



FIGURES

Figure 1: Monitoring Well Groundwater Analytical Map (12/12/17)

Figure 2: Groundwater Elevation Map (12/12/17)

Figure 3: Grab Surface Water Sample Location Map



- LEGEND**
- APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE
 - APPROXIMATE FLOW LINE LOCATION
 - APPROXIMATE EXCAVATION BOUNDARIES
 - APPROXIMATE MONITORING WELL LOCATIONS
 - DESTROYED MONITORING WELL LOCATIONS

PARAMETERS

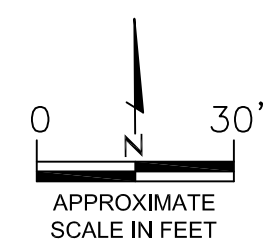
SAMPLE LOCATION
DATE
B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

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

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 910-1 REGULATORY LIMITS

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION



MONITORING WELL GROUNDWATER ANALYTICAL MAP
(12/12/17)
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

DATE
01/11/18

FIG. NO.
1

DRAWN BY
AMN





LEGEND

APPROXIMATE LOCATION OF UNINTENTIONAL RELEASE

APPROXIMATE FLOW LINE LOCATION

APPROXIMATE EXCAVATION BOUNDARIES

APPROXIMATE MONITORING WELL LOCATIONS

DESTROYED MONITORING WELL LOCATIONS

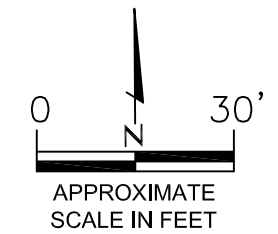
(4748.25) GROUNDWATER ELEVATION (FT.)

INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)

APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:
GROUNDWATER ELEVATION DATA WAS COLLECTED ON 12/12/17.
GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING
WELLS MW-07 AND MW-14 WAS NOT USED IN THE CONSTRUCTION
OF INFERRED GROUNDWATER ELEVATION CONTOURS.



GROUNDWATER ELEVATION MAP
(12/12/17)
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

| | |
|----------|----------|
| DATE | 01/11/18 |
| FIG. NO. | 2 |

DRAWN BY
AMN



EAGLE
ENVIRONMENTAL
CONSULTING, INC.
4101 INCA STREET, DENVER, CO 80211
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TABLES

Table 1: Water Analytical Results Summary

Table 2: Groundwater Elevation Summary

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

| Sample Location (Latitude/Longitude) | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|---|----------|-------------------|-------------------|------------------------|----------------------------|
| COGCC Table 910-1 Regulatory Limits (µg/L) | | 5 | 560 | 700 | 1400 |
| SW-01 (40.452432487/-104.550326268) | 02/09/17 | <1.00 | 2.54 | <1.00 | 2.58 |
| | 02/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| SW-02 (40.451283697/-104.550667387) | 02/09/17 | 100 | 514 | 54.9 | 659 |
| | 02/13/17 | 11.3 | 83.8 | 9.64 | 240 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | 3.18 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| SW-03 (40.451208284/-104.550759293) | 02/09/17 | 90.7 | 459 | 48.8 | 605 |
| | 02/10/17 | 6.24 | 40.2 | 4.92 | 109 |
| | 02/13/17 | 8.52 | 42.8 | 4.36 | 152 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | 2.45 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| SW-04 (40.450779462/-104.551161230) | 02/10/17 | 4.92 | 28.4 | <4.00 | 90.9 |
| | 02/13/17 | 6.80 | 32.0 | <4.00 | 147 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | 1.49 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| SW-05 (40.449982352/-104.551611892) | 02/10/17 | <4.00 | 8.20 | <4.00 | 73.8 |
| | 02/13/17 | <1.00 | 1.06 | <1.00 | 22.8 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

| Sample Location (Latitude/Longitude) | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|---|----------|-------------------|-------------------|------------------------|----------------------------|
| COGCC Table 910-1 Regulatory Limits (µg/L) | | 5 | 560 | 700 | 1400 |
| SW-06 (40.449897202/-104.551692223) | 02/10/17 | <4.00 | <4.00 | <4.00 | 16.5 |
| | 02/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| SW-07 (40.449690628/-104.551677355) | 02/10/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 02/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| SW-08 (40.448928873/-104.551685603) | 02/10/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 02/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| SW-09 (40.448299817/-104.551680172) | 02/10/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 02/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 02/20/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 03/17/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| GW-01 (40.452332127/-104.550450217) | 02/11/17 | 434 | 1560 | 138 | 1530 |
| | | | | | |

