

# **FREMONT ENVIRONMENTAL INC.**

July 24, 2021

Mr. Jason Davidson  
Great Western Operating Company, LLC  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, CO 80202

Subject:      **Site Investigation Report**  
UPRR Meyer #1  
API # 05-001-06793  
SWSE Sec 9, T2S, R63W  
Adams County, Colorado  
Fremont Project No. C020-031  
Facility #319791, Remediation #9264

Dear Mr. Davidson:

Enclosed please find a copy of the above referenced Site Investigation Report for the UPRR Meyer #1 site in Adams County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil and groundwater quality at the site.

Please contact me at (303) 956-8714 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

Sincerely,  
**FREMONT ENVIRONMENTAL INC.**



Paul V. Henahan, P.E.  
Senior Consultant

Enclosure

**SITE INVESTIGATION REPORT**

**GREAT WESTERN OPERATING COMPANY, LLC**

**UPRR MEYER #1**

**ADAMS COUNTY, COLORADO**

**FREMONT PROJECT NO. C020-031**

**FACILITY #319791, REMEDIATION #9464**

**Prepared by:**

**Fremont Environmental Inc.  
1759 Redwing Lane  
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(303) 956-8714**

**July 24, 2021**

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**SITE INVESTIGATION REPORT**  
**GREAT WESTERN OPERATING COMPANY, LLC**  
**UPRR MEYER #1**  
**ADAMS COUNTY, COLORADO**  
**FREMONT PROJECT NO. C020-031**  
**FACILITY #319791, REMEDIATION #9464**

**1.0 INTRODUCTION**

The purpose of this document is to present subsurface data collected during a site investigation at the Great Western Operating Company, LLC (GWOC) UPRR Meyer #1 site in Adams County, Colorado. The wellhead and equipment from this site were removed several years ago, however, environmental closure had not been granted. Three soil borings to a depth of 35 to 40 feet were advanced until refusal was met. Groundwater was not encountered.

**2.0 BACKGROUND INFORMATION**

**2.1 Site Location**

The UPRR Meyer #1 site is located approximately 11 miles north of Bennett, Colorado in Adams County as shown on Figure 1. The site is located in an agricultural area approximately 0.3 miles northwest of the intersection of County Road 33 and East 104<sup>th</sup> Avenue. The location is further described as the SW ¼ of the SE ¼ of Section 9, Township 2S, Range 63W.

**2.2 Site History**

The UPRR Meyer #1 well was drilled in 1974 to a vertical depth of approximately 7,671 feet. The well and facility were permanently abandoned in 2019.

### **3.0 SITE INVESTIGATION ACTIVITIES**

#### **3.1 Soil Borings/Monitoring Wells**

A site investigation was conducted at the facility on June 22, 2021. During this investigation, three soil borings (SB-A, SB-B and SB-C) were advanced utilizing a direct push Geoprobe rig. Refusal was encountered in each boring at a depth of 35 to 40 feet. The locations of the borings are illustrated on Figure 2.

As shown on the boring logs in Appendix A, the subsurface generally consists of sandy silt to approximately 10 feet. The silt is underlain by sand to at least 40 feet. A geologic cross section for the site is presented on Figure 4. Soil samples from each of the borings were evaluated in the field for the presence of hydrocarbon vapor using a photoionization detector (PID). Logs of the monitoring wells are presented in Appendix A.

Two to four soil samples from each of the borings were sent to Origins Laboratories, Inc. in Denver, Colorado for the analyses of benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, trimethylbenzenes, total petroleum hydrocarbons-gasoline range organics (TPH-GRO), TPH-diesel range organics (TPH-DRO), and TPH-residual range organics (TPH-ORO). Inorganic constituent analyses at the former water vault included electrical conductivity (EC), pH, sodium absorption ratio (SAR) and boron.

The results of these analyses are presented on Figure 5 and summarized on Tables 1 and 2 while the laboratory's reports are provided in Appendix B. The laboratory data from soil borings SB-A and SB-B indicate that soil impacts exceeding the COGCC Table 915-1 limits are present from a depth of approximately 10 feet to at least 40 feet beneath the former water vault and the aboveground storage tank. Refusal was encountered for SB-A and SB-B at depths of 40 and 35 feet, respectively.

### **3.2 Groundwater Monitoring**

A 2020 regional groundwater study prepared by the Division of Water Resources suggested that groundwater might be present at a depth of approximately 125 feet in this area. Therefore, it is unlikely that groundwater is impacted beneath this facility.

## **4.0 DISCUSSION**

A site investigation was conducted at the UPRR Meyer #1 location during June 2021 to determine if soil impacts were present at the former facility.

Three borings were advanced to delineate the magnitude and extent of soil impacts. Ten soil samples were collected and analyzed; soil impacts above the COGCC Table 915-1 limits were observed beneath the former water vault and aboveground storage tank to a depth of at least 40 feet during the site investigation.

Great Western is evaluating further site investigation work prior to developing a remedial action plan.

## **5.0 REMARKS**

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



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Paul V. Henehan, P.E.

Senior Consultant

7/24/21  
Date\_\_\_\_\_

## TABLES



TABLE 1  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
GREAT WESTERN OPERATING COMPANY  
UPRR MEYER 1, ADAMS COUNTY, COLORADO  
FREMONT PROJECT NO. C021-031

| Sample   | Depth<br>(ft) | Date<br>Sampled | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethyl-<br>Benzene<br>(mg/kg) | Xylenes<br>(mg/kg) | 1,2,4-Trimethyl-<br>Benzene<br>(mg/kg) | 1,3,5-Trimethyl-<br>Benzene<br>(mg/kg) | Naphth-<br>alene<br>(mg/kg) | TPH<br>GRO<br>(mg/kg) | TPH<br>DRO<br>(mg/kg) | TPH<br>ORO<br>(mg/kg) |
|--|---------------|-----------------|--------------------|--------------------|------------------------------|--------------------|--|--|-----------------------------|-----------------------|-----------------------|-----------------------|
| SB-A 12 Ft   | 12            | 6/22/2021       | <0.002             | <0.002             | <0.002                       | 0.0138             | 0.0258                                 | 0.0025                                 | <0.01                       | 358                   | 1050                  | 263                   |
| SB-A 22 Ft   | 22            | 6/22/2021       | <0.05              | <0.05              | <b>7.93</b>                  | <b>187</b>         | 26                                     | <b>46.1</b>                            | <b>3.57</b>                 | <b>982</b>            | <b>2120</b>           | <b>311</b>            |
| SB-A 28 Ft   | 28            | 6/22/2021       | <0.05              | <0.05              | 0.81                         | 13.5               | 15                                     | 5.5                                    | <b>4.6</b>                  | <b>1070</b>           | <b>941</b>            | <b>&lt;200</b>        |
| SB-A 36Ft  | 36            | 6/22/2021       | <0.002             | <0.002             | 0.0676                       | 1.11               | 4.72                                   | 0.386                                  | 0.159                       | <b>267</b>            | <b>191</b>            | <b>&lt;200</b>        |
| SB-B 16 Ft   | 16            | 6/22/2021       | <0.05              | <0.05              | 5.69                         | <b>78.4</b>        | 21.4                                   | 8.19                                   | 1.9                         | <b>1190</b>           | <b>699</b>            | <b>&lt;200</b>        |
| SB-B 26 Ft   | 26            | 6/22/2021       | <0.05              | <0.05              | 0.356                        | 5.68               | 3.63                                   | 1.32                                   | 0.6                         | <b>145</b>            | <b>180</b>            | <b>&lt;200</b>        |
| SB-B 35 Ft   | 35            | 6/22/2021       | <0.05              | 0.128              | <b>7.01</b>                  | <b>98.4</b>        | <b>30.6</b>                            | 11.4                                   | <b>2.61</b>                 | <b>1800</b>           | <b>935</b>            | <b>&lt;200</b>        |
| SB-C 20 Ft   | 20            | 6/22/2021       | <0.002             | <0.002             | <0.002                       | <0.002             | <0.002                                 | <0.002                                 | <0.01                       | <0.20                 | <50.0                 | <200                  |
| SB-C 35 Ft   | 35            | 6/22/2021       | <0.002             | <0.002             | <0.002                       | <0.002             | <0.002                                 | <0.002                                 | <0.01                       | <0.20                 | <50.0                 | <200                  |
| Vault 5 Ft   | 5             | 6/22/2021       | <0.002             | <0.002             | <0.002                       | <0.002             | <0.002                                 | <0.002                                 | <0.01                       | <0.20                 | <50.0                 | <200                  |
| Background 1 Ft  | 1             | 6/22/2021       | <0.002             | <0.002             | <0.002                       | <0.002             | <0.002                                 | <0.002                                 | <0.01                       | <0.20                 | <50.0                 | <200                  |
| COGCC Table 915-1 Limits (Residential SSL)               |               |                 | 1.2                | 490                | 5.8                          | 58                 | 30                                     | 27                                     | 2                           | 500                   | 500                   | 500                   |
| COGCC Table 915-1 Limits (Protection of Groundwater SSL) |               |                 | 0.0026             | 0.69               | 0.78                         | 9.9                | 0.0081                                 | 0.0087                                 | 0.0038                      | 500*                  | 500*                  | 500*                  |

