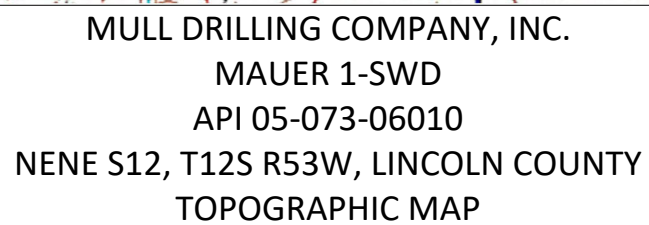




FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Soil Sample Location Map



Location Boundary

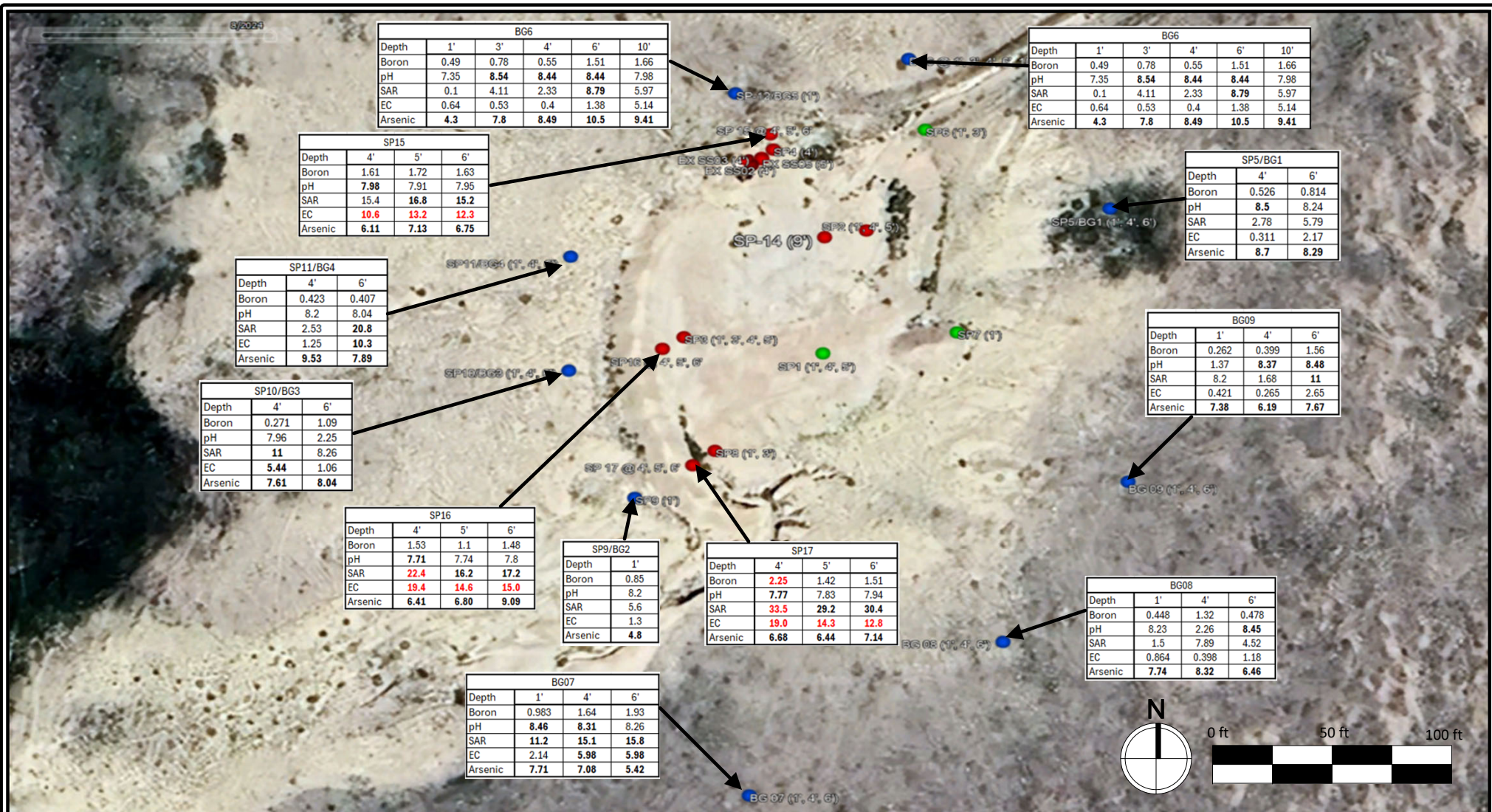


0 ft 350 ft 700 ft



Prepared By:
Ardor Environmental LLC

December 27, 2023



MULL DRILLING COMPANY, INC.
 MAUER 1-SWD
 API 05-073-06010
 NENE S12, T12S R53W, LINCOLN COUNTY
 SOIL SAMPLE LOCATIONS

Legend

- Blue dot: Background Samples
- Red dot: In-Situ Contaminated Samples
- Green dot: In-Situ In Compliance Samples

NOTE: VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS

| ECMC TABLE 915-1 SOIL STANDARDS | |
|---------------------------------|----------------|
| Compound | Concentrations |
| Boron | 2mg/l |
| EC | <4mmhos/cm |
| pH | 6-8.3 |
| SAR | <6 |
| TPH | 500mg/kg |
| Arsenic | 0.68mg/kg |

mg/l – milligrams per liter
 mmhos/cm – millimhos per centimeter
 mg/kg – milligrams per kilogram



Prepared By:
 Ardor Environmental LLC

November 13, 2024

Imagery Source: Google Earth 2024



TABLES

Table 1: 2022 and 2023 Analytical Tables

Table 2: 2024 2nd Quarter Analytical Tables

Table 3: 2024 4th Quarter Analytical Tables

| Table 915-1 Mauer Results | | | 12/1/2022 | | | | | | | | 10/24/2023 | | | | | | | | | |
|---|-------------------------------------|----------|---------------------------|---------|---------------------------|---------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| CLEANUP CONCENTRATIONS | | | SP1 | SP1 | SP2 | SP2 | SP3 | SP4 - 2022 | SP5/BG1 | SP6 | SP3 | SP4 - 2023 | SP7 | SP8 | SP9/BG2 | SP10/BG3 | SP11/BG4 | SP12/BG5 | SP13/BG6 | SP14 |
| Contaminant of Concern | Concentrations | Depth | 1' | 4' | 1' | 4' | 1' | 4' | 1' | 1' | 4' | 4' | 1' | 1' | 1' | 1' | 1' | 1' | 1' | 8' |
| | | Location | 39.021733; -103.277094 | | 39.021899; -103.277024 | | 39.021740; -103.277285 | 39.021994; -103.277227 | 39.021922; -103.276682 | 39.022022; -103.276940 | 39.021740; -103.277285 | 39.022009, -103.277169 | 39.021765, -103.276912 | 39.021598, -103.277244 | 39.021544, -103.277364 | 39.021709, -103.277450 | 39.021878, -103.277441 | 39.022084, -103.277222 | 39.022132, -103.276979 | 39.021892, -103.277096 |
| Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons) | 500mg/kg | | 48.6 | ND | 41.5 | ND | 64.6 | 556.8 | 8.2J | 5.2J | 21 | 2900 | 31 | 73 | 18J | 7.1J | 6.0J | 7.1J | 18J | 10J |
| PID READING | | | 0.0 ppm | 0.0 ppm | 0.0 ppm | 0.0 ppm | 0.0 ppm | 0.0 ppm | 0.0 ppm | 0.0 ppm | 0.1 ppm | 0.0 ppm | 0.1 ppm | 0.1 ppm | 0.0 ppm | 0.0 ppm | 0.2 ppm | 0.1 ppm | 0.0 ppm | 0.2 ppm |
| Soil Suitability for Reclamation | | | | | | | | | | | | | | | | | | | | |
| Electrical conductivity (EC) (by saturated paste method) | <4mmhos/cm | | 11.2 | 4.11 | 0.829 | 1.71 | 15.1 | 1.68 | 1.42 | 0.479 | 5.3 | 8 | 0.65 | 28 | 1.3 | 0.94 | 1.8 | 0.6 | 0.64 | 4.6 |
| Sodium adsorption ratio (SAR) (by saturated paste method) | <6 | | 11.6 | 17.4 | 1.27 | 19 | 18.4 | 7.45 | 1.94 | 3.75 | 12 | 9.7 | 1.6 | 25 | 5.6 | 2.3 | 5.6 | 2.2 | 0.1 | 53 |
| pH (by saturated paste method) | 6–8.3 | | 8.47 | 8.27 | 8.97 | 8.82 | 7.59 | 7.81 | 7.97 | 8.88 | 9.34 | 8.76 | 8.29 | 7.15 | 8.2 | 8.55 | 10.1 | 7.49 | 7.35 | 8.45 |
| boron (hot water soluble soil extract) | 2mg/l | | 0.469 | 0.699 | 0.184J | 1.16 | 1.41 | 0.34 | 0.57 | 0.319 | 0.8 | 2.5 | 0.81 | 2.2 | 0.85 | 0.63 | 0.86 | 0.71 | 0.49 | 4.7 |
| Organic Compounds in Groundwater | | | | | | | | | | | | | | | | | | | | |
| benzene | 5µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| toluene | 560 to 1,000µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| ethylbenzene | 700µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| xylene (sum of o-, m- and p- isomers = total xylenes) | 1,400 to 10,000µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| naphthalene | 140µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2,4-trimethylbenzene | 67µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3,5-trimethylbenzene | 67µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Groundwater Inorganic Parameters | | | | | | | | | | | | | | | | | | | | |
| total dissolved solids (TDS) | <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| chloride ion | 250mg/l or <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| sulfate ion | 250mg/l or <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