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

| Sample Location (Latitude/Longitude) | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|---|----------|-------------------|-------------------|------------------------|----------------------------|
| COGCC Table 910-1 Regulatory Limits (µg/L) | | 5 | 560 | 700 | 1400 |
| MW-01 (40.452393003/-104.550433142) | 03/27/17 | 188 | <4.00 | 12.6 | 327 |
| | 06/15/17 | 614 | <1.00 | <1.00 | 2.26 |
| | 09/14/17 | DES | | | |
| | | | | | |
| MW-02 (40.452504816/-104.550455313) | 03/30/17 | <1.00 | <1.00 | 6.58 | 43.4 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-03 (40.452454447/-104.550546129) | 03/30/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-04 (40.452342502/-104.550577837) | 03/27/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-05 (40.452208431/-104.550603406) | 03/27/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-06 (40.452070696/-104.550630887) | 03/27/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-07 (40.452002981/-104.55055025) | 03/27/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/15/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-08 (40.451924937/-104.550467803) | 03/27/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

| Sample Location (Latitude/Longitude) | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|---|----------|-------------------|-------------------|------------------------|----------------------------|
| COGCC Table 910-1 Regulatory Limits (µg/L) | | 5 | 560 | 700 | 1400 |
| MW-09 (40.452077465/-104.550441169) | 03/27/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | 3.15 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | 1.47 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-10 (40.452207178/-104.55040854) | 03/28/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-11 (40.452321549/-104.550383609) | 03/30/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-12 (40.45239442/-104.550368154) | 03/30/17 | 210 | 480 | 19.8 | 424 |
| | 06/13/17 | 2120 | 5560 | 251 | 3510 |
| | 09/14/17 | 1310 | <1.00 | 52.3 | 344 |
| | 12/12/17 | 220 | <1.00 | 31.6 | 24.7 |
| | | | | | |
| MW-13 (40.452664489/-104.550339323) | 03/30/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-14 (40.452664489/-104.550339323) | 03/28/17 | <4.00 | <4.00 | <4.00 | <4.00 |
| | 06/15/17 | 96.0 | <1.00 | <1.00 | 23.6 |
| | 09/14/17 | 73.6 | <1.00 | <1.00 | <1.00 |
| | 12/12/17 | 16.3 | <1.00 | <1.00 | <1.00 |
| | | | | | |
| MW-15 (40.452232004/-104.550269649) | 03/30/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/15/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | DES | | | |
| | | | | | |
| MW-16 (40.452334255/-104.550243785) | 03/30/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/15/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | DES | | | |
| | | | | | |

TABLE 1
WATER ANALYTICAL RESULTS SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 10185

| Sample Location (Latitude/Longitude) | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|---|----------|-------------------|-------------------|------------------------|-------------------------|
| COGCC Table 910-1 Regulatory Limits (µg/L) | | 5 | 560 | 700 | 1400 |
| MW-17 (40.452418346/-104.55022411) | 03/30/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 06/13/17 | <1.00 | <1.00 | <1.00 | <1.00 |
| | 09/14/17 | DES | | | |
| | | | | | |
| COGCC = Colorado Oil and Gas Conservation Commission NS = Not Sampled DES - Destroyed µg/L - micrograms per liter Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in bold typeface exceed their respective COGCC - Regulatory Limits (Table 910-1). | | | | | |



TABLE 2
GROUNDWATER ELEVATION SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

