

## Wellhead Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

|  |             |                           |                            |                                     |
|--|-------------|---------------------------|----------------------------|-------------------------------------|
| Additional attachments (optional):   | Pit Closure | Tank Battery Closure      | Flowline Closure<br>5-5-22 | Partially Buried Vault Closure      |
| Site Name & COGCC Facility Number: <b>JOHNSON 8 #13-270</b>  |             | Date: <b>5-5-22</b>       |                            | Remediation Project #: <b>22672</b> |
| Associated Wells: <b>05-123-29F48</b>  |             | Age of Site: <b>YEARS</b> |                            | Number of Photos Attached: <b>1</b> |
| Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <b>40.322283, -104.607846</b> |             |                           |                            | Estimated Facility Size (acres):    |

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  
**GOOD**

USCS Soil Type: **SW** Estimated Depth to Groundwater: **~ 12-15'**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**NONE OBSERVED**

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**NONE OBSERVED**

| Wellhead(s)                                 |                             |          |          |          |          |
|---|-----------------------------|----------|----------|----------|----------|
| Well API                                    | 05-123-29F48                |          |          |          |          |
| Age   | YEARS                       |          |          |          |          |
| Condition of surface around wellhead        | GOOD - PER CREW             |          |          |          |          |
| PID Readings                                | NA - EXCAVATED UPON ARRIVAL |          |          |          |          |
| Condition of subsurface (satellite present) | GOOD                        |          |          |          |          |
| PID Readings                                | 0.9                         | 2.1      | 1.1      | 3.4      | 3.8      |
| Sample taken? Location/Sample ID            | WH-SS-01                    | WH-SS-02 | WH-SS-03 | WH-SS-04 | WH-F5-01 |
| Photo Number(s)                             | SEE PHOTOLOG                |          |          |          |          |

Other observations regarding wellheads:

**WELL CASING CUT/CAPPED FOLLOWING ASSESSMENT.**

| Summary   |   |
|---|---|
| Was impacted soil identified?                               | <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards   |
| Total number of samples field screened:                     | <b>5</b> Total number of samples collected: <b>5</b>  |
| Highest PID Reading:  | <b>3.8</b> Total number of samples submitted to lab for analysis: <b>1</b>  |
| If more than 10 cubic yards of impacted soil were observed: |   |
| Vertical extent:  | <b>N/A</b> Estimated spill volume:  |
| Lateral extent:   | Volume of soil removed:   |
| Is additional investigation required?                       |   |
| Was groundwater encountered during the investigation?       | <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils |
| Measured depth to groundwater:                              | Was remedial groundwater removal conducted? Yes No  |
| Date Groundwater was encountered:                           | Commencement date of removal:   |
| Sheen on groundwater? Yes No                                | Volume of groundwater removed prior to sampling:  |
| Free product observed? Yes No                               | Volume of groundwater removed post sampling:  |
| Total number of samples collected:                          | Total Volume of groundwater removed:  |
| Total number of samples submitted to lab for analysis:      |   |

## Flowline Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

|  |  |                           |  |                              |  |                  |                                     |
|--|--|---------------------------|--|------------------------------|--|------------------|-------------------------------------|
| Additional Attachments:                              |  | Tank Battery Closure<br>— |  | Wellhead Closure<br>5-5-22   |  | Pit Closure<br>— | Partially Buried Vault Closure<br>— |
| Site Name & COGCC Facility Number: JOHNSON G #13-270 |  | Date: 5-5-22              |  | Remediation Project #: 22672 |  |                  |                                     |
| Associated Wells: 05-123-29848                       |  | Age of Site: YEARS        |  | Number of Photos Attached: 1 |  |                  |                                     |

Starting point: (GPS coordinates and descriptions) 40.32222, -104.60735 AT WELL

End point: (GPS coordinates and descriptions) 40.320505, -104.611787 AT SEPARATOR

USCS Soil Type: SW Estimated Depth to Groundwater: ~12-15'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
NONE OBSERVED

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
NONE OBSERVED

#### Flowlines

|                                   |                           |  |  |  |  |  |  |
|-----------------------------------|---------------------------|--|--|--|--|--|--|
| Flowline type                     | O, C, W                   |  |  |  |  |  |  |
| Depth                             | ~ 4'                      |  |  |  |  |  |  |
| Age                               | YEARS                     |  |  |  |  |  |  |
| Length                            | ~ 1545'                   |  |  |  |  |  |  |
| Construction Material             | STEEL                     |  |  |  |  |  |  |
| Were flowlines pulled?            | NO - ABANDONED IN PLACE   |  |  |  |  |  |  |
| Visual Integrity of lines         | GOOD - PER INTEGRITY TEST |  |  |  |  |  |  |
| Visual Impacts if trenched        | NA                        |  |  |  |  |  |  |
| PID Readings if trenched          | 2.8                       |  |  |  |  |  |  |
| Sample taken? Location/Sample ID# | FL-SS-01                  |  |  |  |  |  |  |
| Photo Number(s)                   | SEE PHOTOLOG              |  |  |  |  |  |  |

Other observations regarding on location flowlines:  
FL ABANDONED IN PLACE. PT B (OSEP) ASSESSED. CHANGE OF DIRECTION NOT ASSESSED DUE TO FIELD CONSTRAINTS.

#### Summary

Was impacted soil identified?  No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: 1 Total number of samples collected: 1

Highest PID Reading: 2.8 Total number of samples submitted to lab for analysis: 1

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: Estimated spill volume:

Lateral extent: N/A Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?  No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: Commencement date of removal:

Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling:

Free product observed? Yes No Volume of groundwater removed post sampling:

Total number of samples collected: Total Volume of groundwater removed:

Total number of samples submitted to lab for analysis:



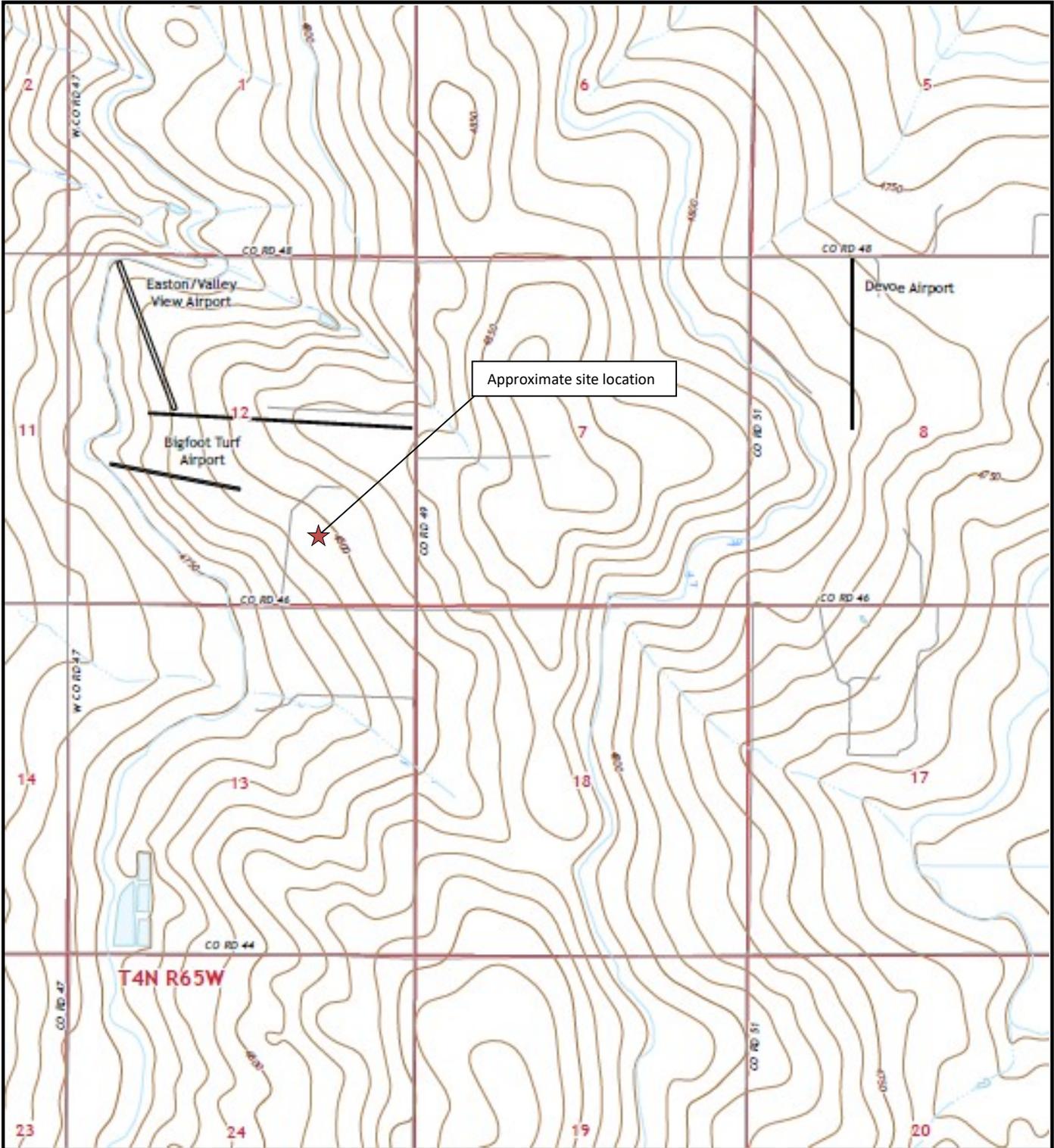
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**