| Soils | Residential Soil Screening Level Concentrations (mg/kg) | Protection of Groundwater Soil Screening Level Concentrations (mg/kg) | SP1 | SP1 | SP2 | SP2 | SP3 | SP4 | SP5/BG1 | SP6 | SP3 | SP4 | SP7 | SP8 | SP9/BG2 | SP10/BG3 | SP11/BG4 | SP12/BG5 | SP13/BG6 | SP14 |
|--|---|---|----------|-------|---------|---------|---------|---------|---------|-------|---------|--------|--------|--------|---------|----------|----------|----------|----------|------|
| Organic Compounds in Soils | | | 1' | 4' | 1' | 4' | 1' | 4' | 1' | 1' | 4' | 4' | 1' | 1' | 1' | 1' | 1' | 1' | 1' | 8' |
| benzene | 1.2 | 0.0026 (M) | 0.00070J | ND | ND | ND | ND | 0.0012J | ND | ND | U | U | U | U | U | U | U | U | U | U |
| toluene | 490 | 0.69 (M) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| ethylbenzene | 5.8 | 0.78 (M) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| xylenes (sum of o-, m- and p- isomers = total xylenes) | 58 | 9.9 (M) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| 1,2,4-trimethylbenzene | 30 | 0.0081 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| 1,3,5-trimethylbenzene | 27 | 0.0087 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| acenaphthene | 360 | 0.55 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| anthracene | 1800 | 5.8 (R) | ND | ND | 0.0044 | ND | ND | 0.0031J | ND | ND | U | U | U | U | U | U | U | U | U | U |
| benz(a)anthracene | 1.1 | 0.011 (R) | 0.0031J | ND | 0.0023J | ND | ND | ND | ND | ND | U | 0.24 | U | U | U | U | U | U | U | U |
| benzo(b)fluoranthene | 1.1 | 0.3 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| benzo(k)fluoranthene | 11 | 2.9 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| benzo(a)pyrene | 0.11 | 0.24 (M) | ND | ND | ND | 0.0022J | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| chrysene | 110 | 9 (R) | ND | ND | ND | ND | 0.0024J | ND | ND | ND | U | 0.26 | U | U | U | U | U | U | U | U |
| dibenzo(a,h)anthracene | 0.11 | 0.096 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| fluoranthene | 240 | 8.9 (R) | ND | ND | 0.012 | 0.0032J | 0.0025J | ND | ND | ND | U | 0.045 | U | U | U | U | U | U | U | U |
| fluorene | 240 | 0.54 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | 0.082 | U | U | U | U | U | U | U | U |
| indeno(1,2,3-cd)pyrene | 1.1 | 0.98 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| 1-methylnaphthalene | 18 | 0.006 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| 2-methylnaphthalene | 24 | 0.019 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | U | U | U | U | U | U | U |
| naphthalene | 2 | 0.0038 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | 0.047J | U | U | U | U | U | U | U | U |
| pyrene | 180 | 1.3 (R) | ND | ND | ND | 0.0027J | 0.0024J | ND | ND | ND | U | 0.061 | U | U | U | U | U | U | U | U |
| Metals in Soils | | | | | | | | | | | | | | | | | | | | |
| arsenic | 0.68 | 0.29 (M) | 3.9 | 8.2 | 8.6 | 7.3 | 7.6 | 6.9 | 7.7 | 6.7 | 7.1 | 6.1 | 5.9 | 5.3 | 4.8 | 5.3 | 5.8 | 5.5 | 4.3 | 6.3 |
| barium | 15000 | 82 (M) | 177 | 176 | 210 | 178 | 554 | 164 | 170 | 174 | 110 | 190 | 330 | 230 | 140 | 170 | 130 | 110 | 400 | 230 |
| cadmium | 71 | 0.38 (M) | 0.29J | 0.68 | 0.65 | 0.6 | 0.58 | 0.52J | 0.55 | 0.51 | 0.084 J | 0.092 | 0.057J | 0.072J | 0.11 | 0.089J | 0.089J | 0.11 | 0.059J | U |
| chromium (VI) | 0.3 | 0.00067 (R) | 0.636J | ND | 0.354J | ND | ND | 0.276J | ND | ND | U | U | U | U | U | U | U | U | U | U |
| copper | 3100 | 46 (M) | 6.3 | 17.5 | 14.1 | 13.3 | 13.8 | 11.7 | 13.3 | 12.3 | 12 | 12 | 9.4 | 10 | 8.8 | 9.2 | 8.6 | 7.9 | 8.3 | 13 |
| lead | 400 | 14 (M) | 6.6 | 12.7 | 16.7 | 11.4 | 12.7 | 12.8 | 11.2 | 9.8 | 15 | 15 | 12 | 14 | 13 | 12 | 12 | 9.3 | 15 | |
| nickel | 1500 | 26 (R) | 7.1 | 15 | 12.5 | 12.6 | 12.4 | 11.1 | 12.3 | 11.7 | 12 | 9.4 | 9.6 | 9.9 | 8.8 | 9.1 | 9.3 | 7.7 | 6.8 | 13 |
| selenium | 390 | 0.26 (M) | 0.34J | 0.44J | ND | 0.58J | 0.34J | 0.49J | 0.50J | 0.52J | 0.74 | 0.35J | 0.65 | 0.53 | 0.46 | 0.56 | 0.42 | 0.53 | 0.69 | 0.48 |
| silver | 390 | 0.8 (R) | ND | ND | ND | ND | ND | ND | ND | ND | U | U | U | 0.040J | U | U | U | U | U | U |
| zinc | 23000 | 370 (R) | 23.6 | 55.4 | 50.4 | 45.9 | 45.2 | 42.2 | 47.5 | 37.4 | 43 | 67 | 34 | 36 | 33 | 33 | 33 | 28 | 27 | 47 |

The letter “(R)” following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter “(M)” following a protection of Groundwater soil screening level indicates the concentration is derived from the Quantifier “J” indicated analyte is present at an estimated concentration between the MDL and Reporting Limit.

Quantifier “U” indicates analyzed but not detected above the MDL.

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Residential Soil Screening Level limits, but are within Background results.

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Residential Soil Screening Level limits, and Background results.

*Arsenic is naturally occurring in Colorado at concentrations above ECMC Table 915-1, Local Clean-Up Level is 13.125 mg/kg (1.25x10.5 mg/kg)