| Sample Location (Latitude/Longitude) | Date | TOC Elevation (feet) | Depth to Groundwater from TOC (feet) | Relative Groundwater Elevation (feet) | Depth to Groundwater (bgs) (feet) | Stickup Height (feet) |
|---|----------|-------------------------|---|--|---|-----------------------------|
| MW-01 (40.452393003/-104.550433142) | 03/28/17 | 98.78 | 7.74 | 91.04 | 4.88 | 2.86 |
| | 06/15/17 | | 7.20 | 91.58 | 4.34 | |
| | 09/14/17 | DES | | | | |
| | | | | | | |
| MW-02 (40.452504816/-104.550455313) | 03/28/17 | 99.22 | NM | NA | NA | 2.92 |
| | 03/30/17 | | 9.83 | 89.39 | 6.91 | |
| | 06/13/17 | | 5.54 | 93.68 | 2.62 | |
| | 09/14/17 | | 5.41 | 93.81 | 2.49 | |
| | 12/12/17 | | 6.04 | 93.18 | 3.12 | |
| | | | | | | |
| MW-03 (40.452454447/-104.550546129) | 03/28/17 | 99.62 | NM | NA | NA | 3.10 |
| | 03/30/17 | | 12.97 | 86.65 | 9.87 | |
| | 06/13/17 | | 6.00 | 93.62 | 2.90 | |
| | 09/14/17 | | 5.89 | 93.73 | 2.79 | |
| | 12/12/17 | | 6.53 | 93.09 | 3.43 | |
| | | | | | | |
| MW-04 (40.452342502/-104.550577837) | 03/28/17 | 99.20 | 6.78 | 92.42 | 3.80 | 2.98 |
| | 06/13/17 | | 6.00 | 93.20 | 3.02 | |
| | 09/14/17 | | 5.86 | 93.34 | 2.88 | |
| | 12/12/17 | | 6.50 | 92.70 | 3.52 | |
| | | | | | | |
| MW-05 (40.452208431/-104.550603406) | 03/28/17 | 98.64 | 6.63 | 92.01 | 3.63 | 3.00 |
| | 06/13/17 | | 6.05 | 92.59 | 3.05 | |
| | 09/14/17 | | 5.93 | 92.71 | 2.93 | |
| | 12/12/17 | | 6.49 | 92.15 | 3.49 | |
| | | | | | | |
| MW-06 (40.452070696/-104.550630887) | 03/28/17 | 98.38 | 6.44 | 91.94 | 3.49 | 2.95 |
| | 06/13/17 | | 6.04 | 92.34 | 3.09 | |
| | 09/14/17 | | 5.93 | 92.45 | 2.98 | |
| | 12/12/17 | | 6.42 | 91.96 | 3.47 | |
| | | | | | | |
| MW-07 (40.452002981/-104.55055025) | 03/28/17 | 98.37 | 6.57 | 91.80 | 3.65 | 2.92 |
| | 06/15/17 | | 6.66 | 91.71 | 3.74 | |
| | 09/14/17 | | 6.56 | 91.81 | 3.64 | |
| | 12/12/17 | | 6.91 | 91.46 | 3.99 | |
| | | | | | | |
| MW-08 (40.451924937/-104.550467803) | 03/28/17 | 98.32 | 6.60 | 91.72 | 3.89 | 2.71 |
| | 06/13/17 | | 6.53 | 91.79 | 3.82 | |
| | 09/14/17 | | 6.41 | 91.91 | 3.70 | |
| | 12/12/17 | | 6.67 | 91.65 | 3.96 | |
| | | | | | | |
| MW-09 (40.452077465/-104.550441169) | 03/28/17 | 98.78 | 7.14 | 91.64 | 4.48 | 2.66 |
| | 06/13/17 | | 6.85 | 91.93 | 4.19 | |
| | 09/14/17 | | 6.76 | 92.02 | 4.10 | |
| | 12/12/17 | | 7.03 | 91.75 | 4.37 | |
| | | | | | | |
| MW-10 (40.452207178/-104.55040854) | 03/28/17 | 98.91 | NM | NA | NA | 2.83 |
| | 06/13/17 | | 6.60 | 92.31 | 3.77 | |
| | 09/14/17 | | 6.48 | 92.43 | 3.65 | |
| | 12/12/17 | | 6.92 | 91.99 | 4.09 | |
| | | | | | | |

TABLE 2
GROUNDWATER ELEVATION SUMMARY
WARDLAW #20-28
FLOW LINE RELEASE
40.452377 / -104.550395
SE1/4 SE1/4 SEC.28 T6N R64W 6PM
WELD COUNTY, COLORADO
REMEDATION # 10185

| Sample Location (Latitude/Longitude) | Date | TOC Elevation (feet) | Depth to Groundwater from TOC (feet) | Relative Groundwater Elevation (feet) | Depth to Groundwater (bgs) (feet) | Stickup Height (feet) |
|---|----------|-------------------------|---|--|---|-----------------------------|
| MW-11 (40.452321549/-104.550383609) | 03/28/17 | 99.27 | NM | NA | NA | 2.74 |
| | 06/13/17 | | 6.64 | 92.63 | 3.90 | |
| | 09/14/17 | | 6.38 | 92.89 | 3.64 | |
| | 12/12/17 | | 7.11 | 92.16 | 4.37 | |
| | | | | | | |
| MW-12 (40.45239442/-104.550368154) | 03/28/17 | 99.34 | NM | NA | NA | 2.71 |
| | 03/30/17 | | 13.64 | 85.70 | 10.93 | |
| | 06/13/17 | | 6.48 | 92.86 | 3.77 | |
| | 09/14/17 | | 6.26 | 93.08 | 3.55 | |
| | 12/12/17 | | 6.97 | 92.37 | 4.26 | |
| | | | | | | |
| MW-13 (40.452664489/-104.550339323) | 03/28/17 | 100.00 | NM | NA | NA | 2.64 |
| | 06/13/17 | | 6.55 | 93.45 | 3.91 | |
| | 09/14/17 | | 6.31 | 93.69 | 3.67 | |
| | 12/12/17 | | 6.89 | 93.11 | 4.25 | |
| | | | | | | |
| MW-14 (40.452664489/-104.550339323) | 03/28/17 | 98.41 | 7.32 | 91.09 | 4.60 | 2.72 |
| | 06/15/17 | | 6.60 | 91.81 | 3.88 | |
| | 09/14/17 | | 6.48 | 91.93 | 3.76 | |
| | 12/12/17 | | 7.08 | 91.33 | 4.36 | |
| | | | | | | |
| MW-15 (40.452232004/-104.550269649) | 03/28/17 | 99.54 | NM | NA | NA | 2.82 |
| | 06/15/17 | | 7.33 | 92.21 | 4.51 | |
| | 09/14/17 | DES | | | | |
| | | | | | | |
| MW-16 (40.452334255/-104.550243785) | 03/28/17 | 99.73 | NM | NA | NA | 2.86 |
| | 06/15/17 | | 7.11 | 92.62 | 4.25 | |
| | 09/14/17 | DES | | | | |
| | | | | | | |
| MW-17 (40.452418346/-104.55022411) | 03/28/17 | 99.72 | NM | NA | NA | 2.75 |
| | 06/15/17 | | 8.42 | 91.30 | 5.67 | |
| | 09/14/17 | DES | | | | |
| | | | | | | |
| NOTES: All wells completed as PVC stick ups. TOC = top of casing PVC = polyvinyl chloride NM = not measured bgs= below ground surface NA = not applicable DES = Destroyed | | | | | | |



