –                             |   |                      |                                  |                   |          | Sandstone. light tan, slightly me   | oist, very fille grained  | , no odor, no staining.   |                        |
| 8 –                             |   |                      |                                  | 59.2              |          |   |                           |   |                        |
| 10 -                            |   |                      |                                  | 25.5              |          |   |                           |   |                        |
| 12 -                            |   |                      |                                  | 274               |          |   |                           |   |                        |
| 14 -                            |   |                      |                                  | 73.2              |          |   |                           |   |                        |
| 18 -                            |   |                      |                                  | 131               |          |   |                           |   |                        |
| 20 -                            |   |                      |                                  | 148               |          | Sandstone: Orange brown, slig   | htly moist, very fine to  | o fine grained, no odor   | , no staining.         |
| 22 -                            |   |                      |                                  |                   |          |   |                           |   |                        |
| 24 -                            |   |                      |                                  | 100               |          |   |                           |   |                        |
| 26 –                            |   | • •                  |                                  | 108               |          |   |                           |   |                        |
| NOTES                           | S: Borin  | ng on                | ıly                              |                   |          |   |                           |   |                        |

|   | Engineering, I                                | 10  | BORF                      | HOLE NO.: S   | SB-05                  |
|---|---|---|---------------------------|---|------------------------|
| Solutions to Regulat  | tions for Industry                            |   |                           |   | Page 1 of 1            |
| DRILLING CO.: H DATE DRILLED: 4 LOCATION: F SCREEN DIAM: N CASING DIAM: N BORING DEPTH: 3 | 1/15/19<br>Federal 13-22 #2<br>NA in<br>NA in | PROJECT #: olutions LOGGED BY: DRILLER: DRILLING METHOD: SCREEN: CAS LENGTH: WELL DEPTH: SAMPLING METHOD: | NA ft<br>NA ft<br>30.5 ft | NORTHING: EASTING: SURFACE ELEV CASING ELEV: SLOT SIZE: TYPE: BORING DIAM: DEPTH TO GW: | NA ft NA in NA 7.25 in |
| DEPTH WELL SOII<br>(ft BGS) LOG LOG   |   | % REC S   | SOIL DESCRIPTION          |   |                        |
| 0   | 26.4<br>94.3                                  | Removed by hydrovac.  Sandstone: light tan, slightly mo   | oist, very fine grained.  | , no odor, no staining.   |                        |
| 20 -<br>22 -<br>24 -<br>26 -<br>28 -<br>30 -<br>32 -                                      | 160<br>216<br>303                             | Sandstone: Orange brown, slig   | htly moist, very fine to  | o fine grained, no odor   | , no staining.         |
| NOTES: Boring o   | nly   |   |                           |   |                        |

Enterprise Field Services, LLC Federal 13-22 #2 Well Tie Pipeline Release Closure Report

# Appendix F Analytical Laboratory Reports





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

February 01, 2019

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055

FAX

RE: Enterprise Federal 13 22 2 OrderNo.: 1901B10

#### Dear Heather Woods:

Hall Environmental Analysis Laboratory received 7 sample(s) on 1/30/2019 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/1/2019

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

ngineering LLC Client Sample ID: SC-1

 Project:
 Enterprise Federal 13 22 2
 Collection Date: 1/29/2019 10:40:00 AM

 Lab ID:
 1901B10-001
 Matrix: SOIL
 Received Date: 1/30/2019 8:00:00 AM

| Analyses                             | Result | PQL      | Qual | Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |      |       |    | Analyst               | : smb |
| Chloride                             | ND     | 60       |      | mg/Kg | 20 | 1/30/2019 12:22:56 PM | 42885 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |      |       |    | Analyst               | : Irm |
| Diesel Range Organics (DRO)          | 740    | 9.6      |      | mg/Kg | 1  | 1/30/2019 10:15:24 AM | 42884 |
| Motor Oil Range Organics (MRO)       | ND     | 48       |      | mg/Kg | 1  | 1/30/2019 10:15:24 AM | 42884 |
| Surr: DNOP                           | 96.4   | 50.6-138 |      | %Rec  | 1  | 1/30/2019 10:15:24 AM | 42884 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analyst               | : NSB |
| Gasoline Range Organics (GRO)        | 2000   | 180      |      | mg/Kg | 50 | 1/30/2019 11:35:09 AM | 42861 |
| Surr: BFB                            | 304    | 73.8-119 | S    | %Rec  | 50 | 1/30/2019 11:35:09 AM | 42861 |
| EPA METHOD 8021B: VOLATILES          |        |          |      |       |    | Analyst               | : NSB |
| Benzene                              | ND     | 0.88     |      | mg/Kg | 50 | 1/30/2019 11:35:09 AM | 42861 |
| Toluene                              | 27     | 1.8      |      | mg/Kg | 50 | 1/30/2019 11:35:09 AM | 42861 |
| Ethylbenzene                         | 9.7    | 1.8      |      | mg/Kg | 50 | 1/30/2019 11:35:09 AM | 42861 |
| Xylenes, Total                       | 130    | 3.5      |      | mg/Kg | 50 | 1/30/2019 11:35:09 AM | 42861 |
| Surr: 4-Bromofluorobenzene           | 103    | 80-120   |      | %Rec  | 50 | 1/30/2019 11:35:09 AM | 42861 |

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

- \* 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/1/2019

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Enterprise Federal 13 22 2

**Lab ID:** 1901B10-002

**Project:** 

Client Sample ID: SC-2

**Collection Date:** 1/29/2019 10:47:00 AM

**Received Date:** 1/30/2019 8:00:00 AM

| Analyses                             | Result | PQL      | Qual | Units | DF | Date Analyzed B         | Batch |
|--------------------------------------|--------|----------|------|-------|----|-------------------------|-------|
| EPA METHOD 300.0: ANIONS             |        |          |      |       |    | Analyst: <b>s</b>       | smb   |
| Chloride                             | ND     | 60       |      | mg/Kg | 20 | 1/30/2019 12:35:21 PM 4 | 42885 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |      |       |    | Analyst: Ir             | rm    |
| Diesel Range Organics (DRO)          | 280    | 9.7      |      | mg/Kg | 1  | 1/30/2019 10:39:52 AM 4 | 42884 |
| Motor Oil Range Organics (MRO)       | ND     | 48       |      | mg/Kg | 1  | 1/30/2019 10:39:52 AM 4 | 42884 |
| Surr: DNOP                           | 97.4   | 50.6-138 |      | %Rec  | 1  | 1/30/2019 10:39:52 AM 4 | 42884 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analyst: N              | NSB   |
| Gasoline Range Organics (GRO)        | 2100   | 220      |      | mg/Kg | 50 | 1/30/2019 11:58:41 AM 4 | 42861 |
| Surr: BFB                            | 222    | 73.8-119 | S    | %Rec  | 50 | 1/30/2019 11:58:41 AM 4 | 42861 |
| EPA METHOD 8021B: VOLATILES          |        |          |      |       |    | Analyst: N              | NSB   |
| Benzene                              | 1.3    | 1.1      |      | mg/Kg | 50 | 1/30/2019 11:58:41 AM 4 | 42861 |
| Toluene                              | 42     | 2.2      |      | mg/Kg | 50 | 1/30/2019 11:58:41 AM 4 | 42861 |
| Ethylbenzene                         | 11     | 2.2      |      | mg/Kg | 50 | 1/30/2019 11:58:41 AM 4 | 42861 |
| Xylenes, Total                       | 140    | 4.4      |      | mg/Kg | 50 | 1/30/2019 11:58:41 AM 4 | 42861 |
| Surr: 4-Bromofluorobenzene           | 102    | 80-120   |      | %Rec  | 50 | 1/30/2019 11:58:41 AM 4 | 42861 |

Matrix: SOIL

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

- \* 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
  - W Sample container temperature is out of limit as specified

Lab Order **1901B10**Date Reported: **2/1/2019** 

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Enterprise Federal 13 22 2

**Lab ID:** 1901B10-003

**Project:** 

Client Sample ID: SC-3

**Collection Date:** 1/29/2019 10:53:00 AM

Received Date: 1/30/2019 8:00:00 AM

| Analyses                              | Result | PQL      | Qual | Units | DF | Date Analyzed         | Batch         |
|---------------------------------------|--------|----------|------|-------|----|-----------------------|---------------|
| EPA METHOD 300.0: ANIONS              |        |          |      |       |    | Analys                | t: <b>smb</b> |
| Chloride                              | ND     | 60       |      | mg/Kg | 20 | 1/30/2019 12:47:45 PM | 1 42885       |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS  |          |      |       |    | Analys                | t: Irm        |
| Diesel Range Organics (DRO)           | 92     | 9.6      |      | mg/Kg | 1  | 1/30/2019 11:03:58 AM | 1 42884       |
| Motor Oil Range Organics (MRO)        | ND     | 48       |      | mg/Kg | 1  | 1/30/2019 11:03:58 AM | 1 42884       |
| Surr: DNOP                            | 99.2   | 50.6-138 |      | %Rec  | 1  | 1/30/2019 11:03:58 AM | 1 42884       |
| EPA METHOD 8015D: GASOLINE RANGE      |        |          |      |       |    | Analys                | t: NSB        |
| Gasoline Range Organics (GRO)         | 170    | 25       |      | mg/Kg | 5  | 1/30/2019 12:22:11 PM | 1 42861       |
| Surr: BFB                             | 262    | 73.8-119 | S    | %Rec  | 5  | 1/30/2019 12:22:11 PM | 1 42861       |
| EPA METHOD 8021B: VOLATILES           |        |          |      |       |    | Analys                | t: NSB        |
| Benzene                               | ND     | 0.13     |      | mg/Kg | 5  | 1/30/2019 12:22:11 PM | 1 42861       |
| Toluene                               | 1.6    | 0.25     |      | mg/Kg | 5  | 1/30/2019 12:22:11 PM | 1 42861       |
| Ethylbenzene                          | 0.91   | 0.25     |      | mg/Kg | 5  | 1/30/2019 12:22:11 PM | 1 42861       |
| Xylenes, Total                        | 13     | 0.51     |      | mg/Kg | 5  | 1/30/2019 12:22:11 PM | 1 42861       |
| Surr: 4-Bromofluorobenzene            | 98.8   | 80-120   |      | %Rec  | 5  | 1/30/2019 12:22:11 PM | 1 42861       |

Matrix: SOIL

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

- \* 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Project:** 

Analytical Report
Lab Order 1901B10

Date Reported: 2/1/2019

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Enterprise Federal 13 22 2

**Lab ID:** 1901B10-004

Matrix: SOIL

**Collection Date:** 1/29/2019 11:00:00 AM

Client Sample ID: SC-4

**Received Date:** 1/30/2019 8:00:00 AM

| Analyses                             | Result | PQL      | Qual Units | DF | Date Analyzed         | Batch         |
|--------------------------------------|--------|----------|------------|----|-----------------------|---------------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analys                | t: <b>smb</b> |
| Chloride                             | ND     | 60       | mg/Kg      | 20 | 1/30/2019 1:00:11 PM  | 42885         |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analys                | t: Irm        |
| Diesel Range Organics (DRO)          | 15     | 9.7      | mg/Kg      | 1  | 1/30/2019 11:28:19 AM | 1 42884       |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg      | 1  | 1/30/2019 11:28:19 AM | 1 42884       |
| Surr: DNOP                           | 96.6   | 50.6-138 | %Rec       | 1  | 1/30/2019 11:28:19 AM | 1 42884       |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analys                | t: NSB        |
| Gasoline Range Organics (GRO)        | ND     | 21       | mg/Kg      | 5  | 1/30/2019 9:37:50 AM  | 42861         |
| Surr: BFB                            | 109    | 73.8-119 | %Rec       | 5  | 1/30/2019 9:37:50 AM  | 42861         |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analys                | t: NSB        |
| Benzene                              | ND     | 0.11     | mg/Kg      | 5  | 1/30/2019 9:37:50 AM  | 42861         |
| Toluene                              | ND     | 0.21     | mg/Kg      | 5  | 1/30/2019 9:37:50 AM  | 42861         |
| Ethylbenzene                         | ND     | 0.21     | mg/Kg      | 5  | 1/30/2019 9:37:50 AM  | 42861         |
| Xylenes, Total                       | 0.46   | 0.43     | mg/Kg      | 5  | 1/30/2019 9:37:50 AM  | 42861         |
| Surr: 4-Bromofluorobenzene           | 93.8   | 80-120   | %Rec       | 5  | 1/30/2019 9:37:50 AM  | 42861         |

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/1/2019

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Enterprise Federal 13 22 2

**Lab ID:** 1901B10-005

**Project:** 

Client Sample ID: SC-5

**Collection Date:** 1/29/2019 11:06:00 AM **Received Date:** 1/30/2019 8:00:00 AM

| Analyses                             | Result | PQL      | Qual Units | DF | Date Analyzed Batch         | ļ. |
|--------------------------------------|--------|----------|------------|----|-----------------------------|----|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst: <b>smb</b>         |    |
| Chloride                             | ND     | 60       | mg/Kg      | 20 | 1/30/2019 1:12:36 PM 42885  |    |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst: <b>Irm</b>         |    |
| Diesel Range Organics (DRO)          | ND     | 9.8      | mg/Kg      | 1  | 1/30/2019 11:52:24 AM 42884 |    |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 1/30/2019 11:52:24 AM 42884 |    |
| Surr: DNOP                           | 98.2   | 50.6-138 | %Rec       | 1  | 1/30/2019 11:52:24 AM 42884 |    |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst: NSB                |    |
| Gasoline Range Organics (GRO)        | ND     | 3.9      | mg/Kg      | 1  | 1/30/2019 10:24:52 AM 42861 |    |
| Surr: BFB                            | 102    | 73.8-119 | %Rec       | 1  | 1/30/2019 10:24:52 AM 42861 |    |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst: NSB                |    |
| Benzene                              | ND     | 0.019    | mg/Kg      | 1  | 1/30/2019 10:24:52 AM 42861 |    |
| Toluene                              | 0.082  | 0.039    | mg/Kg      | 1  | 1/30/2019 10:24:52 AM 42861 |    |
| Ethylbenzene                         | ND     | 0.039    | mg/Kg      | 1  | 1/30/2019 10:24:52 AM 42861 |    |
| Xylenes, Total                       | 0.23   | 0.078    | mg/Kg      | 1  | 1/30/2019 10:24:52 AM 42861 |    |
| Surr: 4-Bromofluorobenzene           | 94.6   | 80-120   | %Rec       | 1  | 1/30/2019 10:24:52 AM 42861 |    |

Matrix: SOIL

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/1/2019

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

**Project:** Enterprise Federal 13 22 2

**Lab ID:** 1901B10-006

Client Sample ID: SC-6

**Collection Date:** 1/29/2019 11:12:00 AM

**Received Date:** 1/30/2019 8:00:00 AM

| Analyses                             | Result | PQL      | Qual Units | DF | Date Analyzed Bat         | tch  |
|--------------------------------------|--------|----------|------------|----|---------------------------|------|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst: <b>sm</b>        | nb   |
| Chloride                             | ND     | 60       | mg/Kg      | 20 | 1/30/2019 1:25:00 PM 428  | 2885 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst: <b>Irm</b>       | n    |
| Diesel Range Organics (DRO)          | ND     | 9.9      | mg/Kg      | 1  | 1/30/2019 12:16:38 PM 428 | 884  |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 1/30/2019 12:16:38 PM 428 | 884  |
| Surr: DNOP                           | 98.0   | 50.6-138 | %Rec       | 1  | 1/30/2019 12:16:38 PM 428 | 884  |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst: <b>NS</b>        | 3B   |
| Gasoline Range Organics (GRO)        | ND     | 4.4      | mg/Kg      | 1  | 1/30/2019 10:48:09 AM 428 | 2861 |
| Surr: BFB                            | 99.2   | 73.8-119 | %Rec       | 1  | 1/30/2019 10:48:09 AM 428 | :861 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst: <b>NS</b>        | 3B   |
| Benzene                              | ND     | 0.022    | mg/Kg      | 1  | 1/30/2019 10:48:09 AM 428 | 2861 |
| Toluene                              | ND     | 0.044    | mg/Kg      | 1  | 1/30/2019 10:48:09 AM 428 | 2861 |
| Ethylbenzene                         | ND     | 0.044    | mg/Kg      | 1  | 1/30/2019 10:48:09 AM 428 | 2861 |
| Xylenes, Total                       | ND     | 0.087    | mg/Kg      | 1  | 1/30/2019 10:48:09 AM 428 | 2861 |
| Surr: 4-Bromofluorobenzene           | 90.4   | 80-120   | %Rec       | 1  | 1/30/2019 10:48:09 AM 428 | 2861 |