| Table 915-1 Mauer Results | | | 3/26/2024 | | | | | | | | | | | | 4/4/2024 | | | | | 5/29/2024 | | | | | | | | |
|---|---|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-------------------------|---------------------------|---------------------------|--------------------------|---------------------------|-------|-------|-------|-------|-------|------|
| CLEANUP CONCENTRATIONS | | | SP1 | SP2 | SP3 | SP6 | SP14 | SP8 | SP5/BG1 | SP5/BG1 | SP10/BG3 | SP10/BG3 | SP11/BG4 | SP11/BG4 | EX SS01 | EX SS02 | EX SS03 | EX SS04 | EX SS05 | BG07 | BG07 | BG07 | BG08 | BG08 | BG08 | BG09 | BG09 | BG09 |
| Contaminant of Concern | Concentrations | Depth | 5' | 5' | 5' | 3' | 9' | 3' | 4' | 6' | 4' | 6' | 4' | 6' | 4' | 4' | 4' | 4' | 5' | 1' | 4' | 6' | 1' | 4' | 6' | 1' | 4' | 6' |
| | | Location | 39.021733; -103.277094 | 39.021899; -103.277024 | 39.021740; -103.277285 | 39.022022; -103.276940 | 39.021892, -103.277096 | 39.021598, -103.277244 | 39.021922; -103.276682 | 39.021922; -103.276682 | 39.021709, -103.277450 | 39.021709, -103.277450 | 39.021878, -103.277441 | 39.021878, -103.277441 | 39.021997, -103.277203 | 39.021994, -103.277211 | 39.021997, -103.277186 | 39.021989, -103.2772 | 39.021997, -103.277186 | 39.021144, -103.277203 | 39.02135, -103.276847 | 39.021567, -103.276672 | | | | | | |
| Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons) | 500mg/kg | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PID READING | | | | | | | | | | | | | | | 0.3 | 0.1 | 0.5 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Soil Suitability for Reclamation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Electrical conductivity (EC) (by saturated paste method) | <4mmhos/cm | | 1.88 | 3.97 | 16.1 | 1.52 | 11.5 | 1.21 | 0.311 | 2.17 | 5.44 | 1.09 | 1.24 | 10.3 | 9.53 | 8.44 | 9.51 | 8.11 | 9.31 | 2.14 | 4.89 | 5.98 | 0.864 | 1.32 | 1.18 | 0.262 | 0.265 | 2.65 |
| Sodium adsorption ratio (SAR) (by saturated paste method) | <6 | | 13.7 | 43.8 | 23.5 | 7.48 | 67.4 | 15.2 | 2.78 | 5.79 | 11 | 2.25 | 2.53 | 20.8 | 15.5 | 12.9 | 14.3 | 14.2 | 14.6 | 11.2 | 15.1 | 15.8 | 1.46 | 2.26 | 4.52 | 1.37 | 1.68 | 11 |
| pH (by saturated paste method) | 6-8.3 | | 8.47 | 8.5 | 7.54 | 8.23 | 8.09 | 8.61 | 8.5 | 8.24 | 7.96 | 8.26 | 8.2 | 8.04 | 8.11 | 8.1 | 8.07 | 8.16 | 8.11 | 8.46 | 8.31 | 8.26 | 8.23 | 7.89 | 8.45 | 8.19 | 8.37 | 8.48 |
| boron (hot water soluble soil extract) | 2mg/l | | 1.36 | 3.86 | 1.24 | 0.972 | 3.37 | 1.81 | 0.526 | 0.814 | 0.271 | 1.06 | 0.423 | 0.407 | 3.29 | 2.81 | 2.95 | 3.26 | 2.92 | 0.983 | 1.64 | 1.93 | 0.448 | 0.398 | 0.478 | 0.421 | 0.399 | 1.56 |
| Organic Compounds in Groundwater | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| benzene | 5µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| toluene | 560 to 1,000µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| ethylbenzene | 700µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| xylenes (sum of o-, m- and p- isomers = total xylenes) | 1,400 to 10,000µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| naphthalene | 140µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2,4-trimethylbenzene | 67µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3,5-trimethylbenzene | 67µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Groundwater Inorganic Parameters | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| total dissolved solids (TDS) | <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| chloride ion | 250mg/l or <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| sulfate ion | 250mg/l or <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Soils | Residential Soil Screening Level Concentrations (mg/kg) | Protection of Groundwater Soil Screening Level Concentrations (mg/kg) | SP1 | SP2 | SP3 | SP6 | SP14 | SP8 | SP5/BG1 | SP5/BG1 | SP10/BG3 | SP10/BG3 | SP11/BG4 | SP11/BG4 | EX SS01 | EX SS02 | EX SS03 | EX SS04 | EX SS05 | BG07 | BG07 | BG07 | BG08 | BG08 | BG08 | BG09 | BG09 | BG09 |
| | | | 5' | 5' | 5' | 3' | 9' | 3' | 4' | 6' | 4' | 6' | 4' | 6' | 4' | 4' | 4' | 4' | 5' | 1' | 4' | 6' | 1' | 4' | 6' | 1' | 4' | 6' |
| Organic Compounds in Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| benzene | 1.2 | 0.0026 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| toluene | 490 | 0.69 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ethylbenzene | 5.8 | 0.78 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| xylenes (sum of o-, m- and p- isomers = total xylenes) | 58 | 9.9 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-trimethylbenzene | 30 | 0.0081 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-trimethylbenzene | 27 | 0.0087 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| acenaphthene | 360 | 0.55 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| anthracene | 1800 | 5.8 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| benz(a)anthracene | 1.1 | 0.011 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| benzo(b)fluoranthene | 1.1 | 0.3 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| benzo(k)fluoranthene | 11 | 2.9 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| benzo(a)pyrene | 0.11 | 0.24 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| chrysene | 110 | 9 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| dibenzo(a,h)anthracene | 0.11 | 0.096 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| fluoranthene | 240 | 8.9 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| fluorene | 240 | 0.54 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| indeno(1,2,3-cd)pyrene | 1.1 | 0.98 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1-methylnaphthalene | 18 | 0.006 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-methylnaphthalene | 24 | 0.019 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| naphthalene | 2 | 0.0038 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| pyrene | 180 | 1.3 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals in Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| arsenic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is
Quantifier "J" indicated analyte is present at an estimated concentration between the MDL and Reporting Limit.
Quantifier "U" indicates analyzed but

| Table 915-1 Mauer Results | | | 10/23/2024 | | | | | | | | | | | | |
|---|---|---|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| CLEANUP CONCENTRATIONS | | | SP15 | SP15 | SP15 | SP16 | SP16 | SP16 | SP17 | SP17 | SP17 | BG6 | BG6 | BG | BG6 |
| Contaminant of Concern | Concentrations | Depth | 4' | 5' | 6' | 4' | 5' | 6' | 4' | 5' | 6' | 3' | 4' | 6' | 10' |
| | | Location | 39.022029 -103.277173 | 39.022029 -103.277173 | 39.022029 -103.277173 | 39.021743, -103.277325 | 39.021743, -103.277325 | 39.021743, -103.277325 | 39.021588, -103.277283 | 39.021588, -103.277283 | 39.021588, -103.277283 | 39.022090, -103.276975 | 39.022090, -103.276975 | 39.022090, -103.276975 | 39.022090, -103.276975 |
| Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons) | 500mg/kg | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PID READING | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Soil Suitability for Reclamation | | | | | | | | | | | | | | | |
| Electrical conductivity (EC) (by saturated paste method) | <4mmhos/cm | | 10.6 | 13.2 | 12.3 | 19.4 | 14.6 | 15.0 | 19.0 | 14.3 | 12.8 | 0.53 | 0.40 | 1.38 | 5.14 |
| Sodium adsorption ratio (SAR) (by saturated paste method) | <6 | | 15.4 | 16.8 | 15.2 | 22.4 | 16.2 | 17.2 | 33.5 | 29.2 | 30.4 | 4.11 | 2.33 | 8.79 | 5.97 |
| pH (by saturated paste method) | 6–8.3 | | 7.98 | 7.91 | 7.95 | 7.71 | 7.74 | 7.80 | 7.77 | 7.83 | 7.94 | 8.54 | 8.44 | 8.44 | 7.98 |
| boron (hot water soluble soil extract) | 2mg/l | | 1.61 | 1.72 | 1.63 | 1.53 | 1.1 | 1.48 | 2.25 | 1.42 | 1.51 | 0.78 | 0.55 | 1.51 | 1.66 |
| Organic Compounds in Groundwater | | | | | | | | | | | | | | | |
| benzene | 5µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| toluene | 560 to 1,000µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| ethylbenzene | 700µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| xylene (sum of o-, m- and p- isomers = total xylenes) | 1,400 to 10,000µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| naphthalene | 140µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2,4-trimethylbenzene | 67µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3,5-trimethylbenzene | 67µg/l | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Groundwater Inorganic Parameters | | | | | | | | | | | | | | | |
| total dissolved solids (TDS) | <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| chloride ion | 250mg/l or <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| sulfate ion | 250mg/l or <1.25 X local background | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Soils | Residential Soil Screening Level Concentrations (mg/kg) | Protection of Groundwater Soil Screening Level Concentrations (mg/kg) | SP15 | SP15 | SP15 | SP16 | SP16 | SP16 | SP17 | SP17 | SP17 | BG6 | BG6 | BG | BG6 |
| Organic Compounds in Soils | | | | | | | | | | | | | | | |
| benzene | 1.2 | 0.0026 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| toluene | 490 | 0.69 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| ethylbenzene | 5.8 | 0.78 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| xylene (sum of o-, m- and p- isomers = total xylenes) | 58 | 9.9 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,2,4-trimethylbenzene | 30 | 0.0081 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1,3,5-trimethylbenzene | 27 | 0.0087 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| acenaphthene | 360 | 0.55 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| anthracene | 1800 | 5.8 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| benz(a)anthracene | 1.1 | 0.011 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| benzo(b)fluoranthene | 1.1 | 0.3 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| benzo(k)fluoranthene | 11 | 2.9 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| benzo(a)pyrene | 0.11 | 0.24 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| chrysene | 110 | 9 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| dibenzo(a,h)anthracene | 0.11 | 0.096 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| fluoranthene | 240 | 8.9 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| fluorene | 240 | 0.54 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| indeno(1,2,3-cd)pyrene | 1.1 | 0.98 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1-methylnaphthalene | 18 | 0.006 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 2-methylnaphthalene | 24 | 0.019 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| naphthalene | 2 | 0.0038 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| pyrene | 180 | 1.3 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Metals in Soils | | | | | | | | | | | | | | | |
| arsenic | 0.68 | 0.29 (M) | 6.11 | 7.13 | 6.75 | 6.41 | 6.80 | 9.09 | 6.68 | 6.44 | 7.14 | 7.80 | 8.49 | 10.5 | 9.41 |
| barium | 15000 | 82 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| cadmium | 71 | 0.38 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| chromium (VI) | 0.3 | 0.00067 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| copper | 3100 | 46 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| lead | 400 | 14 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| nickel | 1500 | 26 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| selenium | 390 | 0.26 (M) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| silver | 390 | 0.8 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| zinc | 23000 | 370 (R) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |



ATTACHMENT A

Laboratory Analytical Reports

December 20, 2022

James Beilman
Mull Drilling Company
1700 N Waterfront Pkwy
Bld. 1200
Wichita, KS 67206

RE: Project: MAUER 915-1
Pace Project No.: 60416937

Dear James Beilman:

Enclosed are the analytical results for sample(s) received by the laboratory on December 02, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Heather Wilson
heather.wilson@pacelabs.com
1(913)563-1407
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: MAUER 915-1

Pace Project No.: 60416937

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219

Missouri Inorganic Drinking Water Certification #: 10090

Arkansas Drinking Water

Arkansas Certification #: 22-031-0

Illinois Certification #: 2000302021-3

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1

Oklahoma Certification #: 2022-057

Florida: Cert E871149 SEKS WET

Texas Certification #: T104704407-21-15

Utah Certification #: KS000212022-12

Illinois Certification #: 004592

Kansas Field Laboratory Accreditation: # E-92587

Missouri SEKS Micro Certification: 10070

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Mold Certification #: LAB0152