ATTACHMENT A

Laboratory Analytical Report



December 19, 2017

Eagle Environmental Consulting, Inc.

Robin Lockwood

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Wardlaw #20-28

Project Number - [none]

Attached are your analytical results for Noble - Wardlaw #20-28 received by Origins Laboratory, Inc. December 12, 2017. This project is associated with Origins project number Y712213-01.

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.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-------------------------|------------------|
| MW-02 | Y712213-01 | Water | December 12, 2017 10:15 | 12/12/2017 16:31 |
| MW-03 | Y712213-02 | Water | December 12, 2017 10:28 | 12/12/2017 16:31 |
| MW-04 | Y712213-03 | Water | December 12, 2017 10:40 | 12/12/2017 16:31 |
| MW-05 | Y712213-04 | Water | December 12, 2017 10:57 | 12/12/2017 16:31 |
| MW-06 | Y712213-05 | Water | December 12, 2017 11:10 | 12/12/2017 16:31 |
| MW-07 | Y712213-06 | Water | December 12, 2017 11:26 | 12/12/2017 16:31 |
| MW-08 | Y712213-07 | Water | December 12, 2017 11:39 | 12/12/2017 16:31 |
| MW-09 | Y712213-08 | Water | December 12, 2017 11:41 | 12/12/2017 16:31 |
| MW-10 | Y712213-09 | Water | December 12, 2017 11:52 | 12/12/2017 16:31 |
| MW-11 | Y712213-10 | Water | December 12, 2017 12:03 | 12/12/2017 16:31 |
| MW-12 | Y712213-11 | Water | December 12, 2017 12:15 | 12/12/2017 16:31 |
| MW-13 | Y712213-12 | Water | December 12, 2017 12:27 | 12/12/2017 16:31 |
| MW-14 | Y712213-13 | Water | December 12, 2017 12:39 | 12/12/2017 16:31 |
| SW-01 | Y712213-14 | Water | December 12, 2017 12:42 | 12/12/2017 16:31 |

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.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-------------------------|------------------|
| SW-02 | Y712213-15 | Water | December 12, 2017 12:45 | 12/12/2017 16:31 |
| SW-03 | Y712213-16 | Water | December 12, 2017 12:48 | 12/12/2017 16:31 |
| SW-04 | Y712213-17 | Water | December 12, 2017 12:50 | 12/12/2017 16:31 |
| SW-05 | Y712213-18 | Water | December 12, 2017 12:52 | 12/12/2017 16:31 |
| SW-06 | Y712213-19 | Water | December 12, 2017 12:54 | 12/12/2017 16:31 |
| SW-07 | Y712213-20 | Water | December 12, 2017 12:57 | 12/12/2017 16:31 |
| SW-08 | Y712213-21 | Water | December 12, 2017 13:00 | 12/12/2017 16:31 |
| SW-09 | Y712213-22 | Water | December 12, 2017 13:05 | 12/12/2017 16:31 |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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712213

page 1 of 3

Client: Eagle Env. Consulting
Address: 4101 Inca St.
Telephone Number: 303 433 0479
Email Address: mrc3@eagle-env.com

Project Manager: Martin Eckert
Project Name: Wardlaw #20-28
Project Number:
Samples Collected By: K. Forsmark

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | | Analysis | Sample Instructions | |
|-----------------------|--------------|--------------|-----------------|--------------|-------|--|-------|-------------|------|-----------|-------|----------|---------------------|--|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa | Other | | | |
| MW-02 | 12/12/17 | 1015 | 3 | X | X | X | | X | X | X | | | | |
| MW-03 | | 1028 | 3 | X | X | X | | X | X | X | | | | |
| MW-04 | | 1040 | 3 | X | X | X | | X | X | X | | | | |
| MW-05 | | 1057 | 3 | X | X | X | | X | X | X | | | | |
| MW-06 | | 1110 | 3 | X | X | X | | X | X | X | | | | |
| MW-07 | | 1126 | 3 | X | X | X | | X | X | X | | | | |
| MW-08 | | 1139 | 3 | X | X | X | | X | X | X | | | | |
| MW-09 | | 1141 | 3 | X | X | X | | X | X | X | | | | |
| MW-10 | | 1152 | 3 | X | X | X | | X | X | X | | | | |
| MW-11 | | 1203 | 3 | X | X | X | | X | X | X | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | Turnaround Time: | | | | | | | | |
| | 12/12/17 | 1031 | | 12-12-17 | 1031 | Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> | | | | | | | | |
| Relinquished By: | Date: | Time: | Received By: | Date: | Time: | 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> | | | | | | | | |
| | | | | | | Standard <input checked="" type="checkbox"/> | | | | | | | | |

Date Results Needed

Temp Received: 21

For Jacob - Noble

Origins Laboratory, Inc.