Matrix: SOIL

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 2/1/2019

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

**Project:** Enterprise Federal 13 22 2

**Lab ID:** 1901B10-007

Client Sample ID: SC-7

**Collection Date:** 1/29/2019 11:19:00 AM **Received Date:** 1/30/2019 8:00:00 AM

| Analyses                             | Result | PQL      | Qual Units | DF | Date Analyzed Bate         | ch |
|--------------------------------------|--------|----------|------------|----|----------------------------|----|
| EPA METHOD 300.0: ANIONS             |        |          |            |    | Analyst: <b>sml</b>        | b  |
| Chloride                             | ND     | 60       | mg/Kg      | 20 | 1/30/2019 1:37:24 PM 4288  | 85 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst: Irm               |    |
| Diesel Range Organics (DRO)          | 24     | 9.3      | mg/Kg      | 1  | 1/30/2019 12:40:50 PM 4288 | 84 |
| Motor Oil Range Organics (MRO)       | ND     | 47       | mg/Kg      | 1  | 1/30/2019 12:40:50 PM 4288 | 84 |
| Surr: DNOP                           | 96.9   | 50.6-138 | %Rec       | 1  | 1/30/2019 12:40:50 PM 4288 | 84 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst: <b>NS</b>         | В  |
| Gasoline Range Organics (GRO)        | ND     | 4.6      | mg/Kg      | 1  | 1/30/2019 11:11:37 AM 4286 | 61 |
| Surr: BFB                            | 96.8   | 73.8-119 | %Rec       | 1  | 1/30/2019 11:11:37 AM 4286 | 61 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst: <b>NS</b>         | В  |
| Benzene                              | ND     | 0.023    | mg/Kg      | 1  | 1/30/2019 11:11:37 AM 4286 | 61 |
| Toluene                              | ND     | 0.046    | mg/Kg      | 1  | 1/30/2019 11:11:37 AM 4286 | 61 |
| Ethylbenzene                         | ND     | 0.046    | mg/Kg      | 1  | 1/30/2019 11:11:37 AM 4286 | 61 |
| Xylenes, Total                       | ND     | 0.092    | mg/Kg      | 1  | 1/30/2019 11:11:37 AM 4286 | 61 |
| Surr: 4-Bromofluorobenzene           | 90.9   | 80-120   | %Rec       | 1  | 1/30/2019 11:11:37 AM 4286 | 61 |

Matrix: SOIL

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

- \* 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

01-Feb-19

1901B10

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13 22 2

Sample ID MB-42885 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 42885 RunNo: 57374

Prep Date: 1/30/2019 Analysis Date: 1/30/2019 SeqNo: 1919631 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-42885 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 42885 RunNo: 57374

Prep Date: 1/30/2019 Analysis Date: 1/30/2019 SeqNo: 1919632 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.1 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

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

W Sample container temperature is out of limit as specified

Page 8 of 11

## Hall Environmental Analysis Laboratory, Inc.

01-Feb-19

1901B10

WO#:

Client:

Rule Engineering LLC

**Project:** Enterprise Federal 13 22 2

| Sample ID LCS-42884         | SampT      | ype: LC       | s         | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |          |           |      |          |      |  |
|-----------------------------|------------|---------------|-----------|---|----------|----------|-----------|------|----------|------|--|
| Client ID: LCSS             | Batch      | ID: <b>42</b> | 884       | F   | RunNo: 5 | 7338     |           |      |          |      |  |
| Prep Date: 1/30/2019        | Analysis D | ate: 1/       | 30/2019   | 19 SeqNo: 1918537 Units: mg/Kg                      |          |          |           |      |          |      |  |
| Analyte                     | Result     | PQL           | SPK value | SPK Ref Val   | %REC     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |  |
| Diesel Range Organics (DRO) | 40         | 10            | 50.00     | 0   | 80.3     | 63.9     | 124       |      |          |      |  |
|                             |            |               |           |   |          |          |           |      |          |      |  |

| Sample ID MB-42884             | SampT           | ype: ME | BLK       | TestCode: EPA Method 8015M/D: Diesel Range Organics |                     |          |             |      |          |      |
|--------------------------------|-----------------|---------|-----------|---|---------------------|----------|-------------|------|----------|------|
| Client ID: PBS                 | Batch ID: 42884 |         |           | F   | RunNo: <b>57338</b> |          |             |      |          |      |
| Prep Date: 1/30/2019           | Analysis D      | ate: 1/ | 30/2019   | S   | SeqNo: 1            | 918538   | Units: mg/K | (g   |          |      |
| 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                     | 9.7             |         | 10.00     |   | 96.8                | 50.6     | 138         |      |          |      |

| Sample ID 1901B1         | 0-007AMS | SampT      | уре: М\$       | 6         | Tes                         | tCode: El       | PA Method | 8015M/D: Di | esel Rang | e Organics |      |
|--------------------------|----------|------------|----------------|-----------|-----------------------------|-----------------|-----------|-------------|-----------|------------|------|
| Client ID: SC-7          |          | Batch      | ID: <b>42</b>  | 884       | R                           | RunNo: <b>5</b> | 7338      |             |           |            |      |
| Prep Date: 1/30/2        | 019      | Analysis D | ate: <b>1/</b> | 30/2019   | SeqNo: 1919485 Units: mg/Kg |                 |           |             |           |            |      |
| Analyte                  |          | Result     | PQL            | SPK value | SPK Ref Val                 | %REC            | LowLimit  | HighLimit   | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (I | DRO)     | 61         | 9.7            | 48.40     | 23.63                       | 76.7            | 53.5      | 126         |           |            |      |
| Surr: DNOP               |          | 4.6        |                | 4.840     |                             | 94.6            | 50.6      | 138         |           |            |      |

| Sample ID 1901B10-007AN     | <b>ISD</b> SampT | ype: <b>M</b> \$ | SD        | Tes                                       | tCode: El | PA Method | 8015M/D: Die | esel Rang | e Organics |      |
|-----------------------------|------------------|------------------|-----------|---|-----------|-----------|--------------|-----------|------------|------|
| Client ID: SC-7             | Batch            | n ID: <b>42</b>  | 884       | R   | RunNo: 5  | 7338      |              |           |            |      |
| Prep Date: 1/30/2019        | Analysis D       | ate: 1/          | 30/2019   | SeqNo: <b>1919486</b> Units: <b>mg/Kg</b> |           |           |              |           |            |      |
| Analyte                     | Result           | PQL              | SPK value | SPK Ref Val                               | %REC      | LowLimit  | HighLimit    | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (DRO) | 61               | 9.6              | 48.12     | 23.63                                     | 78.4      | 53.5      | 126          | 0.999     | 21.7       |      |
| Surr: DNOP                  | 4.6              |                  | 4.812     |   | 96.3      | 50.6      | 138          | 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

PQL Practical Quanitative Limit

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

Page 9 of 11

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

1901B10 01-Feb-19

Qual

WO#:

**Client:** Project: Rule Engineering LLC

Enterprise Federal 13 22 2

Sample ID MB-42861 SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS**  Batch ID: 42861

RunNo: 57349

%REC

Prep Date: 1/29/2019

Analyte

Analysis Date: 1/30/2019 **PQL** 

SeqNo: 1919324 Units: mg/Kg LowLimit

Gasoline Range Organics (GRO)

**LCSS** 

ND 5.0

HighLimit

%RPD

Surr: BFB

960

Result

1000

SPK value SPK Ref Val

SPK Ref Val

95.8

73.8 119

Sample ID LCS-42861

SampType: LCS Batch ID: 42861

**PQL** 

TestCode: EPA Method 8015D: Gasoline Range RunNo: 57349

%REC

LowLimit

Analyte

1/29/2019 Analysis Date: 1/30/2019

Result

SeqNo: 1919325

Units: mg/Kg HighLimit

**RPDLimit** %RPD Qual

**RPDLimit** 

Surr: BFB

Client ID:

Prep Date:

Gasoline Range Organics (GRO) 28 5.0 25.00 0 111 80.1 123 1100 1000 110 73.8 119

SPK value

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 10 of 11

## Hall Environmental Analysis Laboratory, Inc.

01-Feb-19

1901B10

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13 22 2

| Sample ID MB-42861         | SampT      | уре: МЕ         | BLK       | Tes            | tCode: El |          |              |      |          |      |
|----------------------------|------------|-----------------|-----------|----------------|-----------|----------|--------------|------|----------|------|
| Client ID: PBS             | Batcl      | h ID: <b>42</b> | 861       | F              | RunNo: 5  | 7349     |              |      |          |      |
| Prep Date: 1/29/2019       | Analysis D | )ate: <b>1/</b> | 30/2019   | SeqNo: 1919358 |           |          | 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 | 0.94       |                 | 1.000     |                | 94.4      | 80       | 120          |      |          |      |

| Sample ID LCS-42861        | Samp1                    | Гуре: <b>LC</b> | S         | Tes         | tCode: E | ode: EPA Method 8021B: Volatiles |             |      |          |      |  |  |
|----------------------------|--------------------------|-----------------|-----------|-------------|----------|----------------------------------|-------------|------|----------|------|--|--|
| Client ID: LCSS            | Batc                     | h ID: <b>42</b> | 861       | F           | RunNo: 5 | 7349                             |             |      |          |      |  |  |
| Prep Date: 1/29/2019       | Analysis Date: 1/30/2019 |                 |           | 8           | SeqNo: 1 | 919359                           | Units: mg/k | (g   |          |      |  |  |
| Analyte                    | Result                   | PQL             | SPK value | SPK Ref Val | %REC     | LowLimit                         | HighLimit   | %RPD | RPDLimit | Qual |  |  |
| Benzene                    | 0.95                     | 0.025           | 1.000     | 0           | 94.6     | 80                               | 120         |      |          |      |  |  |
| Toluene                    | 0.99                     | 0.050           | 1.000     | 0           | 98.8     | 80                               | 120         |      |          |      |  |  |
| Ethylbenzene               | 1.0                      | 0.050           | 1.000     | 0           | 99.6     | 80                               | 120         |      |          |      |  |  |
| Xylenes, Total             | 3.0                      | 0.10            | 3.000     | 0           | 101      | 80                               | 120         |      |          |      |  |  |
| Surr: 4-Bromofluorobenzene | 0.98                     |                 | 1.000     |             | 98.4     | 80                               | 120         |      |          |      |  |  |

#### 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
  - Sample pH Not In Range
- P Sample pH Not In Range RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 11 of 11



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: RULE ENGINEERING LL Work Order Nu  | mber: 1901B10       |   | RcptNo: 1                |
|---|---------------------|---|--------------------------|
| Received By: Desiree Dominguez 1/30/2019 8:00:0   | 0 AM                | D2                                      |                          |
| Completed By: Desiree Dominguez 1/30/2019 8:08:4  | 8 AM                | TO                                      |                          |
| Reviewed By: ENM 1/30/A   |                     |   |                          |
| 1.B TO 1/30/19  |                     |   |                          |
| Chain of Custody  |                     |   |                          |
| . 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 🔽                                    | *# of preserved 0/20/19  |
| Does paperwork match bottle labels?   | Yes 🗸               | No 🗆                                    | bottles checked O( 30 19 |
| (Note discrepancies on chain of custody)  | 5-2-4-250-0-5-4-5-8 | 100000000000000000000000000000000000000 | (<2 or >12 unless noted) |
| Are matrices correctly identified on Chain of Custody?                                  | Yes 🗹               | No 🗆                                    | Adjusted?                |
| , is it clear what analyses were requested?<br>. Were all holding times able to be met? | Yes 🗹               | No □                                    | Charled by               |
| (If no, notify customer for authorization.)   | Yes 🗹               | No 🗌                                    | Checked by:              |
| pecial Handling (if applicable)   |                     |   |                          |
| 5. Was client notified of all discrepancies with this order?                            | Yes 🗆               | No 🗆                                    | NA 🗹                     |
| Person Notified: Dat  | te:                 |   |                          |
| Person Notified. Dat  |                     | Dhana C Fau                             | In Person                |
| By Whom: Via  | : eMail             | Phone Fax                               | ☐ m Feison               |
| 2 111   | : eMail             | Phone   Fax                             |                          |

|  |                             |               |                              |                   |                 |                                   | ALL LAB MER LA       |     |
|--|-----------------------------|---------------|------------------------------|-------------------|-----------------|-----------------------------------|----------------------|-----|
| Client Rule Engineering                              | □ Standard K Rush           | Rush Same Day |                              | . <               | ANAIVO          | U                                 | ANALYSTS LABODATODY  | 100 |
|  | 27                          |               |                              | 3                 | ME              | 1010                              | ADORA                | 2   |
| Mailing Address: 501 Aivgort Dr. St. 205             |                             | 0 3-22 # 2    | 4901                         | 4901 Hawkins NE - |                 | nonmen                            | Albuquerque NM 87109 |     |
|  | Project #:                  |               |                              |                   |                 |                                   |                      |     |
| ton M.   |                             |               | Tel.                         | 505-345-3975      | 3975 F          | Fax 505-                          | 505-345-4107         |     |
| Phone # (503) 716-2787                               |                             |               |                              |                   | Analy           | Analysis Request                  | nest                 |     |
| email or Fax#: hupped Se ruleing needlay com Project | om Project Manager:         |               | 200.000                      |                   | *O              |                                   | nt)                  |     |
| aNOC Package: tilong & eprodition                    |                             |               | MR                           |                   |                 |                                   | esq                  |     |
|  | 1) Heather Woods            |               |                              |                   |                 |                                   | lA∖tı                |     |
| Accreditation:   Az Compliance                       | Sampler: Heather Who        | Whools        | DB.                          | (1.               |                 |                                   | Jesi                 |     |
|  |                             | °N □          | / O                          | 10                | 9               | (A                                | ∌₁q)                 |     |
| □ EDD (Type)   | lers:                       |               | AO)                          | 9 pc              | tals            | 11111111                          | ) ш.                 |     |
|  | Cooler Tempinduding CF): 2  | .8°c          | O9                           | othe              | θM              |                                   | ıojil                |     |
| Date Time Matrix Sample Name                         | Container Preservative Type | HEAL NO.      | \ X3T8<br>108 H9T<br>99 1808 | EDB (Ma           | 8 АЯЗЯ<br>В В В | v) 0 <mark>8</mark> 28<br>e) 0728 | DO IsloT             |     |
| 1/29/19 1040 Soul Sc-1                               | - 2                         | 100 -         | ×                            |                   | ×               |                                   |                      |     |
| 1/29/19 1047 Soll SC-2                               |                             | 200-          | ×                            |                   | ×               |                                   |                      |     |
| 429/19 1053 Soil SC-3                                |                             | - 003         | ×                            |                   | ×               |                                   |                      |     |
| 1/29/10 1100 Soil SC-4                               |                             | -004          | ×                            |                   | ×               |                                   |                      |     |
| 429/10 106 Soil SC-5                                 |                             | -005          | ×                            |                   | ×               |                                   |                      |     |
| 1/24/4 1112 Soil Sc-6                                |                             | -006          | ×                            |                   | ×               |                                   |                      |     |
| 172/19 1119 Soil SC-7                                | 7 1                         | -004          | ×                            |                   | ×               |                                   |                      |     |
|  |                             |               |                              |                   |                 |                                   |                      |     |
| Sha  | -17                         |               |                              |                   |                 |                                   |                      | +   |
|  | 200                         |               |                              |                   |                 |                                   |                      |     |
|  |                             |               |                              |                   |                 |                                   |                      |     |
| Date: Time: Relinquished by:                         | Received by: Via:           | Date Time     | Remarks: Divect Bill         | Direct            |                 | to Enterprise                     | νούσε                |     |
| Date: Time: Relinquished by:                         | Received by: Via.           | Date Time     |                              | Jon- A            | Non-AFE: N40090 | 1480                              | 30                   |     |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

February 04, 2019

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055

FAX

RE: Enterprise Federal 13-22 2 OrderNo.: 1902001

#### Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/1/2019 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1902001** 

## Hall Environmental Analysis Laboratory, Inc. Date Reported: 2/4/2019

CLIENT: Rule Engineering LLC Client Sample ID: SC-8

 Project:
 Enterprise Federal 13-22 2
 Collection Date: 1/31/2019 2:05:00 PM

 Lab ID:
 1902001-001
 Matrix: SOIL
 Received Date: 2/1/2019 7:55:00 AM

| Analyses                             | Result | PQL      | Qual | Units | DF  | Date Analyzed        | Batch  |
|--------------------------------------|--------|----------|------|-------|-----|----------------------|--------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |      |       |     | Analyst              | :: Irm |
| Diesel Range Organics (DRO)          | 220    | 9.3      |      | mg/Kg | 1   | 2/1/2019 10:27:06 AM | 42931  |
| Motor Oil Range Organics (MRO)       | ND     | 47       |      | mg/Kg | 1   | 2/1/2019 10:27:06 AM | 42931  |
| Surr: DNOP                           | 95.6   | 50.6-138 |      | %Rec  | 1   | 2/1/2019 10:27:06 AM | 42931  |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |     | Analyst              | : NSB  |
| Gasoline Range Organics (GRO)        | 9800   | 180      |      | mg/Kg | 50  | 2/1/2019 9:33:34 AM  | G57420 |
| Surr: BFB                            | 434    | 73.8-119 | S    | %Rec  | 50  | 2/1/2019 9:33:34 AM  | G57420 |
| EPA METHOD 8021B: VOLATILES          |        |          |      |       |     | Analyst              | : NSB  |
| Benzene                              | 14     | 0.90     |      | mg/Kg | 50  | 2/1/2019 9:33:34 AM  | B57420 |
| Toluene                              | 210    | 7.2      |      | mg/Kg | 200 | 2/1/2019 2:51:29 PM  | B57420 |
| Ethylbenzene                         | 44     | 1.8      |      | mg/Kg | 50  | 2/1/2019 9:33:34 AM  | B57420 |
| Xylenes, Total                       | 400    | 3.6      |      | mg/Kg | 50  | 2/1/2019 9:33:34 AM  | B57420 |
| Surr: 4-Bromofluorobenzene           | 132    | 80-120   | S    | %Rec  | 50  | 2/1/2019 9:33:34 AM  | B57420 |

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1902001**Date Reported: **2/4/2019** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SC-9