Texas Certification #: T 104704245-17-14

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: MAUER 915-1

Pace Project No.: 60416937

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 60416937001 | SP1 | Solid | 12/01/22 09:00 | 12/02/22 10:57 |
| 60416937002 | SP1 4' | Solid | 12/01/22 09:15 | 12/02/22 10:57 |
| 60416937003 | SP2 | Solid | 12/01/22 09:20 | 12/02/22 10:57 |
| 60416937004 | SP2 4' | Solid | 12/01/22 09:35 | 12/02/22 10:57 |
| 60416937005 | SP3 | Solid | 12/01/22 09:45 | 12/02/22 10:57 |
| 60416937006 | SP4 | Solid | 12/01/22 09:30 | 12/02/22 10:57 |
| 60416937007 | SP5 | Solid | 12/01/22 08:50 | 12/02/22 10:57 |
| 60416937008 | SP6 | Solid | 12/01/22 09:10 | 12/02/22 10:57 |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: MAUER 915-1

Pace Project No.: 60416937

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------|----------|-------------------|------------|
| 60416937001 | SP1 | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| | | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |
| | | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ZSA | 1 | PAN |
| | | EPA 8015B | YGR | 4 | PASI-K |
| 60416937002 | SP1 4' | EPA 8015B | JLO | 2 | PASI-K |
| | | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |
| | | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ZSA | 1 | PAN |
| | | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| 60416937003 | SP2 | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |
| | | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| | | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: MAUER 915-1

Pace Project No.: 60416937

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------|----------|-------------------|------------|
| 60416937004 | SP2 4' | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ZSA | 1 | PAN |
| | | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| | | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |
| | | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ABL | 1 | PAN |
| 60416937005 | SP3 | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| | | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |
| | | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ABL | 1 | PAN |
| | | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| 60416937006 | SP4 | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: MAUER 915-1

Pace Project No.: 60416937

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------------|----------|-------------------|------------|
| 60416937007 | SP5 | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ABL | 1 | PAN |
| | | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| | | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |
| | | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ABL | 1 | PAN |
| 60416937008 | SP6 | EPA 8015B | YGR | 4 | PASI-K |
| | | EPA 8015B | JLO | 2 | PASI-K |
| | | 6010B-NE493 Ch 2 | ABL | 1 | PAN |
| | | EPA 6010 | MA1 | 8 | PASI-K |
| | | EPA 6020 | MRV | 1 | PASI-K |
| | | EPA 8270 by SIM | SJJ | 17 | PASI-K |
| | | EPA 8260C | RAD | 9 | PASI-K |
| | | ASTM D2974 | DWC | 1 | PASI-K |
| | | SM 2540G | CMK | 1 | PAN |
| | | EPA 7199 | VSS | 1 | PAN |
| | | EPA 9045D | KAD | 1 | PAN |
| | | EPA 9050 | NTG | 1 | PAN |
| | | Calculated | ABL | 1 | PAN |

PAN = Pace National - Mt. Juliet

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1

Pace Project No.: 60416937

Sample: SP1 **Lab ID: 60416937001** Collected: 12/01/22 09:00 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|--------|----|----------------|----------------|------------|-------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | 27.2 | mg/kg | 20.5 | 4.6 | 1 | 12/05/22 15:33 | 12/10/22 19:12 | | |
| TPH-DRO (C10-C28) | 21.4 | mg/kg | 10.2 | 4.6 | 1 | 12/05/22 15:33 | 12/10/22 19:12 | | B |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 90 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/10/22 19:12 | 646-31-1 | |
| p-Terphenyl (S) | 76 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/10/22 19:12 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.0 | 1.2 | 1 | 12/08/22 10:11 | 12/08/22 19:23 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 19:23 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 469 | ug/L | 200 | 16.7 | 1 | 12/09/22 17:57 | 12/16/22 13:20 | 7440-42-8H | |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 177 | mg/kg | 0.42 | 0.083 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7440-39-3 | M1,R1 |
| Cadmium | 0.29J | mg/kg | 0.42 | 0.060 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7440-43-9 | |
| Copper | 6.3 | mg/kg | 1.7 | 0.34 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7440-50-8 | |
| Lead | 6.6 | mg/kg | 0.83 | 0.24 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7439-92-1 | |
| Nickel | 7.1 | mg/kg | 0.42 | 0.21 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7440-02-0 | |
| Selenium | 0.34J | mg/kg | 1.2 | 0.25 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7782-49-2 | M1 |
| Silver | ND | mg/kg | 0.58 | 0.090 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7440-22-4 | |
| Zinc | 23.6 | mg/kg | 8.3 | 0.18 | 1 | 12/07/22 14:03 | 12/14/22 19:41 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 3.9 | mg/kg | 0.83 | 0.19 | 10 | 12/07/22 14:03 | 12/15/22 16:36 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 83-32-9 | |
| Anthracene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 120-12-7 | |
| Benzo(a)anthracene | 0.0031J | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0034 | 0.0014 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 53-70-3 | |
| Fluoranthene | ND | mg/kg | 0.0034 | 0.0024 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1

Pace Project No.: 60416937

Sample: SP1 **Lab ID: 60416937001** Collected: 12/01/22 09:00 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0016 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0034 | 0.0017 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 91-20-3 | |
| Pyrene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 63 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 321-60-8 | |
| Terphenyl-d14 (S) | 75 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 11:21 | 1718-51-0 | |
| 8260C MSV 5035A Low Level | | | | | | | | | |
| Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.00070J | mg/kg | 0.0053 | 0.00049 | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0053 | 0.00092 | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.021 | 0.0047 | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0053 | 0.00073 | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0053 | 0.00046 | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.016 | 0.0039 | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 110 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 99 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 13:39 | 2199-69-1 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 3.1 | % | 0.50 | 0.50 | 1 | | 12/05/22 13:59 | | |
| Total Solids 2540 G-2011 | | | | | | | | | |
| Analytical Method: SM 2540G Preparation Method: SM 2540 G | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 94.1 | % | | | 1 | 12/07/22 15:25 | 12/07/22 15:40 | | |
| Wet Chemistry 7199 | | | | | | | | | |
| Analytical Method: EPA 7199 Preparation Method: 3060A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | 0.636J | mg/kg | 1.06 | 0.271 | 1 | 12/07/22 01:10 | 12/08/22 04:16 | 18540-29-9 | J |
| Wet Chemistry 9045D | | | | | | | | | |
| Analytical Method: EPA 9045D Preparation Method: 9045C/9045D | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| pH | 8.47 | Std. Units | | 0.10 | 1 | 12/07/22 08:30 | 12/07/22 10:24 | | H3 |
| Wet Chemistry 9050AMod | | | | | | | | | |
| Analytical Method: EPA 9050 Preparation Method: 9050A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 11200 | umhos/cm | 10.0 | 10.0 | 1 | 12/10/22 11:00 | 12/13/22 08:10 | | |
| Calculated Results | | | | | | | | | |
| Analytical Method: Calculated Preparation Method: Calc | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 11.6 | | | | 1 | 12/15/22 12:09 | 12/15/22 12:09 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1

Pace Project No.: 60416937

Sample: SP1 4' **Lab ID: 60416937002** Collected: 12/01/22 09:15 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|--------|----|----------------|----------------|------------|------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | ND | mg/kg | 23.6 | 5.3 | 1 | 12/05/22 15:33 | 12/07/22 00:47 | | |
| TPH-DRO (C10-C28) | ND | mg/kg | 11.8 | 5.3 | 1 | 12/05/22 15:33 | 12/07/22 00:47 | | CH |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 86 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/07/22 00:47 | 646-31-1 | |
| p-Terphenyl (S) | 76 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/07/22 00:47 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | ND | mg/kg | 13.1 | 1.6 | 1 | 12/08/22 10:11 | 12/08/22 19:38 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 19:38 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 669 | ug/L | 200 | 16.7 | 1 | 12/09/22 17:57 | 12/16/22 13:23 | 7440-42-8H | |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 176 | mg/kg | 0.52 | 0.10 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7440-39-3 | |
| Cadmium | 0.68 | mg/kg | 0.52 | 0.076 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7440-43-9 | |
| Copper | 17.5 | mg/kg | 2.1 | 0.43 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7440-50-8 | |
| Lead | 12.7 | mg/kg | 1.0 | 0.30 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7439-92-1 | |
| Nickel | 15.0 | mg/kg | 0.52 | 0.26 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7440-02-0 | |
| Selenium | 0.44J | mg/kg | 1.6 | 0.32 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.73 | 0.11 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7440-22-4 | |
| Zinc | 55.4 | mg/kg | 10.4 | 0.22 | 1 | 12/07/22 14:03 | 12/14/22 19:47 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 8.2 | mg/kg | 1.0 | 0.24 | 10 | 12/07/22 14:03 | 12/15/22 16:38 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 83-32-9 | |
| Anthracene | ND | mg/kg | 0.0039 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0039 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0039 | 0.0016 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0039 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0039 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 53-70-3 | |
| Fluoranthene | ND | mg/kg | 0.0039 | 0.0027 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0039 | 0.0025 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0039 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1