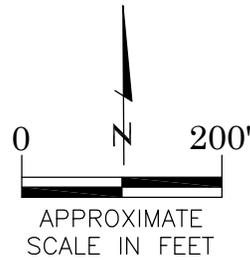


|  |  |  |
|--|--|--|
|  | <p><b>Topographic Site Location Map</b><br/>         Johnson G #13-27D<br/>         Closure Assessment<br/>         40.322233 / -104.607346<br/>         SW¼ SE¼ SEC.12 T4N R65W 6PM<br/>         Weld County, Colorado<br/>         API # 05-123-29484<br/>         Remediation # 22672</p> | <p><b>EAGLE</b><br/>         ENVIRONMENTAL<br/>         CONSULTING, INC.</p> |
| <p>Source: USGS 7.5 Minute Topographic Map, Valley View School, CO Quadrangle 2022</p> | <p><b>Figure 1</b></p>   |  |



**LEGEND**

- FORMER JOHNSON G #13-27D WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



AERIAL SITE LOCATION MAP  
 JOHNSON G #13-27D  
 CLOSURE ASSESSMENT  
 40.322233 / -104.607346  
 SW $\frac{1}{4}$  SE $\frac{1}{4}$  SEC.12 T4N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-29484  
 REMEDIATION # 22672

DATE:  
12/29/22

FIG. NO. DRAWN BY:  
2 IM



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**LEGEND**

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)

**PARAMETERS**

| SAMPLE LOCATION |                                   |
|-----------------|-----------------------------------|
| DATE            |                                   |
| DEPTH (FEET)    |                                   |
| B               | = BENZENE (mg/kg)                 |
| T               | = TOLUENE (mg/kg)                 |
| E               | = ETHYLBENZENE (mg/kg)            |
| X               | = TOTAL XYLENES (mg/kg)           |
| G               | = TPH-GRO (mg/kg)                 |
| D               | = TPH-DRO (mg/kg)                 |
| R               | = TPH-RRO (mg/kg)                 |
| 1,2,4-TMB       | = 1,2,4 TRIMETHYLBENZENE (mg/kg)  |
| 1,3,5-TMB       | = 1,3,5 TRIMETHYLBENZENE (mg/kg)  |
| Brn             | = BORON (mg/L)                    |
| EC              | = SPECIFIC CONDUCTANCE (mmhos/cm) |
| SAR             | = SODIUM ADSORPTION RATIO         |
| pH              | = pH (pH UNITS)                   |

mg/kg = MILLIGRAMS PER KILOGRAM  
 mg/L = MILLIGRAMS PER LITER  
 mmhos/cm = MILLIMHOS PER CENTIMETER

NA - NOT ANALYZED

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS THAT EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

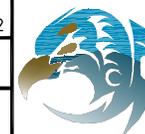
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP  
 JOHNSON G #13-27D  
 CLOSURE ASSESSMENT  
 40.322233 / -104.607346  
 SW¼ SE¼ SEC.12 T4N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-29484  
 REMEDIATION # 22672

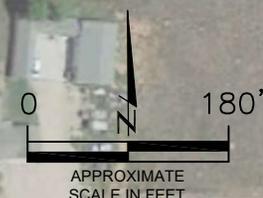
DATE:  
 12/29/22

DRAWN BY:  
 IM

FIG.  
 NO. 3



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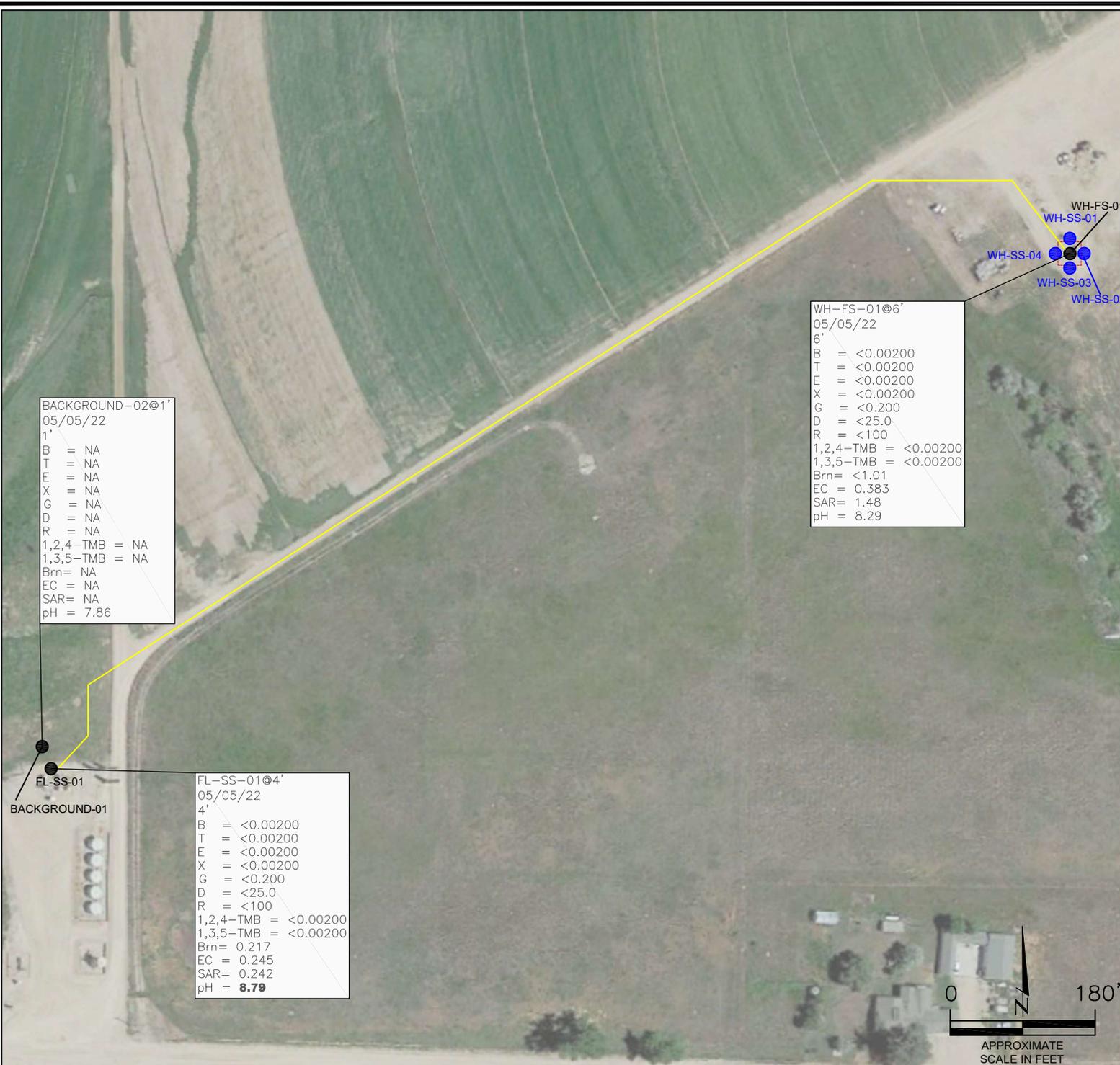


WH-FS-01@6'  
 05/05/22  
 6'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn = <1.01  
 EC = 0.383  
 SAR = 1.48  
 pH = 8.29

BACKGROUND-02@1'  
 05/05/22  
 1'  
 B = NA  
 T = NA  
 E = NA  
 X = NA  
 G = NA  
 D = NA  
 R = NA  
 1,2,4-TMB = NA  
 1,3,5-TMB = NA  
 Brn = NA  
 EC = NA  
 SAR = NA  
 pH = 7.86