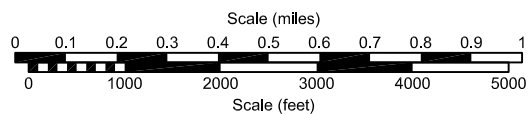
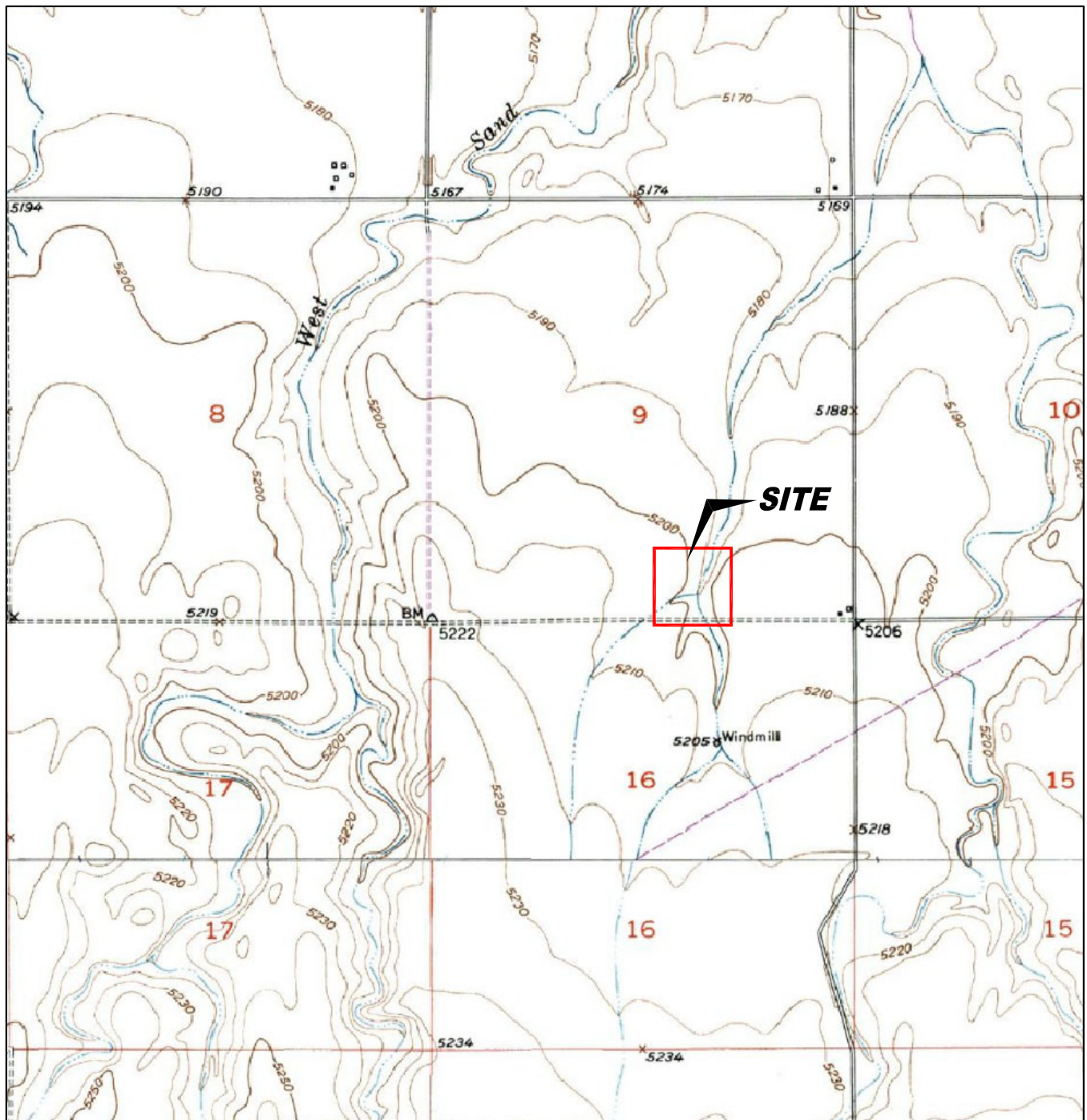
Bold faced values exceed the COGCC Table 915-1 concentrations

TABLE 2  
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA  
GREAT WESTERN OPERATING COMPANY  
UPRR MEYER #1  
FREMONT PROJECT NO. C021-031

| SAMPLE LOCATION    | DATE SAMPLED | DEPTH ft | EC mmhos/cm | pH pH units | SAR units | BORON mg/L |
|--------------------|--------------|----------|-------------|-------------|-----------|------------|
| Vault 5 Ft         | 6/22/2021    | 5        | 0.781       | 8.07        | 2.1       | 0.46       |
| Background 1 Ft    | 6/22/2021    | 1        | 0.64        | 7.91        | 0.747     | 0.516      |
| Table 915-1 Limits |              |          | <4          | 6-8.3       | <6        | 2          |

Bold face values exceed the COGCC Limits

## **FIGURES**



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**Great Western Operating Company**  
**UPRR Meyer #1**  
 SWSE Sec. 9, T2S, R63W 6th PM  
 Adams County, Colorado

|                              |                              |                             |
|------------------------------|------------------------------|-----------------------------|
| Project #<br><b>C021-031</b> | API #<br><b>05-001-06793</b> | Facility #<br><b>319791</b> |
| Date<br><b>07/13/2021</b>    | Remediation #                | Filename<br><b>21031T</b>   |





#### LEGEND

|  |  |   |
|--|--|---|
| <span style="color: pink;">●</span> GEO-PROBE SOIL BORING LOCATION | <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">FORMER</span> ABOVE GROUND STORAGE TANK | <span style="border-bottom: 1px dashed black; width: 50px; display: inline-block;"></span> CONTAINMENT BERM |
| <span style="color: green;">●</span> SOIL BORING LOCATION          | <span style="border-bottom: 1px solid black; width: 50px; display: inline-block;"></span> CONTAINMENT WALL     | <span style="border-bottom: 1px solid black; width: 50px; display: inline-block;"></span> FENCE LINE        |
|  | <span style="border: 1px dashed blue; padding: 2px;">FORMER FACILITY</span>                                    |   |

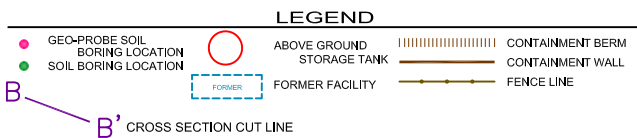
Figure 2  
SITE MAP

**Great Western Operating Company**  
**UPRR Meyer #1**  
 SWSE Sec. 9, T2S, R63W 6th PM  
 Adams County, Colorado

|                                |                              |                             |
|--------------------------------|------------------------------|-----------------------------|
| Project No.<br><b>C021-031</b> | API #<br><b>05-001-06793</b> | Facility #<br><b>319791</b> |
| Date<br><b>07/13/2021</b>      | Remediation #                | Filename<br><b>21031Q</b>   |




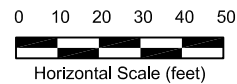




**Figure 3**  
**CROSS SECTION MAP**

**Great Western Operating Company**  
**UPRR Meyer #1**  
SWSE Sec. 9, T2S, R63W 6th PM  
Adams County, Colorado

|                                |                              |                             |   |
|--------------------------------|------------------------------|-----------------------------|---|
| Project No.<br><b>C021-031</b> | API #<br><b>05-001-06793</b> | Facility #<br><b>319791</b> |  |
| Date<br><b>07/13/2021</b>      | Remediation #                | Filename<br><b>21031Q</b>   |   |







# LEGEND

- GEO-PROBE SOIL BORING LOCATION
- SOIL BORING LOCATION
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE

| 06/22/2021 | DATE SAMPLED                   |
|------------|--------------------------------|
| SB-A ~ 12' | SAMPLE ID AND DEPTH (ft)       |
| B          | BENZENE (mg/kg)                |
| T          | TOLUENE (mg/kg)                |
| E          | ETHYLBENZENE (mg/kg)           |
| X          | TOTAL XYLENES (mg/kg)          |
| 1,2,4,TB   | 1,2,4-TRIMETHYLBENZENE (mg/kg) |
| 1,3,5,TB   | 1,3,5-TRIMETHYLBENZENE (mg/kg) |
| N          | NAPHTHALENE (mg/kg)            |
| G          | TPH-GRO (mg/kg)                |
| D          | TPH-DRO (mg/kg)                |
| O          | TPH-ORO (mg/kg)                |
| ND         | NOT DETECTED                   |

| 0067-B2 | SAMPLE ID                |
|---------|--------------------------|
| 20 Feet | DEPTH (ft)               |
| 2.7 ppm | PID (ppm)                |
| B       | BENZENE (mg/kg)          |
| T       | TOLUENE (mg/kg)          |
| E       | ETHYLBENZENE (mg/kg)     |
| X       | TOTAL XYLENES (mg/kg)    |
| G       | TPH-GRO gasoline (mg/kg) |
| D       | TPH-DRO diesel (mg/kg)   |
| TPH     | TOTAL TPH (mg/kg)        |

| 06/22/2021 | DATE SAMPLED           |
|------------|------------------------|
| Vault ~ 5' | SAMPLE ID & DEPTH (ft) |
| SAR        | SAR (units)            |
| pH         | pH (pH units)          |
| EC         | EC (mmhos/cm)          |
| BORON      | BORON (ppm)            |