Pace Project No.: 60416937

Sample: SP1 4' **Lab ID: 60416937002** Collected: 12/01/22 09:15 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0039 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0039 | 0.0024 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0039 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 91-20-3 | |
| Pyrene | ND | mg/kg | 0.0039 | 0.0026 | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 67 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 321-60-8 | |
| Terphenyl-d14 (S) | 80 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 11:39 | 1718-51-0 | |
| 8260C MSV 5035A Low Level | | | | | | | | | |
| Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.0014J | mg/kg | 0.0069 | 0.00063 | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0069 | 0.0012 | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.027 | 0.0061 | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | 0.0011J | mg/kg | 0.0069 | 0.00095 | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0069 | 0.00060 | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.021 | 0.0051 | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 109 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 100 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 13:59 | 2199-69-1 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 15.9 | % | 0.50 | 0.50 | 1 | | 12/05/22 13:59 | | |
| Total Solids 2540 G-2011 | | | | | | | | | |
| Analytical Method: SM 2540G Preparation Method: SM 2540 G | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 84.4 | % | | | 1 | 12/07/22 15:25 | 12/07/22 15:40 | | |
| Wet Chemistry 7199 | | | | | | | | | |
| Analytical Method: EPA 7199 Preparation Method: 3060A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 1.18 | 0.302 | 1 | 12/07/22 01:10 | 12/08/22 04:22 | 18540-29-9 | |
| Wet Chemistry 9045D | | | | | | | | | |
| Analytical Method: EPA 9045D Preparation Method: 9045C/9045D | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| pH | 8.27 | Std. Units | | 0.10 | 1 | 12/07/22 08:30 | 12/07/22 10:24 | | H3 |
| Wet Chemistry 9050AMod | | | | | | | | | |
| Analytical Method: EPA 9050 Preparation Method: 9050A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 4110 | umhos/cm | 10.0 | 10.0 | 1 | 12/07/22 09:00 | 12/07/22 11:40 | | |
| Calculated Results | | | | | | | | | |
| Analytical Method: Calculated Preparation Method: Calc | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 17.4 | | | | 1 | 12/15/22 12:11 | 12/15/22 12:11 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP2 **Lab ID: 60416937003** Collected: 12/01/22 09:20 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | ND | mg/kg | 23.5 | 5.3 | 1 | 12/05/22 15:33 | 12/07/22 19:30 | | |
| TPH-DRO (C10-C28) | 41.5 | mg/kg | 11.7 | 5.3 | 1 | 12/05/22 15:33 | 12/07/22 19:30 | | B |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 83 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/07/22 19:30 | 646-31-1 | |
| p-Terphenyl (S) | 75 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/07/22 19:30 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | ND | mg/kg | 13.3 | 1.6 | 1 | 12/08/22 10:11 | 12/08/22 19:54 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 19:54 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 184J | ug/L | 200 | 16.7 | 1 | 12/09/22 17:57 | 12/16/22 13:29 | 7440-42-8H | J |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 210 | mg/kg | 0.52 | 0.10 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7440-39-3 | |
| Cadmium | 0.65 | mg/kg | 0.52 | 0.075 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7440-43-9 | |
| Copper | 14.1 | mg/kg | 2.1 | 0.43 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7440-50-8 | |
| Lead | 16.7 | mg/kg | 1.0 | 0.30 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7439-92-1 | |
| Nickel | 12.5 | mg/kg | 0.52 | 0.26 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7440-02-0 | |
| Selenium | ND | mg/kg | 1.5 | 0.32 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.72 | 0.11 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7440-22-4 | |
| Zinc | 50.4 | mg/kg | 10.3 | 0.22 | 1 | 12/07/22 14:03 | 12/14/22 19:49 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 8.6 | mg/kg | 1.0 | 0.24 | 10 | 12/07/22 14:03 | 12/15/22 16:41 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 83-32-9 | |
| Anthracene | 0.0044 | mg/kg | 0.0039 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 120-12-7 | |
| Benzo(a)anthracene | 0.0023J | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0039 | 0.0016 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0039 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0039 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 53-70-3 | |
| Fluoranthene | 0.012 | mg/kg | 0.0039 | 0.0027 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0039 | 0.0025 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0039 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1

Pace Project No.: 60416937

Sample: SP2 **Lab ID: 60416937003** Collected: 12/01/22 09:20 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0039 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0039 | 0.0024 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0039 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 91-20-3 | |
| Pyrene | 0.0076 | mg/kg | 0.0039 | 0.0025 | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 70 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 321-60-8 | |
| Terphenyl-d14 (S) | 82 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 12:16 | 1718-51-0 | |
| 8260C MSV 5035A Low Level | | | | | | | | | |
| Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.0012J | mg/kg | 0.0069 | 0.00063 | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0069 | 0.0012 | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.028 | 0.0061 | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0069 | 0.00095 | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0069 | 0.00060 | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.021 | 0.0051 | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 111 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 99 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 14:19 | 2199-69-1 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 16.5 | % | 0.50 | 0.50 | 1 | | 12/05/22 13:59 | | |
| Total Solids 2540 G-2011 | | | | | | | | | |
| Analytical Method: SM 2540G Preparation Method: SM 2540 G | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 85.4 | % | | | 1 | 12/07/22 15:25 | 12/07/22 15:40 | | |
| Wet Chemistry 7199 | | | | | | | | | |
| Analytical Method: EPA 7199 Preparation Method: 3060A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | 0.354J | mg/kg | 1.17 | 0.298 | 1 | 12/07/22 01:10 | 12/08/22 04:37 | 18540-29-9 | J |
| Wet Chemistry 9045D | | | | | | | | | |
| Analytical Method: EPA 9045D Preparation Method: 9045C/9045D | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| pH | 8.97 | Std. Units | | 0.10 | 1 | 12/07/22 08:30 | 12/07/22 10:24 | | H3 |
| Wet Chemistry 9050AMod | | | | | | | | | |
| Analytical Method: EPA 9050 Preparation Method: 9050A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 829 | umhos/cm | 10.0 | 10.0 | 1 | 12/07/22 09:00 | 12/07/22 11:40 | | |
| Calculated Results | | | | | | | | | |
| Analytical Method: Calculated Preparation Method: Calc | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 1.27 | | | | 1 | 12/15/22 12:19 | 12/15/22 12:19 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP2 4' **Lab ID: 60416937004** Collected: 12/01/22 09:35 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | ND | mg/kg | 24.6 | 5.5 | 1 | 12/05/22 15:33 | 12/07/22 01:03 | | |
| TPH-DRO (C10-C28) | ND | mg/kg | 12.3 | 5.5 | 1 | 12/05/22 15:33 | 12/07/22 01:03 | | CH |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 86 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/07/22 01:03 | 646-31-1 | |
| p-Terphenyl (S) | 77 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/07/22 01:03 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | 1.9J | mg/kg | 14.0 | 1.7 | 1 | 12/08/22 10:11 | 12/08/22 20:41 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 20:41 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 1160 | ug/L | 400 | 33.4 | 2 | 12/09/22 17:57 | 12/16/22 13:26 | 7440-42-8H | |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 178 | mg/kg | 0.42 | 0.084 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7440-39-3 | |
| Cadmium | 0.60 | mg/kg | 0.42 | 0.061 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7440-43-9 | |
| Copper | 13.3 | mg/kg | 1.7 | 0.35 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7440-50-8 | |
| Lead | 11.4 | mg/kg | 0.85 | 0.25 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7439-92-1 | |
| Nickel | 12.6 | mg/kg | 0.42 | 0.21 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7440-02-0 | |
| Selenium | 0.58J | mg/kg | 1.3 | 0.26 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.59 | 0.092 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7440-22-4 | |
| Zinc | 45.9 | mg/kg | 8.5 | 0.18 | 1 | 12/07/22 14:03 | 12/14/22 19:51 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 7.3 | mg/kg | 0.85 | 0.19 | 10 | 12/07/22 14:03 | 12/15/22 16:43 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0041 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 83-32-9 | |
| Anthracene | ND | mg/kg | 0.0041 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0041 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 56-55-3 | |
| Benzo(a)pyrene | 0.0022J | mg/kg | 0.0041 | 0.0017 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0041 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0041 | 0.0023 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0041 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0041 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 53-70-3 | |
| Fluoranthene | 0.0032J | mg/kg | 0.0041 | 0.0028 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0041 | 0.0026 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0041 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP2 4' **Lab ID: 60416937004** Collected: 12/01/22 09:35 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0041 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0041 | 0.0025 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0041 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 91-20-3 | |
| Pyrene | 0.0027J | mg/kg | 0.0041 | 0.0027 | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 58 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 321-60-8 | |
| Terphenyl-d14 (S) | 66 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 12:34 | 1718-51-0 | |
| 8260C MSV 5035A Low Level | | | | | | | | | |
| Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.0011J | mg/kg | 0.0073 | 0.00067 | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0073 | 0.0013 | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.029 | 0.0065 | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0073 | 0.0010 | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0073 | 0.00064 | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.022 | 0.0054 | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 110 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 99 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 14:39 | 2199-69-1 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 19.2 | % | 0.50 | 0.50 | 1 | | 12/05/22 13:59 | | |
| Total Solids 2540 G-2011 | | | | | | | | | |
| Analytical Method: SM 2540G Preparation Method: SM 2540 G | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 81.0 | % | | | 1 | 12/07/22 15:25 | 12/07/22 15:40 | | |
| Wet Chemistry 7199 | | | | | | | | | |
| Analytical Method: EPA 7199 Preparation Method: 3060A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 1.23 | 0.315 | 1 | 12/07/22 01:10 | 12/08/22 05:03 | 18540-29-9 | |
| Wet Chemistry 9045D | | | | | | | | | |
| Analytical Method: EPA 9045D Preparation Method: 9045C/9045D | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| pH | 8.82 | Std. Units | | 0.10 | 1 | 12/08/22 13:00 | 12/08/22 15:10 | | H3 |
| Wet Chemistry 9050AMod | | | | | | | | | |
| Analytical Method: EPA 9050 Preparation Method: 9050A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 1710 | umhos/cm | 10.0 | 10.0 | 1 | 12/07/22 09:00 | 12/07/22 11:40 | | |
| Calculated Results | | | | | | | | | |
| Analytical Method: Calculated Preparation Method: Calc | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 19.0 | | | | 1 | 12/15/22 23:59 | 12/15/22 23:59 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP3 **Lab ID: 60416937005** Collected: 12/01/22 09:45 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | 28.2 | mg/kg | 22.2 | 5.0 | 1 | 12/05/22 15:33 | 12/07/22 19:38 | | |
| TPH-DRO (C10-C28) | 36.4 | mg/kg | 11.1 | 5.0 | 1 | 12/05/22 15:33 | 12/07/22 19:38 | | B |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 104 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/07/22 19:38 | 646-31-1 | |
| p-Terphenyl (S) | 89 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/07/22 19:38 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | ND | mg/kg | 12.1 | 1.5 | 1 | 12/08/22 10:11 | 12/08/22 21:28 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 93 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 21:28 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 1410 | ug/L | 200 | 16.7 | 1 | 12/09/22 17:57 | 12/16/22 13:32 | 7440-42-8H | |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 554 | mg/kg | 0.50 | 0.099 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7440-39-3 | |
| Cadmium | 0.58 | mg/kg | 0.50 | 0.072 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7440-43-9 | |
| Copper | 13.8 | mg/kg | 2.0 | 0.41 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7440-50-8 | |
| Lead | 12.7 | mg/kg | 1.0 | 0.29 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7439-92-1 | |
| Nickel | 12.4 | mg/kg | 0.50 | 0.25 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7440-02-0 | |
| Selenium | 0.34J | mg/kg | 1.5 | 0.31 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.70 | 0.11 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7440-22-4 | |
| Zinc | 45.2 | mg/kg | 10 | 0.21 | 1 | 12/07/22 14:03 | 12/14/22 20:00 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 7.6 | mg/kg | 1.0 | 0.23 | 10 | 12/07/22 14:03 | 12/15/22 16:45 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0036 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 83-32-9 | |
| Anthracene | ND | mg/kg | 0.0036 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0036 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0036 | 0.0015 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0036 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0036 | 0.0020 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 207-08-9 | |
| Chrysene | 0.0024J | mg/kg | 0.0036 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0036 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 53-70-3 | |
| Fluoranthene | 0.0025J | mg/kg | 0.0036 | 0.0025 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0036 | 0.0023 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0036 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1