Jefe Pellegrini

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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www.originslaboratory.com

712203

page 2 of 3

Client: Eagle Env. Consulting
Address: 4101 Inca St
Telephone Number: 352 262 9910
Email Address: mcl3@eagle-env.com

Project Manager: Martha Eckert
Project Name: Wardlaw #20-28
Project Number:
Samples Collected By: K. Farnmark

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions | |
|------------------------------|----------------|--------------|-----------------|--------------------------|-----|------------------|-------|----------------|------|----------------------|------------|---|-------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Alr Summa Continer # | | | Other |
| MW-12 | 12/12/17 | 1215 | 3 | X | | | | X | | | | | 1 |
| MW-13 | 12/12/17 | 1227 | 3 | X | | | | X | | | | | 2 |
| MW-14 | 12/12/17 | 1239 | 3 | X | | | | X | | | | | 3 |
| SW-01 | 12/12/17 | 1242 | 3 | X | | | | X | | | | | 4 |
| SW-02 | 12/12/17 | 1245 | 3 | X | | | | X | | | | | 5 |
| SW-03 | 12/12/17 | 1248 | 3 | X | | | | X | | | | | 6 |
| SW-04 | 12/12/17 | 1250 | 3 | X | | | | X | | | | | 7 |
| SW-05 | 12/12/17 | 1252 | 3 | X | | | | X | | | | | 8 |
| SW-06 | 12/12/17 | 1254 | 3 | X | | | | X | | | | | 9 |
| SW-07 | 12/12/17 | 1257 | 3 | X | | | | X | | | | | 10 |
| Relinquished By: [Signature] | Date: 12/12/17 | Time: 1631 | | Received By: [Signature] | | | | Date: 12-17-17 | | | Time: 1631 | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> | |
| Relinquished By: | Date: | Time: | | Received By: | | | | Date: | | | Time: | | |

Temp Received: 2.1 Date Results Needed

For Jacob Noble

Origins Laboratory, Inc.

Jefe Pellegrini

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.

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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page 3 of 3

712213

Client: Eagle Env. Consulting
 Address: 4101 Inca St.
 Denver, CO 80211
 Telephone Number: 303.433.0479
 Email Address: mcs@eagle-enviro.com

Project Manager: Martin Eckert
 Project Name: Warehouse #20.28
 Project Number:
 Samples Collected By: K. Farnall

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | | | Sample Instructions |
|-----------------------|----------------|--------------|-----------------|--------------|-----|------------------|-------|----------------|-----------|---|----------|--|--|---------------------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summary | Other | | | |
| SW-08 | 12/12/17 | 1300 | 3 | X | X | X | X | X | X | | | | | 1 |
| SW-09 | 12/12/17 | 1305 | 3 | X | X | X | X | X | X | | | | | 2 |
| | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | | 10 |
| Relinquished By: | Date: 12/12/17 | Time: 11031 | | Received By: | | | | Date: 12-12-17 | Time: 131 | Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard | | | | |
| Relinquished By: | Date: | Time: | | Received By: | | | | Date: | Time: | | | | | |

For Jacob Noble

Temp Received: 2.1

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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.

4101 Inca Street

Denver

CO

80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y712213

Client: Eagle

Client Project ID: Noble - Wardlaw #20-28

Checklist Completed by: JH

Shipped Via: HD

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

Date/time completed: 12/13/17

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2.1 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: 1003

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|--------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | <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 ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Additional Comments (if any): | | | | |

⁽¹⁾ 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: [Signature] (Project Manager)

Date/Time Reviewed: 12/14/17

Origins Laboratory, Inc.

Jefe Pellegrini

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

MW-02

12/12/2017 10:15:00AM

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

Origins Laboratory, Inc.

Y712213-01 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 103 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 99.8 % | 84-114 | " | " | " |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-03

12/12/2017 10:28:00AM

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

Origins Laboratory, Inc. Y712213-02 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 104 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.8 % | 84-114 | | | " | " | " | |

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.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

MW-04

12/12/2017 10:40:00AM

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

Origins Laboratory, Inc.