 Project:
 Enterprise Federal 13-22 2
 Collection Date: 1/31/2019 2:10:00 PM

 Lab ID:
 1902001-002
 Matrix: SOIL
 Received Date: 2/1/2019 7:55:00 AM

| Analyses                            | Result  | PQL      | Qual | Units | DF  | Date Analyzed        | Batch  |
|-------------------------------------|---------|----------|------|-------|-----|----------------------|--------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS |          |      |       |     | Analys               | :: Irm |
| Diesel Range Organics (DRO)         | 290     | 9.6      |      | mg/Kg | 1   | 2/1/2019 10:49:08 AM | 42931  |
| Motor Oil Range Organics (MRO)      | ND      | 48       |      | mg/Kg | 1   | 2/1/2019 10:49:08 AM | 42931  |
| Surr: DNOP                          | 102     | 50.6-138 |      | %Rec  | 1   | 2/1/2019 10:49:08 AM | 42931  |
| EPA METHOD 8015D: GASOLINE RANGE    |         |          |      |       |     | Analys               | : NSB  |
| Gasoline Range Organics (GRO)       | 15000   | 230      |      | mg/Kg | 50  | 2/1/2019 9:56:22 AM  | G57420 |
| Surr: BFB                           | 486     | 73.8-119 | S    | %Rec  | 50  | 2/1/2019 9:56:22 AM  | G57420 |
| EPA METHOD 8021B: VOLATILES         |         |          |      |       |     | Analys               | : NSB  |
| Benzene                             | 26      | 1.1      |      | mg/Kg | 50  | 2/1/2019 9:56:22 AM  | B57420 |
| Toluene                             | 310     | 9.0      |      | mg/Kg | 200 | 2/1/2019 3:14:08 PM  | B57420 |
| Ethylbenzene                        | 64      | 2.3      |      | mg/Kg | 50  | 2/1/2019 9:56:22 AM  | B57420 |
| Xylenes, Total                      | 560     | 18       |      | mg/Kg | 200 | 2/1/2019 3:14:08 PM  | B57420 |
| Surr: 4-Bromofluorobenzene          | 113     | 80-120   |      | %Rec  | 200 | 2/1/2019 3:14:08 PM  | B57420 |

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1902001**Date Reported: **2/4/2019** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SC-10

 Project:
 Enterprise Federal 13-22 2
 Collection Date: 1/31/2019 2:15:00 PM

 Lab ID:
 1902001-003
 Matrix: SOIL
 Received Date: 2/1/2019 7:55:00 AM

| Analyses                            | Result | PQL      | Qual | Units | DF  | Date Analyzed        | Batch  |
|-------------------------------------|--------|----------|------|-------|-----|----------------------|--------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |      |       |     | Analys               | : Irm  |
| Diesel Range Organics (DRO)         | 210    | 9.3      |      | mg/Kg | 1   | 2/1/2019 11:11:11 AM | 42931  |
| Motor Oil Range Organics (MRO)      | ND     | 47       |      | mg/Kg | 1   | 2/1/2019 11:11:11 AM | 42931  |
| Surr: DNOP                          | 104    | 50.6-138 |      | %Rec  | 1   | 2/1/2019 11:11:11 AM | 42931  |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |      |       |     | Analys               | : NSB  |
| Gasoline Range Organics (GRO)       | 8800   | 200      |      | mg/Kg | 50  | 2/1/2019 10:19:08 AM | G57420 |
| Surr: BFB                           | 381    | 73.8-119 | S    | %Rec  | 50  | 2/1/2019 10:19:08 AM | G57420 |
| EPA METHOD 8021B: VOLATILES         |        |          |      |       |     | Analys               | : NSB  |
| Benzene                             | 13     | 1.0      |      | mg/Kg | 50  | 2/1/2019 10:19:08 AM | B57420 |
| Toluene                             | 200    | 8.0      |      | mg/Kg | 200 | 2/1/2019 5:08:10 PM  | B57420 |
| Ethylbenzene                        | 42     | 2.0      |      | mg/Kg | 50  | 2/1/2019 10:19:08 AM | B57420 |
| Xylenes, Total                      | 380    | 4.0      |      | mg/Kg | 50  | 2/1/2019 10:19:08 AM | B57420 |
| Surr: 4-Bromofluorobenzene          | 127    | 80-120   | S    | %Rec  | 50  | 2/1/2019 10:19:08 AM | B57420 |

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1902001**Date Reported: **2/4/2019** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SC-11

 Project:
 Enterprise Federal 13-22 2
 Collection Date: 1/31/2019 2:20:00 PM

 Lab ID:
 1902001-004
 Matrix: SOIL
 Received Date: 2/1/2019 7:55:00 AM

| Analyses                            | Result | PQL      | Qual | Units | DF | Date Analyzed        | Batch  |
|-------------------------------------|--------|----------|------|-------|----|----------------------|--------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |      |       |    | Analys               | :: Irm |
| Diesel Range Organics (DRO)         | 330    | 9.9      |      | mg/Kg | 1  | 2/1/2019 11:33:07 AM | 42931  |
| Motor Oil Range Organics (MRO)      | ND     | 49       |      | mg/Kg | 1  | 2/1/2019 11:33:07 AM | 42931  |
| Surr: DNOP                          | 102    | 50.6-138 |      | %Rec  | 1  | 2/1/2019 11:33:07 AM | 42931  |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |      |       |    | Analyst              | : NSB  |
| Gasoline Range Organics (GRO)       | 4600   | 85       |      | mg/Kg | 20 | 2/1/2019 10:41:56 AM | G57420 |
| Surr: BFB                           | 1010   | 73.8-119 | S    | %Rec  | 20 | 2/1/2019 10:41:56 AM | G57420 |
| EPA METHOD 8021B: VOLATILES         |        |          |      |       |    | Analys               | : NSB  |
| Benzene                             | 3.7    | 0.42     |      | mg/Kg | 20 | 2/1/2019 10:41:56 AM | B57420 |
| Toluene                             | 71     | 0.85     |      | mg/Kg | 20 | 2/1/2019 10:41:56 AM | B57420 |
| Ethylbenzene                        | 19     | 0.85     |      | mg/Kg | 20 | 2/1/2019 10:41:56 AM | B57420 |
| Xylenes, Total                      | 190    | 1.7      |      | mg/Kg | 20 | 2/1/2019 10:41:56 AM | B57420 |
| Surr: 4-Bromofluorobenzene          | 152    | 80-120   | S    | %Rec  | 20 | 2/1/2019 10:41:56 AM | B57420 |

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1902001

04-Feb-19

Client:

Rule Engineering LLC

**Project:** Enterprise Federal 13-22 2

| Sample ID LCS-42931         | SampT      | ype: <b>LC</b> | s         | Tes                         | tCode: E | PA Method | 8015M/D: Die | esel Rang | e Organics |      |
|-----------------------------|------------|----------------|-----------|-----------------------------|----------|-----------|--------------|-----------|------------|------|
| Client ID: LCSS             | Batch      | ID: <b>42</b>  | 931       | R                           | RunNo: 5 | 7413      |              |           |            |      |
| Prep Date: 2/1/2019         | Analysis D | ate: 2/        | 1/2019    | SeqNo: 1920947 Units: mg/Kg |          |           |              |           |            |      |
| Analyte                     | Result     | PQL            | SPK value | SPK Ref Val                 | %REC     | LowLimit  | HighLimit    | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (DRO) | 51         | 10             | 50.00     | 0                           | 103      | 63.9      | 124          |           |            |      |
| Surr: DNOP                  | 4.6        |                | 5 000     |                             | 91 1     | 50.6      | 138          |           |            |      |

| Sample ID MB-42931             | SampT      | ype: <b>ME</b>  | BLK       | Tes         | tCode: El       | PA Method | 8015M/D: Die | esel Range | e Organics |      |
|--------------------------------|------------|-----------------|-----------|-------------|-----------------|-----------|--------------|------------|------------|------|
| Client ID: PBS                 | Batch      | ID: <b>42</b> 9 | 931       | R           | RunNo: <b>5</b> | 7413      |              |            |            |      |
| Prep Date: <b>2/1/2019</b>     | Analysis D | ate: <b>2/</b>  | 1/2019    | S           | SeqNo: 1        | 920948    | Units: mg/K  | (g         |            |      |
| 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                     | 9.4        |                 | 10.00     |             | 94.0            | 50.6      | 138          |            |            |      |

| Sample ID 1902001-004AMS    | SampT      | уре: <b>М</b>   | 3         | Tes         | tCode: El       | PA Method | 8015M/D: Di | esel Rang | e Organics |      |
|-----------------------------|------------|-----------------|-----------|-------------|-----------------|-----------|-------------|-----------|------------|------|
| Client ID: SC-11            | Batcl      | h ID: 42        | 931       | F           | RunNo: <b>5</b> | 7413      |             |           |            |      |
| Prep Date: 2/1/2019         | Analysis D | )ate: <b>2/</b> | 1/2019    | S           | SeqNo: 1        | 921007    | Units: mg/k | (g        |            |      |
| Analyte                     | Result     | PQL             | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit   | %RPD      | RPDLimit   | Qual |
| Diesel Range Organics (DRO) | 350        | 9.9             | 49.36     | 330.8       | 32.4            | 53.5      | 126         |           |            | S    |
| Surr: DNOP                  | 4.9        |                 | 4.936     |             | 99.1            | 50.6      | 138         |           |            |      |

| Sample ID 1      | 902001-004AMSD | ) SampType    | e: M | SD        | Tes         | tCode: E | PA Method | 8015M/D: Di | esel Range | e Organics |      |
|------------------|----------------|---------------|------|-----------|-------------|----------|-----------|-------------|------------|------------|------|
| Client ID: S     | SC-11          | Batch ID      | : 42 | 931       | F           | RunNo: 5 | 7413      |             |            |            |      |
| Prep Date:       | 2/1/2019       | Analysis Date | : 2  | /1/2019   | S           | SeqNo: 1 | 921008    | Units: mg/k | (g         |            |      |
| Analyte          |                | Result F      | QL   | SPK value | SPK Ref Val | %REC     | LowLimit  | HighLimit   | %RPD       | RPDLimit   | Qual |
| Diesel Range Org | ganics (DRO)   | 340           | 9.8  | 48.78     | 330.8       | 19.9     | 53.5      | 126         | 1.84       | 21.7       | S    |
| Surr: DNOP       |                | 4.8           |      | 4.878     |             | 98.8     | 50.6      | 138         | 0          | 0          |      |

| Sample ID LCS-42920  | SampType: LCS        | · -                 | TestCode: EPA Method 8015M/D: Diesel Range Organics |               |                        |      |          |      |
|----------------------|----------------------|---------------------|---|---------------|------------------------|------|----------|------|
| Client ID: LCSS      | Batch ID: <b>429</b> | 20                  | RunNo: <b>5741</b>                                  | 3             |                        |      |          |      |
| Prep Date: 1/31/2019 | Analysis Date: 2/1   | /2019               | SeqNo: <b>1921</b>                                  | <b>491</b> Ur | nits: <b>%Rec</b>      |      |          |      |
| Analyte              | Result PQL           | SPK value SPK Ref \ | /al %REC Lo   | owLimit F     | lighLimit <sup>9</sup> | %RPD | RPDLimit | Qual |
| Surr: DNOP           | 5.4                  | 5.000               | 107   | 50.6          | 138                    |      |          |      |

| Sample ID MB-42920   | SampType: MBLK          | TestCode: EPA Method      | PA Method 8015M/D: Diesel Range Organics |      |  |  |  |  |  |
|----------------------|-------------------------|---------------------------|--|------|--|--|--|--|--|
| Client ID: PBS       | Batch ID: 42920         | RunNo: <b>57413</b>       |  |      |  |  |  |  |  |
| Prep Date: 1/31/2019 | Analysis Date: 2/1/2019 | SeqNo: <b>1921492</b>     | Units: %Rec                              |      |  |  |  |  |  |
| Analyte              | Result PQL SPK value    | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit (                | Qual |  |  |  |  |  |

#### 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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 5 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

1902001 04-Feb-19

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13-22 2

Sample ID MB-42920 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 42920 RunNo: 57413

Prep Date: 1/31/2019 Analysis Date: 2/1/2019 SeqNo: 1921492 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 12 10.00 121 50.6 138

#### 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
- 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
- W Sample container temperature is out of limit as specified

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#### Hall Environmental Analysis Laboratory, Inc.

1902001 04-Feb-19

**Client:** Project:

Rule Engineering LLC

Enterprise Federal 13-22 2

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS**  Batch ID: G57420

RunNo: 57420

Prep Date:

Analysis Date: 2/1/2019

SeqNo: 1921164 Units: mg/Kg

Analyte

Result **PQL** 5.0 SPK value SPK Ref Val %REC LowLimit

HighLimit

**RPDLimit** Qual

Gasoline Range Organics (GRO)

ND 950

SPK Ref Val

1000

SPK value

95.1 73.8 119

%RPD

%RPD

Surr: BFB

Sample ID 2.5UG GRO LCS

SampType: LCS

Result

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

**LCSS** 

Batch ID: G57420

**PQL** 

RunNo: 57420

Prep Date: Analyte

Analysis Date: 2/1/2019

SeqNo: 1921165

Units: mg/Kg HighLimit

**RPDLimit** Qual

WO#:

%REC

80.1 123 119

LowLimit

Surr: BFB

112

73.8

Gasoline Range Organics (GRO) 26 5.0 25.00 0 103 1100 1000

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

**PQL** Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits J

Page 7 of 8

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

04-Feb-19

1902001

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13-22 2

| Sample ID RB               | SampT                   | BLK             | Tes       | TestCode: EPA Method 8021B: Volatiles |      |          |              |      |          |      |  |
|----------------------------|-------------------------|-----------------|-----------|---------------------------------------|------|----------|--------------|------|----------|------|--|
| Client ID: PBS             | Batch ID: <b>B57420</b> |                 |           | F                                     | 7420 |          |              |      |          |      |  |
| Prep Date:                 | Analysis D              | )ate: <b>2/</b> | 1/2019    | SeqNo: 1921178                        |      |          | 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 | 0.98                    |                 | 1.000     |                                       | 98.3 | 80       | 120          |      |          |      |  |

| Sample ID 100NG BTEX LC    | S Samp     | Гуре: LC                                    | s         | TestCode: EPA Method 8021B: Volatiles |          |          |              |      |          |      |  |
|----------------------------|------------|---|-----------|---------------------------------------|----------|----------|--------------|------|----------|------|--|
| Client ID: LCSS            | Batc       | Batch ID: <b>B57420</b> RunNo: <b>57420</b> |           |                                       |          |          |              |      |          |      |  |
| Prep Date:                 | Analysis [ | Date: <b>2/</b>                             | 1/2019    | S                                     | SeqNo: 1 | 921179   | Units: mg/Kg |      |          |      |  |
| Analyte                    | Result     | PQL   | SPK value | SPK Ref Val                           | %REC     | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |  |
| Benzene                    | 0.92       | 0.025                                       | 1.000     | 0                                     | 91.8     | 80       | 120          |      |          |      |  |
| Toluene                    | 0.94       | 0.050                                       | 1.000     | 0                                     | 94.0     | 80       | 120          |      |          |      |  |
| Ethylbenzene               | 0.95       | 0.050                                       | 1.000     | 0                                     | 94.5     | 80       | 120          |      |          |      |  |
| Xylenes, Total             | 2.9        | 0.10  | 3.000     | 0                                     | 95.0     | 80       | 120          |      |          |      |  |
| Surr: 4-Bromofluorobenzene | 11         |   | 1 000     |                                       | 109      | 80       | 120          |      |          |      |  |

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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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

| CI          | ient Name:                          | RULE ENG                              | INEERING LL  | Work Order N               | umber: 1                              | 902      | :001       |         |            | RcptNo                               | o: 1                 |
|-------------|-------------------------------------|---------------------------------------|--|----------------------------|---------------------------------------|----------|------------|---------|------------|--------------------------------------|----------------------|
| Re          | ceived By:                          | Anne Tho                              | rne  | 2/1/2019 7:55:0            | 0 AM                                  |          |            | An      | ru A       | L                                    |                      |
|             | mpleted By:                         | Anne Tho                              | -  | 2/1/2019 8:09:14<br>Z/1/19 | 4 AM                                  |          |            | An      | u Å        | lui                                  |                      |
| Co          | boded                               | by:                                   | AT 02/   | 01/19                      |                                       |          |            |         |            |                                      |                      |
| <u>Ch</u>   | ain of Cus                          | • -                                   |  |                            |                                       |          |            |         |            |                                      |                      |
| 1.          | Is Chain of C                       | ustody comp                           | lete?  |                            | Υ                                     | es       | <b>✓</b>   | N       | • 🗆        | Not Present                          |                      |
| 2.          | How was the                         | sample deliv                          | ered?  |                            | <u>C</u>                              | our      | <u>ier</u> |         |            |                                      |                      |
|             | o <b>g In</b><br>Was an atten       | npt <b>made</b> to d                  | cool the sample  | s?                         | Y                                     | es       | <b>✓</b>   | N       | <b>.</b> 🗆 | na 🗆                                 |                      |
| 4. v        | Nere all samp                       | ples received                         | at a temperatu   | re of >0° C to 6.0°C       | Y                                     | es       | <b>✓</b>   | N       | <b>.</b> . | na 🗆                                 |                      |
| 5. :        | Sample(s) in                        | proper contai                         | iner(s)?   |                            | Y                                     | es       | <b>✓</b>   | N       | <b></b>    |                                      |                      |
| 6. 8        | Sufficient sam                      | iple volume f                         | or indicated tes   | t(s)?                      | Υe                                    | es       | <b>~</b>   | No      |            |                                      |                      |
| 7. <i>P</i> | Are samples (                       | except VOA                            | and ONG) prop  | erly preserved?            | Υe                                    | es       | <b>✓</b>   | No      |            |                                      |                      |
| 8. v        | Vas preserva                        | tive added to                         | bottles?   |                            | Υe                                    | es       |            | No      | <b>V</b>   | NA 🗆                                 |                      |
| 9. v        | /OA vials hav                       | e zero heads                          | space?   |                            | Υe                                    | es       |            | No      |            | No VOA Vials                         |                      |
| 10. \       | Were any san                        | mple containe                         | ers received bro   | ken?                       | Ye                                    | es       |            | N       | <b>V</b>   | # of preserved                       |                      |
|             | Does paperwo<br>Note discrepa       |                                       | itle labels?   |                            | Υe                                    | es       | ✓          | No      |            | bottles checked<br>for pH:           | or >12 unless noted) |
|             | •                                   |                                       | tified on Chain  | of Custody?                | Υe                                    | 95       | <b>✓</b>   | No      |            | Adjusted?                            |                      |
|             |                                     |                                       | ere requested?   | -                          | Υe                                    | s        | <b>✓</b>   | No      |            |                                      |                      |
|             | Vere all holdii<br>If no, notify cu | · ,                                   |  |                            | Y€                                    | es       | ✓          | No      |            | Checked by:                          |                      |
|             | cial Handl                          |                                       |  |                            |                                       |          |            |         |            |                                      |                      |
|             | •                                   |                                       | screpancies wi   | th this order?             | Y                                     | es       |            | No      | , <u> </u> | NA 🗹                                 |                      |
|             | Person                              | Notified:                             |  | Di                         | ate [                                 | NO LOGIC |            |         | -          | r .                                  |                      |
|             | By Who                              | om:                                   |  | Vi                         | ia: 🗌 e                               | eMa      | il 🔲 l     | Phone [ | Fax        | k 🔲 In Person                        |                      |
|             | Regardi                             | ing:                                  |  |                            |                                       | ·····    |            |         |            | :                                    |                      |
|             | Client Ir                           | nstructions:                          | menonsericopolici programa de la companya de la com |                            |                                       |          |            |         |            |                                      |                      |
| 16.         | Additional rer                      | marks:                                |  |                            |                                       |          |            |         |            |                                      |                      |
| 17.         | Cooler Infor                        | <u>mation</u>                         |  |                            |                                       |          |            |         |            |                                      |                      |
|             | Cooler No                           | anagerical series (select the series) | Condition  | Seal Intact   Seal N       | o Seal                                | Da       | te         | Signed  | Ву         | 1. 1<br>1. 1<br>1. 1<br>1. 1<br>1. 1 |                      |
|             | [1                                  | 1.0                                   | Good `   | /es                        | e e e e e e e e e e e e e e e e e e e |          |            |         |            |                                      |                      |
|             |                                     |                                       |  |                            |                                       |          |            |         |            |                                      |                      |
|             |                                     |                                       |  |                            |                                       |          |            |         |            | -                                    |                      |