Pace Project No.: 60416937

Sample: SP3 **Lab ID: 60416937005** Collected: 12/01/22 09:45 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0036 | 0.0017 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0036 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0036 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 91-20-3 | |
| Pyrene | 0.0024J | mg/kg | 0.0036 | 0.0024 | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 76 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 321-60-8 | |
| Terphenyl-d14 (S) | 89 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 12:52 | 1718-51-0 | |
| 8260C MSV 5035A Low Level | | | | | | | | | |
| Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.00091J | mg/kg | 0.0064 | 0.00058 | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0064 | 0.0011 | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.025 | 0.0057 | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0064 | 0.00088 | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0064 | 0.00055 | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.019 | 0.0047 | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 110 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 100 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 14:58 | 2199-69-1 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 12.2 | % | 0.50 | 0.50 | 1 | | 12/05/22 13:59 | | |
| Total Solids 2540 G-2011 | | | | | | | | | |
| Analytical Method: SM 2540G Preparation Method: SM 2540 G | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 89.9 | % | | | 1 | 12/07/22 15:25 | 12/07/22 15:40 | | |
| Wet Chemistry 7199 | | | | | | | | | |
| Analytical Method: EPA 7199 Preparation Method: 3060A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 1.11 | 0.284 | 1 | 12/07/22 01:10 | 12/08/22 05:08 | 18540-29-9 | |
| Wet Chemistry 9045D | | | | | | | | | |
| Analytical Method: EPA 9045D Preparation Method: 9045C/9045D | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| pH | 7.59 | Std. Units | | 0.10 | 1 | 12/08/22 13:00 | 12/08/22 15:10 | | H3 |
| Wet Chemistry 9050AMod | | | | | | | | | |
| Analytical Method: EPA 9050 Preparation Method: 9050A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 15100 | umhos/cm | 10.0 | 10.0 | 1 | 12/07/22 09:00 | 12/07/22 11:40 | | |
| Calculated Results | | | | | | | | | |
| Analytical Method: Calculated Preparation Method: Calc | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 18.4 | | | | 1 | 12/16/22 00:02 | 12/16/22 00:02 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP4 **Lab ID: 60416937006** Collected: 12/01/22 09:30 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | 69.8 | mg/kg | 20.3 | 4.5 | 1 | 12/05/22 15:33 | 12/07/22 19:47 | | |
| TPH-DRO (C10-C28) | 487 | mg/kg | 10.1 | 4.5 | 1 | 12/05/22 15:33 | 12/07/22 19:47 | | |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 83 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/07/22 19:47 | 646-31-1 | |
| p-Terphenyl (S) | 73 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/07/22 19:47 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.7 | 1.3 | 1 | 12/08/22 10:11 | 12/08/22 21:44 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 91 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 21:44 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 340 | ug/L | 200 | 16.7 | 1 | 12/09/22 17:57 | 12/16/22 13:35 | 7440-42-8H | |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 164 | mg/kg | 0.52 | 0.10 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7440-39-3 | |
| Cadmium | 0.52J | mg/kg | 0.52 | 0.076 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7440-43-9 | |
| Copper | 11.7 | mg/kg | 2.1 | 0.43 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7440-50-8 | |
| Lead | 12.8 | mg/kg | 1.0 | 0.30 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7439-92-1 | |
| Nickel | 11.1 | mg/kg | 0.52 | 0.26 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7440-02-0 | |
| Selenium | 0.49J | mg/kg | 1.6 | 0.32 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.73 | 0.11 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7440-22-4 | |
| Zinc | 42.2 | mg/kg | 10.4 | 0.22 | 1 | 12/07/22 14:03 | 12/14/22 20:02 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 6.9 | mg/kg | 1.0 | 0.24 | 10 | 12/07/22 14:03 | 12/15/22 16:50 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 83-32-9 | |
| Anthracene | 0.0031J | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0034 | 0.0014 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 53-70-3 | |
| Fluoranthene | ND | mg/kg | 0.0034 | 0.0023 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP4 **Lab ID: 60416937006** Collected: 12/01/22 09:30 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0016 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0034 | 0.0017 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 91-20-3 | |
| Pyrene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 75 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 321-60-8 | |
| Terphenyl-d14 (S) | 79 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 13:10 | 1718-51-0 | |
| 8260C MSV 5035A Low Level Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.0012J | mg/kg | 0.0057 | 0.00052 | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0057 | 0.00098 | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.023 | 0.0050 | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0057 | 0.00078 | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0057 | 0.00049 | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.017 | 0.0042 | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 110 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 99 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 15:18 | 2199-69-1 | |
| Percent Moisture Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 6.1 | % | 0.50 | 0.50 | 1 | | 12/05/22 14:00 | | |
| Total Solids 2540 G-2011 Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 94.1 | % | | | 1 | 12/07/22 15:25 | 12/07/22 15:40 | | |
| Wet Chemistry 7199 Analytical Method: EPA 7199 Preparation Method: 3060A Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | 0.276J | mg/kg | 1.06 | 0.271 | 1 | 12/07/22 01:10 | 12/08/22 05:14 | 18540-29-9 | J |
| Wet Chemistry 9045D Analytical Method: EPA 9045D Preparation Method: 9045C/9045D Pace National - Mt. Juliet | | | | | | | | | |
| pH | 7.81 | Std. Units | | 0.10 | 1 | 12/08/22 13:00 | 12/08/22 15:10 | | H3 |
| Wet Chemistry 9050AMod Analytical Method: EPA 9050 Preparation Method: 9050A Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 1680 | umhos/cm | 10.0 | 10.0 | 1 | 12/07/22 09:00 | 12/07/22 11:40 | | |
| Calculated Results Analytical Method: Calculated Preparation Method: Calc Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 7.45 | | | | 1 | 12/16/22 00:05 | 12/16/22 00:05 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP5 **Lab ID: 60416937007** Collected: 12/01/22 08:50 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|--------------|-------|--------------|--------|----|----------------|----------------|------------|------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | ND | mg/kg | 20.7 | 4.6 | 1 | 12/05/22 15:33 | 12/19/22 15:12 | | |
| TPH-DRO (C10-C28) | 8.2J | mg/kg | 10.3 | 4.6 | 1 | 12/05/22 15:33 | 12/19/22 15:12 | | B |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 73 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/19/22 15:12 | 646-31-1 | |
| p-Terphenyl (S) | 78 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/19/22 15:12 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.5 | 1.3 | 1 | 12/08/22 10:11 | 12/08/22 22:00 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 22:00 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 570 | ug/L | 200 | 16.7 | 1 | 12/09/22 17:57 | 12/16/22 13:43 | 7440-42-8H | |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 170 | mg/kg | 0.38 | 0.075 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7440-39-3 | |
| Cadmium | 0.55 | mg/kg | 0.38 | 0.055 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7440-43-9 | |
| Copper | 13.3 | mg/kg | 1.5 | 0.31 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7440-50-8 | |
| Lead | 11.2 | mg/kg | 0.76 | 0.22 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7439-92-1 | |
| Nickel | 12.3 | mg/kg | 0.38 | 0.19 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7440-02-0 | |
| Selenium | 0.50J | mg/kg | 1.1 | 0.23 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.53 | 0.082 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7440-22-4 | |
| Zinc | 47.5 | mg/kg | 7.6 | 0.16 | 1 | 12/07/22 14:03 | 12/14/22 20:04 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 7.7 | mg/kg | 0.76 | 0.17 | 10 | 12/07/22 14:03 | 12/15/22 16:53 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 83-32-9 | |
| Anthracene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0034 | 0.0014 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 53-70-3 | |
| Fluoranthene | ND | mg/kg | 0.0034 | 0.0024 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP5 **Lab ID: 60416937007** Collected: 12/01/22 08:50 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|-----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0016 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0034 | 0.0017 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 91-20-3 | |
| Pyrene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 64 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 321-60-8 | |
| Terphenyl-d14 (S) | 77 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 13:28 | 1718-51-0 | |
| 8260C MSV 5035A Low Level | | | | | | | | | |
| Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.00078J | mg/kg | 0.0055 | 0.00050 | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0055 | 0.00095 | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.022 | 0.0049 | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0055 | 0.00076 | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0055 | 0.00048 | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.016 | 0.0040 | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 110 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 104 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 100 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 15:38 | 2199-69-1 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 5.5 | % | 0.50 | 0.50 | 1 | | 12/05/22 14:00 | | |
| Total Solids 2540 G-2011 | | | | | | | | | |
| Analytical Method: SM 2540G Preparation Method: SM 2540 G | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 31.3 | % | | | 1 | 12/07/22 15:10 | 12/07/22 15:24 | | |
| Wet Chemistry 7199 | | | | | | | | | |
| Analytical Method: EPA 7199 Preparation Method: 3060A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 3.20 | 0.815 | 1 | 12/07/22 01:10 | 12/08/22 05:19 | 18540-29-9 | |
| Wet Chemistry 9045D | | | | | | | | | |
| Analytical Method: EPA 9045D Preparation Method: 9045C/9045D | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| pH | 7.97 | Std. Units | | 0.10 | 1 | 12/08/22 13:00 | 12/08/22 15:10 | | H3 |
| Wet Chemistry 9050AMod | | | | | | | | | |
| Analytical Method: EPA 9050 Preparation Method: 9050A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 1420 | umhos/cm | 10.0 | 10.0 | 1 | 12/10/22 11:00 | 12/13/22 08:10 | | |
| Calculated Results | | | | | | | | | |
| Analytical Method: Calculated Preparation Method: Calc | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 1.94 | | | | 1 | 12/16/22 00:08 | 12/16/22 00:08 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP6 **Lab ID: 60416937008** Collected: 12/01/22 09:10 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------------|--------|----|----------------|----------------|------------|------|
| 8015B Diesel Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-RRO (C28-C36) | 5.2J | mg/kg | 20.3 | 4.5 | 1 | 12/05/22 15:33 | 12/19/22 15:20 | | |
| TPH-DRO (C10-C28) | ND | mg/kg | 10.1 | 4.5 | 1 | 12/05/22 15:33 | 12/19/22 15:20 | | |
| Surrogates | | | | | | | | | |
| n-Tetracosane (S) | 70 | % | 31-152 | | 1 | 12/05/22 15:33 | 12/19/22 15:20 | 646-31-1 | |
| p-Terphenyl (S) | 75 | % | 46-130 | | 1 | 12/05/22 15:33 | 12/19/22 15:20 | 92-94-4 | |
| Gasoline Range Organics | | | | | | | | | |
| Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.6 | 1.3 | 1 | 12/08/22 10:11 | 12/08/22 22:16 | | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 66-130 | | 1 | 12/08/22 10:11 | 12/08/22 22:16 | 460-00-4 | |
| Metals (ICP) 6010B-NE493 Ch 2 | | | | | | | | | |
| Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Boron, Hot Water Soluble | 319 | ug/L | 200 | 16.7 | 1 | 12/09/22 17:57 | 12/16/22 13:46 | 7440-42-8H | |
| 6010 MET ICP Red. Interference | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Barium | 174 | mg/kg | 0.41 | 0.081 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7440-39-3 | |
| Cadmium | 0.51 | mg/kg | 0.41 | 0.059 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7440-43-9 | |
| Copper | 12.3 | mg/kg | 1.6 | 0.34 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7440-50-8 | |
| Lead | 9.8 | mg/kg | 0.82 | 0.24 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7439-92-1 | |
| Nickel | 11.7 | mg/kg | 0.41 | 0.20 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7440-02-0 | |
| Selenium | 0.52J | mg/kg | 1.2 | 0.25 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.57 | 0.088 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7440-22-4 | |
| Zinc | 37.4 | mg/kg | 8.2 | 0.17 | 1 | 12/07/22 14:03 | 12/14/22 20:06 | 7440-66-6 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020 Preparation Method: EPA 3050 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Arsenic | 6.7 | mg/kg | 0.82 | 0.19 | 10 | 12/07/22 14:03 | 12/15/22 16:55 | 7440-38-2 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Acenaphthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 83-32-9 | |
| Anthracene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 120-12-7 | |
| Benzo(a)anthracene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 56-55-3 | |
| Benzo(a)pyrene | ND | mg/kg | 0.0034 | 0.0014 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 205-99-2 | |
| Benzo(k)fluoranthene | ND | mg/kg | 0.0034 | 0.0019 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 207-08-9 | |
| Chrysene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 53-70-3 | |
| Fluoranthene | ND | mg/kg | 0.0034 | 0.0024 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 206-44-0 | |
| Fluorene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 193-39-5 | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: MAUER 915-1
Pace Project No.: 60416937