FL-SS-01@4'  
 05/05/22  
 4'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn = 0.217  
 EC = 0.245  
 SAR = 0.242  
 pH = **8.79**

FL-SS-01  
 BACKGROUND-01



**LEGEND**

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)

**PARAMETERS**

| SAMPLE LOCATION                         |
|---|
| DATE SAMPLE COLLECTED                   |
| APPROXIMATE DEPTH                       |
| POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) |

NOTE:  
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

NOTE:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

JOHNSON G #13-27D  
CLOSURE ASSESSMENT  
40.322233 / -104.607346  
SWSE SEC.12 T4N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29484  
REMEDIAION # 22672

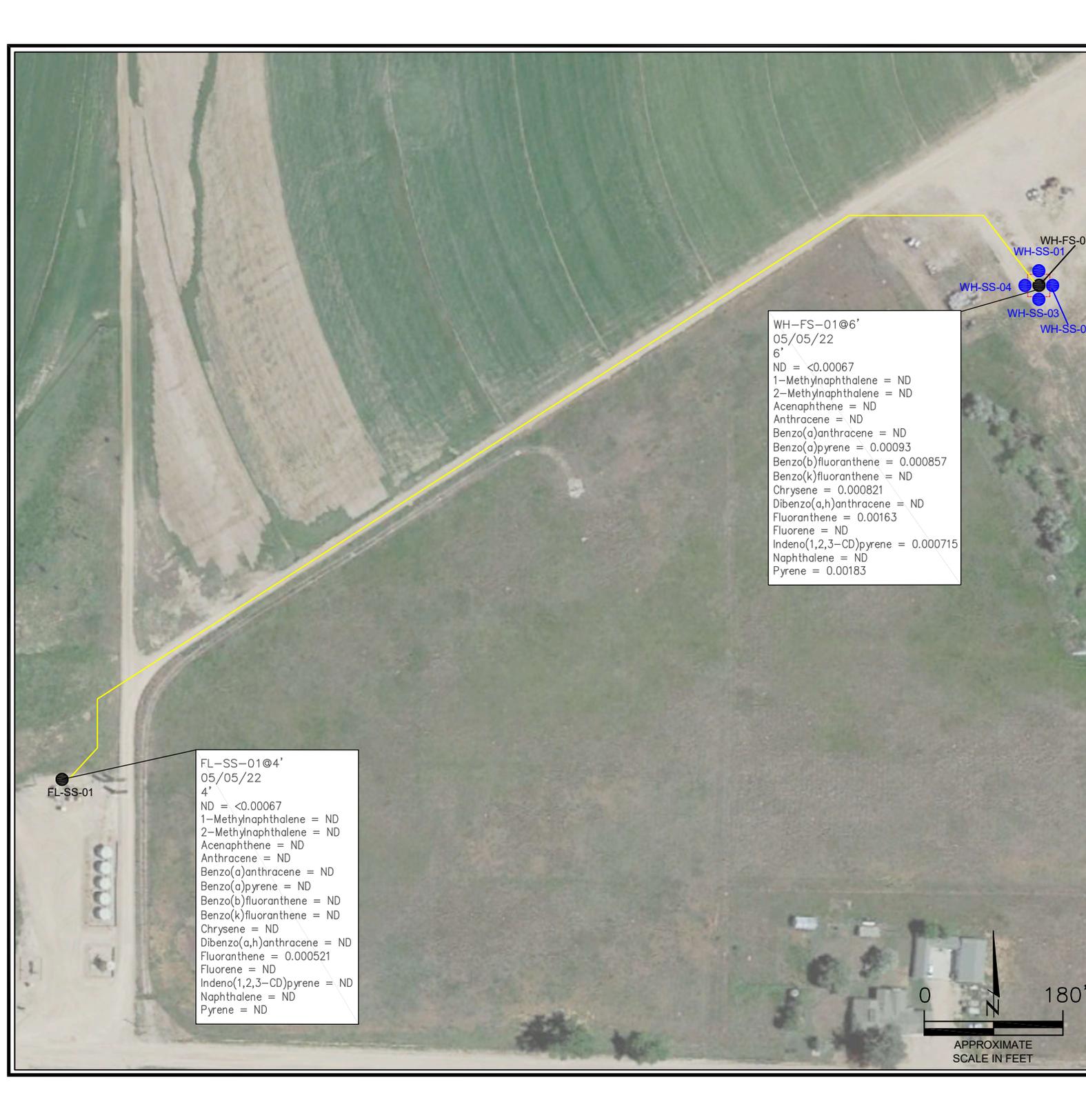
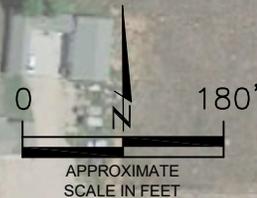
|           |          |
|-----------|----------|
| DATE:     | 12/29/22 |
| DRAWN BY: | IM       |
| FIG. NO.  | 4        |



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WH-FS-01@6'  
05/05/22  
6'  
ND = <0.00067  
1-Methynaphthalene = ND  
2-Methynaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = 0.00093  
Benzo(b)fluoranthene = 0.000857  
Benzo(k)fluoranthene = ND  
Chrysene = 0.000821  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00163  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = 0.000715  
Naphthalene = ND  
Pyrene = 0.00183

FL-SS-01@4'  
05/05/22  
4'  
ND = <0.00067  
1-Methynaphthalene = ND  
2-Methynaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.000521  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND





## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**JOHNSON G #13-27D**  
**CLOSURE ASSESSMENT**  
**40.322233 / -104.607346**  
**SW1/4 SE1/4 SEC.12 T4N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-29484**  
**REMEDIAION # 22672**

| Sample Location<br>(Latitude/Longitude)  | Date     | Approximate<br>Depth<br>(feet) | PID Reading<br>(ppm-v) | Lab Submission<br>(Y/N) |
|--|----------|--------------------------------|------------------------|-------------------------|
| WH-SS-01 @ 5'<br>(40.322233 / -104.607350)   | 05/05/22 | 5                              | 0.9                    | N                       |
| WH-SS-02 @ 5'<br>(40.322225 / -104.607334)   | 05/05/22 | 5                              | 2.1                    | N                       |
| WH-SS-03 @ 5'<br>(40.322219 / -104.607344)   | 05/05/22 | 5                              | 1.1                    | N                       |
| WH-SS-04 @ 5'<br>(40.322225 / -104.607357)   | 05/05/22 | 5                              | 3.4                    | N                       |
| WH-FS-01 @ 6'<br>(40.322225 / -104.607346)   | 05/05/22 | 6                              | 3.8                    | Y                       |
| FL-SS-01 @ 4'<br>(40.320507 / -104.611791)   | 05/05/22 | 4                              | 1.1                    | Y                       |
| Background-02 @ 1'<br>(40.320570 / -104.611775)  | 05/05/22 | 1                              | 1.3                    | Y                       |
| (Y/N) = Yes or No<br>ppm-v = parts per million by volume<br>PID = Photoionization Detector |          |                                |                        |                         |

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
JOHNSON G #13-27D  
CLOSURE ASSESSMENT  
40.322233 / -104.607346  
SW1/4 SE1/4 SEC.12 T4N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29484  
REMEDIATION # 22672