|  | Chain-of-Custody Record                   | Turn-Around Time:  | I ATHERNATION MENTAL   |
|--|---|--|--|
| Project Name:   19-22 #2   4901 Haw  | Client: Rule Engineering                  |  | ANALYSIS LABORATORY  |
| Container   Cont   |   |  | www.hallenvironmental.com  |
| Froject #:   (\$\frac{50.5}{50.5} \frac{7+16.7}{7+16.7} \frac{7+16.7}{7+16.7}   Project Manager:   (\$\frac{50.5}{50.5} \frac{7+16.7}{7+16.7} \frac{7+16.7}{7+16.7}   Project Manager:   Seckage:  | Mailing Address: 501 Arbort Dr. Ste 205   | Entropise Federal 13-22 #2   | 4901 Hawkins NE - Albuquerque, NM 87109  |
| Fact   Number of Section   Project Manager:   Sample   Manager:   Manager:   Sample   Manager:   M   | Farmington, N. W. 97461                   | Project #:   | Tel. 505-345-3975 Fax 505-345-4107   |
| Fext# hwatch & Watch and British Condition   Head hanger:   Sampler   Head hanger:   Head hang   | Phone #: (505) 716 - 2787                 |  | Analysis Request   |
| Heather Librards   Heather Lib   | email or Fax#: hwoods@vww.mainassing- Cam | Project Manager:   | , O)   |
| Sampler:   | QA/QC Package:                            | -  | B's<br>SMS<br>2,4,5  |
| Continue   Paz Compliance   Sampler   Healthy   Words   Word   |   | Heather whods  | 08  <br>Dd   |
| Time   Matrix   Sample   Name   Container   Preservative   HEALIND   Container   Preservative   HEALIND   Container   Type and # Type   |   | iteather h   | 7 DF<br>3082<br>(1.1)<br>528<br>(2.2)  |
| Time   Matrix   Sample Name   Type and # Type   Tool   X   X   Matrix   Sample Name   Type and # Type   Tool   X   X   Matrix   More   Type and # Type   Tool   X   X   Matrix   More   Type   Tool   Tool   X   X   Matrix   More   Type   Tool   Tool   X   X   Matrix   More   Tool   Tool   X   X   Matrix   More   Tool   X   X   Matrix    |   | K Yes  | OS<br>39,66<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60<br>30,60 |
| Time   Matrix   Sample Name   Cooler Temporation   Cooler Temporation   Container   Preservative   Container   Preservative   Container   Type and # Type    | □ EDD (Type)                              | # of Coolers:  | oidee<br>310<br>310<br>(GI)<br>()  |
| Time   Matrix   Sample Name   Type and # Type   Type   Type and # Type      |   | Cooler Lemp(motioning CF):   | ol 5[6<br>Meth<br>oy 8<br>Br,<br>Br,<br>Br,  |
| Time   Matrix   Sample   Name   Type and # Type   1902,001   E   E   E   E   E   E   E   E   E   |   | Preservative   | 91 P:80<br>B (N) B<br>Hs I sH:<br>FF,<br>F,<br>T C) (V)  |
| 1410 Sci SC-8 (1)40261223 Non 7001 X 1410 Sci SC-9 1415 Sci SC-10 1420 Soi SC-10  | Matrix                                    | Type (   | TPP<br>808<br>PPA<br>RC<br>CI,<br>CI,<br>CI,   |
| 1415 Sci   SC-9  | 50.)                                      | Non  |  |
| 1415 Scil SC-10  1420 Soil SC-10  1420 S | 1410   5011                               |  |  |
| 1426         So; 1         Se-1;         -L         -L         -L         XX   | 50:11                                     | 802  | L  |
| Time: Relinquished by:    The Findum M. Moss M. Received by: Via: Date Time Rentinguished by:   The Findum M. Moss M. Received by: Nia: Date Time Relinquished by: Received by: Nia: Date Time Rentinguished by: Nia: Date Time Renting | So;                                       | 102   1   7  |  |
| The Anthon M. Month   Received by: Via: Date Time   Recline   St.   The Time   St.   The    |   |  |  |
| Time: Relinquished by:    The Anthon M. Month Received by: Via: Date Time Reminduished by:   The Anthon M. Month Received by: Via: Date Time Reminduished by:   Str. 18   Mills   Mill | <u>/</u>                                  |  |  |
| Firme: Relinquished by:    The Flandmished by: Many M.   |   |  |  |
| Time: Relinquished by:    The Anthon M. Mooth   Received by: Via: Date Time Ren Filme: Relinquished by: Received by: Via: Date Time Relinquished by: Received by: Via: Date Time Relinquished by: Received by: Anthony Will.   | TSM.                                      | 1  |  |
| Time: Relinquished by:    The Anthon M. Mooth   Received by: Via: Date Time Ren Filme: Relinquished by: Na: Date Time Received by: Via: Date Time Received by: Via: Date Time Received by: Na: Date Time   |   | The state of the s |  |
| Filme: Relinquished by: Received by: Via: Date Time Rentime: Relinquished by: Received by: Via: Date Time Received by: Via: Date Time Received by: Via: Date Time Received by: Milk Will Date Time   |   |  |  |
| Time: Relinquished by:    The Anthon M. Worth Received by: Via: Date Time Ren Films: Relinquished by: Received by: Via: Date Time Relinquished by: Received by: Received by: Anthony Will. Mills Control of States Time Date Time  |   |  |  |
| Time: Relinquished by:  Received by:  Receiv |   |  |  |
| Filme: Relinquished by: Recelved by: Recelved by: Recelved by: Nia: Date Time Time (812); NIA: Date Time Time  | Time: Relinquished by:                    | Sived by: Via: Date  | Remarks:<br>Direct Bill to Enterprise  |
| 1812/ May Walk Clan Loslangs   | Time: Relinquished by:                    | Ay: Via: Date 7  | Clo Tom Long   |
|  | 19/11/812/1/M/4 Week                      | An 202/01/1  | Non-AFE: N40090  |
|  |   |  |  |



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

February 08, 2019

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055

FAX

RE: Enterprise Federal 13-22 2 OrderNo.: 1902168

#### Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/6/2019 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1902168**Date Reported: **2/8/2019** 

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

**Project:** Enterprise Federal 13-22 2

**Lab ID:** 1902168-001

Client Sample ID: TP-1@20

**Collection Date:** 2/5/2019 1:30:00 PM **Received Date:** 2/6/2019 8:18:00 AM

| Analyses                             | Result | PQL      | Qual | Units | DF | Date Analyzed       | Batch         |
|--------------------------------------|--------|----------|------|-------|----|---------------------|---------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |      |       |    | Analys              | t: <b>Irm</b> |
| Diesel Range Organics (DRO)          | ND     | 9.8      |      | mg/Kg | 1  | 2/7/2019 3:31:26 PM | 43011         |
| Motor Oil Range Organics (MRO)       | ND     | 49       |      | mg/Kg | 1  | 2/7/2019 3:31:26 PM | 43011         |
| Surr: DNOP                           | 116    | 50.6-138 |      | %Rec  | 1  | 2/7/2019 3:31:26 PM | 43011         |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analys              | t: NSB        |
| Gasoline Range Organics (GRO)        | 110    | 9.6      |      | mg/Kg | 2  | 2/7/2019 1:08:02 PM | 42999         |
| Surr: BFB                            | 321    | 73.8-119 | S    | %Rec  | 2  | 2/7/2019 1:08:02 PM | 42999         |
| EPA METHOD 8021B: VOLATILES          |        |          |      |       |    | Analys              | t: NSB        |
| Benzene                              | ND     | 0.048    |      | mg/Kg | 2  | 2/7/2019 1:08:02 PM | 42999         |
| Toluene                              | 1.2    | 0.096    |      | mg/Kg | 2  | 2/7/2019 1:08:02 PM | 42999         |
| Ethylbenzene                         | 0.66   | 0.096    |      | mg/Kg | 2  | 2/7/2019 1:08:02 PM | 42999         |
| Xylenes, Total                       | 7.3    | 0.19     |      | mg/Kg | 2  | 2/7/2019 1:08:02 PM | 42999         |
| Surr: 4-Bromofluorobenzene           | 107    | 80-120   |      | %Rec  | 2  | 2/7/2019 1:08:02 PM | 42999         |

Matrix: SOIL

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

- 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
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

08-Feb-19

1902168

WO#:

**Client:** 

Rule Engineering LLC

Project: Enterprise Federal 13-22 2

Sample ID MB-42999 SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS**  Batch ID: 42999

RunNo: 57556

Prep Date: 2/6/2019 Analysis Date: 2/7/2019

SeqNo: 1925138 Units: mg/Kg

Analyte

**PQL** Result 5.0 SPK value SPK Ref Val %REC LowLimit

119

HighLimit %RPD

Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 980

1000

98.1

73.8

Sample ID LCS-42999

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Prep Date: 2/6/2019

LCSS

Batch ID: 42999 Analysis Date: 2/7/2019 RunNo: 57556 SeqNo: 1925139

Units: mg/Kg

%RPD

**RPDLimit** 

**RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result **PQL** SPK value 27 5.0

25.00 0

SPK Ref Val

109

80.1

123 119

1100

1000

114

%REC

73.8

LowLimit

HighLimit

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

Sample container temperature is out of limit as specified

- E Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Page 2 of 3

## Hall Environmental Analysis Laboratory, Inc.

1902168 08-Feb-19

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13-22 2

| Sample ID MB-42999         | Samp       | уре: МЕ                | BLK       | Tes         |                     |          |             |      |          |      |
|----------------------------|------------|------------------------|-----------|-------------|---------------------|----------|-------------|------|----------|------|
| Client ID: PBS             | Batc       | Batch ID: <b>42999</b> |           |             | RunNo: <b>57556</b> |          |             |      |          |      |
| Prep Date: 2/6/2019        | Analysis D | Date: <b>2/</b>        | 7/2019    | S           | SeqNo: 1            | 925161   | Units: mg/K | (g   |          |      |
| 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 | 0.98       |                        | 1.000     |             | 97.7                | 80       | 120         |      |          |      |

| Sample ID LCS-42999        | SampT      | ype: LC         | S         | Tes         | tCode: E        | PA Method | 8021B: Volat | tiles |          |      |
|----------------------------|------------|-----------------|-----------|-------------|-----------------|-----------|--------------|-------|----------|------|
| Client ID: LCSS            | Batcl      | h ID: <b>42</b> | 999       | F           | RunNo: <b>5</b> | 7556      |              |       |          |      |
| Prep Date: 2/6/2019        | Analysis D | )ate: <b>2/</b> | 7/2019    | 8           | SeqNo: 1        | 925162    | Units: mg/K  | (g    |          |      |
| Analyte                    | Result     | PQL             | SPK value | SPK Ref Val | %REC            | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Benzene                    | 0.89       | 0.025           | 1.000     | 0           | 89.1            | 80        | 120          |       |          |      |
| Toluene                    | 0.94       | 0.050           | 1.000     | 0           | 94.1            | 80        | 120          |       |          |      |
| Ethylbenzene               | 0.96       | 0.050           | 1.000     | 0           | 95.7            | 80        | 120          |       |          |      |
| Xylenes, Total             | 2.9        | 0.10            | 3.000     | 0           | 96.9            | 80        | 120          |       |          |      |
| Surr: 4-Bromofluorobenzene | 1.0        |                 | 1.000     |             | 104             | 80        | 120          |       |          |      |

#### 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
- 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
- W Sample container temperature is out of limit as specified

Page 3 of 3



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:                       | RULE ENG          | INEERING L   | L Work  | Order Numb         | er: <b>1902168</b>                 |           | RcptNo  | 1                 |
|------------------------------------|-------------------|--|---|--------------------|------------------------------------|-----------|---|-------------------|
| Received By:                       | Desiree D         | ominguez   | 2/6/201   | 9 8:18:00 AN       | Λ                                  | TD3       |   |                   |
| Completed By:                      | Isaiah Ort        | iz   | 2/6/201   | 9 8:48:39 AN       | 1                                  | Inc       | 2-1   |                   |
| Reviewed By:                       | Z                 |  | 2/6/101   |                    |                                    |           | 7-  |                   |
| 18:                                | DAD 214           | 119  | ,   |                    |                                    |           |   |                   |
| Chain of Cus                       |                   |  |   |                    |                                    |           |   |                   |
| 1. Is Chain of C                   | ustody compl      | lete?  |   |                    | Yes 🗸                              | No 🗌      | Not Present   |                   |
| 2. How was the                     | sample deliv      | ered?  |   |                    | Courier                            |           |   |                   |
| Log In                             |                   |  |   |                    |                                    |           |   |                   |
| 3. Was an atten                    | npt made to c     | ool the samp   | les?  |                    | Yes 🗸                              | No 🗌      | NA 🗆  |                   |
|                                    | î.                | •  |   |                    |                                    |           |   |                   |
| 4. Were all samp                   | oles received     | at a tempera   | ture of >0° C   | to 6.0°C           | Yes 🗸                              | No 🗌      | na 🗆  |                   |
| 5. Sample(s) in                    | nroner contai     | nor(c)?  |   |                    | Yes 🗸                              | No 🗌      |   |                   |
| o. Gampie(s) in                    | proper contai     | ner(s) !   |   |                    | res 💌                              | NO 🗀      |   |                   |
| 6. Sufficient sam                  | ple volume fo     | or indicated te  | est(s)?   |                    | Yes 🗹                              | No 🗌      |   |                   |
| 7. Are samples (                   | except VOA a      | and ONG) pro   | perly preserve  | ed?                | Yes 🗸                              | No 🗌      |   |                   |
| 8. Was preserva                    | tive added to     | bottles?   |   |                    | Yes                                | No 🗸      | NA 🗌  |                   |
| 9. VOA vials hav                   | e zero heads      | pace?  |   |                    | Yes                                | No 🗌      | No VOA Vials 🗹  |                   |
| 10. Were any san                   | nple containe     | rs received b  | roken?  |                    | Yes                                | No 🗸      |   |                   |
| 44 =                               |                   |  |   |                    |                                    |           | # of preserved<br>bottles checked   |                   |
| 11. Does paperwo<br>(Note discrepa |                   |  | 1   |                    | Yes 🗹                              | No 🗀      | for pH:   | >12 unless noted) |
| 12. Are matrices of                |                   |  |   |                    | Yes 🗸                              | No 🗌      | Adjusted?   | unioso noted)     |
| 13. Is it clear what               | analyses we       | re requested   | ?   |                    | Yes 🗸                              | No 🗌      |   |                   |
| 14. Were all holdin                |                   |  |   |                    | Yes 🗸                              | No 🗆      | Checked by: T   | PAD 216/19        |
| (If no, notify co                  |                   |  |   |                    |                                    |           |   |                   |
| Special Handl                      |                   |  |   |                    |                                    |           |   |                   |
| 15. Was client no                  | tified of all dis | screpancies v  | vith this order?  |                    | Yes                                | No 🗌      | NA 🗹  |                   |
| Person                             | Notified:         | Contract of the state of the st |   | Date:              |                                    |           |   |                   |
| By Who                             | ,                 |  |   | Via:               | eMail                              | Phone Fax | ☐ In Person   |                   |
| Regardi                            | ,                 | THE  |   |                    |                                    |           |   |                   |
|                                    | nstructions:      |  |   |                    |                                    |           |   |                   |
| 16. Additional rei                 | marks:            |  |   |                    |                                    |           |   |                   |
| 17. Cooler Infor                   | The second second | I was to the content of  | I and the same of | I to the same as a | and the first of the second second |           | i i   |                   |
| Cooler No                          | Temp °C<br>1.7    | Condition<br>Good  | Seal Intact<br>Yes  | Seal No            | Seal Date                          | Signed By | enilabenealourene   |                   |
|                                    |                   | Jood   | 100   |                    |                                    |           | Production of the Contract of |                   |