Y712213-03 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 103 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.1 % | 84-114 | " | " | " |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-05

12/12/2017 10:57:00AM

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

Origins Laboratory, Inc. Y712213-04 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|------------|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 84-121 | | | " | " | 12/16/2017 | |
| Surrogate: Toluene-d8 | 102 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.3 % | 84-114 | | | " | " | " | |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-06

12/12/2017 11:10:00AM

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

Origins Laboratory, Inc. Y712213-05 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 104 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 97.2 % | 84-114 | | | " | " | " | |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-07

12/12/2017 11:26:00AM

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

Origins Laboratory, Inc. Y712213-06 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 97.4 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-08

12/12/2017 11:39:00AM

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

Origins Laboratory, Inc. Y712213-07 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 97.6 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-09

12/12/2017 11:41:00AM

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

Origins Laboratory, Inc. Y712213-08 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------------------------|--------|--------|------|---|---------|------------|------------|---|
| Benzene | 1.47 | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.4 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-10

12/12/2017 11:52:00AM

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

Origins Laboratory, Inc. Y712213-09 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 103 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.1 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-11

12/12/2017 12:03:00PM

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

Origins Laboratory, Inc. Y712213-10 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|-------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 104 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 101 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-12

12/12/2017 12:15:00PM

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

Origins Laboratory, Inc. Y712213-11 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------------------------|-------|--------|------|----|---------|------------|------------|---|
| Benzene | 220 | 10.0 | ug/L | 10 | B7L1510 | 12/15/2017 | 12/19/2017 | |
| Toluene | ND | 1.00 | " | 1 | " | " | 12/16/2017 | U |
| Ethylbenzene | 31.6 | 1.00 | " | " | " | " | " | |
| Xylenes, total | 24.7 | 1.00 | " | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 101 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

MW-13

12/12/2017 12:27:00PM

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

Origins Laboratory, Inc.

Y712213-12 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 102 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 94.0 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

MW-14

12/12/2017 12:39:00PM

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

Origins Laboratory, Inc. Y712213-13 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------------------------|-------|--------|------|---|---------|------------|------------|---|
| Benzene | 16.3 | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 103 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 100 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

SW-01

12/12/2017 12:42:00PM

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

Origins Laboratory, Inc.
Y712213-14 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.8 % | 84-114 | | | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

SW-02

12/12/2017 12:45:00PM

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

Origins Laboratory, Inc.

Y712213-15 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

Surrogate: 1,2-Dichloroethane-d4

102 % 84-121

"

"

"

Surrogate: Toluene-d8

104 % 85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

100 % 84-114

"

"

"

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.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

SW-03

12/12/2017 12:48:00PM

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

Origins Laboratory, Inc.

Y712213-16 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

Surrogate: 1,2-Dichloroethane-d4

102 % 84-121

"

"

"

Surrogate: Toluene-d8

104 % 85-115

"

"

"

Surrogate: 4-Bromofluorobenzene

100 % 84-114

"

"

"

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

SW-04

12/12/2017 12:50:00PM

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

Origins Laboratory, Inc.
Y712213-17 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 105 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.0 % | 84-114 | | | " | " | " | |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

SW-05

12/12/2017 12:52:00PM

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

Origins Laboratory, Inc.
Y712213-18 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 97.0 % | 84-114 | | | " | " | " | |

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.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

SW-06

12/12/2017 12:54:00PM

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

Origins Laboratory, Inc.

Y712213-19 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 105 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 95.2 % | 84-114 | " | " | " |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

SW-07

12/12/2017 12:57:00PM

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

Origins Laboratory, Inc.

Y712213-20 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 99.1 % | 84-121 | " | " | " |
| Surrogate: Toluene-d8 | 103 % | 85-115 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 99.9 % | 84-114 | " | " | " |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

SW-08

12/12/2017 1:00:00PM

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

Origins Laboratory, Inc.
Y712213-21 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 103 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 97.3 % | 84-114 | | | " | " | " | |

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.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

SW-09

12/12/2017 1:05:00PM

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

Origins Laboratory, Inc.
Y712213-22 (Water)

BTEX by EPA 8260C

| | | | | | | | | |
|----------------|----|------|------|---|---------|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B7L1510 | 12/15/2017 | 12/16/2017 | U |
| Toluene | ND | 1.00 | " | " | " | " | " | U |
| Ethylbenzene | ND | 1.00 | " | " | " | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | " | " | U |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 84-121 | | | " | " | " | |
| Surrogate: Toluene-d8 | 103 % | 85-115 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.9 % | 84-114 | | | " | " | " | |

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.

4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

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

Origins Laboratory, Inc.

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

Batch B7L1510 - EPA 5030B (Water)

Blank (B7L1510-BLK1)

Prepared: 12/15/2017 Analyzed: 12/15/2017

| | | | | | | | | | | |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | " | 62.5 | 101 | | 84-121 | | | |
| Surrogate: Toluene-d8 | 66 | | " | 62.5 | 105 | | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | 97.8 | | 84-114 | | | |

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

Origins Laboratory, Inc.