PID = PHOTO IONIZATION DETECTOR / ppm = parts per million  
TPH = TOTAL PETROLEUM HYDROCARBONS / **BOLD** = EXCEEDS COGEC TABLE 910-1

Figure 5

## SOIL CHEMISTRY MAP June 22, 2021

Great Western Operating Company  
UPRR Meyer #1  
SWSE Sec. 9, T2S, R63W 6th PM  
Adams County, Colorado

|                                |                              |                             |  |
|--------------------------------|------------------------------|-----------------------------|--|
| Project No.<br><b>C021-031</b> | API #<br><b>05-001-06793</b> | Facility #<br><b>319791</b> |  |
| Date<br><b>07/13/2021</b>      | Remediation #                | Filename<br><b>21031Q</b>   |  |



APPENDIX A

**BORING LOGS**

## BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Page 1 of 1

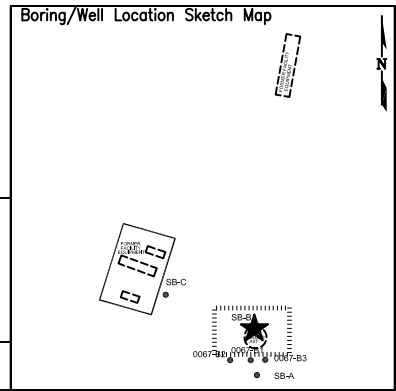
|  |                           |  |                                    |
|--|---------------------------|--|------------------------------------|
| Boring/Well No.<br><b>SB-A</b>   | Total Depth<br><b>40'</b> | Location<br><b>Great Western Operating Company<br/>UPRR Meyer #1<br/>SWSE Sec. 9, T2S, R63W, 6th PM<br/>Adams County, Colorado</b> |                                    |
| Project No./Name<br><b>C021-031 / GWOC UPRR Meyer #1</b>                               |                           | Approved By  |                                    |
| Drilling Contractor/Driller<br><b>Eagle Environmental</b>                              |                           | Sampling Method<br><b>direct push</b>  |                                    |
| Geologist/Office<br><b>Paul Henehan / Fremont Environmental, Inc.</b>                  |                           | Start/Finish Date<br><b>06/22/2021</b>   |                                    |
| Drilling Equipment/Method<br><b>Geoprobe</b>   |                           | Size/Type of Bit<br><b>2.5 direct push</b>   |                                    |
| Well Installed?<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Casing Mtrl./Dia.<br>.    | Screen:<br>Type . Mtrl. . Length . Dia. . Slot Size .  |                                    |
| Elevation of:<br>(ft. above datum)   | Ground Surface            | Top of Well Casing   | Top of Screen                      |
|  |                           | Bottom of Screen   | Ground Water Surface/Date Measured |

| DEPTH<br>(feet) | WELL<br>CONSTRUCTION |  | LITHOLOGY      |  | Penetration<br>Rate<br>(blows/6") | Recovery<br>(%) | Sample<br>Interval<br>(feet) | PID<br>Values<br>(ppm) |
|-----------------|----------------------|--|----------------|--|-----------------------------------|-----------------|------------------------------|------------------------|
|                 |                      |  | GRAPHIC<br>LOG | VISUAL DESCRIPTION   |                                   |                 |                              |                        |
| 5               |                      |  | ML             | Sandy silt, brown, dry, no stain, no odor  |                                   |                 |                              | 1                      |
|                 |                      |  | ML             | Sandy silt with small pebbles (fill?), dry, no stain, no odor                                    |                                   |                 |                              | 2                      |
| 10              |                      |  | SM             | Silty sand to 11' then silty fine to medium sand, moist, brown, no stain, no odor                |                                   |                 |                              | 555                    |
|                 |                      |  | SP             | Fine to medium sand to 14' then sand and gravel, moist, brown, no stain, no odor                 |                                   |                 |                              | 17                     |
| 15              |                      |  | S&G            | Sand and gravel to 19' then silty fine sand, brown to 19' then dark gray with moderate odor, dry |                                   |                 |                              | 8                      |
|                 |                      |  | SM             | Silty fine to medium sand, gray with strong odor, moist  |                                   |                 |                              | 517                    |
| 20              |                      |  |                |  |                                   |                 |                              |                        |

[illegible]



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

|  |                           |  |                                       |  |                  |
|--|---------------------------|--|---------------------------------------|--|------------------|
| Boring/Well No.<br><b>SB-B</b>   | Total Depth<br><b>35'</b> | Location<br><b>Great Western Operating Company<br/>UPRR Meyer #1<br/>SWSE Sec. 9, T2S, R63W, 6th PM<br/>Adams County, Colorado</b> |                                       |  |                  |
| Project No./Name<br><b>C021-031 / GWOC UPRR Meyer #1</b>                               |                           | Approved By  |                                       |  |                  |
| Drilling Contractor/Driller<br><b>Eagle Environmental</b>                              |                           | Geologist/Office<br><b>Paul Henehan / Fremont Environmental, Inc.</b>  |                                       |  |                  |
| Drilling Equipment/Method<br><b>Geoprobe</b>   |                           | Size/Type of Bit<br><b>2.5 direct push</b>   | Sampling Method<br><b>direct push</b> | Start/Finish Date<br><b>06/22/2021</b> |                  |
| Well Installed?<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Casing Mtrl./Dia.         | Screen:<br>Type  | Mtrl.                                 | Length                                 | Dia.             |
| Elevation of:<br>(ft. above datum)   |                           | Ground Surface   | Top of Well Casing                    | Top of Screen                          | Bottom of Screen |
|  |                           | Ground Water Surface/Date Measured   |                                       |  |                  |

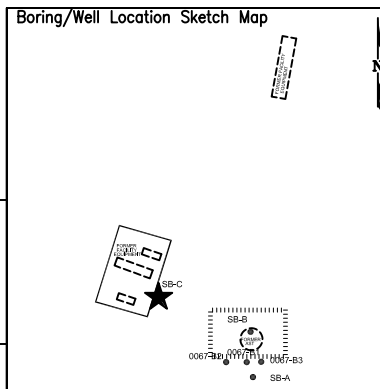
| DEPTH<br>(feet) | WELL<br>CONSTRUCTION |  |  | LITHOLOGY      |   | Penetration<br>Rate<br>(blows/6") | Recovery<br>(%) | Sample<br>Interval<br>(feet) | PID<br>Values<br>(ppm) |
|-----------------|----------------------|--|--|----------------|---|-----------------------------------|-----------------|------------------------------|------------------------|
|                 |                      |  |  | GRAPHIC<br>LOG | VISUAL DESCRIPTION  |                                   |                 |                              |                        |
| 5               |                      |  |  | ML             | Firm sandy silt, moist, brown, low plasticity, no stain, no odor  |                                   |                 |                              | 1                      |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
| 10              |                      |  |  | SM             | Firm sandy silt, dry, brown, no stain, no odor  |                                   |                 |                              | 66                     |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
| 15              |                      |  |  | SP             | Firm sandy silt to 10' then silty fine to medium sand, light gray, light odor                               |                                   |                 |                              | 290                    |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
| 20              |                      |  |  | ML             | Medium to coarse sand, gray with strong odor moist, brown, no stain, no odor                                |                                   |                 |                              | 1826                   |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                | Medium to coarse sand to 18' then firm sandy silt to 21', then medium to coarse sand, gray with strong odor |                                   |                 |                              | 2120                   |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              | 2090                   |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                |   |                                   |                 |                              | 1835                   |
|                 |                      |  |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |  |                | Silty sand, light gray, strong odor   |                                   |                 |                              |                        |



| Boring/Well No.<br>SB-B                           |                      |  |  |  |               | Location<br>Great Western Operating Company<br>UPRR Meyer #1<br>SWSE Sec. 9, T2S, R63W, 6th PM<br>Adams County, Colorado |  |                                   |                 |                              |                        |  |
|---|----------------------|--|--|--|---------------|--|--|-----------------------------------|-----------------|------------------------------|------------------------|--|
| Project No./Name<br>CO21-031 / GWOC UPRR Meyer #1 |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
| DEPTH<br>(feet)                                   | WELL<br>CONSTRUCTION |  |  |  |               | LITHOLOGY  |  | Penetration<br>Rate<br>(blows/6") | Recovery<br>(%) | Sample<br>Interval<br>(feet) | PID<br>Values<br>(ppm) |  |
|   |                      |  |  |  |               | GRAPHIC<br>LOG   | VISUAL DESCRIPTION   |                                   |                 |                              |                        |  |
| 25  |                      |  |  |  |               |  | Silty sand, light gray, strong odor                                  |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               | <br><b>SP</b>  | Medium to coarse sand, light gray, light gray,<br>strong odor, moist |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               | <br><b>ML</b>  | Firm sandy silt, gray with moderate odor, dry                        |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
|   |                      |  |  |  | <br><b>SP</b> | Medium sand, gray, strong odor, moist<br>Refusal at 35'  |  |                                   |                 |                              |                        |  |
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|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
| 35  |                      |  |  |  |               |  | TD - 35' Backfill with bentonite                                     |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
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|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |
|   |                      |  |  |  |               |  |  |                                   |                 |                              |                        |  |