Sample: SP6 **Lab ID: 60416937008** Collected: 12/01/22 09:10 Received: 12/02/22 10:57 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|--|----------------|------------|--------------|---------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| 1-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0017 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 90-12-0 | |
| 2-Methylnaphthalene | ND | mg/kg | 0.0034 | 0.0021 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 91-57-6 | |
| Naphthalene | ND | mg/kg | 0.0034 | 0.0018 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 91-20-3 | |
| Pyrene | ND | mg/kg | 0.0034 | 0.0022 | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 71 | % | 40-120 | | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 321-60-8 | |
| Terphenyl-d14 (S) | 87 | % | 45-130 | | 1 | 12/05/22 15:35 | 12/09/22 13:46 | 1718-51-0 | |
| 8260C MSV 5035A Low Level | | | | | | | | | |
| Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Benzene | 0.0010J | mg/kg | 0.0055 | 0.00050 | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0055 | 0.00095 | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.022 | 0.0049 | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 108-88-3 | |
| 1,2,4-Trimethylbenzene | ND | mg/kg | 0.0055 | 0.00076 | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | mg/kg | 0.0055 | 0.00048 | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 108-67-8 | |
| Xylene (Total) | ND | mg/kg | 0.016 | 0.0040 | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 110 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 103 | % | 83-119 | | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 460-00-4 | |
| 1,2-Dichlorobenzene-d4 (S) | 98 | % | 80-120 | | 1 | 12/05/22 11:13 | 12/05/22 15:57 | 2199-69-1 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974 | | | | | | | | | |
| Pace Analytical Services - Kansas City | | | | | | | | | |
| Percent Moisture | 5.6 | % | 0.50 | 0.50 | 1 | | 12/05/22 14:00 | | |
| Total Solids 2540 G-2011 | | | | | | | | | |
| Analytical Method: SM 2540G Preparation Method: SM 2540 G | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Total Solids | 94.5 | % | | | 1 | 12/07/22 15:10 | 12/07/22 15:24 | | |
| Wet Chemistry 7199 | | | | | | | | | |
| Analytical Method: EPA 7199 Preparation Method: 3060A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 1.06 | 0.270 | 1 | 12/07/22 01:10 | 12/08/22 05:24 | 18540-29-9 | |
| Wet Chemistry 9045D | | | | | | | | | |
| Analytical Method: EPA 9045D Preparation Method: 9045C/9045D | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| pH | 8.88 | Std. Units | | 0.10 | 1 | 12/08/22 13:00 | 12/08/22 15:10 | | H3 |
| Wet Chemistry 9050AMod | | | | | | | | | |
| Analytical Method: EPA 9050 Preparation Method: 9050A | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Specific Conductance @ 25 C | 479 | umhos/cm | 10.0 | 10.0 | 1 | 12/10/22 11:00 | 12/13/22 08:10 | | |
| Calculated Results | | | | | | | | | |
| Analytical Method: Calculated Preparation Method: Calc | | | | | | | | | |
| Pace National - Mt. Juliet | | | | | | | | | |
| Sodium Adsorption Ratio | 3.75 | | | | 1 | 12/16/22 00:10 | 12/16/22 00:10 | SAR | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 821854 | Analysis Method: | EPA 8015B |
| QC Batch Method: | EPA 5035A/5030B | Analysis Description: | Gasoline Range Organics |
| | | Laboratory: | Pace Analytical Services - Kansas City |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 3267110 | Matrix: | Solid |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|-----|----------------|------------|
| TPH-GRO | mg/kg | 1.4J | 10.0 | 1.2 | 12/08/22 18:51 | |
| 4-Bromofluorobenzene (S) | % | 98 | 66-130 | | 12/08/22 18:51 | |