| Sample Location   |               | WH-FS-01 @ 6'   | FL-SS-01 @ 4'              | Background-02 @ 1'   |             |      |
|---|---------------|---|----------------------------|--|-------------|------|
| (Latitude / Longitude)  |               | (40.322225 / -104.607346)   | (40.320507 / -104.611791)  | (40.320570 / -104.611775)  |             |      |
| Sample Date   |               | 5/5/2022  | 5/5/2022                   | 5/5/2022   |             |      |
| Sample Depth  |               | 6'  | 4'                         | 1'   |             |      |
| PID Reading (ppm-v)   |               | 3.8   | 1.1                        | 1.3  |             |      |
| Regulatory Limits   |               |   |                            |  |             |      |
| Chemical of Concern   | Units         | COGCC<br>Table 915-1 RSSLs  | COGCC<br>Table 915-1 GSSLs |  |             |      |
| <b>VOCS</b>   |               |   |                            |  |             |      |
| Benzene   | mg/kg         | 1.2   | 0.0026                     | <0.00200   | <0.00200    | NA   |
| Toluene   | mg/kg         | 490   | 0.69                       | <0.00200   | <0.00200    | NA   |
| Ethylbenzene  | mg/kg         | 5.8   | 0.78                       | <0.00200   | <0.00200    | NA   |
| Total Xylenes   | mg/kg         | 58  | 9.9                        | <0.00200   | <0.00200    | NA   |
| 1,2,4-Trimethylbenzene  | mg/kg         | 30  | 0.0081                     | <0.00200   | <0.00200    | NA   |
| 1,3,5-Trimethylbenzene  | mg/kg         | 27  | 0.0087                     | <0.00200   | <0.00200    | NA   |
| <b>Total Petroleum Hydrocarbons</b>   |               |   |                            |  |             |      |
| TPH-GRO   | mg/kg         | 500   | --                         | <0.200   | <0.200      | NA   |
| TPH-DRO   | mg/kg         | 500   | --                         | <25.0  | <25.0       | NA   |
| TPH-RRO   | mg/kg         | 500   | --                         | <100   | <100        | NA   |
| <b>Polycyclic Aromatics Hydrocarbons</b>                                    |               |   |                            |  |             |      |
| 1-Methyl-naphthalene  | mg/kg         | 18  | 0.006                      | <0.00067   | <0.00067    | NA   |
| 2-Methyl-naphthalene  | mg/kg         | 24  | 0.019                      | <0.00067   | <0.00067    | NA   |
| Acenaphthene  | mg/kg         | 360   | 0.55                       | <0.00067   | <0.00067    | NA   |
| Anthracene  | mg/kg         | 1800  | 5.8                        | <0.00067   | <0.00067    | NA   |
| Benzo(a)-anthracene   | mg/kg         | 1.1   | 0.011                      | <0.00067   | <0.00067    | NA   |
| Benzo(a)-pyrene   | mg/kg         | 0.11  | 0.24                       | 0.00093  | <0.00067    | NA   |
| Benzo(b)-fluoranthene   | mg/kg         | 1.1   | 0.3                        | 0.000857   | <0.00067    | NA   |
| Benzo(k)-fluoranthene   | mg/kg         | 11  | 2.9                        | <0.00067   | <0.00067    | NA   |
| Chrysene  | mg/kg         | 110   | 9                          | 0.000821   | <0.00067    | NA   |
| Dibenzo(a,h)-anthracene   | mg/kg         | 0.11  | 0.096                      | <0.00067   | <0.00067    | NA   |
| Fluoranthene  | mg/kg         | 240   | 8.9                        | 0.00163  | 0.000521    | NA   |
| Fluorene  | mg/kg         | 240   | 0.54                       | <0.00067   | <0.00067    | NA   |
| Indeno(1,2,3-cd)-pyrene   | mg/kg         | 1.1   | 0.98                       | 0.000715   | <0.00067    | NA   |
| Naphthalene   | mg/kg         | 2   | 0.0038                     | <0.00067   | <0.00067    | NA   |
| Pyrene  | mg/kg         | 180   | 1.3                        | 0.00183  | <0.00067    | NA   |
| <b>Soil Suitability (Inorganics)</b>  |               |   |                            |  |             |      |
| Boron   | mg/L          | 2   | --                         | <1.01  | 0.217       | NA   |
| pH  | standard unit | 6-8.3   | --                         | 8.29   | <b>8.79</b> | 7.86 |
| Sodium Adsorption Ratio (SAR)   | --            | <6  | --                         | 1.48   | 0.242       | NA   |
| Specific Conductance (EC)   | mmhos/cm      | <4  | --                         | 0.383  | 0.245       | NA   |
| COGCC = Colorado Oil and Gas Conservation Commission                        |               | VOCS - Volatile Organic Compounds   |                            | NA - Not Analyzed  |             |      |
| mg/kg = milligrams per kilogram   |               | mmhos/cm = millimhos per centimeter   |                            | RSSLs = Residential Soil Screening Levels                        |             |      |
| PID = Photoionization Detector  |               | ppm-v = parts per million by volume   |                            | GSSLs = Protection of Groundwater Soil Screening Levels          |             |      |
| mg/L = milligrams per liter   |               | SAR = Sodium Adsorption Ratio   |                            | TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics |             |      |
| Notes:  |               | Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit |                            | TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics   |             |      |
| Values presented in <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits. |               |   |                            | TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics |             |      |



## **ATTACHMENT A**

### **Photo Log**

Johnson G #13-27  
API # 05-123-29848  
Remediation # 22672

Closure Assessment

May 2022



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, INC.

8000 W 44th Ave, Wheat Ridge, CO 80033  
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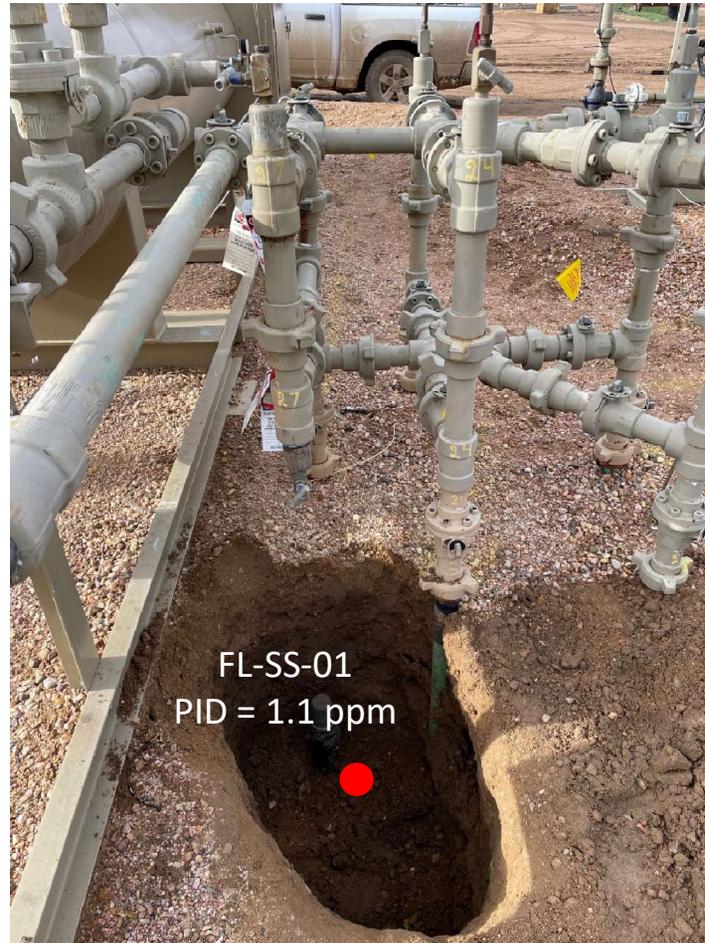


# Wellhead Excavation – 05/05/22



Looking northeast  
No petroleum hydrocarbon staining or odor observed

## Flowline Assessment – 05/05/22



FL-SS-01  
PID = 1.1 ppm

Looking south at pt. B at separator  
No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Reports**



May 18, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Johnson G #13-27D

Project Number - [none]

Attached are your analytical results for Noble - Johnson G #13-27D received by Origins Laboratory, Inc. May 05, 2022. This project is associated with Origins project number Y205143-01.

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Johnson G #13-27D

CROSS REFERENCE REPORT

| Sample ID   | Laboratory ID | Matrix | Date Sampled     | Date Received    |
|-------------|---------------|--------|------------------|------------------|
| WH-FS-01@6' | Y205143-01    | Soil   | May 5, 2022 7:50 | 05/05/2022 13:25 |
| FL-SS-01@4' | Y205143-02    | Soil   | May 5, 2022 8:02 | 05/05/2022 13:25 |

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.*



Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y205143

Client: Eagle

Client Project ID: Johnson G 13-27D

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 5/6/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other:

Cooler Number/Temperature: 1, 1.6 °C / °C / °C (Describe)

Thermometer ID: T004

| Requirement Description   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 8°C <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is there ice present (document if blue ice is used)   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)   |                                     | <input checked="" 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 checked="" type="checkbox"/> |                                     |                   |
| Were all samples received intact <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.  |                                     |                                     | <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 Na <sub>2</sub> SO <sub>2</sub> +NaOH, ZnAc+NaOH) |                                     |                                     | <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: JB (Project Manager)

Date/Time Reviewed: 5-8-22

Origins Laboratory, Inc.

*J. Bynon*

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.

Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**WH-FS-01@6'**  
**5/5/2022 7:50:00AM**

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

**Origins Laboratory, Inc.**  
**Y205143-01 (Soil)**

**Boron (DTPA Sorbitol)**

|       |    |  |      |      |    |         |            |            |  |
|-------|----|--|------|------|----|---------|------------|------------|--|
| Boron | ND |  | 1.01 | mg/L | 10 | B2E0907 | 05/09/2022 | 05/10/2022 |  |
|-------|----|--|------|------|----|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B2E0915 | 05/09/2022 | 05/13/2022 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

|                                |        |  |        |  |  |   |   |   |  |
|--------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: <i>o</i> -Terphenyl | 95.8 % |  | 50-150 |  |  | " | " | " |  |
|--------------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B2E0701 | 05/07/2022 | 05/07/2022 | 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 | 113 % |  | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**WH-FS-01@6'**

**5/5/2022 7:50:00AM**

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

**Origins Laboratory, Inc.**  
**Y205143-01 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |        |  |        |  |  |             |            |            |  |
|---------------------------------|--------|--|--------|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8           | 97.9 % |  | 70-130 |  |  | B2E07<br>01 | 05/07/2022 | 05/07/2022 |  |
| Surrogate: 4-Bromofluorobenzene | 94.9 % |  | 70-130 |  |  | "           | "          | "          |  |

**Metals by Saturated Paste by EPA 6010**

|           |      |  |       |       |    |        |            |            |  |
|-----------|------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | 1.18 |  | 0.499 | meq/L | 10 | [CALC] | 05/09/2022 | 05/10/2022 |  |
| Magnesium | ND   |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | 1.41 |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by 8270D SIM**

|                       |          |          |         |       |   |         |            |            |  |
|-----------------------|----------|----------|---------|-------|---|---------|------------|------------|--|
| 1-Methylnaphthalene   | ND       | 0.000364 | 0.00067 | mg/Kg | 1 | L615168 | 05/10/2022 | 05/11/2022 |  |
| 2-Methylnaphthalene   | ND       | 0.000645 | 0.00067 | "     | " | "       | "          | "          |  |
| Acenaphthene          | ND       | 0.000304 | 0.00067 | "     | " | "       | "          | "          |  |
| Anthracene            | ND       | 0.000334 | 0.00067 | "     | " | "       | "          | "          |  |
| Benzo(a)anthracene    | ND       | 0.000493 | 0.00067 | "     | " | "       | "          | "          |  |
| Benzo(a)pyrene        | 0.00093  | 0.000468 | 0.00067 | "     | " | "       | "          | "          |  |
| Benzo(b)fluoranthene  | 0.000857 | 0.000585 | 0.00067 | "     | " | "       | "          | "          |  |
| Benzo(k)fluoranthene  | ND       | 0.000437 | 0.00067 | "     | " | "       | "          | "          |  |
| Chrysene              | 0.000821 | 0.000624 | 0.00067 | "     | " | "       | "          | "          |  |
| Dibenz(a,h)anthracene | ND       | 0.000614 | 0.00067 | "     | " | "       | "          | "          |  |
| Fluoranthene          | 0.00163  | 0.000394 | 0.00067 | "     | " | "       | "          | "          |  |
| Fluorene              | ND       | 0.000286 | 0.00067 | "     | " | "       | "          | "          |  |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**WH-FS-01@6'**  
**5/5/2022 7:50:00AM**

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

**Waypoint Analytical, Inc.**  
**Y205143-01 (Soil)**

**PAH by 8270D SIM**

|                        |          |          |         |       |   |         |            |            |  |
|------------------------|----------|----------|---------|-------|---|---------|------------|------------|--|
| Indeno(1,2,3-cd)pyrene | 0.000715 | 0.000627 | 0.00067 | mg/Kg | 1 | L615168 | 05/10/2022 | 05/11/2022 |  |
| Naphthalene            | ND       | 0.000484 | 0.00067 | "     | " | "       | "          | "          |  |
| Pyrene                 | 0.00183  | 0.000643 | 0.00067 | "     | " | "       | "          | "          |  |

|                             |        |  |        |  |  |   |   |   |  |
|-----------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 2-Fluorobiphenyl | 66.7 % |  | 33-115 |  |  | " | " | " |  |
| Surrogate: 4-Terphenyl-d14  | 52.3 % |  | 33-122 |  |  | " | " | " |  |
| Surrogate: Nitrobenzene-d5  | 60.6 % |  | 29-110 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.29 |  |  | pH Units | 1 | B2E0906 | 05/09/2022 | 05/10/2022 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |      |  |  |     |   |         |            |            |  |
|-----|------|--|--|-----|---|---------|------------|------------|--|
| SAR | 1.48 |  |  | SAR | 1 | B2E0905 | 05/09/2022 | 05/10/2022 |  |
|-----|------|--|--|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.383 |  | 0.00500 | mmhos/cm | 1 | B2E0906 | 05/09/2022 | 05/10/2022 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**FL-SS-01@4'**

**5/5/2022 8:02:00AM**

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

**Origins Laboratory, Inc.**  
**Y205143-02 (Soil)**

**Boron (DTPA Sorbitol)**

|       |       |  |        |      |   |         |            |            |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|
| Boron | 0.217 |  | 0.0988 | mg/L | 1 | B2E0907 | 05/09/2022 | 05/10/2022 |  |
|-------|-------|--|--------|------|---|---------|------------|------------|--|

**DRO/ORO by EPA 8015D**

|                                   |    |  |      |       |   |         |            |            |   |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28)                  | ND |  | 25.0 | mg/kg | 1 | B2E0915 | 05/09/2022 | 05/13/2022 | U |
| Residual Range Organics (C28-C40) | ND |  | 100  | "     | " | "       | "          | "          | U |

|                        |        |  |        |  |  |   |   |   |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 91.0 % |  | 50-150 |  |  | " | " | " |  |
|------------------------|--------|--|--------|--|--|---|---|---|--|

**GBTEX+TMBs by 8260D**

|                             |    |  |         |       |   |         |            |            |   |
|-----------------------------|----|--|---------|-------|---|---------|------------|------------|---|
| 1,2,4-Trimethylbenzene      | ND |  | 0.00200 | mg/kg | 1 | B2E0701 | 05/07/2022 | 05/07/2022 | 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 | 110 % |  | 70-130 |  |  | " | " | " |  |
|----------------------------------|-------|--|--------|--|--|---|---|---|--|

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**FL-SS-01@4'**

**5/5/2022 8:02:00AM**

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

**Origins Laboratory, Inc.**  
**Y205143-02 (Soil)**

**GBTEX+TMBs by 8260D**

|                                 |        |  |        |  |  |             |            |            |  |
|---------------------------------|--------|--|--------|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8           | 95.1 % |  | 70-130 |  |  | B2E07<br>01 | 05/07/2022 | 05/07/2022 |  |
| Surrogate: 4-Bromofluorobenzene | 101 %  |  | 70-130 |  |  | "           | "          | "          |  |

**Metals by Saturated Paste by EPA 6010**

|           |              |  |       |       |    |        |            |            |  |
|-----------|--------------|--|-------|-------|----|--------|------------|------------|--|
| Calcium   | <b>2.34</b>  |  | 0.499 | meq/L | 10 | [CALC] | 05/09/2022 | 05/10/2022 |  |
| Magnesium | <b>0.922</b> |  | 0.823 | "     | "  | "      | "          | "          |  |
| Sodium    | ND           |  | 0.435 | "     | "  | "      | "          | "          |  |

**PAH by 8270D SIM**

|                       |                 |                 |         |       |   |         |            |            |   |
|-----------------------|-----------------|-----------------|---------|-------|---|---------|------------|------------|---|
| 1-Methylnaphthalene   | ND              | 0.000364        | 0.00067 | mg/Kg | 1 | L615168 | 05/10/2022 | 05/11/2022 |   |
| 2-Methylnaphthalene   | ND              | 0.000645        | 0.00067 | "     | " | "       | "          | "          |   |
| Acenaphthene          | ND              | 0.000304        | 0.00067 | "     | " | "       | "          | "          |   |
| Anthracene            | ND              | 0.000334        | 0.00067 | "     | " | "       | "          | "          |   |
| Benzo(a)anthracene    | ND              | 0.000493        | 0.00067 | "     | " | "       | "          | "          |   |
| Benzo(a)pyrene        | ND              | 0.000468        | 0.00067 | "     | " | "       | "          | "          |   |
| Benzo(b)fluoranthene  | ND              | 0.000585        | 0.00067 | "     | " | "       | "          | "          |   |
| Benzo(k)fluoranthene  | ND              | 0.000437        | 0.00067 | "     | " | "       | "          | "          |   |
| Chrysene              | ND              | 0.000624        | 0.00067 | "     | " | "       | "          | "          |   |
| Dibenz(a,h)anthracene | ND              | 0.000614        | 0.00067 | "     | " | "       | "          | "          |   |
| Fluoranthene          | <b>0.000521</b> | <b>0.000394</b> | 0.00067 | "     | " | "       | "          | "          | J |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**FL-SS-01@4'**