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

|  |                           |  |   |
|--|---------------------------|--|---|
| Boring/Well No.<br><b>SB-C</b>   | Total Depth<br><b>35'</b> | Location<br><b>Great Western Operating Company<br/>UPRR Meyer #1<br/>SWSE Sec. 9, T2S, R63W, 6th PM<br/>Adams County, Colorado</b> |   |
| Project No./Name<br><b>C021-031 / GWOC UPRR Meyer #1</b>                               |                           | Approved By  |   |
| Drilling Contractor/Driller<br><b>Eagle Environmental</b>                              |                           | Sampling Method<br><b>direct push</b>  |   |
| Geologist/Office<br><b>Paul Henehan / Fremont Environmental, Inc.</b>                  |                           | Start/Finish Date<br><b>06/22/2021</b>   |   |
| Drilling Equipment/Method<br><b>Geoprobe</b>   |                           | Size/Type of Bit<br><b>2.5 direct push</b>   |   |
| Well Installed?<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Casing Mtrl./Dia.<br>.    | Screen:<br>Type . Mtrl. . Length . Dia. . Slot Size .  |   |
| Elevation of:<br>(ft. above datum)   | Ground Surface .          | Top of Well Casing .   | Top of Screen . Bottom of Screen . Ground Water Surface/Date Measured . |

| DEPTH<br>(feet) | WELL<br>CONSTRUCTION |  | LITHOLOGY      |   | Penetration<br>Rate<br>(blows/6") | Recovery<br>(%) | Sample<br>Interval<br>(feet) | PID<br>Values<br>(ppm) |
|-----------------|----------------------|--|----------------|---|-----------------------------------|-----------------|------------------------------|------------------------|
|                 |                      |  | GRAPHIC<br>LOG | VISUAL DESCRIPTION  |                                   |                 |                              |                        |
| 5               |                      |  | ML             | Sandy silt, brown, moist, low plasticity, no stain, no odor |                                   |                 |                              | 3                      |
|                 |                      |  | SM             | Silty fine to medium sand, brown, moist, no stain, no odor  |                                   |                 |                              |                        |
| 10              |                      |  |                | Silty fine to medium sand, brown, moist, no stain, no odor  |                                   |                 |                              | 3                      |
|                 |                      |  | SM             | Silty medium coarse sand, brown, moist, no stain odor       |                                   |                 |                              | 2                      |
| 15              |                      |  |                |   |                                   |                 |                              |                        |
|                 |                      |  | SM             | Silty fine to medium sand, brown, moist, no stain, no odor  |                                   |                 |                              | 1                      |
| 20              |                      |  |                |   |                                   |                 |                              |                        |
|                 |                      |  |                |   |                                   |                 |                              | 5                      |



**APPENDIX B**

**LABORATORY DOCUMENTATION**





June 30, 2021

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - GWOC - UPRR Meyer

Project Number - C021-031

Attached are your analytical results for GWOC - UPRR Meyer received by Origins Laboratory, Inc. June 23, 2021. This project is associated with Origins project number Y106547-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C021-031

Project: GWOC - UPRR Meyer

## CROSS REFERENCE REPORT

| Sample ID      | Laboratory ID | Matrix | Date Sampled       | Date Received    |
|----------------|---------------|--------|--------------------|------------------|
| SB-A 12FT      | Y106547-01    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-A 22FT      | Y106547-02    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-A 28FT      | Y106547-03    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-A 36FT      | Y106547-04    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-B 16FT      | Y106547-05    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-B 26FT      | Y106547-06    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-B 35FT      | Y106547-07    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-C 20FT      | Y106547-08    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| SB-C 35FT      | Y106547-09    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| Vault 5FT      | Y106547-10    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |
| Background 1FT | Y106547-11    | Soil   | June 22, 2021 0:00 | 06/23/2021 13:00 |

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C021-031

Project: GWOC - UPRR Meyer

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page 1 of 2

**ORIGINS**  
LABORATORY, INC

410547

Client: Fremont Environmental Inc.  
Address:  
Telephone Number:  
Email Address:

Project Manager: Henehan  
Project Name: GWOC - UPRR Meyer #1  
Project Number:  
Samples Collected By: HENEHAN

Fax: 303.265.9645

| Sample ID Description        | Date Sampled  | Time Sampled | # of Containers | Preservative |                          |                  |       | Matrix                   |               |             | Analysis   |         |      |             | Sample Instructions |       |            |         |            |
|------------------------------|---------------|--------------|-----------------|--------------|--------------------------|------------------|-------|--------------------------|---------------|-------------|--|---------|------|-------------|---------------------|-------|------------|---------|------------|
|                              |               |              |                 | Unpreserved  | HCl                      | HNO <sub>3</sub> | Other | Groundwater              | Soil          | Air Summa # | Other  | DRD/ORO | PAHs | pH, EC, SAR |                     | Boron | 915 metals | Arsenic | BTEXN+THMs |
| SB-A 12 FT                   | 6/22/21       |              | 1               | ✓            |                          |                  |       | ✓                        |               |             |  |         |      |             |                     |       |            |         | 1          |
| SB-A 22 FT                   |               |              | 1               | ✓            |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 2          |
| SB-A 28 FT                   |               |              | 1               | ✓            |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 3          |
| SB-A 36 FT                   |               |              | 1               | ✓            |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 4          |
| SB-B 16 FT                   |               |              | 1               | ✓            |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 5          |
| SB-B 26 FT                   |               |              | 1               | ✓            |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 6          |
| SB-B 35 FT                   |               |              | 2               |              |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 7          |
| SB-C 20 FT                   |               |              | 1               |              |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 8          |
| SB-C 35 FT                   |               |              | 2               |              |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 9          |
| VAULT 5 FT                   |               |              | 2               | ✓            |                          |                  |       |                          |               |             |  |         |      |             |                     |       |            |         | 10         |
| Relinquished By: [Signature] | Date: 6/23/21 | Time:        | Date: 6/23/21   | Time:        | Received By: [Signature] | Date: 6/23/21    | Time: | Received By: [Signature] | Date: 6/23/21 | Time:       | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/> |         |      |             |                     |       |            |         |            |

Date Results Needed

5.3

Origins Laboratory, Inc.

*Jordan A. Merrill*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Paul Henahan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

|                                    |  |                                  |  |
|------------------------------------|--|----------------------------------|--|
| <b>ORIGINS</b><br>LABORATORY, INC. |  | www.originslaboratory.com        |  |
| Client: Fremont Environmental Inc. |  | page <u>2</u> of <u>2</u>        |  |
| Address:                           |  | Project Manager: Henehan         |  |
| Telephone Number:                  |  | Project Name: GWOC-UPRR Meyer #1 |  |
| Email Address:                     |  | Project Number:                  |  |
| Fax: 303.265.9645                  |  | Samples Collected By: HENEHAN    |  |

[illegible]

Date Results Needed

5.5

Intent

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C021-031

Project: GWOC - UPRR Meyer

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y106547

Client: Fremont

Client Project ID: Guad-Meyer UPRR

Checklist Completed by: JB

Shipped Via: HA

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/23/21

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X

Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature: 1 / 5.3 °C

1 °C

1 °C

1 °C

Thermometer ID: T053

| Requirement Description   | Yes                                 | No                                  | N/A                                 | Comments (if any)      |
|---|-------------------------------------|-------------------------------------|-------------------------------------|------------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Is there ice present (document if blue ice is used)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Were all samples received intact <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                        |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | No sample times        |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                        |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | second page not signed |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                        |
| Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH) | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                        |
| Additional Comments (if any):   |                                     |                                     |                                     |                        |

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) pm

Date/Time Reviewed 6-24-21

Origins Laboratory, Inc.

*Jordan A. Merrill*

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## SB-A 12FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-01 (Soil)

### DRO/ORO by EPA 8015D

|                                   |      |      |       |   |         |     |            |            |  |
|-----------------------------------|------|------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28)                  | 1050 | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 |  |
| Residual Range Organics (C28-C40) | 263  | 200  | "     | " | "       | KDK | "          | "          |  |

Surrogate: o-Terphenyl 82.1 % 50-150 " " "

### GBTEX+TMBs

|                             |         |         |       |    |         |     |   |            |   |
|-----------------------------|---------|---------|-------|----|---------|-----|---|------------|---|
| 1,2,4-Trimethylbenzene      | 0.0258  | 0.00200 | mg/kg | 1  | B1F2305 | KDK | " | 06/24/2021 |   |
| Naphthalene                 | ND      | 0.0100  | "     | "  | "       | KDK | " | "          | U |
| 1,3,5-Trimethylbenzene      | 0.00250 | 0.00200 | "     | "  | "       | KDK | " | "          |   |
| Benzene                     | ND      | 0.00200 | "     | "  | "       | KDK | " | "          | U |
| Ethylbenzene                | ND      | 0.00200 | "     | "  | "       | KDK | " | "          | U |
| Toluene                     | ND      | 0.00200 | "     | "  | "       | KDK | " | "          | U |
| Gasoline Range Hydrocarbons | 358     | 5.00    | "     | 25 | "       | KDK | " | 06/25/2021 |   |
| Xylenes, total              | 0.0138  | 0.00200 | "     | 1  | "       | KDK | " | 06/24/2021 |   |

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "

Surrogate: Toluene-d8 89.4 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 197 % 70-130 " " " S-04

Origins Laboratory, Inc.