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

Batch B7L1510 - EPA 5030B (Water)

Blank (B7L1510-BLK2)

Prepared: 12/15/2017 Analyzed: 12/15/2017

| | | | | | | | | | | |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | " | 62.5 | 104 | | 84-121 | | | |
| Surrogate: Toluene-d8 | 65 | | " | 62.5 | 105 | | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | 98.1 | | 84-114 | | | |

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Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

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

Origins Laboratory, Inc.

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

Batch B7L1510 - EPA 5030B (Water)

Blank (B7L1510-BLK3)

Prepared: 12/15/2017 Analyzed: 12/15/2017

| | | | | | | | | | | |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | " | 62.5 | 100 | | 84-121 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | 103 | | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | 98.5 | | 84-114 | | | |

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Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

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

Batch B7L1510 - EPA 5030B (Water)

LCS (B7L1510-BS1)

Prepared: 12/15/2017 Analyzed: 12/15/2017

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|----------|--|--|--|
| Benzene | 47.3 | 1.00 | ug/L | 50.0 | | 94.6 | 73.3-129 | | | |
| Toluene | 45.0 | 1.00 | " | 50.0 | | 90.0 | 76.2-123 | | | |
| Ethylbenzene | 44.8 | 1.00 | " | 50.0 | | 89.6 | 73.6-130 | | | |
| m,p-Xylene | 88.6 | 2.00 | " | 100 | | 88.6 | 76.1-126 | | | |
| o-Xylene | 45.6 | 1.00 | " | 50.0 | | 91.2 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 59 | | " | 62.5 | | 93.7 | 84-121 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 103 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 98.8 | 84-114 | | | |

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Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

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

Origins Laboratory, Inc.

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

Batch B7L1510 - EPA 5030B (Water)

LCS (B7L1510-BS2)

Prepared: 12/15/2017 Analyzed: 12/15/2017

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|----------|--|--|--|
| Benzene | 46.8 | 1.00 | ug/L | 50.0 | | 93.6 | 73.3-129 | | | |
| Toluene | 46.4 | 1.00 | " | 50.0 | | 92.8 | 76.2-123 | | | |
| Ethylbenzene | 48.3 | 1.00 | " | 50.0 | | 96.6 | 73.6-130 | | | |
| m,p-Xylene | 94.6 | 2.00 | " | 100 | | 94.6 | 76.1-126 | | | |
| o-Xylene | 47.6 | 1.00 | " | 50.0 | | 95.2 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | " | 62.5 | | 105 | 84-121 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 103 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 84-114 | | | |

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Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

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

Batch B7L1510 - EPA 5030B (Water)

LCS (B7L1510-BS3)

Prepared: 12/15/2017 Analyzed: 12/15/2017

| | | | | | | | |
|----------------------------------|------|------|------|------|--|------|----------|
| Benzene | 44.5 | 1.00 | ug/L | 50.0 | | 89.0 | 73.3-129 |
| Toluene | 44.1 | 1.00 | " | 50.0 | | 88.2 | 76.2-123 |
| Ethylbenzene | 45.6 | 1.00 | " | 50.0 | | 91.3 | 73.6-130 |
| m,p-Xylene | 91.3 | 2.00 | " | 100 | | 91.3 | 76.1-126 |
| o-Xylene | 45.9 | 1.00 | " | 50.0 | | 91.8 | 76.6-124 |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | " | 62.5 | | 105 | 84-121 |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 85-115 |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 84-114 |

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Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

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

Origins Laboratory, Inc.

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

Batch B7L1510 - EPA 5030B (Water)

| Matrix Spike (B7L1510-MS1) | | Source: Y712212-03 | | | Prepared: 12/15/2017 Analyzed: 12/15/2017 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene | 47.6 | 1.00 | ug/L | 50.0 | ND | 95.1 | 74-130 | | | |
| Toluene | 47.5 | 1.00 | " | 50.0 | ND | 95.0 | 73-131 | | | |
| Ethylbenzene | 48.3 | 1.00 | " | 50.0 | ND | 96.6 | 76-132 | | | |
| m,p-Xylene | 95.5 | 2.00 | " | 100 | ND | 95.5 | 69-139 | | | |
| o-Xylene | 47.7 | 1.00 | " | 50.0 | ND | 95.5 | 74-131 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | " | 62.5 | | 104 | 84-121 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.0 | 84-114 | | | |

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Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

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

Batch B7L1510 - EPA 5030B (Water)

| Matrix Spike (B7L1510-MS2) | | Source: Y712212-04 | | | Prepared: 12/15/2017 Analyzed: 12/15/2017 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene | 45.3 | 1.00 | ug/L | 50.0 | ND | 90.7 | 74-130 | | | |
| Toluene | 44.8 | 1.00 | " | 50.0 | ND | 89.7 | 73-131 | | | |
| Ethylbenzene | 46.6 | 1.00 | " | 50.0 | ND | 93.3 | 76-132 | | | |
| m,p-Xylene | 91.9 | 2.00 | " | 100 | ND | 91.9 | 69-139 | | | |
| o-Xylene | 46.5 | 1.00 | " | 50.0 | ND | 92.9 | 74-131 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | " | 62.5 | | 105 | 84-121 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 103 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 100 | 84-114 | | | |