**5/5/2022 8:02:00AM**

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

**Waypoint Analytical, Inc.**  
**Y205143-02 (Soil)**

**PAH by 8270D SIM**

|                        |    |          |         |       |   |         |            |            |  |
|------------------------|----|----------|---------|-------|---|---------|------------|------------|--|
| Fluorene               | ND | 0.000286 | 0.00067 | mg/Kg | 1 | L615168 | 05/10/2022 | 05/11/2022 |  |
| Indeno(1,2,3-cd)pyrene | ND | 0.000627 | 0.00067 | "     | " | "       | "          | "          |  |
| Naphthalene            | ND | 0.000484 | 0.00067 | "     | " | "       | "          | "          |  |
| Pyrene                 | ND | 0.000643 | 0.00067 | "     | " | "       | "          | "          |  |

|                             |        |  |        |  |  |   |   |   |  |
|-----------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 2-Fluorobiphenyl | 64.4 % |  | 33-115 |  |  | " | " | " |  |
| Surrogate: 4-Terphenyl-d14  | 54.3 % |  | 33-122 |  |  | " | " | " |  |
| Surrogate: Nitrobenzene-d5  | 58.3 % |  | 29-110 |  |  | " | " | " |  |

**pH in Soil by 9045D**

|    |      |  |  |          |   |         |            |            |  |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.79 |  |  | pH Units | 1 | B2E0906 | 05/09/2022 | 05/10/2022 |  |
|----|------|--|--|----------|---|---------|------------|------------|--|

**SAR by 20B Saturated Paste**

|     |       |  |  |     |   |         |            |            |  |
|-----|-------|--|--|-----|---|---------|------------|------------|--|
| SAR | 0.242 |  |  | SAR | 1 | B2E0905 | 05/09/2022 | 05/10/2022 |  |
|-----|-------|--|--|-----|---|---------|------------|------------|--|

**Specific Conductance Mod. 9050A**

|                           |       |  |         |          |   |         |            |            |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.245 |  | 0.00500 | mmhos/cm | 1 | B2E0906 | 05/09/2022 | 05/10/2022 |  |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0701 - EPA 5030 (soil)**

**Blank (B2E0701-BLK1)**

Prepared: 05/07/2022 Analyzed: 05/07/2022

|                                  |      |         |       |       |      |  |        |  |  |   |
|----------------------------------|------|---------|-------|-------|------|--|--------|--|--|---|
| 1,2,4-Trimethylbenzene           | ND   | 0.00200 | mg/kg |       |      |  |        |  |  | U |
| 1,3,5-Trimethylbenzene           | ND   | 0.00200 | "     |       |      |  |        |  |  | U |
| Benzene                          | ND   | 0.00200 | "     |       |      |  |        |  |  | U |
| Ethylbenzene                     | ND   | 0.00200 | "     |       |      |  |        |  |  | U |
| Naphthalene                      | ND   | 0.0100  | "     |       |      |  |        |  |  | U |
| Toluene                          | ND   | 0.00200 | "     |       |      |  |        |  |  | U |
| Xylenes, total                   | ND   | 0.00200 | "     |       |      |  |        |  |  | U |
| Gasoline Range Hydrocarbons      | ND   | 0.200   | "     |       |      |  |        |  |  | U |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 |         | "     | 0.125 | 108  |  | 70-130 |  |  |   |
| Surrogate: Toluene-d8            | 0.12 |         | "     | 0.125 | 98.3 |  | 70-130 |  |  |   |
| Surrogate: 4-Bromofluorobenzene  | 0.12 |         | "     | 0.125 | 97.9 |  | 70-130 |  |  |   |

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0701 - EPA 5030 (soil)**

**LCS (B2E0701-BS1)**

Prepared: 05/07/2022 Analyzed: 05/07/2022

|                                  |       |         |       |       |  |      |        |  |  |  |
|----------------------------------|-------|---------|-------|-------|--|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene           | 0.102 | 0.00200 | mg/kg | 0.100 |  | 102  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.102 | 0.00200 | "     | 0.100 |  | 102  | 70-130 |  |  |  |
| Benzene                          | 0.105 | 0.00200 | "     | 0.100 |  | 105  | 70-130 |  |  |  |
| Ethylbenzene                     | 0.101 | 0.00200 | "     | 0.100 |  | 101  | 70-130 |  |  |  |
| Naphthalene                      | 0.101 | 0.0100  | "     | 0.100 |  | 101  | 70-130 |  |  |  |
| Toluene                          | 0.109 | 0.00200 | "     | 0.100 |  | 109  | 70-130 |  |  |  |
| o-Xylene                         | 0.101 | 0.00200 | "     | 0.100 |  | 101  | 70-130 |  |  |  |
| m,p-Xylene                       | 0.203 | 0.00400 | "     | 0.200 |  | 102  | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13  |         | "     | 0.125 |  | 101  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.12  |         | "     | 0.125 |  | 96.8 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13  |         | "     | 0.125 |  | 101  | 70-130 |  |  |  |

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0701 - EPA 5030 (soil)

| Matrix Spike (B2E0701-MS1)       | Source: Y205136-21 |         |       | Prepared: 05/07/2022 Analyzed: 05/07/2022 |    |      |        |  |  |  |
|----------------------------------|--------------------|---------|-------|---|----|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene           | 0.0966             | 0.00200 | mg/kg | 0.100                                     | ND | 96.6 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0960             | 0.00200 | "     | 0.100                                     | ND | 96.0 | 70-130 |  |  |  |
| Benzene                          | 0.102              | 0.00200 | "     | 0.100                                     | ND | 102  | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0972             | 0.00200 | "     | 0.100                                     | ND | 97.2 | 70-130 |  |  |  |
| Naphthalene                      | 0.0993             | 0.0100  | "     | 0.100                                     | ND | 99.3 | 70-130 |  |  |  |
| Toluene                          | 0.104              | 0.00200 | "     | 0.100                                     | ND | 104  | 70-130 |  |  |  |
| o-Xylene                         | 0.0968             | 0.00200 | "     | 0.100                                     | ND | 96.8 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.195              | 0.00400 | "     | 0.200                                     | ND | 97.3 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13               |         | "     | 0.125                                     |    | 107  | 70-130 |  |  |  |
| Surrogate: Toluene-d8            | 0.12               |         | "     | 0.125                                     |    | 95.5 | 70-130 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13               |         | "     | 0.125                                     |    | 102  | 70-130 |  |  |  |

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0701 - EPA 5030 (soil)

| Matrix Spike Dup (B2E0701-MSD1)  | Source: Y205136-21 |         |       | Prepared: 05/07/2022 Analyzed: 05/07/2022 |    |      |        |      |    |  |
|----------------------------------|--------------------|---------|-------|---|----|------|--------|------|----|--|
| 1,2,4-Trimethylbenzene           | 0.0836             | 0.00200 | mg/kg | 0.100                                     | ND | 83.6 | 70-130 | 14.4 | 20 |  |
| 1,3,5-Trimethylbenzene           | 0.0845             | 0.00200 | "     | 0.100                                     | ND | 84.5 | 70-130 | 12.7 | 20 |  |
| Benzene                          | 0.0891             | 0.00200 | "     | 0.100                                     | ND | 89.1 | 70-130 | 13.3 | 20 |  |
| Ethylbenzene                     | 0.0893             | 0.00200 | "     | 0.100                                     | ND | 89.3 | 70-130 | 8.41 | 20 |  |
| Naphthalene                      | 0.0873             | 0.0100  | "     | 0.100                                     | ND | 87.3 | 70-130 | 12.9 | 20 |  |
| Toluene                          | 0.0940             | 0.00200 | "     | 0.100                                     | ND | 94.0 | 70-130 | 9.89 | 20 |  |
| o-Xylene                         | 0.0877             | 0.00200 | "     | 0.100                                     | ND | 87.7 | 70-130 | 9.89 | 20 |  |
| m,p-Xylene                       | 0.178              | 0.00400 | "     | 0.200                                     | ND | 88.8 | 70-130 | 9.18 | 20 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14               |         | "     | 0.125                                     |    | 110  | 70-130 |      |    |  |
| Surrogate: Toluene-d8            | 0.12               |         | "     | 0.125                                     |    | 98.0 | 70-130 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 0.13               |         | "     | 0.125                                     |    | 103  | 70-130 |      |    |  |