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C021-031

Project: GWOC - UPRR Meyer

## SB-A 22FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-02 (Soil)

### DRO/ORO by EPA 8015D

|                                   |      |      |       |   |         |     |            |            |  |
|-----------------------------------|------|------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28)                  | 2120 | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 |  |
| Residual Range Organics (C28-C40) | 311  | 200  | "     | " | "       | KDK | "          | "          |  |

Surrogate: o-Terphenyl 101 % 50-150 " " "

### GBTEX+TMBs

|                             |      |        |       |      |         |     |   |            |         |
|-----------------------------|------|--------|-------|------|---------|-----|---|------------|---------|
| 1,2,4-Trimethylbenzene      | 26.0 | 5.00   | mg/kg | 2500 | B1F2305 | KDK | " | 06/25/2021 |         |
| Naphthalene                 | 3.57 | 0.250  | "     | 25   | "       | KDK | " | 06/24/2021 |         |
| 1,3,5-Trimethylbenzene      | 46.1 | 0.500  | "     | 250  | "       | KDK | " | 06/25/2021 |         |
| Benzene                     | ND   | 0.0500 | "     | 25   | "       | KDK | " | 06/24/2021 | R-01, U |
| Ethylbenzene                | 7.93 | 0.0500 | "     | "    | "       | KDK | " | "          |         |
| Toluene                     | ND   | 0.0500 | "     | "    | "       | KDK | " | "          | R-01, U |
| Gasoline Range Hydrocarbons | 982  | 500    | "     | 2500 | "       | KDK | " | 06/25/2021 |         |
| Xylenes, total              | 187  | 0.500  | "     | 250  | "       | KDK | " | "          |         |

Surrogate: 1,2-Dichloroethane-d4 96.2 % 70-130 " " 06/24/2021  
 Surrogate: Toluene-d8 92.7 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 192 % 70-130 " " " S-04

Origins Laboratory, Inc.



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Wellington CO 80549

Paul Henehan

Project Number: C021-031

Project: GWOC - UPRR Meyer

## SB-A 28FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-03 (Soil)

### DRO/ORO by EPA 8015D

|                                   |     |      |       |   |         |     |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | 941 | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 |   |
| Residual Range Organics (C28-C40) | ND  | 200  | "     | " | "       | KDK | "          | "          | U |

Surrogate: o-Terphenyl 80.0 % 50-150 " "

### GBTEX+TMBs

|                             |       |        |       |     |         |     |            |            |         |
|-----------------------------|-------|--------|-------|-----|---------|-----|------------|------------|---------|
| 1,2,4-Trimethylbenzene      | 15.0  | 0.500  | mg/kg | 250 | B1F2313 | KDK | 06/23/2021 | 06/25/2021 |         |
| Naphthalene                 | 4.60  | 0.250  | "     | 25  | "       | KDK | "          | 06/24/2021 |         |
| 1,3,5-Trimethylbenzene      | 5.50  | 0.0500 | "     | "   | "       | KDK | "          | "          |         |
| Benzene                     | ND    | 0.0500 | "     | "   | "       | KDK | "          | "          | R-01, U |
| Ethylbenzene                | 0.810 | 0.0500 | "     | "   | "       | KDK | "          | "          |         |
| Toluene                     | ND    | 0.0500 | "     | "   | "       | KDK | "          | "          | R-01, U |
| Gasoline Range Hydrocarbons | 1070  | 50.0   | "     | 250 | "       | KDK | "          | 06/25/2021 |         |
| Xylenes, total              | 13.5  | 0.0500 | "     | 25  | "       | KDK | "          | 06/24/2021 |         |

Surrogate: 1,2-Dichloroethane-d4 99.9 % 70-130 " "

Surrogate: Toluene-d8 90.4 % 70-130 " "

Surrogate: 4-Bromofluorobenzene 139 % 70-130 " " S-04

Origins Laboratory, Inc.

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## SB-A 36FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-04 (Soil)

### DRO/ORO by EPA 8015D

|                                   |     |      |       |   |         |     |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | 191 | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 |   |
| Residual Range Organics (C28-C40) | ND  | 200  | "     | " | "       | KDK | "          | "          | U |

Surrogate: o-Terphenyl 90.5 % 50-150 " "

### GBTEX+TMBs

|                             |        |         |       |    |         |     |            |            |   |
|-----------------------------|--------|---------|-------|----|---------|-----|------------|------------|---|
| 1,2,4-Trimethylbenzene      | 4.72   | 0.0500  | mg/kg | 25 | B1F2313 | KDK | 06/23/2021 | 06/30/2021 |   |
| Naphthalene                 | 0.159  | 0.0100  | "     | 1  | "       | KDK | "          | 06/28/2021 |   |
| 1,3,5-Trimethylbenzene      | 0.386  | 0.00200 | "     | "  | "       | KDK | "          | "          |   |
| Benzene                     | ND     | 0.00200 | "     | "  | "       | KDK | "          | "          | U |
| Ethylbenzene                | 0.0676 | 0.00200 | "     | "  | "       | KDK | "          | "          |   |
| Toluene                     | ND     | 0.00200 | "     | "  | "       | KDK | "          | "          | U |
| Gasoline Range Hydrocarbons | 267    | 5.00    | "     | 25 | "       | KDK | "          | 06/30/2021 |   |
| Xylenes, total              | 1.11   | 0.00200 | "     | 1  | "       | KDK | "          | 06/28/2021 |   |

Surrogate: 1,2-Dichloroethane-d4 99.1 % 70-130 " "  
Surrogate: Toluene-d8 97.3 % 70-130 " "  
Surrogate: 4-Bromofluorobenzene 117 % 70-130 " " 06/30/2021

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Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
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## SB-B 16FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-05 (Soil)

### DRO/ORO by EPA 8015D

|                                   |     |      |       |   |         |     |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | 699 | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 |   |
| Residual Range Organics (C28-C40) | ND  | 200  | "     | " | "       | KDK | "          | "          | U |

Surrogate: o-Terphenyl 105 % 50-150 " "

### GBTEX+TMBs

|                             |      |        |       |     |         |     |            |            |         |
|-----------------------------|------|--------|-------|-----|---------|-----|------------|------------|---------|
| 1,2,4-Trimethylbenzene      | 21.4 | 0.500  | mg/kg | 250 | B1F2313 | KDK | 06/23/2021 | 06/28/2021 |         |
| Naphthalene                 | 1.90 | 0.250  | "     | 25  | "       | KDK | "          | 06/26/2021 |         |
| 1,3,5-Trimethylbenzene      | 8.19 | 0.500  | "     | 250 | "       | KDK | "          | 06/28/2021 |         |
| Benzene                     | ND   | 0.0500 | "     | 25  | "       | KDK | "          | 06/26/2021 | R-01, U |
| Ethylbenzene                | 5.69 | 0.0500 | "     | "   | "       | KDK | "          | "          |         |
| Toluene                     | ND   | 0.0500 | "     | "   | "       | KDK | "          | "          | R-01, U |
| Gasoline Range Hydrocarbons | 1190 | 50.0   | "     | 250 | "       | KDK | "          | 06/28/2021 |         |
| Xylenes, total              | 78.4 | 0.500  | "     | "   | "       | KDK | "          | "          |         |

Surrogate: 1,2-Dichloroethane-d4 95.7 % 70-130 " " 06/26/2021  
Surrogate: Toluene-d8 88.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " 06/28/2021

Origins Laboratory, Inc.

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Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## SB-B 26FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-06 (Soil)

### DRO/ORO by EPA 8015D

|                                   |     |      |       |   |         |     |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | 180 | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 |   |
| Residual Range Organics (C28-C40) | ND  | 200  | "     | " | "       | KDK | "          | "          | U |

Surrogate: o-Terphenyl 79.2 % 50-150 " " "

### GBTEX+TMBs

|                             |       |        |       |    |         |     |            |            |         |
|-----------------------------|-------|--------|-------|----|---------|-----|------------|------------|---------|
| 1,2,4-Trimethylbenzene      | 3.63  | 0.0500 | mg/kg | 25 | B1F2313 | KDK | 06/23/2021 | 06/26/2021 |         |
| Naphthalene                 | 0.600 | 0.250  | "     | "  | "       | KDK | "          | "          |         |
| 1,3,5-Trimethylbenzene      | 1.32  | 0.0500 | "     | "  | "       | KDK | "          | "          |         |
| Benzene                     | ND    | 0.0500 | "     | "  | "       | KDK | "          | "          | R-01, U |
| Ethylbenzene                | 0.356 | 0.0500 | "     | "  | "       | KDK | "          | "          |         |
| Toluene                     | ND    | 0.0500 | "     | "  | "       | KDK | "          | "          | R-01, U |
| Gasoline Range Hydrocarbons | 145   | 5.00   | "     | "  | "       | KDK | "          | "          |         |
| Xylenes, total              | 5.68  | 0.0500 | "     | "  | "       | KDK | "          | "          |         |