|                         | HALL ENVIRONMENTAL ANALYSIS LABORATORY |                           |                                  |  |                      |                         | 8:53.                                     |  |         | (1            | N 10            | )<br>(Y             | Air Bubbles                        |              |       |     |   |     |     |     |      |     |  |                          | Page 71                      |  |
|-------------------------|--|---------------------------|----------------------------------|--|----------------------|-------------------------|---|--|---------|---------------|-----------------|---------------------|------------------------------------|--------------|-------|-----|---|-----|-----|-----|------|-----|--|--------------------------|------------------------------|--|
|                         | MEN                                    |                           | 007                              | 601  | 7                    |                         |   |  |         |               |                 |                     |                                    |              | 6 4 4 |     |   |     |     |     |      | 10  |  |                          |                              |  |
|                         |  | mo                        |                                  | Albuque, que, ivivi oz 109   | 505-345-4107         | 3,4                     |   |  |         |               | (A              |                     | -im92) 0728                        |              |       |     |   |     |     |     |      |     |  |                          |                              | 4  |
|                         | 8 S                                    | ntal                      |                                  | ne, n  | 5-34                 | dne                     | á   | 0.00                                       |         | 700           | 0.11            |                     | 3260B (VOA                         |              |       |     |   | -   |     | 1   | 9.2. |     |  | 13                       |                              | 18 C. S. |
|                         | S                                      | nme                       |                                  | hen  |                      | <b>Analysis Request</b> |   |  |         |               |                 |                     | Sold Pestic                        | -            |       |     | - |     |     |     |      |     |  | Bill to Entroprile       | @b00                         |  |
| i                       | Z [S                                   | oviro                     |                                  | bnan   | Fax                  | alysi                   | (,C                                       | S  | DO.     | O             |                 |                     | J, H) snoin/                       |              | 10 5  | -   | - | -   |     | 6   |      | 8   |  | 7                        | 8                            |  |
|                         | בְׁיִב                                 | www.hallenvironmental.com | - 1                              | 1  | 2                    | Ana                     | 1/5                                       | PAH's (8310 or 8270 SIMS)<br>RCRA 8 Metals |         |               |                 |                     |                                    |              |       |     |   |     |     |     |      |     | B  | Long<br>Nul              |                              |  |
| - 7                     | ANAL                                   | ***                       |                                  | 2  | Tel. 505-345-3975    |                         |   | EDB (Method 504.1)                         |         |               |                 |                     |                                    |              |       |     |   |     |     |     |      |     | 3  |                          | -                            |  |
|                         | I                                      | 3                         | wkin                             | N<br>N   |                      |                         |   | TPH (Method 418.1)                         |         |               |                 |                     |                                    | 0            | -     |     | - | 7   |     |     |      |     | (0)  | AFE                      |                              |  |
|                         | -                                      |                           | 4901 Hawkins NE                  |  | . 505                |                         | TPH 8015B (GRO / DRO / MRO)               |  |         |               |                 |                     |                                    |              |       |     |   |     |     |     |      | is: |  |                          |                              |  |
| 665                     |  | 300                       | 0                                | 150<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100 | Tel                  |                         |   |  |         |               |                 |                     | TEX + MTI                          | -            |       |     |   |     | t   |     |      | 10  |  | Remarks:                 | 3 8                          |  |
|                         |  |                           |                                  |  | 291                  |                         | S. Santa                                  |  |         |               |                 |                     | STEX + MI                          |              |       |     |   |     |     |     |      |     |  | Sem                      |                              |  |
| 18                      | 100                                    | ¥.                        |                                  | Ţ  | 4 8                  | Closes.                 | 5 H T                                     |  |         |               |                 |                     | 8                                  |              | FILE  | 8 8 |   | 3.0 | 1 1 | 9.8 | 91   | 191 |  |                          | 1981                         |  |
|                         |  |                           | 12-22 16                         | Chitago in Courage 10 11 4 1                                       |                      |                         |   |  |         | Monde         | % □             | ٥                   | HEAL NO.                           | 8            |       |     |   |     |     |     |      | 11  |  | Date Time 7/5//5 154     | Date Time 2/6/19 8/18        | 01.0 . 110/2                                 |
| Time:                   | □ Rush                                 | iii                       | Con                              | アカード   |                      |                         | ager:                                     |  | 2 boods | asher         | Yes             | perature: //7       | Preservative<br>Type               | Non          |       |     |   |     |     |     | /    |     | 17-59-476 (P040)   | Lala                     | reuciec                      | - 1  |
| Turn-Around Time:       | X Standard                             | Project Name:             |                                  | Droigot #:   | FioJect #.           |                         | Project Manager:                          |  | Hash    | Sampler: H    | 2350            | Sample Temperature: | Container<br>Type and #            | () for Glass |       |     |   |     |     |     |      |     |  | Received by:             | Received by:                 |  |
| Chain-of-Custody Record | Client: Rule Engineering               |                           | Mailing Address: A November 1975 | HINDOR'S OF  | Farmington, NM 87401 | Phone #: (505)716-2787  | email or Fax#: husoods @rulenginering.con | QA/QC Package:                             |         | Accreditation | □ NELAP □ Other | □ EDD (Type)        | Date Time Matrix Sample Request ID | 19           |       |     | / | /   | *** |     |      |     | THE COURT OF THE PROPERTY OF T | John 1541 Hinduished by: | Date: Time: Relinquished by: |  |



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

April 26, 2019

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055

FAX

RE: Enterprise Federal 13-22 #2 OrderNo.: 1904839

#### Dear Heather Woods:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/17/2019 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Client Sample ID: SB-1 @ 20

**Project:** Enterprise Federal 13-22 #2

**Collection Date:** 4/16/2019 11:13:00 AM

**Lab ID:** 1904839-001

**Received Date:** 4/17/2019 8:30:00 AM

| Analyses                            | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch |
|-------------------------------------|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS |          |      |       |    | Analyst              | : JME |
| Diesel Range Organics (DRO)         | 27     | 9.9      |      | mg/Kg | 1  | 4/23/2019 6:17:53 PM | 44446 |
| Motor Oil Range Organics (MRO)      | ND     | 49       |      | mg/Kg | 1  | 4/23/2019 6:17:53 PM | 44446 |
| Surr: DNOP                          | 97.0   | 70-130   |      | %Rec  | 1  | 4/23/2019 6:17:53 PM | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE    |        |          |      |       |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)       | 520    | 48       |      | mg/Kg | 10 | 4/19/2019 6:04:12 PM | 44392 |
| Surr: BFB                           | 221    | 73.8-119 | S    | %Rec  | 10 | 4/19/2019 6:04:12 PM | 44392 |
| EPA METHOD 8021B: VOLATILES         |        |          |      |       |    | Analyst              | : NSB |
| Benzene                             | ND     | 0.24     |      | mg/Kg | 10 | 4/19/2019 6:04:12 PM | 44392 |
| Toluene                             | 5.5    | 0.48     |      | mg/Kg | 10 | 4/19/2019 6:04:12 PM | 44392 |
| Ethylbenzene                        | 2.7    | 0.48     |      | mg/Kg | 10 | 4/19/2019 6:04:12 PM | 44392 |
| Xylenes, Total                      | 29     | 0.96     |      | mg/Kg | 10 | 4/19/2019 6:04:12 PM | 44392 |
| Surr: 4-Bromofluorobenzene          | 96.8   | 80-120   |      | %Rec  | 10 | 4/19/2019 6:04:12 PM | 44392 |

Matrix: SOIL

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

- 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 Limit

Page 1 of 14

**Analytical Report** 

Lab Order 1904839

Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SB-1 @ 22.5

 Project:
 Enterprise Federal 13-22 #2
 Collection Date: 4/16/2019 11:23:00 AM

 Lab ID:
 1904839-002
 Matrix: SOIL
 Received Date: 4/17/2019 8:30:00 AM

| Analyses                             | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------|-------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |      |       |    | Analyst              | JME   |
| Diesel Range Organics (DRO)          | ND     | 9.6      |      | mg/Kg | 1  | 4/23/2019 6:42:21 PM | 44446 |
| Motor Oil Range Organics (MRO)       | ND     | 48       |      | mg/Kg | 1  | 4/23/2019 6:42:21 PM | 44446 |
| Surr: DNOP                           | 86.9   | 70-130   |      | %Rec  | 1  | 4/23/2019 6:42:21 PM | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |      |       |    | Analyst              | NSB   |
| Gasoline Range Organics (GRO)        | 41     | 9.9      |      | mg/Kg | 2  | 4/19/2019 6:27:29 PM | 44392 |
| Surr: BFB                            | 131    | 73.8-119 | S    | %Rec  | 2  | 4/19/2019 6:27:29 PM | 44392 |
| EPA METHOD 8021B: VOLATILES          |        |          |      |       |    | Analyst              | NSB   |
| Benzene                              | ND     | 0.050    |      | mg/Kg | 2  | 4/19/2019 6:27:29 PM | 44392 |
| Toluene                              | 0.11   | 0.099    |      | mg/Kg | 2  | 4/19/2019 6:27:29 PM | 44392 |
| Ethylbenzene                         | ND     | 0.099    |      | mg/Kg | 2  | 4/19/2019 6:27:29 PM | 44392 |
| Xylenes, Total                       | 0.89   | 0.20     |      | mg/Kg | 2  | 4/19/2019 6:27:29 PM | 44392 |
| Surr: 4-Bromofluorobenzene           | 91.4   | 80-120   |      | %Rec  | 2  | 4/19/2019 6:27:29 PM | 44392 |

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

- 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 Limit

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### **Analytical Report**

Lab Order 1904839

Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SB-1 @ 30

 Project:
 Enterprise Federal 13-22 #2
 Collection Date: 4/16/2019 11:43:00 AM

 Lab ID:
 1904839-003
 Matrix: SOIL
 Received Date: 4/17/2019 8:30:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : JME |
| Diesel Range Organics (DRO)          | 18     | 9.8      | mg/Kg      | 1  | 4/23/2019 7:06:40 PM | 44446 |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 4/23/2019 7:06:40 PM | 44446 |
| Surr: DNOP                           | 91.0   | 70-130   | %Rec       | 1  | 4/23/2019 7:06:40 PM | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 4/19/2019 9:35:38 PM | 44413 |
| Surr: BFB                            | 86.8   | 73.8-119 | %Rec       | 1  | 4/19/2019 9:35:38 PM | 44413 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 4/19/2019 9:35:38 PM | 44413 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 4/19/2019 9:35:38 PM | 44413 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 4/19/2019 9:35:38 PM | 44413 |
| Xylenes, Total                       | ND     | 0.096    | mg/Kg      | 1  | 4/19/2019 9:35:38 PM | 44413 |
| Surr: 4-Bromofluorobenzene           | 86.2   | 80-120   | %Rec       | 1  | 4/19/2019 9:35:38 PM | 44413 |

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

- 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 Limit

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Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Enterprise Federal 13-22 #2

**Lab ID:** 1904839-004

**Project:** 

Matrix: SOIL

**Client Sample ID:** SB-2 @ 10 **Collection Date:** 4/16/2019 9:45:00 AM

**Received Date:** 4/17/2019 8:30:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst               | : JME |
| Diesel Range Organics (DRO)          | 10     | 9.3      | mg/Kg      | 1  | 4/23/2019 7:31:01 PM  | 44446 |
| Motor Oil Range Organics (MRO)       | ND     | 46       | mg/Kg      | 1  | 4/23/2019 7:31:01 PM  | 44446 |
| Surr: DNOP                           | 99.5   | 70-130   | %Rec       | 1  | 4/23/2019 7:31:01 PM  | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst               | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.7      | mg/Kg      | 1  | 4/19/2019 10:46:15 PM | 44413 |
| Surr: BFB                            | 87.6   | 73.8-119 | %Rec       | 1  | 4/19/2019 10:46:15 PM | 44413 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst               | : NSB |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 4/19/2019 10:46:15 PM | 44413 |
| Toluene                              | ND     | 0.047    | mg/Kg      | 1  | 4/19/2019 10:46:15 PM | 44413 |
| Ethylbenzene                         | ND     | 0.047    | mg/Kg      | 1  | 4/19/2019 10:46:15 PM | 44413 |
| Xylenes, Total                       | ND     | 0.095    | mg/Kg      | 1  | 4/19/2019 10:46:15 PM | 44413 |
| Surr: 4-Bromofluorobenzene           | 88.1   | 80-120   | %Rec       | 1  | 4/19/2019 10:46:15 PM | 44413 |

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

- 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 Limit

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Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

**Project:** Enterprise Federal 13-22 #2

**Lab ID:** 1904839-005

Client Sample ID: SB-2 @ 15

**Collection Date:** 4/16/2019 9:58:00 AM

Received Date: 4/17/2019 8:30:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst               | : JME |
| Diesel Range Organics (DRO)          | ND     | 9.8      | mg/Kg      | 1  | 4/23/2019 7:55:23 PM  | 44446 |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 4/23/2019 7:55:23 PM  | 44446 |
| Surr: DNOP                           | 91.8   | 70-130   | %Rec       | 1  | 4/23/2019 7:55:23 PM  | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst               | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 4/19/2019 11:56:32 PM | 44413 |
| Surr: BFB                            | 87.0   | 73.8-119 | %Rec       | 1  | 4/19/2019 11:56:32 PM | 44413 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst               | : NSB |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 4/19/2019 11:56:32 PM | 44413 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 4/19/2019 11:56:32 PM | 44413 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 4/19/2019 11:56:32 PM | 44413 |
| Xylenes, Total                       | ND     | 0.095    | mg/Kg      | 1  | 4/19/2019 11:56:32 PM | 44413 |
| Surr: 4-Bromofluorobenzene           | 87.2   | 80-120   | %Rec       | 1  | 4/19/2019 11:56:32 PM | 44413 |

Matrix: SOIL

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

- 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 Limit

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### **Analytical Report**

Lab Order 1904839

Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SB-2 @ 25

 Project:
 Enterprise Federal 13-22 #2
 Collection Date: 4/16/2019 10:20:00 AM

 Lab ID:
 1904839-006
 Matrix: SOIL
 Received Date: 4/17/2019 8:30:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst               | JME   |
| Diesel Range Organics (DRO)          | ND     | 10       | mg/Kg      | 1  | 4/23/2019 8:19:46 PM  | 44446 |
| Motor Oil Range Organics (MRO)       | ND     | 50       | mg/Kg      | 1  | 4/23/2019 8:19:46 PM  | 44446 |
| Surr: DNOP                           | 91.4   | 70-130   | %Rec       | 1  | 4/23/2019 8:19:46 PM  | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst               | NSB   |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 4/20/2019 12:20:06 AM | 44413 |
| Surr: BFB                            | 87.4   | 73.8-119 | %Rec       | 1  | 4/20/2019 12:20:06 AM | 44413 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst               | NSB   |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 4/20/2019 12:20:06 AM | 44413 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 4/20/2019 12:20:06 AM | 44413 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 4/20/2019 12:20:06 AM | 44413 |
| Xylenes, Total                       | ND     | 0.095    | mg/Kg      | 1  | 4/20/2019 12:20:06 AM | 44413 |
| Surr: 4-Bromofluorobenzene           | 86.4   | 80-120   | %Rec       | 1  | 4/20/2019 12:20:06 AM | 44413 |

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

- 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 Limit

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Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Enterprise Federal 13-22 #2

**Lab ID:** 1904839-007

**Project:** 

Matrix: SOIL

Client Sample ID: SB-3 @ 12.5 Collection Date: 4/16/2019 12:47:00 PM

**Received Date:** 4/17/2019 8:30:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed         | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst               | : JME |
| Diesel Range Organics (DRO)          | ND     | 9.7      | mg/Kg      | 1  | 4/23/2019 8:44:00 PM  | 44446 |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 4/23/2019 8:44:00 PM  | 44446 |
| Surr: DNOP                           | 89.0   | 70-130   | %Rec       | 1  | 4/23/2019 8:44:00 PM  | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst               | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 4/20/2019 12:43:43 AM | 44413 |
| Surr: BFB                            | 87.9   | 73.8-119 | %Rec       | 1  | 4/20/2019 12:43:43 AM | 44413 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst               | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 4/20/2019 12:43:43 AM | 44413 |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 4/20/2019 12:43:43 AM | 44413 |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 4/20/2019 12:43:43 AM | 44413 |
| Xylenes, Total                       | ND     | 0.10     | mg/Kg      | 1  | 4/20/2019 12:43:43 AM | 44413 |
| Surr: 4-Bromofluorobenzene           | 88.3   | 80-120   | %Rec       | 1  | 4/20/2019 12:43:43 AM | 44413 |

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

- 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 Limit

Page 7 of 14

Lab ID:

Xylenes, Total

Surr: 4-Bromofluorobenzene

### **Analytical Report** Lab Order 1904839

Date Reported: 4/26/2019

4/20/2019 1:07:11 AM

4/20/2019 1:07:11 AM

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Client Sample ID: SB-3 @ 20

mg/Kg

%Rec

1

**Project:** Enterprise Federal 13-22 #2 1904839-008

Collection Date: 4/16/2019 1:08:00 PM Received Date: 4/17/2019 8:30:00 AM

Result **RL Qual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 4/23/2019 9:08:19 PM 44446 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/23/2019 9:08:19 PM 44446 Surr: DNOP 94.2 70-130 %Rec 4/23/2019 9:08:19 PM 44446 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/20/2019 1:07:11 AM 44413 4.7 mg/Kg 1 Surr: BFB 86.2 %Rec 4/20/2019 1:07:11 AM 73.8-119 44413 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 4/20/2019 1:07:11 AM 44413 Benzene ND 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/20/2019 1:07:11 AM 44413 Ethylbenzene ND 0.047 mg/Kg 4/20/2019 1:07:11 AM 44413