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0915 - EPA 3550B</b>  |        |                 |       |             |   |      |             |     |           |       |
| <b>Blank (B2E0915-BLK1)</b>       |        |                 |       |             |   |      |             |     |           |       |
|                                   |        |                 |       |             | Prepared: 05/09/2022 Analyzed: 05/12/2022 |      |             |     |           |       |
| Diesel (C10-C28)                  | ND     | 25.0            | mg/kg |             |   |      |             |     |           | U     |
| Residual Range Organics (C28-C40) | ND     | 100             | "     |             |   |      |             |     |           | U     |
| Surrogate: o-Terphenyl            | 26     |                 | "     | 24.9        |   | 105  | 50-150      |     |           |       |

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0915 - EPA 3550B**

**LCS (B2E0915-BS1)**

Prepared: 05/09/2022 Analyzed: 05/12/2022

|                                   |      |      |       |      |  |     |        |  |  |  |
|-----------------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1080 | 50.0 | mg/kg | 1000 |  | 108 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 1080 | 200  | "     | 1000 |  | 108 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 55   |      | "     | 49.8 |  | 110 | 50-150 |  |  |  |

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0915 - EPA 3550B**

| <b>Matrix Spike (B2E0915-MS1)</b> | <b>Source: Y205139-01</b> |      |       | Prepared: 05/09/2022 Analyzed: 05/12/2022 |    |     |        |  |  |  |
|-----------------------------------|---------------------------|------|-------|---|----|-----|--------|--|--|--|
| Diesel (C10-C28)                  | 1090                      | 50.0 | mg/kg | 1000                                      | ND | 109 | 70-130 |  |  |  |
| Residual Range Organics (C28-C40) | 1050                      | 200  | "     | 1000                                      | ND | 105 | 70-130 |  |  |  |
| Surrogate: o-Terphenyl            | 53                        |      | "     | 49.8                                      |    | 106 | 50-150 |  |  |  |

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 B2E0915 - EPA 3550B</b>       |        |                 |       |             |                           |      |             |       |           |   |
| <b>Matrix Spike Dup (B2E0915-MSD1)</b> |        |                 |       |             | <b>Source: Y205139-01</b> |      |             |       |           | Prepared: 05/09/2022 Analyzed: 05/12/2022 |
| Diesel (C10-C28)                       | 1080   | 50.0            | mg/kg | 1000        | ND                        | 108  | 70-130      | 0.922 | 35        |   |
| Residual Range Organics (C28-C40)      | 1040   | 200             | "     | 1000        | ND                        | 104  | 70-130      | 1.03  | 35        |   |
| Surrogate: o-Terphenyl                 | 51     |                 | "     | 49.8        |                           | 103  | 50-150      |       |           |   |

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

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

**Batch B2E0906 - NO PREP**

**Blank (B2E0906-BLK1)**

Prepared: 05/09/2022 Analyzed: 05/10/2022

pH 0.00 pH Units  
 Specific Conductance (EC) 0.00120 0.0300 mmhos/cm

**Duplicate (B2E0906-DUP1)**

**Source: Y205142-01**

Prepared: 05/09/2022 Analyzed: 05/10/2022

pH 7.58 pH Units 7.57 0.132 25  
 Specific Conductance (EC) 0.418 0.0300 mmhos/cm 0.417 0.144 25

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

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

**Batch L615168 - 3550B**

| <b>MSD (L 85975-MSD-L615168)</b> | <b>Source: 85975</b> |          | <b>Prepared: 05/10/2022 Analyzed: 05/11/2022</b> |       |           |      |        |      |    |  |
|----------------------------------|----------------------|----------|--|-------|-----------|------|--------|------|----|--|
| Fluorene                         | 0.127                | 0.000286 | mg/Kg  | 0.165 | <0.000286 | 76.9 | 30-130 | 1.5  | 30 |  |
| Indeno(1,2,3-cd)pyrene           | 0.144                | 0.000627 | "  | 0.165 | <0.000627 | 87.2 | 30-130 | 11.1 | 30 |  |
| Naphthalene                      | 0.103                | 0.000484 | "  | 0.165 | <0.000484 | 62.4 | 30-130 | 1.9  | 30 |  |
| Pyrene                           | 0.155                | 0.000643 | "  | 0.165 | <0.000643 | 93.9 | 30-130 | 0    | 30 |  |
| Dibenz(a,h)anthracene            | 0.136                | 0.000614 | "  | 0.165 | <0.000614 | 82.4 | 30-130 | 13.6 | 30 |  |
| Chrysene                         | 0.123                | 0.000624 | "  | 0.165 | <0.000624 | 74.5 | 30-130 | 0    | 30 |  |
| Fluoranthene                     | 0.158                | 0.000394 | "  | 0.165 | <0.000394 | 95.7 | 30-130 | 0.6  | 30 |  |
| Benzo(b)fluoranthene             | 0.12                 | 0.000585 | "  | 0.165 | <0.000585 | 72.7 | 30-130 | 0.8  | 30 |  |
| Benzo(a)pyrene                   | 0.133                | 0.000468 | "  | 0.165 | <0.000468 | 80.6 | 30-130 | 0.7  | 30 |  |
| Benzo(a)anthracene               | 0.136                | 0.000493 | "  | 0.165 | <0.000493 | 82.4 | 30-130 | 0.7  | 30 |  |
| Acenaphthene                     | 0.134                | 0.000304 | "  | 0.165 | <0.000304 | 81.2 | 30-130 | 2.9  | 30 |  |
| 2-Methylnaphthalene              | 0.106                | 0.000645 | "  | 0.165 | <0.000645 | 64.2 | 30-130 | 1.8  | 30 |  |
| 1-Methylnaphthalene              | 0.105                | 0.000364 | "  | 0.165 | <0.000364 | 63.6 | 30-130 | 2.8  | 30 |  |
| Benzo(k)fluoranthene             | 0.102                | 0.000437 | "  | 0.165 | <0.000437 | 61.8 | 30-130 | 3.8  | 30 |  |
| Anthracene                       | 0.148                | 0.000334 | "  | 0.165 | <0.000334 | 89.6 | 30-130 | 1.3  | 30 |  |
| Surrogate: Nitrobenzene-d5       | 55.1                 |          | "  | 0.33  | 187       | 55.1 | 29-110 |      |    |  |
| Surrogate: 4-Terphenyl-d14       | 53.9                 |          | "  | 0.33  | 168       | 53.9 | 33-122 |      |    |  |
| Surrogate: 2-Fluorobiphenyl      | 60.9                 |          | "  | 0.33  | 192       | 60.9 | 33-115 |      |    |  |

| <b>MS (L 85975-MS-L615168)</b> | <b>Source: 85975</b> |          | <b>Prepared: 05/10/2022 Analyzed: 05/11/2022</b> |       |           |      |        |  |  |  |
|--------------------------------|----------------------|----------|--|-------|-----------|------|--------|--|--|--|
| 2-Methylnaphthalene            | 0.108                | 0.000645 | mg/Kg  | 0.167 | <0.000645 | 64.6 | 30-130 |  |  |  |
| Fluorene                       | 0.129                | 0.000286 | "  | 0.167 | <0.000286 | 77.2 | 30-130 |  |  |  |
| 1-Methylnaphthalene            | 0.108                | 0.000364 | "  | 0.167 | <0.000364 | 64.6 | 30-130 |  |  |  |
| Pyrene                         | 0.155                | 0.000643 | "  | 0.167 | <0.000643 | 92.8 | 30-130 |  |  |  |
| Indeno(1,2,3-cd)pyrene         | 0.161                | 0.000627 | "  | 0.167 | <0.000627 | 96.4 | 30-130 |  |  |  |
| Fluoranthene                   | 0.159                | 0.000394 | "  | 0.167 | <0.000394 | 95.2 | 30-130 |  |  |  |
| Dibenz(a,h)anthracene          | 0.156                | 0.000614 | "  | 0.167 | <0.000614 | 93.4 | 30-130 |  |  |  |