Surrogate: 1,2-Dichloroethane-d4 94.4 % 70-130 " " "  
Surrogate: Toluene-d8 88.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## SB-B 35FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-07 (Soil)

### DRO/ORO by EPA 8015D

|                                   |     |      |       |   |         |     |            |            |   |
|-----------------------------------|-----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | 935 | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 |   |
| Residual Range Organics (C28-C40) | ND  | 200  | "     | " | "       | KDK | "          | "          | U |

Surrogate: o-Terphenyl 112 % 50-150 " "

### GBTEX+TMBs

|                             |       |        |       |     |         |     |            |            |         |
|-----------------------------|-------|--------|-------|-----|---------|-----|------------|------------|---------|
| 1,2,4-Trimethylbenzene      | 30.6  | 0.500  | mg/kg | 250 | B1F2313 | KDK | 06/23/2021 | 06/28/2021 |         |
| Naphthalene                 | 2.61  | 0.250  | "     | 25  | "       | KDK | "          | 06/26/2021 |         |
| 1,3,5-Trimethylbenzene      | 11.4  | 0.500  | "     | 250 | "       | KDK | "          | 06/28/2021 |         |
| Benzene                     | ND    | 0.0500 | "     | 25  | "       | KDK | "          | 06/26/2021 | R-01, U |
| Ethylbenzene                | 7.01  | 0.0500 | "     | "   | "       | KDK | "          | "          |         |
| Toluene                     | 0.128 | 0.0500 | "     | "   | "       | KDK | "          | "          |         |
| Gasoline Range Hydrocarbons | 1800  | 50.0   | "     | 250 | "       | KDK | "          | 06/28/2021 |         |
| Xylenes, total              | 98.4  | 0.500  | "     | "   | "       | KDK | "          | "          |         |

Surrogate: 1,2-Dichloroethane-d4 92.9 % 70-130 " " 06/26/2021  
Surrogate: Toluene-d8 87.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " 06/28/2021

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## SB-C 20FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-08 (Soil)

### DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |     |            |            |   |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     | " | "       | KDK | "          | "          | U |

Surrogate: o-Terphenyl 94.8 % 50-150 " " "

### GBTEX+TMBs

|                             |    |         |       |   |         |     |            |            |   |
|-----------------------------|----|---------|-------|---|---------|-----|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B1F2401 | KDK | 06/24/2021 | 06/28/2021 | U |
| Naphthalene                 | ND | 0.0100  | "     | " | "       | KDK | "          | "          | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | KDK | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 96.0 % 70-130 " " "  
Surrogate: Toluene-d8 96.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.0 % 70-130 " " "

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## SB-C 35FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-09 (Soil)

### DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |     |            |            |   |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     | " | "       | KDK | "          | "          | U |

Surrogate: o-Terphenyl 93.3 % 50-150 " " "

### GBTEX+TMBs

|                             |    |         |       |   |         |     |            |            |   |
|-----------------------------|----|---------|-------|---|---------|-----|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B1F2401 | KDK | 06/24/2021 | 06/26/2021 | U |
| Naphthalene                 | ND | 0.0100  | "     | " | "       | KDK | "          | "          | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | KDK | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |

Surrogate: 1,2-Dichloroethane-d4 97.9 % 70-130 " " "  
Surrogate: Toluene-d8 88.1 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.7 % 70-130 " " "

Origins Laboratory, Inc.

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8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## Vault 5FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-10 (Soil)

### Boron (DTPA Sorbitol)

|       |       |       |      |   |         |     |            |            |  |
|-------|-------|-------|------|---|---------|-----|------------|------------|--|
| Boron | 0.460 | 0.200 | mg/L | 1 | B1F2409 | JMA | 06/24/2021 | 06/24/2021 |  |
|-------|-------|-------|------|---|---------|-----|------------|------------|--|

### DRO/ORO by EPA 8015D

|                                   |    |      |       |   |         |     |            |            |   |
|-----------------------------------|----|------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28)                  | ND | 50.0 | mg/kg | 1 | B1F2306 | KDK | 06/23/2021 | 06/25/2021 | U |
| Residual Range Organics (C28-C40) | ND | 200  | "     | " | "       | KDK | "          | "          | U |

|                        |        |        |  |  |   |   |   |  |
|------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 85.9 % | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--------|--|--|---|---|---|--|

### GBTEX+TMBs

|                             |    |         |       |   |         |     |            |            |   |
|-----------------------------|----|---------|-------|---|---------|-----|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND | 0.00200 | mg/kg | 1 | B1F2401 | KDK | 06/24/2021 | 06/26/2021 | U |
| Naphthalene                 | ND | 0.0100  | "     | " | "       | KDK | "          | "          | U |
| 1,3,5-Trimethylbenzene      | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Benzene                     | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Ethylbenzene                | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Toluene                     | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |
| Gasoline Range Hydrocarbons | ND | 0.200   | "     | " | "       | KDK | "          | "          | U |
| Xylenes, total              | ND | 0.00200 | "     | " | "       | KDK | "          | "          | U |

|                                  |        |        |  |  |   |   |   |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 97.6 % | 70-130 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 87.8 % | 70-130 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 95.6 % | 70-130 |  |  | " | " | " |

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C021-031

Project: GWOC - UPRR Meyer

## Vault 5FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-10 (Soil)

### Metals by Saturated Paste

|           |      |  |       |   |        |     |            |            |  |
|-----------|------|--|-------|---|--------|-----|------------|------------|--|
| Calcium   | 2.13 |  | meq/L | 1 | [CALC] | CJM | 06/24/2021 | 06/24/2021 |  |
| Magnesium | 2.20 |  | "     | " | "      | CJM | "          | "          |  |
| Sodium    | 3.09 |  | "     | " | "      | CJM | "          | "          |  |

### pH in Soil by EPA 9045D

|    |      |  |          |   |         |     |            |            |  |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 8.07 |  | pH Units | 1 | B1F2416 | CJM | 06/23/2021 | 06/24/2021 |  |
|----|------|--|----------|---|---------|-----|------------|------------|--|

### SAR by 20B Saturated Paste

|     |      |  |     |   |         |     |            |            |  |
|-----|------|--|-----|---|---------|-----|------------|------------|--|
| SAR | 2.10 |  | SAR | 1 | B1F2417 | CJM | 06/24/2021 | 06/24/2021 |  |
|-----|------|--|-----|---|---------|-----|------------|------------|--|

### Specific Conductance by Modified 9050A

|                           |       |         |          |   |         |     |            |            |  |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|--|
| Specific Conductance (EC) | 0.781 | 0.00500 | mmhos/cm | 1 | B1F2414 | CJM | 06/24/2021 | 06/25/2021 |  |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|--|

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8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C021-031

Project: GWOC - UPRR Meyer

## Background 1FT

6/22/2021 12:00:00AM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

## Origins Laboratory, Inc. Y106547-11 (Soil)

### Boron (DTPA Sorbitol)

|       |       |       |      |   |         |     |            |            |
|-------|-------|-------|------|---|---------|-----|------------|------------|
| Boron | 0.516 | 0.199 | mg/L | 1 | B1F2409 | JMA | 06/24/2021 | 06/24/2021 |
|-------|-------|-------|------|---|---------|-----|------------|------------|

### Metals by Saturated Paste

|           |      |  |       |   |        |     |            |            |
|-----------|------|--|-------|---|--------|-----|------------|------------|
| Calcium   | 3.84 |  | meq/L | " | [CALC] | CJM | 06/24/2021 | 06/24/2021 |
| Magnesium | 1.11 |  | "     | " | "      | CJM | "          | "          |
| Sodium    | 1.18 |  | "     | " | "      | CJM | "          | "          |

### pH in Soil by EPA 9045D

|    |      |  |          |   |         |     |            |            |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 7.91 |  | pH Units | 1 | B1F2416 | CJM | 06/23/2021 | 06/24/2021 |
|----|------|--|----------|---|---------|-----|------------|------------|

### SAR by 20B Saturated Paste

|     |       |  |     |   |         |     |            |            |
|-----|-------|--|-----|---|---------|-----|------------|------------|
| SAR | 0.747 |  | SAR | 1 | B1F2417 | CJM | 06/24/2021 | 06/24/2021 |
|-----|-------|--|-----|---|---------|-----|------------|------------|

### Specific Conductance by Modified 9050A

|                           |       |         |          |   |         |     |            |            |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 0.640 | 0.00500 | mmhos/cm | 1 | B1F2414 | CJM | 06/24/2021 | 06/25/2021 |
|---------------------------|-------|---------|----------|---|---------|-----|------------|------------|

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Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2305 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B1F2305-BLK1)</b>            |        |                 |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | ND     | 0.00200         | mg/kg |             |   |      |             |     |           | U     |
| Naphthalene                            | ND     | 0.0100          | "     |             |   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene                 | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 0.11   |                 | "     | 0.125       |   | 91.3 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                 | "     | 0.125       |   | 89.8 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 96.3 | 70-130      |     |           |       |