ND

86.0

0.095

80-120

Matrix: SOIL

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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

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44413

44413

Date Reported: 4/26/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Client Sample ID: SB-3 @ 25

**Project:** Enterprise Federal 13-22 #2

**Collection Date:** 4/16/2019 1:19:00 PM

**Lab ID:** 1904839-009

**Received Date:** 4/17/2019 8:30:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst              | : JME |
| Diesel Range Organics (DRO)          | ND     | 9.6      | mg/Kg      | 1  | 4/23/2019 9:32:31 PM | 44446 |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg      | 1  | 4/23/2019 9:32:31 PM | 44446 |
| Surr: DNOP                           | 89.5   | 70-130   | %Rec       | 1  | 4/23/2019 9:32:31 PM | 44446 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.7      | mg/Kg      | 1  | 4/20/2019 1:30:42 AM | 44413 |
| Surr: BFB                            | 85.8   | 73.8-119 | %Rec       | 1  | 4/20/2019 1:30:42 AM | 44413 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.023    | mg/Kg      | 1  | 4/20/2019 1:30:42 AM | 44413 |
| Toluene                              | ND     | 0.047    | mg/Kg      | 1  | 4/20/2019 1:30:42 AM | 44413 |
| Ethylbenzene                         | ND     | 0.047    | mg/Kg      | 1  | 4/20/2019 1:30:42 AM | 44413 |
| Xylenes, Total                       | ND     | 0.093    | mg/Kg      | 1  | 4/20/2019 1:30:42 AM | 44413 |
| Surr: 4-Bromofluorobenzene           | 85.8   | 80-120   | %Rec       | 1  | 4/20/2019 1:30:42 AM | 44413 |

Matrix: SOIL

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

- 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

1904839 26-Apr-19

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13-22 #2

| Sample ID: <b>MB-44446</b>     | SampType: <b>MBLK</b> |                  |           | Tes         | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |             |      |          |      |
|--------------------------------|-----------------------|------------------|-----------|-------------|---|----------|-------------|------|----------|------|
| Client ID: PBS                 | Batch                 | ID: <b>44</b> 4  | 446       | F           | RunNo: 59   | 9340     |             |      |          |      |
| Prep Date: <b>4/19/2019</b>    | Analysis D            | ate: <b>4/</b> 2 | 23/2019   | S           | SeqNo: 19   | 998807   | Units: mg/K | g    |          |      |
| 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                     | 9.0                   |                  | 10.00     |             | 90.4  | 70       | 130         |      |          |      |

| Sample ID: LCS-44446        | SampT      | ype: LC                  | s         | Tes                 | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |           |              |          |      |  |
|-----------------------------|------------|--------------------------|-----------|---------------------|---|----------|-----------|--------------|----------|------|--|
| Client ID: LCSS             | Batch      | n ID: <b>44</b>          | 446       | RunNo: <b>59340</b> |   |          |           |              |          |      |  |
| Prep Date: 4/19/2019        | Analysis D | Analysis Date: 4/23/2019 |           |                     | SeqNo: 1998808                                      |          |           | Units: mg/Kg |          |      |  |
| Analyte                     | Result     | PQL                      | SPK value | SPK Ref Val         | %REC  | LowLimit | HighLimit | %RPD         | RPDLimit | Qual |  |
| Diesel Range Organics (DRO) | 47         | 10                       | 50.00     | 0                   | 95.0  | 63.9     | 124       |              |          |      |  |
| Surr: DNOP                  | 4.4        |                          | 5.000     |                     | 87.2  | 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

- 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 Limit

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## Hall Environmental Analysis Laboratory, Inc.

ND

850

5.0

1000

1904839 26-Apr-19

WO#:

Client: Rule Engineering LLC
Project: Enterprise Federal 13-22 #2

| Sample ID: <b>MB-44392</b>    | SampType: MBLK           | TestCode: EPA Method      | 8015D: Gasoline Range        |
|-------------------------------|--------------------------|---------------------------|------------------------------|
| Client ID: PBS                | Batch ID: 44392          | RunNo: 59305              |                              |
| Prep Date: <b>4/17/2019</b>   | Analysis Date: 4/19/2019 | SeqNo: <b>1996962</b>     | 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                     | 880 1000                 | 88.2 73.8                 | 119                          |
| Sample ID: LCS-44392          | SampType: <b>LCS</b>     | TestCode: EPA Method      | 8015D: Gasoline Range        |
| Client ID: LCSS               | Batch ID: 44392          | RunNo: 59305              |                              |
| Prep Date: <b>4/17/2019</b>   | Analysis Date: 4/19/2019 | SeqNo: 1996963            | 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 99.2 80.1               | 123                          |
| Surr: BFB                     | 990 1000                 | 99.3 73.8                 | 119                          |
| Sample ID: <b>MB-44413</b>    | SampType: <b>MBLK</b>    | TestCode: EPA Method      | 8015D: Gasoline Range        |
| Client ID: PBS                | Batch ID: 44413          | RunNo: <b>59305</b>       |                              |
| Prep Date: 4/18/2019          | Analysis Date: 4/19/2019 | SeqNo: <b>1996985</b>     | Units: mg/Kg                 |
| Analyte                       | Result PQL SPK value     | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual |

| Sample ID: LCS-44413          | SampT      | ype: <b>LC</b> | s         | Tes         | TestCode: EPA Method 8015D: Gasoline Range |          |             |      |          |      |
|-------------------------------|------------|----------------|-----------|-------------|--|----------|-------------|------|----------|------|
| Client ID: LCSS               | Batch      | 1D: <b>44</b>  | 413       | F           | RunNo: 5                                   | 9305     |             |      |          |      |
| Prep Date: <b>4/18/2019</b>   | Analysis D | ate: 4/        | 19/2019   | S           | SeqNo: 1                                   | 996986   | Units: mg/K | (g   |          |      |
| Analyte                       | Result     | PQL            | SPK value | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24         | 5.0            | 25.00     | 0           | 97.6                                       | 80.1     | 123         |      |          |      |
| Surr: BFB                     | 980        |                | 1000      |             | 97.8                                       | 73.8     | 119         |      |          |      |

85.4

73.8

119

| Sample ID: <b>1904839-003AMS</b> | SampT      | уре: <b>М</b> \$ | 3         | Tes         | tCode: El | PA Method | 8015D: Gaso | line Rang | е        |      |
|----------------------------------|------------|------------------|-----------|-------------|-----------|-----------|-------------|-----------|----------|------|
| Client ID: SB-1 @ 30             | Batch      | ID: <b>44</b>    | 413       | F           | RunNo: 5  | 9305      |             |           |          |      |
| Prep Date: 4/18/2019             | Analysis D | ate: <b>4/</b>   | 19/2019   | S           | SeqNo: 19 | 996990    | Units: mg/K | (g        |          |      |
| Analyte                          | Result     | PQL              | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit   | %RPD      | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 23         | 4.8              | 24.02     | 0           | 97.1      | 69.1      | 142         |           |          |      |
| Surr: BFB                        | 920        |                  | 960.6     |             | 96.3      | 73.8      | 119         |           |          |      |

| Sample ID: 1904839-003AMSE | SampType: <b>MSD</b>     | TestCode: EPA Method      | 8015D: Gasoline Range |               |
|----------------------------|--------------------------|---------------------------|-----------------------|---------------|
| Client ID: SB-1 @ 30       | Batch ID: 44413          | RunNo: <b>59305</b>       |                       |               |
| Prep Date: 4/18/2019       | Analysis Date: 4/19/2019 | SeqNo: 1996991            | Units: mg/Kg          |               |
| Analyte                    | Result PQL SPK value     | SPK Ref Val %REC LowLimit | HighLimit %RPD        | RPDLimit Qual |

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Gasoline Range Organics (GRO)

Surr: BFB

- 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

- 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 Limit

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## Hall Environmental Analysis Laboratory, Inc.

1904839 26-Apr-19

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13-22 #2

Sample ID: 1904839-003AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SB-1 @ 30 Batch ID: 44413 RunNo: 59305

Prep Date: 4/18/2019 Analysis Date: 4/19/2019 SeqNo: 1996991 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 24 20 Gasoline Range Organics (GRO) 4.9 24.56 97.8 69.1 142 2.89 Surr: BFB 970 982.3 98.9 73.8 119 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
- PQL Practical Quanitative Limit
- 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

26-Apr-19

1904839

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13-22 #2

| Sample ID: MB-44392        | SampT      | уре: <b>МЕ</b>    | BLK       | Tes            | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|----------------------------|------------|-------------------|-----------|----------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBS             | Batcl      | h ID: <b>44</b> : | 392       | F              | RunNo: 5  | 9305      |              |      |          |      |
| Prep Date: 4/17/2019       | Analysis D | Date: <b>4/</b>   | 19/2019   | SeqNo: 1997004 |           |           | Units: mg/K  | (g   |          |      |
| 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 | 0.88       |                   | 1.000     |                | 88.4      | 80        | 120          |      |          |      |

| Sample ID: LCS-44392       | SampT      | ype: <b>LC</b>    | S         | Tes         | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: LCSS            | Batcl      | h ID: <b>44</b> : | 392       | F           | RunNo: 5  | 9305      |              |      |          |      |
| Prep Date: 4/17/2019       | Analysis [ | Date: 4/          | 19/2019   | S           | SeqNo: 1  | 997005    | Units: mg/K  | (g   |          |      |
| 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                    | 0.96       | 0.050             | 1.000     | 0           | 95.8      | 80        | 120          |      |          |      |
| Ethylbenzene               | 0.96       | 0.050             | 1.000     | 0           | 95.8      | 80        | 120          |      |          |      |
| Xylenes, Total             | 2.9        | 0.10              | 3.000     | 0           | 96.4      | 80        | 120          |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.90       |                   | 1.000     |             | 89.6      | 80        | 120          |      |          |      |

| Sample ID: <b>MB-44413</b> | SampT      | ype: ME         | BLK       | Test        | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBS             | Batcl      | n ID: <b>44</b> | 413       | R           | RunNo: 5  | 9305      |              |      |          |      |
| Prep Date: 4/18/2019       | Analysis D | ate: <b>4/</b>  | 19/2019   | S           | SeqNo: 1  | 997021    | Units: mg/K  | g    |          |      |
| 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 | 0.86       |                 | 1.000     |             | 86.1      | 80        | 120          |      |          |      |

| Sample ID: LCS-44413       | Samp       | Гуре: <b>LC</b>   | S         | Tes            | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|----------------------------|------------|-------------------|-----------|----------------|-----------|-----------|--------------|------|----------|------|
| Client ID: LCSS            | Batc       | h ID: <b>44</b> 4 | 413       | F              | RunNo: 5  | 9305      |              |      |          |      |
| Prep Date: 4/18/2019       | Analysis [ | Date: <b>4/</b>   | 19/2019   | SeqNo: 1997022 |           |           | Units: mg/K  | (g   |          |      |
| Analyte                    | Result     | PQL               | SPK value | SPK Ref Val    | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.89       | 0.025             | 1.000     | 0              | 89.0      | 80        | 120          |      |          |      |
| Toluene                    | 0.94       | 0.050             | 1.000     | 0              | 94.0      | 80        | 120          |      |          |      |
| Ethylbenzene               | 0.93       | 0.050             | 1.000     | 0              | 93.4      | 80        | 120          |      |          |      |
| Xylenes, Total             | 2.8        | 0.10              | 3.000     | 0 94.2 80      |           | 120       |              |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.86       |                   | 1.000     |                | 86.2      | 80        | 120          |      |          |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

8 % 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

1904839 26-Apr-19

WO#:

Client: Rule Engineering LLC

Project: Enterprise Federal 13-22 #2

| Sample ID: 1904839-004AM    | S Samp     | Гуре: М\$                | 6         | Tes         | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|-----------------------------|------------|--------------------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: SB-2 @ 10        | Batc       | h ID: <b>44</b>          | 413       | F           | RunNo: 5  | 9305      |              |      |          |      |
| Prep Date: <b>4/18/2019</b> | Analysis [ | Analysis Date: 4/19/2019 |           |             | SeqNo: 1  | 997027    | Units: mg/K  | (g   |          |      |
| Analyte                     | Result     | PQL                      | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                     | 0.84       | 0.023                    | 0.9372    | 0           | 89.3      | 63.9      | 127          |      |          |      |
| Toluene                     | 0.89       | 0.047                    | 0.9372    | 0.01206     | 94.1      | 69.9      | 131          |      |          |      |
| Ethylbenzene                | 0.89       | 0.047                    | 0.9372    | 0           | 95.5      | 71        | 132          |      |          |      |
| Xylenes, Total              | 2.7        | 2.7 0.094 2.812          |           | 0.01462     | 96.3      | 71.8      | 131          |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.83       |                          | 0.9372    |             | 88.2      | 80        | 120          |      |          |      |

| Sample ID: 1904839-004AM                      | I <b>SD</b> SampT | уре: М          | SD        | Tes         | tCode: El | PA Method | 8021B: Volat | iles  |          |      |
|---|-------------------|-----------------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Client ID: SB-2 @ 10                          | Batcl             | n ID: <b>44</b> | 413       | F           | RunNo: 5  | 9305      |              |       |          |      |
| Prep Date: 4/18/2019 Analysis Date: 4/19/2019 |                   |                 |           | S           | SeqNo: 1  | 997028    | Units: mg/K  | (g    |          |      |
| Analyte                                       | Result            | PQL             | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD  | RPDLimit | Qual |
| Benzene                                       | 0.84              | 0.023           | 0.9390    | 0           | 90.0      | 63.9      | 127          | 0.946 | 20       |      |
| Toluene                                       | 0.90              | 0.047           | 0.9390    | 0.01206     | 94.9      | 69.9      | 131          | 0.960 | 20       |      |
| Ethylbenzene                                  | 0.91              | 0.047           | 0.9390    | 0           | 97.0      | 71        | 132          | 1.78  | 20       |      |
| Xylenes, Total                                | 2.8               | 0.094           | 2.817     | 0.01462     | 97.8      | 71.8      | 131          | 1.73  | 20       |      |
| Surr: 4-Bromofluorobenzene                    | 0.83              |                 | 0.9390    | 88.6 80     |           |           | 120          | 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
- PQL Practical Quanitative Limit
- 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 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: RULE ENGINEERING LL Work Order Num   | ber: 1904839 |               | RcptNo: 1                            |
|---|--------------|---------------|--------------------------------------|
| Received By: Victoria Zellar 4/17/2019 8:30:00  | АМ           | Victoria Sell | an                                   |
| Completed By: Erin Melendrez 4/17/2019 8:45:40  | AM           | U-UI          | <del></del>                          |
| Reviewed By: FNH 4/17/19  |              | , 4           | i i                                  |
| LB: DAD 4/17/19   |              |               |                                      |
| 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. VOA vials have zero headspace?   | Yes          | No 🗌          | No VOA Vials 🗹                       |
| 10. Were any sample containers received broken?   | Yes          | No 🗸          | # of preserved                       |
| 11 D  |              |               | bottles checked                      |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)  | Yes 🗸        | No 📙          | for pH:<br>(<2 or >1/2 unless noted) |
| 12. Are matrices correctly identified on Chain of Custody?  | Yes 🗸        | No 🗆          | Adjusted?                            |
| 13. Is it clear what analyses were requested?   | Yes 🗸        | No 🗌          |                                      |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization.)   | Yes 🗸        | No 🗌          | Checked by: DAD 4117/19              |
| 5 8 5 500 No. 10,000 No. 1000 |              |               |                                      |
| Special Handling (if applicable)  15. Was client notified of all discrepancies with this order?   | Yes          | No 🗆          | NA 🗹                                 |
| Person Notified: Date:  | . [          | -             |                                      |
| By Whom: Via:   |              | 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 3.1 Good Yes  |              |               |                                      |