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

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

**Batch L615168 - 3550B**

| MS (L 85975-MS-L615168)     | Source: 85975 |          | Prepared: 05/10/2022 Analyzed: 05/11/2022 |       |           |      |        |  |  |  |
|-----------------------------|---------------|----------|---|-------|-----------|------|--------|--|--|--|
| Acenaphthene                | 0.138         | 0.000304 | mg/Kg                                     | 0.167 | <0.000304 | 82.6 | 30-130 |  |  |  |
| Benzo(k)fluoranthene        | 0.106         | 0.000437 | "   | 0.167 | <0.000437 | 63.4 | 30-130 |  |  |  |
| Benzo(b)fluoranthene        | 0.119         | 0.000585 | "   | 0.167 | <0.000585 | 71.2 | 30-130 |  |  |  |
| Benzo(a)pyrene              | 0.132         | 0.000468 | "   | 0.167 | <0.000468 | 79   | 30-130 |  |  |  |
| Benzo(a)anthracene          | 0.135         | 0.000493 | "   | 0.167 | <0.000493 | 80.8 | 30-130 |  |  |  |
| Anthracene                  | 0.15          | 0.000334 | "   | 0.167 | <0.000334 | 89.8 | 30-130 |  |  |  |
| Chrysene                    | 0.123         | 0.000624 | "   | 0.167 | <0.000624 | 73.6 | 30-130 |  |  |  |
| Naphthalene                 | 0.105         | 0.000484 | "   | 0.167 | <0.000484 | 62.8 | 30-130 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 56.4          |          | "   | 0.333 | 187       | 56.4 | 29-110 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 62.7          |          | "   | 0.333 | 192       | 62.7 | 33-115 |  |  |  |
| Surrogate: 4-Terphenyl-d14  | 54.3          |          | "   | 0.333 | 168       | 54.3 | 33-122 |  |  |  |

| LCS (LCS-L615168)      | Prepared: 05/10/2022 Analyzed: 05/11/2022 |          |       |       |  |      |        |  |  |  |
|------------------------|---|----------|-------|-------|--|------|--------|--|--|--|
| Chrysene               | 0.109                                     | 0.000624 | mg/Kg | 0.167 |  | 65.2 | 30-130 |  |  |  |
| Fluoranthene           | 0.135                                     | 0.000394 | "     | 0.167 |  | 80.8 | 30-130 |  |  |  |
| Fluorene               | 0.11                                      | 0.000286 | "     | 0.167 |  | 65.8 | 30-130 |  |  |  |
| Indeno(1,2,3-cd)pyrene | 0.136                                     | 0.000627 | "     | 0.167 |  | 81.4 | 30-130 |  |  |  |
| Naphthalene            | 0.0915                                    | 0.000484 | "     | 0.167 |  | 54.7 | 30-130 |  |  |  |
| Pyrene                 | 0.133                                     | 0.000643 | "     | 0.167 |  | 79.6 | 30-130 |  |  |  |
| Benzo(k)fluoranthene   | 0.0858                                    | 0.000437 | "     | 0.167 |  | 51.3 | 30-130 |  |  |  |
| 1-Methylnaphthalene    | 0.0945                                    | 0.000364 | "     | 0.167 |  | 56.5 | 30-130 |  |  |  |
| Benzo(a)pyrene         | 0.118                                     | 0.000468 | "     | 0.167 |  | 70.6 | 30-130 |  |  |  |
| Benzo(a)anthracene     | 0.118                                     | 0.000493 | "     | 0.167 |  | 70.6 | 30-130 |  |  |  |
| Anthracene             | 0.126                                     | 0.000334 | "     | 0.167 |  | 75.4 | 30-130 |  |  |  |
| Acenaphthene           | 0.119                                     | 0.000304 | "     | 0.167 |  | 71.2 | 30-130 |  |  |  |
| 2-Methylnaphthalene    | 0.0946                                    | 0.000645 | "     | 0.167 |  | 56.6 | 30-130 |  |  |  |
| Dibenz(a,h)anthracene  | 0.128                                     | 0.000614 | "     | 0.167 |  | 76.6 | 30-130 |  |  |  |

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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

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

**Batch L615168 - 3550B**

**LCS (LCS-L615168)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

|                             |       |          |       |       |  |      |        |  |  |  |
|-----------------------------|-------|----------|-------|-------|--|------|--------|--|--|--|
| Benzo(b)fluoranthene        | 0.108 | 0.000585 | mg/Kg | 0.167 |  | 64.6 | 30-130 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 61.5  |          | "     | 0.333 |  | 61.5 | 29-110 |  |  |  |
| Surrogate: 4-Terphenyl-d14  | 54.9  |          | "     | 0.333 |  | 54.9 | 33-122 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 69.9  |          | "     | 0.333 |  | 69.9 | 33-115 |  |  |  |

**LRB (LRB-L615168)**

Prepared: 05/10/2022 Analyzed: 05/11/2022

|                             |      |         |       |       |  |      |        |  |  |  |
|-----------------------------|------|---------|-------|-------|--|------|--------|--|--|--|
| Dibenz(a,h)anthracene       | ND   | 0.00067 | mg/Kg |       |  |      | -      |  |  |  |
| Fluoranthene                | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Fluorene                    | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Indeno(1,2,3-cd)pyrene      | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Naphthalene                 | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Chrysene                    | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Pyrene                      | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Acenaphthene                | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(k)fluoranthene        | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(b)fluoranthene        | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(a)pyrene              | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Anthracene                  | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| 2-Methylnaphthalene         | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| 1-Methylnaphthalene         | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Benzo(a)anthracene          | ND   | 0.00067 | "     |       |  |      | -      |  |  |  |
| Surrogate: Nitrobenzene-d5  | 61.5 |         | "     | 0.333 |  | 61.5 | 29-110 |  |  |  |
| Surrogate: 4-Terphenyl-d14  | 54.6 |         | "     | 0.333 |  | 54.6 | 33-122 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 68.7 |         | "     | 0.333 |  | 68.7 | 33-115 |  |  |  |

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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Johnson G #13-27D

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**Notes and Definitions**

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.*



May 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Johnson G #13-27D

Project Number - [none]

Attached are your analytical results for Noble - Johnson G #13-27D received by Origins Laboratory, Inc. May 18, 2022. This project is associated with Origins project number Y205494-01.

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

Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Johnson G #13-27D

CROSS REFERENCE REPORT

| Sample ID        | Laboratory ID | Matrix | Date Sampled     | Date Received    |
|------------------|---------------|--------|------------------|------------------|
| Background-02@1' | Y205494-01    | Soil   | May 5, 2022 8:05 | 05/18/2022 15:55 |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

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

**Sample Receipt Checklist**

Origins Work Order: Y205494 Client: Eagle  
 Client Project ID: Johnson G 13-27D

Checklist Completed by: JG Shipped Via: HD  
 Date/time completed: 5/19/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1, 1.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

| 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"/> |                                     |                                     |                   |
| Is there ice present (document if blue ice is used)   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)   |                                     | <input checked="" 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 checked="" type="checkbox"/> |                                     |                   |
| Were all samples received intact <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?  |                                     | <input checked="" type="checkbox"/> |                                     |                   |
| Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?  | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?   | <input checked="" type="checkbox"/> |                                     |                                     |                   |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.  |                                     |                                     | <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 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.

Kim H  
 Reviewed by (Project Manager)

5/19/22  
 Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**Background-02@1'**  
**5/5/2022 8:05:00AM**

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

**Origins Laboratory, Inc.**  
**Y205494-01 (Soil)**

**pH in Soil by 9045D**

|    |      |  |          |   |         |     |            |            |  |
|----|------|--|----------|---|---------|-----|------------|------------|--|
| pH | 7.86 |  | pH Units | 1 | B2E1912 | ACC | 05/19/2022 | 05/20/2022 |  |
|----|------|--|----------|---|---------|-----|------------|------------|--|

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Johnson G #13-27D

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

| Analyte                         | Result | Reporting Limit | Units    | Spike Level | Source Result   | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------|--------|-----------------|----------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch B2E1912 - NO PREP</b>  |        |                 |          |             |   |      |             |       |           |       |
| <b>Blank (B2E1912-BLK1)</b>     |        |                 |          |             | Prepared: 05/19/2022 Analyzed: 05/20/2022                           |      |             |       |           |       |
| pH                              | 0.00   |                 | pH Units |             |   |      |             |       |           |       |
| <b>Duplicate (B2E1912-DUP1)</b> |        |                 |          |             | <b>Source: Y205416-01</b> Prepared: 05/19/2022 Analyzed: 05/20/2022 |      |             |       |           |       |
| pH                              | 8.35   |                 | pH Units |             | 8.32  |      |             | 0.360 | 25        |       |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Johnson G #13-27D

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**Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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