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Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2305 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B1F2305-BS1)</b>               |        |                 |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0513 | 0.00200         | mg/kg | 0.0500      |   | 103  | 70-130      |     |           |       |
| Naphthalene                            | 0.0441 | 0.0100          | "     | 0.0500      |   | 88.3 | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene                 | 0.0510 | 0.00200         | "     | 0.0500      |   | 102  | 70-130      |     |           |       |
| Benzene                                | 0.0649 | 0.00200         | "     | 0.0500      |   | 130  | 70-130      |     |           |       |
| Ethylbenzene                           | 0.0541 | 0.00200         | "     | 0.0500      |   | 108  | 70-130      |     |           |       |
| m,p-Xylene                             | 0.110  | 0.00400         | "     | 0.100       |   | 110  | 70-130      |     |           |       |
| o-Xylene                               | 0.0513 | 0.00200         | "     | 0.0500      |   | 103  | 70-130      |     |           |       |
| Toluene                                | 0.0542 | 0.00200         | "     | 0.0500      |   | 108  | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.11   |                 | "     | 0.125       |   | 91.6 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                 | "     | 0.125       |   | 88.9 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 98.8 | 70-130      |     |           |       |

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Project: GWOC - UPRR Meyer

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2305 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |     |           |       |
| <b>Matrix Spike (B1F2305-MS1)</b>      |        | <b>Source: Y106537-01</b> |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0452 | 0.00200                   | mg/kg | 0.0500      | 0.00120                                   | 87.9 | 70-130      |     |           |       |
| Naphthalene                            | 0.0381 | 0.0100                    | "     | 0.0500      | 0.00304                                   | 70.1 | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene                 | 0.0455 | 0.00200                   | "     | 0.0500      | 0.00114                                   | 88.6 | 70-130      |     |           |       |
| Benzene                                | 0.0630 | 0.00200                   | "     | 0.0500      | ND  | 126  | 70-130      |     |           |       |
| Ethylbenzene                           | 0.0488 | 0.00200                   | "     | 0.0500      | ND  | 97.7 | 70-130      |     |           |       |
| m,p-Xylene                             | 0.0995 | 0.00400                   | "     | 0.100       | ND  | 99.5 | 70-130      |     |           |       |
| o-Xylene                               | 0.0466 | 0.00200                   | "     | 0.0500      | 0.00132                                   | 90.6 | 70-130      |     |           |       |
| Toluene                                | 0.0504 | 0.00200                   | "     | 0.0500      | ND  | 101  | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.11   |                           | "     | 0.125       |   | 90.9 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                           | "     | 0.125       |   | 88.7 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                           | "     | 0.125       |   | 98.5 | 70-130      |     |           |       |

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Project: GWOC - UPRR Meyer

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B1F2305 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B1F2305-MSD1)</b> |        | <b>Source: Y106537-01</b> |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |      |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0539 | 0.00200                   | mg/kg | 0.0500      | 0.00120                                   | 105  | 70-130      | 17.6 | 20        |       |
| Naphthalene                            | 0.0447 | 0.0100                    | "     | 0.0500      | 0.00304                                   | 83.3 | 70-130      | 15.9 | 20        |       |
| 1,3,5-Trimethylbenzene                 | 0.0542 | 0.00200                   | "     | 0.0500      | 0.00114                                   | 106  | 70-130      | 17.6 | 20        |       |
| Benzene                                | 0.0732 | 0.00200                   | "     | 0.0500      | ND  | 146  | 70-130      | 14.9 | 20        | QM-07 |
| Ethylbenzene                           | 0.0587 | 0.00200                   | "     | 0.0500      | ND  | 117  | 70-130      | 18.4 | 20        |       |
| m,p-Xylene                             | 0.119  | 0.00400                   | "     | 0.100       | ND  | 119  | 70-130      | 17.7 | 20        |       |
| o-Xylene                               | 0.0554 | 0.00200                   | "     | 0.0500      | 0.00132                                   | 108  | 70-130      | 17.3 | 20        |       |
| Toluene                                | 0.0594 | 0.00200                   | "     | 0.0500      | ND  | 119  | 70-130      | 16.4 | 20        |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.12   |                           | "     | 0.125       |   | 93.1 | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                           | "     | 0.125       |   | 88.8 | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                           | "     | 0.125       |   | 98.5 | 70-130      |      |           |       |

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Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

| Analyte                           | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2306 - EPA 3550B</b>  |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B1F2306-BLK1)</b>       |        |                 |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |     |           |       |
| Diesel (C10-C28)                  | ND     | 50.0            | mg/kg |             |   |      |             |     |           | U     |
| Residual Range Organics (C28-C40) | ND     | 200             | "     |             |   |      |             |     |           | U     |
| Surrogate: o-Terphenyl            | 50     |                 | "     | 50.0        |   | 99.7 | 50-150      |     |           |       |

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Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B1F2306 - EPA 3550B**

**LCS (B1F2306-BS1)**

Prepared: 06/23/2021 Analyzed: 06/23/2021

|                                   |     |      |       |      |     |        |
|-----------------------------------|-----|------|-------|------|-----|--------|
| Diesel (C10-C28)                  | 551 | 50.0 | mg/kg | 500  | 110 | 70-130 |
| Residual Range Organics (C28-C40) | 600 | 200  | "     | 500  | 120 | 70-130 |
| Surrogate: o-Terphenyl            | 64  |      | "     | 50.0 | 129 | 50-150 |

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Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B1F2306 - EPA 3550B**

| Matrix Spike (B1F2306-MS1)        |     | Source: Y106537-01 |       |      | Prepared: 06/23/2021 Analyzed: 06/23/2021 |     |        |  |  |  |
|-----------------------------------|-----|--------------------|-------|------|---|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 549 | 50.0               | mg/kg | 500  | ND  | 110 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 549 | 200                | "     | 500  | 47.5                                      | 100 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 51  |                    | "     | 50.0 |   | 103 | 50-150 |  |  |  |

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Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B1F2306 - EPA 3550B**

| Matrix Spike Dup (B1F2306-MSD1)   |     | Source: Y106537-01 |       |      | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |        |      |    |  |
|-----------------------------------|-----|--------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28)                  | 492 | 50.0               | mg/kg | 500  | ND  | 98.4 | 70-130 | 10.9 | 35 |  |
| Residual Range Organics (C28-C40) | 462 | 200                | "     | 500  | 47.5                                      | 82.8 | 70-130 | 17.3 | 35 |  |
| Surrogate: o-Terphenyl            | 55  |                    | "     | 50.0 |   | 110  | 50-150 |      |    |  |

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Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2313 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B1F2313-BLK1)</b>            |        |                 |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | ND     | 0.00200         | mg/kg |             |   |      |             |     |           | U     |
| Naphthalene                            | ND     | 0.00380         | "     |             |   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene                 | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 0.11   |                 | "     | 0.125       |   | 87.8 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                 | "     | 0.125       |   | 90.4 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 95.0 | 70-130      |     |           |       |

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C021-031  
Project: GWOC - UPRR Meyer

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2313 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B1F2313-BS1)</b>               |        |                 |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0478 | 0.00200         | mg/kg | 0.0500      |   | 95.7 | 70-130      |     |           |       |
| Naphthalene                            | 0.0429 | 0.0100          | "     | 0.0500      |   | 85.7 | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene                 | 0.0470 | 0.00200         | "     | 0.0500      |   | 94.0 | 70-130      |     |           |       |
| Benzene                                | 0.0583 | 0.00200         | "     | 0.0500      |   | 117  | 70-130      |     |           |       |
| Ethylbenzene                           | 0.0494 | 0.00200         | "     | 0.0500      |   | 98.8 | 70-130      |     |           |       |
| m,p-Xylene                             | 0.101  | 0.00400         | "     | 0.100       |   | 101  | 70-130      |     |           |       |
| o-Xylene                               | 0.0470 | 0.00200         | "     | 0.0500      |   | 94.0 | 70-130      |     |           |       |
| Toluene                                | 0.0486 | 0.00200         | "     | 0.0500      |   | 97.3 | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.11   |                 | "     | 0.125       |   | 86.0 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                 | "     | 0.125       |   | 90.1 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 98.8 | 70-130      |     |           |       |

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## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

| Analyte                          | Result | Reporting Limit    | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|----------------------------------|--------|--------------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B1F2313 - EPA 5030 (soil)  |        |                    |       |             |   |      |             |     |           |       |
| Matrix Spike (B1F2313-MS1)       |        | Source: Y106537-02 |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene           | 0.0617 | 0.00200            | mg/kg | 0.0500      | 0.00108                                   | 121  | 70-130      |     |           |       |
| Naphthalene                      | 0.0494 | 0.0100             | "     | 0.0500      | 0.00236                                   | 94.0 | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene           | 0.0617 | 0.00200            | "     | 0.0500      | ND  | 123  | 70-130      |     |           |       |
| Benzene                          | 0.0773 | 0.00200            | "     | 0.0500      | ND  | 155  | 70-130      |     |           | QM-07 |
| Ethylbenzene                     | 0.0643 | 0.00200            | "     | 0.0500      | ND  | 129  | 70-130      |     |           |       |
| m,p-Xylene                       | 0.132  | 0.00400            | "     | 0.100       | ND  | 132  | 70-130      |     |           | QM-07 |
| o-Xylene                         | 0.0616 | 0.00200            | "     | 0.0500      | ND  | 123  | 70-130      |     |           |       |
| Toluene                          | 0.0637 | 0.00200            | "     | 0.0500      | ND  | 127  | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11   |                    | "     | 0.125       |   | 90.3 | 70-130      |     |           |       |
| Surrogate: Toluene-d8            | 0.11   |                    | "     | 0.125       |   | 88.5 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene  | 0.12   |                    | "     | 0.125       |   | 98.8 | 70-130      |     |           |       |