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Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

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

Batch B7L1510 - EPA 5030B (Water)

| Matrix Spike (B7L1510-MS3) | | Source: Y712212-05 | | | Prepared: 12/15/2017 Analyzed: 12/15/2017 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|--|--|--|
| Benzene | 42.8 | 1.00 | ug/L | 50.0 | ND | 85.6 | 74-130 | | | |
| Toluene | 42.6 | 1.00 | " | 50.0 | ND | 85.3 | 73-131 | | | |
| Ethylbenzene | 42.8 | 1.00 | " | 50.0 | ND | 85.6 | 76-132 | | | |
| m,p-Xylene | 85.2 | 2.00 | " | 100 | ND | 85.2 | 69-139 | | | |
| o-Xylene | 43.6 | 1.00 | " | 50.0 | ND | 87.2 | 74-131 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 60 | | " | 62.5 | | 95.7 | 84-121 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 97.0 | 84-114 | | | |

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Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

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

Batch B7L1510 - EPA 5030B (Water)

| Matrix Spike Dup (B7L1510-MSD1) | | Source: Y712212-03 | | | Prepared: 12/15/2017 Analyzed: 12/15/2017 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|------|----|--|
| Benzene | 46.3 | 1.00 | ug/L | 50.0 | ND | 92.6 | 74-130 | 2.71 | 20 | |
| Toluene | 45.8 | 1.00 | " | 50.0 | ND | 91.6 | 73-131 | 3.64 | 20 | |
| Ethylbenzene | 47.0 | 1.00 | " | 50.0 | ND | 94.1 | 76-132 | 2.69 | 20 | |
| m,p-Xylene | 92.6 | 2.00 | " | 100 | ND | 92.6 | 69-139 | 3.01 | 20 | |
| o-Xylene | 46.2 | 1.00 | " | 50.0 | ND | 92.4 | 74-131 | 3.32 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | " | 62.5 | | 104 | 84-121 | | | |
| Surrogate: Toluene-d8 | 64 | | " | 62.5 | | 102 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 99.6 | 84-114 | | | |

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Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

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

Batch B7L1510 - EPA 5030B (Water)

| Matrix Spike Dup (B7L1510-MSD2) | | Source: Y712212-04 | | | Prepared: 12/15/2017 Analyzed: 12/15/2017 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|------|----|--|
| Benzene | 43.3 | 1.00 | ug/L | 50.0 | ND | 86.6 | 74-130 | 4.53 | 20 | |
| Toluene | 43.0 | 1.00 | " | 50.0 | ND | 86.0 | 73-131 | 4.19 | 20 | |
| Ethylbenzene | 44.4 | 1.00 | " | 50.0 | ND | 88.7 | 76-132 | 5.05 | 20 | |
| m,p-Xylene | 88.6 | 2.00 | " | 100 | ND | 88.6 | 69-139 | 3.70 | 20 | |
| o-Xylene | 44.4 | 1.00 | " | 50.0 | ND | 88.8 | 74-131 | 4.49 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | " | 62.5 | | 105 | 84-121 | | | |
| Surrogate: Toluene-d8 | 65 | | " | 62.5 | | 104 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 61 | | " | 62.5 | | 98.1 | 84-114 | | | |

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Robin Lockwood
Project Number: [none]
Project: Noble - Wardlaw #20-28

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

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

Batch B7L1510 - EPA 5030B (Water)

| Matrix Spike Dup (B7L1510-MSD3) | | Source: Y712212-05 | | | Prepared: 12/15/2017 Analyzed: 12/15/2017 | | | | | |
|----------------------------------|------|--------------------|------|------|---|------|--------|------|----|--|
| Benzene | 44.4 | 1.00 | ug/L | 50.0 | ND | 88.7 | 74-130 | 3.53 | 20 | |
| Toluene | 43.6 | 1.00 | " | 50.0 | ND | 87.2 | 73-131 | 2.27 | 20 | |
| Ethylbenzene | 44.1 | 1.00 | " | 50.0 | ND | 88.3 | 76-132 | 3.11 | 20 | |
| m,p-Xylene | 87.7 | 2.00 | " | 100 | ND | 87.7 | 69-139 | 2.83 | 20 | |
| o-Xylene | 44.4 | 1.00 | " | 50.0 | ND | 88.9 | 74-131 | 1.89 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 67 | | " | 62.5 | | 107 | 84-121 | | | |
| Surrogate: Toluene-d8 | 65 | | " | 62.5 | | 104 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 84-114 | | | |

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4101 Inca Street

Denver CO 80211

Robin Lockwood

Project Number: [none]

Project: Noble - Wardlaw #20-28

Notes and Definitions

U Sample is Non-Detect.

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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