| Chain-of-Custody Record   | Turn-Around Time:          | Time:                    |  |           |          |            | •                 |        |                 | i i     | (                         | 1                                | į        | ļ      |     |   |
|---|----------------------------|--------------------------|--|-----------|----------|------------|-------------------|--------|-----------------|---------|---------------------------|----------------------------------|----------|--------|-----|---|
| Client: Ruch Engineering  |                            | □ Rush                   |  | J L       |          | <b>–</b> – | ANAL              |        | YSTS            | 2       | 2 4                       | ENVIKONMENTAL<br>VSTS LABORATORY |          |        | A G |   |
|   | Project Name:              | 5                        |  |           |          |            |                   |        | Physic (        | ) 4     | www.hallenvironmental.com |                                  | 5        | )      |     | _ |
| Mailing Address: 501 Arroor P. Dr. Str 205  | Enterprise                 | so Federal               | al 13-22 #2  |           | 4901     | Hav        | 4901 Hawkins NE   | ·<br>当 | Albu            | dner    | que, N                    | Albuquerque, NM 87109            | 109      |        |     |   |
| Farmington, N.M. 87401  | Project #:                 |                          |  |           | Tel.     | 505        | Tel. 505-345-3975 | 975    | Ę               | Fax 50  | 5-345                     | 505-345-4107                     |          |        |     |   |
| Phone #: (505) 716-2787   |                            |                          | 7  |           |          |            |                   | A      | Analysis        |         | Request                   | ţ.                               |          |        |     |   |
| mbods Orulengine and  | Project Manager:           | ger:                     |  | (12       |          |            | ,                 | Á      | †OS             |         | (jne                      |                                  |          | -      | -   |   |
| QA/QC Package:  | ion) Heather Woods         | Monds                    |  | 08)æ      |          | .B.J.4     | SWIS              |        | ,₄<br>PO₄,      |         | edA\t                     |                                  |          |        |     |   |
| Accreditation:   Az Compliance  | Sampler: Heather           | after Wood               | SAS  | EMB.      |          |            |                   |        | NO <sup>5</sup> |         |                           |                                  |          |        |     |   |
| ype)  | # of Coolers:              | (14U)                    |  | <b>BE</b> |          |            |                   | stals  |                 |         |                           |                                  |          |        |     |   |
|   | Cooler Temp(including CF); | including CF):3,1        | ١ .  | 17V)      |          |            |                   | eΜ ε   |                 |         |                           |                                  |          |        |     |   |
| Date Time Matrix Sample Name  | Container<br>Type and #    | Preservative<br>Type     | 19 HEAL NO.  | BTEX /    | 08:H9T   | 8081 P6    | d sHA9            | RCRA 8 | Cl, F, E        | V) 0528 | S) 0728<br>Cotal Co       |                                  |          |        |     |   |
| 4/14/19 201 SB-1620   | (1) 402 Glass              | Non                      | -001   | ×         | *        |            |                   |        |                 |         |                           |                                  |          |        |     |   |
| 4/14/1123 Soil SB-1022.5  | (1) 400 G (b)              | Non                      | -002   | ×         | ×        |            |                   |        |                 | a       |                           |                                  |          |        |     |   |
| 4/16/19 114.3 Soil SB-1630  | (1) Hos Glass              | Non                      | -003   | ×         | ×        |            |                   | 7 2    |                 |         |                           |                                  | 1        |        |     |   |
| 4/14/19 0945 SO,1 SB-20 10  | (1)402 (Slass              | Non                      | -004   | ×         | ×        |            |                   |        |                 |         |                           |                                  |          |        |     |   |
| 4/14/90958 SOI SB-2015  | (i) 402 Glass              | Non                      | -005   | Y         | У        |            |                   |        |                 |         |                           |                                  |          |        |     |   |
| 4/14/9 1020 Soil SB-2@25  | (1) Hor Gluss              | Non                      | -00v   | ×         | ×        |            |                   |        |                 | -       |                           |                                  |          |        |     |   |
| 4/14/19 1247 Soil SB-3012.5   | (1) you Glass              | Non                      | -007   | ×         | ×        |            |                   |        |                 |         |                           |                                  | _        |        |     |   |
| 4/4/9 1308 Soil SB-3@20   | (1)402 Glass               | New                      | - 608  | ×         | 7        | _          |                   |        | _               | _       |                           |                                  |          |        |     |   |
| 4/18/9 1319 SOI 5B-3025   | (1) HOZ Glass              | Non                      | -009   | ×         | ×        | _          |                   |        |                 |         |                           |                                  |          |        |     |   |
|   |                            |                          |  |           |          |            |                   |        |                 |         |                           |                                  |          |        |     |   |
| 917.  | 140                        |                          |  |           |          |            |                   |        |                 |         |                           |                                  |          | _      |     |   |
|   |                            |                          |  |           |          |            |                   |        |                 |         |                           |                                  |          |        |     |   |
| Date: Time: Relinquished by:  | Received by:               | Via:                     | Date Time  | Remarks:  | ırks:    |            |                   |        |                 |         |                           |                                  |          | -      | -   |   |
| 11741   | (Mast 6                    | vale-                    | 4/16/19 1741   | .,        | Direct   |            | Bill to Entropris | E E    | yes             | 35      |                           |                                  |          |        |     |   |
| Date: Time: Relinquished by:  | Received by:               | Course                   | 7. Date Time   |           |          |            |                   |        |                 |         |                           |                                  |          |        |     |   |
| 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. | lidissod  | ity. Any | / sub-c    | ontracte          | data v | vill be c       | early n | otated or                 | the ans                          | alytical | eport. |     |   |



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

April 19, 2019

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055

FAX

RE: Enterprise Federal 13-22 2 OrderNo.: 1904756

#### Dear Heather Woods:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/16/2019 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

**Project:** 

Lab ID:

Analytical Report
Lab Order 1904756

Date Reported: 4/19/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Enterprise Federal 13-22 2

1904756-001

Client Sample ID: SB-4 @12.5'

**Collection Date:** 4/15/2019 2:49:00 PM

Received Date: 4/16/2019 8:15:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : JME |
| Diesel Range Organics (DRO)          | ND     | 9.5      | mg/Kg      | 1  | 4/17/2019 9:06:52 PM | 44365 |
| Motor Oil Range Organics (MRO)       | ND     | 47       | mg/Kg      | 1  | 4/17/2019 9:06:52 PM | 44365 |
| Surr: DNOP                           | 96.9   | 70-130   | %Rec       | 1  | 4/17/2019 9:06:52 PM | 44365 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 4/17/2019 5:05:29 PM | 44350 |
| Surr: BFB                            | 88.7   | 73.8-119 | %Rec       | 1  | 4/17/2019 5:05:29 PM | 44350 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 4/17/2019 5:05:29 PM | 44350 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 4/17/2019 5:05:29 PM | 44350 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 4/17/2019 5:05:29 PM | 44350 |
| Xylenes, Total                       | ND     | 0.097    | mg/Kg      | 1  | 4/17/2019 5:05:29 PM | 44350 |
| Surr: 4-Bromofluorobenzene           | 88.2   | 80-120   | %Rec       | 1  | 4/17/2019 5:05:29 PM | 44350 |

Matrix: SOIL

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

Qualifiers:

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 4/19/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SB-4@20'

 Project:
 Enterprise Federal 13-22 2
 Collection Date: 4/15/2019 3:15:00 PM

 Lab ID:
 1904756-002
 Matrix: SOIL
 Received Date: 4/16/2019 8:15:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : JME |
| Diesel Range Organics (DRO)          | ND     | 9.1      | mg/Kg      | 1  | 4/17/2019 9:30:46 PM | 44365 |
| Motor Oil Range Organics (MRO)       | ND     | 46       | mg/Kg      | 1  | 4/17/2019 9:30:46 PM | 44365 |
| Surr: DNOP                           | 99.6   | 70-130   | %Rec       | 1  | 4/17/2019 9:30:46 PM | 44365 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 4/17/2019 5:28:54 PM | 44350 |
| Surr: BFB                            | 92.0   | 73.8-119 | %Rec       | 1  | 4/17/2019 5:28:54 PM | 44350 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 4/17/2019 5:28:54 PM | 44350 |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 4/17/2019 5:28:54 PM | 44350 |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 4/17/2019 5:28:54 PM | 44350 |
| Xylenes, Total                       | ND     | 0.10     | mg/Kg      | 1  | 4/17/2019 5:28:54 PM | 44350 |
| Surr: 4-Bromofluorobenzene           | 90.7   | 80-120   | %Rec       | 1  | 4/17/2019 5:28:54 PM | 44350 |

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

Qualifiers:

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Client Sample ID: SB-4@25'

Collection Date: 4/15/2019 3:25:00 PM

Date Reported: 4/19/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

**Project:** Enterprise Federal 13-22 2

**Lab ID:** 1904756-003 **Matrix:** SOIL **Received Date:** 4/16/2019 8:15:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst              | : Irm |
| Diesel Range Organics (DRO)          | ND     | 9.7      | mg/Kg      | 1  | 4/17/2019 5:28:40 PM | 44375 |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg      | 1  | 4/17/2019 5:28:40 PM | 44375 |
| Surr: DNOP                           | 101    | 70-130   | %Rec       | 1  | 4/17/2019 5:28:40 PM | 44375 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 4/17/2019 5:52:23 PM | 44350 |
| Surr: BFB                            | 88.3   | 73.8-119 | %Rec       | 1  | 4/17/2019 5:52:23 PM | 44350 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 4/17/2019 5:52:23 PM | 44350 |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 4/17/2019 5:52:23 PM | 44350 |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 4/17/2019 5:52:23 PM | 44350 |
| Xylenes, Total                       | ND     | 0.099    | mg/Kg      | 1  | 4/17/2019 5:52:23 PM | 44350 |
| Surr: 4-Bromofluorobenzene           | 87.6   | 80-120   | %Rec       | 1  | 4/17/2019 5:52:23 PM | 44350 |

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

Qualifiers:

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

**Analytical Report** 

Lab Order 1904756

Date Reported: 4/19/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SB-5@17.5'

 Project:
 Enterprise Federal 13-22 2
 Collection Date: 4/15/2019 12:45:00 PM

 Lab ID:
 1904756-004
 Matrix: SOIL
 Received Date: 4/16/2019 8:15:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : Irm |
| Diesel Range Organics (DRO)          | ND     | 9.8      | mg/Kg      | 1  | 4/17/2019 6:34:57 PM | 44375 |
| Motor Oil Range Organics (MRO)       | ND     | 49       | mg/Kg      | 1  | 4/17/2019 6:34:57 PM | 44375 |
| Surr: DNOP                           | 92.7   | 70-130   | %Rec       | 1  | 4/17/2019 6:34:57 PM | 44375 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.8      | mg/Kg      | 1  | 4/17/2019 7:02:56 PM | 44350 |
| Surr: BFB                            | 92.3   | 73.8-119 | %Rec       | 1  | 4/17/2019 7:02:56 PM | 44350 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.024    | mg/Kg      | 1  | 4/17/2019 7:02:56 PM | 44350 |
| Toluene                              | ND     | 0.048    | mg/Kg      | 1  | 4/17/2019 7:02:56 PM | 44350 |
| Ethylbenzene                         | ND     | 0.048    | mg/Kg      | 1  | 4/17/2019 7:02:56 PM | 44350 |
| Xylenes, Total                       | ND     | 0.096    | mg/Kg      | 1  | 4/17/2019 7:02:56 PM | 44350 |
| Surr: 4-Bromofluorobenzene           | 91.6   | 80-120   | %Rec       | 1  | 4/17/2019 7:02:56 PM | 44350 |

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

Qualifiers:

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

**Project:** 

**Analytical Report** Lab Order 1904756

Collection Date: 4/15/2019 1:23:00 PM

Date Reported: 4/19/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Rule Engineering LLC

Client Sample ID: SB-5@25'

Enterprise Federal 13-22 2 Lab ID: 1904756-005 Matrix: SOIL Received Date: 4/16/2019 8:15:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch  |
|--------------------------------------|--------|----------|------------|----|----------------------|--------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS  |          |            |    | Analyst              | :: Irm |
| Diesel Range Organics (DRO)          | ND     | 9.6      | mg/Kg      | 1  | 4/17/2019 6:56:55 PM | 44375  |
| Motor Oil Range Organics (MRO)       | ND     | 48       | mg/Kg      | 1  | 4/17/2019 6:56:55 PM | 44375  |
| Surr: DNOP                           | 100    | 70-130   | %Rec       | 1  | 4/17/2019 6:56:55 PM | 44375  |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB  |
| Gasoline Range Organics (GRO)        | ND     | 5.0      | mg/Kg      | 1  | 4/17/2019 7:26:22 PM | 44350  |
| Surr: BFB                            | 90.0   | 73.8-119 | %Rec       | 1  | 4/17/2019 7:26:22 PM | 44350  |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB  |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 4/17/2019 7:26:22 PM | 44350  |
| Toluene                              | ND     | 0.050    | mg/Kg      | 1  | 4/17/2019 7:26:22 PM | 44350  |
| Ethylbenzene                         | ND     | 0.050    | mg/Kg      | 1  | 4/17/2019 7:26:22 PM | 44350  |
| Xylenes, Total                       | ND     | 0.099    | mg/Kg      | 1  | 4/17/2019 7:26:22 PM | 44350  |
| Surr: 4-Bromofluorobenzene           | 90.3   | 80-120   | %Rec       | 1  | 4/17/2019 7:26:22 PM | 44350  |

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

Qualifiers:

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Not Detected at the Reporting Limit

RL Reporting Detection Limit

**Analytical Report** 

Lab Order 1904756

Date Reported: 4/19/2019

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC Client Sample ID: SB-5@30'

 Project:
 Enterprise Federal 13-22 2
 Collection Date: 4/15/2019 1:39:00 PM

 Lab ID:
 1904756-006
 Matrix: SOIL
 Received Date: 4/16/2019 8:15:00 AM

| Analyses                             | Result | RL       | Qual Units | DF | Date Analyzed        | Batch |
|--------------------------------------|--------|----------|------------|----|----------------------|-------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS |          |            |    | Analyst              | : Irm |
| Diesel Range Organics (DRO)          | ND     | 9.5      | mg/Kg      | 1  | 4/17/2019 7:18:58 PM | 44375 |
| Motor Oil Range Organics (MRO)       | ND     | 47       | mg/Kg      | 1  | 4/17/2019 7:18:58 PM | 44375 |
| Surr: DNOP                           | 97.5   | 70-130   | %Rec       | 1  | 4/17/2019 7:18:58 PM | 44375 |
| EPA METHOD 8015D: GASOLINE RANGE     |        |          |            |    | Analyst              | : NSB |
| Gasoline Range Organics (GRO)        | ND     | 4.9      | mg/Kg      | 1  | 4/17/2019 7:49:54 PM | 44350 |
| Surr: BFB                            | 90.8   | 73.8-119 | %Rec       | 1  | 4/17/2019 7:49:54 PM | 44350 |
| EPA METHOD 8021B: VOLATILES          |        |          |            |    | Analyst              | : NSB |
| Benzene                              | ND     | 0.025    | mg/Kg      | 1  | 4/17/2019 7:49:54 PM | 44350 |
| Toluene                              | ND     | 0.049    | mg/Kg      | 1  | 4/17/2019 7:49:54 PM | 44350 |
| Ethylbenzene                         | ND     | 0.049    | mg/Kg      | 1  | 4/17/2019 7:49:54 PM | 44350 |
| Xylenes, Total                       | ND     | 0.099    | mg/Kg      | 1  | 4/17/2019 7:49:54 PM | 44350 |
| Surr: 4-Bromofluorobenzene           | 90.8   | 80-120   | %Rec       | 1  | 4/17/2019 7:49:54 PM | 44350 |

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

Qualifiers:

Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

19-Apr-19

1904756

WO#:

Client: Project: Rule Engineering LLC Enterprise Federal 13-22 2

| Sample ID: MB-44365            | SampT      | уре: <b>МЕ</b> | BLK       | TestCode: EPA Method 8015M/D: Diesel Range Organics |                             |          |           |      |          |      |  |
|--------------------------------|------------|----------------|-----------|---|-----------------------------|----------|-----------|------|----------|------|--|
| Client ID: PBS                 | Batch      | 1D: <b>44</b>  | 365       | R   | RunNo: 5                    | 9217     |           |      |          |      |  |
| Prep Date: 4/16/2019           | Analysis D | ate: 4/        | 17/2019   | S   | SeqNo: 1993697 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                     | 9.8        |                | 10.00     |   | 97.6                        | 70       | 130       |      |          |      |  |
|                                |            |                |           |   |                             |          |           |      |          |      |  |

| Sample ID: LCS-44365        | SampT      | ype: LC           | S         | Tes         | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |           |              |          |      |  |  |
|-----------------------------|------------|-------------------|-----------|-------------|---|----------|-----------|--------------|----------|------|--|--|
| Client ID: LCSS             | Batch      | n ID: <b>44</b> 3 | 365       | F           | RunNo: 5  | 9217     |           |              |          |      |  |  |
| Prep Date: 4/16/2019        | Analysis D | oate: <b>4/</b>   | 17/2019   | S           | SeqNo: <b>1993698</b>                               |          |           | Units: mg/Kg |          |      |  |  |
| Analyte                     | Result     | PQL               | SPK value | SPK Ref Val | %REC  | LowLimit | HighLimit | %RPD         | RPDLimit | Qual |  |  |
| Diesel Range Organics (DRO) | 48         | 10                | 50.00     | 0           | 96.0  | 63.9     | 124       |              |          |      |  |  |
| Surr: DNOP                  | 4.9        |                   | 5.000     |             | 98.0  | 70       | 130       |              |          |      |  |  |

| Sample ID: LCS-44375        | SampT      | ype: LC  | S         | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |          |              |      |          |      |  |
|-----------------------------|------------|----------|-----------|---|----------|----------|--------------|------|----------|------|--|
| Client ID: LCSS             | Batch      | n ID: 44 | 375       | F   | RunNo: 5 | 9198     |              |      |          |      |  |
| Prep Date: 4/16/2019        | Analysis D | ate: 4/  | 17/2019   | SeqNo: <b>1994878</b>                               |          |          | Units: mg/Kg |      |          |      |  |
| Analyte                     | Result     | PQL      | SPK value | SPK Ref Val   | %REC     | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |  |
| Diesel Range Organics (DRO) | 53         | 10       | 50.00     | 0   | 106      | 63.9     | 124          |      |          |      |  |
| Surr: DNOP                  | 4.8        |          | 5.000     |   | 96.2     | 70       | 130          |      |          |      |  |

| Sample ID: MB-44375            | SampT      | ype: ME         | BLK       | Tes         | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |             |      |          |      |  |
|--------------------------------|------------|-----------------|-----------|-------------|---|----------|-------------|------|----------|------|--|
| Client ID: PBS                 | Batch      | Batch ID: 44375 |           |             | RunNo: 5  | 9198     |             |      |          |      |  |
| Prep Date: 4/16/2019           | Analysis D | ate: <b>4/</b>  | 17/2019   | S           | SeqNo: 1  | 994879   | Units: mg/K | (g   |          |      |  |
| 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     |             | 102   | 70       | 130         |      |          |      |  |

| Sample ID: <b>1904756-003AMS</b> | SampT  | ype: MS  | 6         | Tes          | TestCode: EPA Method 8015M/D: Diesel Range Organics |          |           |      |          |      |  |
|----------------------------------|--------|----------|-----------|--------------|---|----------|-----------|------|----------|------|--|
| Client ID: SB-4@25'              | Batcl  | n ID: 44 | 375       | F            | RunNo: 5  | 9198     |           |      |          |      |  |
| Prep Date: 4/16/2019             | S      | SeqNo: 1 | 994881    | Units: mg/Kg |   |          |           |      |          |      |  |
| Analyte                          | Result | PQL      | SPK value | SPK Ref Val  | %REC  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |  |
| Diesel Range Organics (DRO)      | 54     | 9.8      | 48.88     | 2.874        | 105   | 53.5     | 126       |      | _        |      |  |
| Surr: DNOP                       | 4.8    |          | 4.888     |              | 98.9  | 70       | 130       |      |          |      |  |

### Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

<sup>%</sup> Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode

## Hall Environmental Analysis Laboratory, Inc.

1904756 19-Apr-19

**Client:** 

Rule Engineering LLC

Enterprise Federal 13-22 2 **Project:** 

Sample ID: 1904756-003AMSD

SampType: MSD

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID:

SB-4@25'

Batch ID: 44375

RunNo: 59198

SeqNo: 1994882 Units: mg/Kg

53.5

70

Prep Date: 4/16/2019

Analysis Date: 4/17/2019

9.3

126

130

Diesel Range Organics (DRO)

Result 50

4.7

Result

9.6

PQL SPK value SPK Ref Val

46.69

4.669

%REC LowLimit

HighLimit

%RPD **RPDLimit** Qual 7.37 21.7

0

WO#:

Surr: DNOP

Sample ID: LCS-44417

SampType: LCS

101

100

TestCode: EPA Method 8015M/D: Diesel Range Organics

%RPD

%RPD

0

Client ID:

LCSS

Batch ID: 44417

RunNo: 59244

%REC

Prep Date: 4/18/2019

Analysis Date: 4/18/2019

PQL

SeqNo: 1995026

I owl imit

Units: %Rec HighLimit

**RPDLimit** 

Qual

Analyte Surr: DNOP

4.8

5.000

SPK value SPK Ref Val

2.874

96.1 70

Sample ID: MB-44417 PBS

SampType: MBLK

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 59244

Client ID: Prep Date:

4/18/2019

Batch ID: 44417 Analysis Date: 4/18/2019

SeqNo: 1995028

Units: %Rec HighLimit

**RPDLimit** Qual

Analyte Surr: DNOP

PQL SPK value SPK Ref Val %REC Result

10.00

96.0

LowLimit 70

130

#### Qualifiers:

% Recovery outside of range due to dilution or matrix

## Hall Environmental Analysis Laboratory, Inc.

1904756 19-Apr-19

Client:

Rule Engineering LLC

Enterprise Federal 13-22 2 **Project:** 

Sample ID: MB-44350

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 44350

RunNo: 59231

Prep Date: 4/16/2019

Analysis Date: 4/17/2019

SeqNo: 1994106 Units: mg/Kg

73.8

Result PQL SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD

**RPDLimit** Qual

WO#:

Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 890

1000

1000

1000

89.3

119

25

1100

910

Sample ID: LCS-44350

LCSS

SampType: LCS Batch ID: 44350

RunNo: 59231

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Prep Date: 4/16/2019

Analysis Date: 4/17/2019

SeqNo: 1994107

Units: mg/Kg HighLimit

123

119

Analyte

Gasoline Range Organics (GRO)

Result PQL

5.0

SPK value SPK Ref Val %REC 25.00 0

99.7 80.1 108 73.8

LowLimit

%RPD **RPDLimit**  Qual

Surr: BFB

Sample ID: MB-44371 SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

4/16/2019

Batch ID: 44371 Analysis Date: 4/17/2019

RunNo: 59231

Units: %Rec

Analyte Surr: BFB

Client ID:

Prep Date:

Prep Date:

Result

SPK value SPK Ref Val %REC

LowLimit 91.2 73.8

HighLimit %RPD **RPDLimit** 

Qual

Sample ID: LCS-44371 LCSS

SampType: LCS Batch ID: 44371 TestCode: EPA Method 8015D: Gasoline Range

RunNo: 59231

SeqNo: 1994130

119

Analyte Surr: BFB 4/16/2019

Analysis Date: 4/17/2019

SeqNo: 1994131

Units: %Rec

HighLimit

**RPDLimit** Qual

1000

Result

1000

SPK value SPK Ref Val %REC

103 73.8

LowLimit

119

%RPD

**Qualifiers:** 

Holding times for preparation or analysis exceeded Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Not Detected at the Reporting Limit

Sample container temperature is out of limit as specified at testcode

Page 9 of 10

# Hall Environmental Analysis Laboratory, Inc.

1904756 19-Apr-19

WO#:

Client:

Rule Engineering LLC

**Project:** Enterprise Federal 13-22 2

| Sample ID: <b>MB-44350</b> | Samp       | Гуре: <b>МЕ</b> | BLK       | TestCode: EPA Method 8021B: Volatiles |          |          |             |      |          |      |
|----------------------------|------------|-----------------|-----------|---------------------------------------|----------|----------|-------------|------|----------|------|
| Client ID: PBS             | Batc       | h ID: <b>44</b> | 350       | R                                     | tunNo: 5 | 9231     |             |      |          |      |
| Prep Date: 4/16/2019       | Analysis [ | Date: <b>4/</b> | 17/2019   | SeqNo: <b>1994155</b>                 |          |          | Units: mg/K | (g   |          |      |
| 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 | 0.88       |                 | 1.000     |                                       | 87.7     | 80       | 120         |      |          |      |

| Sample ID: LCS-44350       | SampT      | ype: <b>LC</b>                             | S         | Tes         | tCode: El | 8021B: Volatiles |             |      |          |      |
|----------------------------|------------|--|-----------|-------------|-----------|------------------|-------------|------|----------|------|
| Client ID: LCSS            | Batcl      | Batch ID: <b>44350</b> RunNo: <b>59231</b> |           |             |           |                  |             |      |          |      |
| Prep Date: 4/16/2019       | Analysis D | Date: 4/                                   | 17/2019   | S           | SeqNo: 1  | 994156           | Units: mg/K | (g   |          |      |
| Analyte                    | Result     | PQL  | SPK value | SPK Ref Val | %REC      | LowLimit         | HighLimit   | %RPD | RPDLimit | Qual |
| Benzene                    | 0.90       | 0.025                                      | 1.000     | 0           | 90.3      | 80               | 120         |      |          |      |
| Toluene                    | 0.95       | 0.050                                      | 1.000     | 0           | 95.3      | 80               | 120         |      |          |      |
| Ethylbenzene               | 0.95       | 0.050                                      | 1.000     | 0           | 95.0      | 80               | 120         |      |          |      |
| Xylenes, Total             | 2.9        | 0.10                                       | 3.000     | 0           | 96.5      | 80               | 120         |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.93       |  | 1.000     |             | 92.5      | 80               | 120         |      |          |      |

| Sample ID: <b>MB-44371</b> | SampT      | ype: MI                  | BLK       | Tes         | TestCode: EPA Method 8021B: Volatiles |          |           |      |          |      |  |
|----------------------------|------------|--------------------------|-----------|-------------|---------------------------------------|----------|-----------|------|----------|------|--|
| Client ID: PBS             | Batch      | 1D: <b>44</b>            | 371       | F           | RunNo: 5                              | 9231     |           |      |          |      |  |
| Prep Date: 4/16/2019       | Analysis D | Analysis Date: 4/17/2019 |           |             | //17/2019 SeqNo: 1994173              |          |           | ;    |          |      |  |
| Analyte                    | Result     | PQL                      | SPK value | SPK Ref Val | %REC                                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |  |
| Surr: 4-Bromofluorobenzene | 0.91       |                          | 1.000     |             | 91.0                                  | 80       | 120       |      |          |      |  |

| Sample ID: LCS-44371       | SampT      | ype: LC       | s         | Tes         | tCode: El | PA Method | 8021B: Volat | iles |          |      |
|----------------------------|------------|---------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: LCSS            | Batch      | ID: <b>44</b> | 371       | F           | RunNo: 5  | 9231      |              |      |          |      |
| Prep Date: 4/16/2019       | Analysis D | ate: 4/       | 17/2019   | S           | SeqNo: 1  | 994174    | Units: %Red  | ;    |          |      |
| Analyte                    | Result     | PQL           | SPK value | SPK Ref Val | %REC      | LowLimit  | HighLimit    | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.91       |               | 1.000     |             | 91.3      | 80        | 120          |      |          |      |

Qualifiers:

H Holding times for preparation or analysis exceeded

PQL Practical Quanitative Limit

<sup>8 %</sup> Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified at testcode



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 Nar                     | ne: RULE           | ENGINEERING L                          | L Work           | Order Num  | ber: <b>1904756</b> | 8             | RcptNo   | : 1                 |
|--------------------------------|--------------------|--|------------------|------------|---------------------|---------------|--|---------------------|
| Received                       | By: <b>Desir</b> e | ee Dominguez                           | 4/16/20          | 19 8:15:00 | АМ                  | D             |  |                     |
| Completed                      | By: Ļeah           | Baca                                   | 4/16/20          | 19 8:46:01 | AM                  | 1 1 B         |  |                     |
| Reviewed<br>Landle<br>Chain of | by DAS             | , 4/14/19<br>> 4/16/19                 |                  |            |                     | Lal Julia     |  |                     |
|                                | of Custody co      | omplete?                               |                  |            | Yes 🗸               | No 🗌          | Not Present  |                     |
|                                | s the sample       | 39                                     |                  |            | Courier             |               |  |                     |
| <u>Log In</u><br>3. Was an     | attempt made       | to cool the samp                       | les?             |            | Yes 🗸               | No 🗆          | NA 🗆   |                     |
| 4. Were all                    | samples rece       | ived at a tempera                      | ture of >0° C    | to 6.0°C   | Yes 🗸               | No 🗌          | NA 🗆   |                     |
| 5. Sample(                     | (s) in proper co   | ontainer(s)?                           |                  |            | Yes 🗸               | No 🗌          |  |                     |
| 6. Sufficien                   | t sample volur     | me for indicated te                    | est(s)?          |            | Yes 🗸               | No 🗌          |  |                     |
| 7. Are sam                     | ples (except V     | OA and ONG) pro                        | perly preserve   | ed?        | Yes 🗸               | No 🗌          |  |                     |
| 8. Was pre                     | servative adde     | ed to bottles?                         |                  |            | Yes                 | No 🗸          | NA 🗆   |                     |
| 9. VOA vial                    | s have zero he     | eadspace?                              |                  |            | Yes                 | No 🗌          | No VOA Vials 🗹   |                     |
| 10. Were an                    | y sample cont      | tainers received b                     | roken?           |            | Yes                 | No 🗸          |  |                     |
|                                |                    | n bottle labels?<br>n chain of custody | ſ                |            | Yes 🗹               | No 🗆          | # of preserved<br>bottles checked<br>for pH:   | r >12 unless noted) |
|                                |                    | identified on Chair                    |                  |            | Yes 🗸               | No 🗌          | Adjusted?  |                     |
|                                |                    | s were requested                       | ?                |            | Yes 🗹               | No 🗌          |  |                     |
|                                |                    | able to be met?<br>for authorization.) |                  |            | Yes 🗸               | No 📙          | Checked by: [  | 91/31/12 DAG        |
| Special Ha                     | andling (if a      | applicable)                            |                  |            |                     |               |  |                     |
| 15. Was clie                   | ent notified of a  | all discrepancies v                    | vith this order? | •          | Yes                 | No 🗆          | NA 🗹   |                     |
| Pe                             | erson Notified:    |  |                  | Date       |                     |               |  |                     |
| Ву                             | Whom:              |  |                  | Via:       | eMail               | ] Phone [ Fax | ☐ In Person  |                     |
| Re                             | egarding:          |  |                  |            |                     |               |  |                     |
| Cli                            | ient Instruction   | ns:                                    |                  |            |                     |               |  |                     |
| 16. Addition                   | nal remarks:       |  |                  |            |                     |               |  |                     |
| 17. Cooler                     | Information        |  |                  |            |                     |               |  |                     |
| Coole                          |                    |  | Seal Intact      | Seal No    | Seal Date           | Signed By     | demonstration  |                     |
| 1 2                            | 3.3                | Good                                   | Yes              |            |                     |               | The second secon |                     |
| 2                              | 3.7                | Good                                   | Yes              |            | 7                   |               |  |                     |

| Chain-of-Custody Record  | Turn-Around Time:                         | Time:                   |   |          |         |                 | -        |        | ĺ                         | 1        | (                    | 1   | ļ        | ļ      |   |   |
|--|---|-------------------------|---|----------|---------|-----------------|----------|--------|---------------------------|----------|----------------------|---|----------|--------|---|---|
| Client: Rule Engineering   |   | □ Rush                  | TEST ATTENDED   |          |         |                 |          |        | MALL ENVI<br>ANAI YSTS    | > V      | 2 4                  | HALL ENVIRONMENTAL<br>ANALYSTS LABORATORY | TE V     |        |   | - |
|  | Project Name:                             | in:                     |   |          |         |                 |          | y.hall | www.hallenvironmental.com | ) "      | l data               |   | 5        | )      | 4 |   |
| Mailing Address: ろい Alviport Dr, Ste 205   | Enterprise                                | ise Federal             | (13-22#2  |          | 4901    | 4901 Hawkins NE | kins l   | ·<br>男 | Albu                      | dner     | lue, N               | Albuquerque, NM 87109                     | 109      |        |   |   |
|  | Figett #.                                 |                         |   |          | Tel.    | 505-345-3975    | 345-3    | 975    | Fa                        | x 50     | 5-34                 | Fax 505-345-4107                          |          |        |   |   |
| Phone #: (505) 716-2767  |   |                         |   |          |         |                 |          | Ā      | Analysis                  | is Re    | Request              | it  |          |        |   |   |
| email or Fax#: hwools@yrukungjner rlm. com   | Project Manager:                          | ger:                    |   | (12      |         |                 |          | ¥      | †OS                       | 2        | (jue                 |   | 8        |        |   |   |
| QA/QC Package: July Charles Color  |   |                         |   | (80      |         | 200             | SWI      |        | '⊅C                       |          | sq                   |   |          |        |   |   |
|  | Heath                                     | , woods                 |   | s's      |         |                 |          |        | )d '                      |          | //tu                 |   |          |        |   |   |
| Accreditation:   Az Compliance  NELAC  Other                                       | Sampler: //                               | leashor W               | s book  | WP/      |         |                 |          |        | ZON                       | ( )      |                      |   |          |        |   |   |
| □ EDD (Type)   | # of Coolers:                             | 2 4                     |   | 3€       |         |                 |          | tals   |                           |          |                      |   |          |        |   |   |
|  | Cooler Temp(including CF): 3              | including CF): 3.3°c    | 6,3.7%  | ΞW       |         |                 |          | əΜ     |                           |          |                      |   |          |        |   |   |
| Date Time Matrix Sample Name   | Container<br>Type and #                   | Preservative<br>Type    | HEAL NO.  | BTEX /   | 108:H9T | 8081 Pe         | (d sHA9  | 8 AROR | CI, F, B                  | VS) 0228 | 8270 (Se<br>DO IstoT |   | 710      |        |   |   |
| 4/15/19 1449 Soil SB-4@12:51   | (1) 402 Glus                              | Non                     | -00)  | ×        | ×       |                 |          |        | _                         | 72       |                      |   |          |        |   |   |
| 4/15/19 1515 Soil SB-4@ 20'  | (1)402 Glass                              | Non                     | -002  | ×        | ×       |                 |          |        |                           |          |                      |   |          |        |   | _ |
| 1525 Soll 58-46  | (1)402 Gluss                              | Non                     | -003  | R        | ×       |                 | 100      |        | 1                         |          |                      |   |          |        |   |   |
| 4115/19 1245 Soil 58-5@ 17.5"  | (1) 402 61EM                              | Non                     | -00d  | ×        | ×       |                 |          |        |                           |          |                      |   |          |        |   |   |
| 4/15/19 1323 Soil 58-5@25"   | (1) 402 Glass                             | Non                     | -005  | ×        | Y       |                 |          |        |                           |          |                      |   |          |        |   |   |
| 4/8/19 1339 Soil 5B-5@30'  | (1)4076fass                               | Non                     | 900-  | ×        | 9       |                 |          |        |                           |          |                      |   |          |        |   |   |
|  |   |                         |   |          |         |                 |          |        |                           | 2        |                      |   |          |        |   |   |
|  |   |                         |   |          |         |                 |          |        |                           | _        |                      |   |          |        |   |   |
| 1017P  | 1   |                         | H   |          |         |                 |          | 1      |                           |          | E 7                  | 3   |          |        |   |   |
| 21   |   |                         |   |          |         |                 | i X      |        |                           | -        |                      | 71  |          |        |   |   |
| \$ **  |   |                         |   |          |         |                 |          |        |                           | -1       |                      |   |          |        |   |   |
|  |   |                         |   |          |         |                 |          |        |                           | -        |                      |   |          |        |   |   |
| Date: Time: Relinquished by:   | Received by:                              | Via:                    | Date Time   | Remarks: | ırks:   |                 |          | ì.     |                           |          | ,                    |   |          |        |   |   |
| 5  | John Jack                                 | MORE                    | 4/15/19 1738  |          | Direct  |                 |          | 5      | Dill to Enterprise        | Spr      | T                    |   |          |        |   |   |
| Time: Relinquished by:   | Received by:                              | Via:                    | Date, Time  |          |         |                 |          |        |                           |          |                      |   |          |        |   |   |
| 115/15/1821 / MIGH, Walle  | Se | COURIER                 | 4/10/11 8:15  |          |         |                 |          |        |                           |          |                      |   |          |        |   |   |
| If necessary samples submitted to Hall Environmental may be subcontracted to other | bcontracted to other ac                   | accredited laboratories | This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report | idissod  | tv. Any | sup-co          | ntracted | data v | vill be cl                | early no | tated o              | n the and                                 | alvtical | eport. |   |   |