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD    | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|--------|-----------|-------|
| <b>Batch B1F2313 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |        |           |       |
| <b>Matrix Spike Dup (B1F2313-MSD1)</b> |        | <b>Source: Y106537-02</b> |       |             | Prepared: 06/23/2021 Analyzed: 06/23/2021 |      |             |        |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0608 | 0.00200                   | mg/kg | 0.0500      | 0.00108                                   | 119  | 70-130      | 1.54   | 20        |       |
| Naphthalene                            | 0.0494 | 0.0100                    | "     | 0.0500      | 0.00236                                   | 94.1 | 70-130      | 0.0810 | 20        |       |
| 1,3,5-Trimethylbenzene                 | 0.0609 | 0.00200                   | "     | 0.0500      | ND  | 122  | 70-130      | 1.40   | 20        |       |
| Benzene                                | 0.0773 | 0.00200                   | "     | 0.0500      | ND  | 155  | 70-130      | 0.0776 | 20        | QM-07 |
| Ethylbenzene                           | 0.0647 | 0.00200                   | "     | 0.0500      | ND  | 129  | 70-130      | 0.527  | 20        |       |
| m,p-Xylene                             | 0.131  | 0.00400                   | "     | 0.100       | ND  | 131  | 70-130      | 0.228  | 20        | QM-07 |
| o-Xylene                               | 0.0614 | 0.00200                   | "     | 0.0500      | ND  | 123  | 70-130      | 0.195  | 20        |       |
| Toluene                                | 0.0638 | 0.00200                   | "     | 0.0500      | ND  | 128  | 70-130      | 0.126  | 20        |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.11   |                           | "     | 0.125       |   | 91.3 | 70-130      |        |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                           | "     | 0.125       |   | 88.9 | 70-130      |        |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                           | "     | 0.125       |   | 99.3 | 70-130      |        |           |       |

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2401 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B1F2401-BLK1)</b>            |        |                 |       |             | Prepared: 06/24/2021 Analyzed: 06/24/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | ND     | 0.00200         | mg/kg |             |   |      |             |     |           | U     |
| Naphthalene                            | ND     | 0.0100          | "     |             |   |      |             |     |           | U     |
| 1,3,5-Trimethylbenzene                 | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Benzene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Ethylbenzene                           | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Toluene                                | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Gasoline Range Hydrocarbons            | ND     | 0.200           | "     |             |   |      |             |     |           | U     |
| Xylenes, total                         | ND     | 0.00200         | "     |             |   |      |             |     |           | U     |
| Surrogate: 1,2-Dichloroethane-d4       | 0.12   |                 | "     | 0.125       |   | 95.6 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.12   |                 | "     | 0.125       |   | 92.2 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 96.3 | 70-130      |     |           |       |

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| <b>Batch B1F2401 - EPA 5030 (soil)</b> |        |                 |       |             |   |      |             |     |           |       |
| <b>LCS (B1F2401-BS1)</b>               |        |                 |       |             | Prepared: 06/24/2021 Analyzed: 06/24/2021 |      |             |     |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0491 | 0.00200         | mg/kg | 0.0500      |   | 98.2 | 70-130      |     |           |       |
| Naphthalene                            | 0.0476 | 0.0100          | "     | 0.0500      |   | 95.3 | 70-130      |     |           |       |
| 1,3,5-Trimethylbenzene                 | 0.0489 | 0.00200         | "     | 0.0500      |   | 97.8 | 70-130      |     |           |       |
| Benzene                                | 0.0528 | 0.00200         | "     | 0.0500      |   | 106  | 70-130      |     |           |       |
| Ethylbenzene                           | 0.0481 | 0.00200         | "     | 0.0500      |   | 96.2 | 70-130      |     |           |       |
| m,p-Xylene                             | 0.0980 | 0.00400         | "     | 0.100       |   | 98.0 | 70-130      |     |           |       |
| o-Xylene                               | 0.0487 | 0.00200         | "     | 0.0500      |   | 97.4 | 70-130      |     |           |       |
| Toluene                                | 0.0474 | 0.00200         | "     | 0.0500      |   | 94.8 | 70-130      |     |           |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.12   |                 | "     | 0.125       |   | 93.7 | 70-130      |     |           |       |
| Surrogate: Toluene-d8                  | 0.12   |                 | "     | 0.125       |   | 92.3 | 70-130      |     |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                 | "     | 0.125       |   | 95.6 | 70-130      |     |           |       |

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**Origins Laboratory, Inc.**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B1F2401 - EPA 5030 (soil)**

| Matrix Spike (B1F2401-MS1)       |        | Source: Y106558-01 |       |        | Prepared: 06/24/2021 Analyzed: 06/26/2021 |      |        |  |  |  |
|----------------------------------|--------|--------------------|-------|--------|---|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene           | 0.0391 | 0.00200            | mg/kg | 0.0500 | ND  | 78.3 | 70-130 |  |  |  |
| Naphthalene                      | 0.0487 | 0.0100             | "     | 0.0500 | ND  | 97.4 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0371 | 0.00200            | "     | 0.0500 | ND  | 74.2 | 70-130 |  |  |  |
| Benzene                          | 0.0495 | 0.00200            | "     | 0.0500 | ND  | 99.0 | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0371 | 0.00200            | "     | 0.0500 | ND  | 74.1 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.0759 | 0.00400            | "     | 0.100  | ND  | 75.9 | 70-130 |  |  |  |
| o-Xylene                         | 0.0403 | 0.00200            | "     | 0.0500 | ND  | 80.7 | 70-130 |  |  |  |
| Toluene                          | 0.0398 | 0.00200            | "     | 0.0500 | ND  | 79.5 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13   |                    | "     | 0.125  |   | 105  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.11   |                    | "     | 0.125  |   | 87.5 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.12   |                    | "     | 0.125  |   | 94.8 | 70-130 |  |  |  |

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                                | Result | Reporting Limit           | Units | Spike Level | Source Result                             | %REC | %REC Limits | RPD  | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| <b>Batch B1F2401 - EPA 5030 (soil)</b> |        |                           |       |             |   |      |             |      |           |       |
| <b>Matrix Spike Dup (B1F2401-MSD1)</b> |        | <b>Source: Y106558-01</b> |       |             | Prepared: 06/24/2021 Analyzed: 06/26/2021 |      |             |      |           |       |
| 1,2,4-Trimethylbenzene                 | 0.0411 | 0.00200                   | mg/kg | 0.0500      | ND  | 82.1 | 70-130      | 4.79 | 20        |       |
| Naphthalene                            | 0.0503 | 0.0100                    | "     | 0.0500      | ND  | 101  | 70-130      | 3.27 | 20        |       |
| 1,3,5-Trimethylbenzene                 | 0.0402 | 0.00200                   | "     | 0.0500      | ND  | 80.4 | 70-130      | 8.07 | 20        |       |
| Benzene                                | 0.0547 | 0.00200                   | "     | 0.0500      | ND  | 109  | 70-130      | 10.1 | 20        |       |
| Ethylbenzene                           | 0.0408 | 0.00200                   | "     | 0.0500      | ND  | 81.5 | 70-130      | 9.51 | 20        |       |
| m,p-Xylene                             | 0.0823 | 0.00400                   | "     | 0.100       | ND  | 82.3 | 70-130      | 8.09 | 20        |       |
| o-Xylene                               | 0.0418 | 0.00200                   | "     | 0.0500      | ND  | 83.7 | 70-130      | 3.65 | 20        |       |
| Toluene                                | 0.0442 | 0.00200                   | "     | 0.0500      | ND  | 88.4 | 70-130      | 10.6 | 20        |       |
| Surrogate: 1,2-Dichloroethane-d4       | 0.13   |                           | "     | 0.125       |   | 103  | 70-130      |      |           |       |
| Surrogate: Toluene-d8                  | 0.11   |                           | "     | 0.125       |   | 88.2 | 70-130      |      |           |       |
| Surrogate: 4-Bromofluorobenzene        | 0.12   |                           | "     | 0.125       |   | 93.5 | 70-130      |      |           |       |

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## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Saturated Paste - Quality Control

### Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch B1F2414 - NO PREP

##### Blank (B1F2414-BLK1)

Prepared: 06/24/2021 Analyzed: 06/25/2021

Specific Conductance (EC) 0.00380 0.00500 mmhos/cm

##### Duplicate (B1F2414-DUP1)

Source: Y106529-01

Prepared: 06/24/2021 Analyzed: 06/25/2021

Specific Conductance (EC) 2.18 0.00500 mmhos/cm 2.38 8.80 25

#### Batch B1F2416 - NO PREP

##### Duplicate (B1F2416-DUP1)

Source: Y106529-01

Prepared: 06/23/2021 Analyzed: 06/24/2021

pH 7.21 pH Units 7.22 0.139 25

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### Notes and Definitions

- U Sample is Non-Detect.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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