| LABORATORY CONTROL SAMPLE: 3267111 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| TPH-GRO | mg/kg | 50 | 48.4 | 97 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 66-130 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267112 3267113 | | | | | | | | | | | | |
|--|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter | Units | 60416937003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| TPH-GRO | mg/kg | ND | 66.3 | 66.3 | 64.3 | 64.5 | 95 | 96 | 70-130 | 0 | 25 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 95 | 96 | 66-130 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|-------------------------------|
| QC Batch: | 1972178 | Analysis Method: | 6010B-NE493 Ch 2 |
| QC Batch Method: | HWS Boron | Analysis Description: | Metals (ICP) 6010B-NE493 Ch 2 |
| | | Laboratory: | Pace National - Mt. Juliet |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | R3872801-1 | Matrix: | Solid |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|------|----------------|------------|
| Boron, Hot Water Soluble | ug/L | ND | 200 | 16.7 | 12/16/22 13:09 | |

| LABORATORY CONTROL SAMPLE & LCSD: | | | R3872801-2 | | R3872801-3 | | | | | | |
|-----------------------------------|-------|-------------|------------|-------------|------------|------------|--------------|-------|---------|------------|--|
| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers | |
| Boron, Hot Water Soluble | ug/L | 1000 | 1020 | 1020 | 102 | 102 | 80.0-120 | 0.244 | 20 | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 821838 | Analysis Method: | EPA 6010 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6010 MET |
| | | Laboratory: | Pace Analytical Services - Kansas City |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 3267045 | Matrix: | Solid |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Barium | mg/kg | ND | 0.50 | 0.099 | 12/14/22 19:34 | |
| Cadmium | mg/kg | ND | 0.50 | 0.072 | 12/14/22 19:34 | |
| Copper | mg/kg | ND | 2.0 | 0.41 | 12/14/22 19:34 | |
| Lead | mg/kg | ND | 1.0 | 0.29 | 12/14/22 19:34 | |
| Nickel | mg/kg | ND | 0.50 | 0.25 | 12/14/22 19:34 | |
| Selenium | mg/kg | ND | 1.5 | 0.31 | 12/14/22 19:34 | |
| Silver | mg/kg | ND | 0.70 | 0.11 | 12/14/22 19:34 | |
| Zinc | mg/kg | 0.31J | 10.0 | 0.21 | 12/14/22 19:34 | |

LABORATORY CONTROL SAMPLE: 3267046

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Barium | mg/kg | 100 | 94.1 | 94 | 80-120 | |
| Cadmium | mg/kg | 100 | 91.5 | 92 | 80-120 | |
| Copper | mg/kg | 100 | 90.2 | 90 | 80-120 | |
| Lead | mg/kg | 100 | 90.2 | 90 | 80-120 | |
| Nickel | mg/kg | 100 | 91.8 | 92 | 80-120 | |
| Selenium | mg/kg | 100 | 85.7 | 86 | 80-120 | |
| Silver | mg/kg | 50 | 44.5 | 89 | 80-120 | |
| Zinc | mg/kg | 100 | 86.9 | 87 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267047 3267048

| Parameter | Units | 60416937001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|--------|
| Barium | mg/kg | 177 | 80.6 | 81.9 | 243 | 302 | 83 | 154 | 75-125 | 22 | 20 | M1, R1 |
| Cadmium | mg/kg | 0.29J | 80.6 | 81.9 | 66.4 | 68.4 | 82 | 83 | 75-125 | 3 | 20 | |
| Copper | mg/kg | 6.3 | 80.6 | 81.9 | 75.9 | 77.2 | 86 | 87 | 75-125 | 2 | 20 | |
| Lead | mg/kg | 6.6 | 80.6 | 81.9 | 71.2 | 73.1 | 80 | 81 | 75-125 | 3 | 20 | |
| Nickel | mg/kg | 7.1 | 80.6 | 81.9 | 72.0 | 74.9 | 80 | 83 | 75-125 | 4 | 20 | |
| Selenium | mg/kg | 0.34J | 80.6 | 81.9 | 59.7 | 62.3 | 74 | 76 | 75-125 | 4 | 20 | M1 |
| Silver | mg/kg | ND | 40.3 | 41 | 31.4 | 32.3 | 78 | 79 | 75-125 | 3 | 20 | |
| Zinc | mg/kg | 23.6 | 80.6 | 81.9 | 85.5 | 90.7 | 77 | 82 | 75-125 | 6 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 821837 | Analysis Method: | EPA 6020 |
| QC Batch Method: | EPA 3050 | Analysis Description: | 6020 MET |
| | | Laboratory: | Pace Analytical Services - Kansas City |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 3267039 | Matrix: | Solid |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|------|----------------|------------|
| Arsenic | mg/kg | ND | 1.0 | 0.23 | 12/15/22 16:23 | |

| LABORATORY CONTROL SAMPLE: 3267040 | | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Arsenic | mg/kg | 100 | 90.7 | 91 | 80-120 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 821391 | Analysis Method: | EPA 8260C |
| QC Batch Method: | EPA 5035A/5030B | Analysis Description: | 8260C MSV 5035A Low Level |
| | | Laboratory: | Pace Analytical Services - Kansas City |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

METHOD BLANK: 3265464

Matrix: Solid

Associated Lab Samples: 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------------------|-------|--------------|-----------------|---------|----------------|------------|
| 1,2,4-Trimethylbenzene | mg/kg | ND | 0.0050 | 0.00069 | 12/05/22 12:59 | |
| 1,3,5-Trimethylbenzene | mg/kg | ND | 0.0050 | 0.00043 | 12/05/22 12:59 | |
| Benzene | mg/kg | ND | 0.0050 | 0.00046 | 12/05/22 12:59 | |
| Ethylbenzene | mg/kg | ND | 0.0050 | 0.00087 | 12/05/22 12:59 | |
| Toluene | mg/kg | ND | 0.020 | 0.0044 | 12/05/22 12:59 | |
| Xylene (Total) | mg/kg | ND | 0.015 | 0.0037 | 12/05/22 12:59 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 99 | 80-120 | | 12/05/22 12:59 | |
| 4-Bromofluorobenzene (S) | % | 105 | 83-119 | | 12/05/22 12:59 | |
| Toluene-d8 (S) | % | 111 | 80-120 | | 12/05/22 12:59 | |

LABORATORY CONTROL SAMPLE: 3265465

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,2,4-Trimethylbenzene | mg/kg | 1.2 | 1.2 | 98 | 79-121 | |
| 1,3,5-Trimethylbenzene | mg/kg | 1.2 | 1.2 | 97 | 81-122 | |
| Benzene | mg/kg | 1.2 | 1.1 | 91 | 67-126 | |
| Ethylbenzene | mg/kg | 1.2 | 1.2 | 93 | 69-127 | |
| Toluene | mg/kg | 1.2 | 1.1 | 88 | 80-118 | |
| Xylene (Total) | mg/kg | 3.8 | 3.6 | 95 | 69-130 | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | 99 | 80-120 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 83-119 | |
| Toluene-d8 (S) | % | | | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3265466 3265467

| Parameter | Units | 60416937008 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,2,4-Trimethylbenzene | mg/kg | ND | 1.4 | 1.4 | 1.3 | 1.4 | 94 | 101 | 10-124 | 8 | 68 | |
| 1,3,5-Trimethylbenzene | mg/kg | ND | 1.4 | 1.4 | 1.3 | 1.4 | 92 | 100 | 10-125 | 8 | 65 | |
| Benzene | mg/kg | 0.0010J | 1.4 | 1.4 | 1.2 | 1.3 | 88 | 93 | 17-134 | 6 | 53 | |
| Ethylbenzene | mg/kg | ND | 1.4 | 1.4 | 1.2 | 1.3 | 91 | 96 | 10-137 | 6 | 60 | |
| Toluene | mg/kg | ND | 1.4 | 1.4 | 1.2 | 1.2 | 85 | 90 | 13-131 | 6 | 60 | |
| Xylene (Total) | mg/kg | ND | 4.1 | 4.1 | 3.8 | 4.0 | 92 | 97 | 10-137 | 5 | 58 | |
| 1,2-Dichlorobenzene-d4 (S) | % | | | | | | 99 | 100 | 80-120 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 101 | 100 | 83-119 | | | |
| Toluene-d8 (S) | % | | | | | | 95 | 95 | 80-120 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 821387 | Analysis Method: | EPA 8015B |
| QC Batch Method: | EPA 3546 | Analysis Description: | EPA 8015B |
| | | Laboratory: | Pace Analytical Services - Kansas City |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | 3265442 | Matrix: | Solid |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-------------------|-------|--------------|-----------------|-----|----------------|------------|
| TPH-DRO (C10-C28) | mg/kg | 9.8 | 9.5 | 4.3 | 12/10/22 18:47 | |
| TPH-RRO (C28-C36) | mg/kg | ND | 19.0 | 4.3 | 12/10/22 18:47 | |
| n-Tetracosane (S) | % | 87 | 31-152 | | 12/10/22 18:47 | |
| p-Terphenyl (S) | % | 78 | 46-130 | | 12/10/22 18:47 | |

LABORATORY CONTROL SAMPLE: 3265443

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| TPH-DRO (C10-C28) | mg/kg | 79.6 | 80.2 | 101 | 74-124 | |
| n-Tetracosane (S) | % | | | 90 | 31-152 | |
| p-Terphenyl (S) | % | | | 80 | 46-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3265444 3265445

| Parameter | Units | 60416937001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| TPH-DRO (C10-C28) | mg/kg | 21.4 | 82.1 | 83.9 | 108 | 108 | 105 | 103 | 30-130 | 0 | 35 | |
| n-Tetracosane (S) | % | | | | | | 105 | 103 | 31-152 | | | |
| p-Terphenyl (S) | % | | | | | | 90 | 87 | 46-130 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|--|
| QC Batch: | 821386 | Analysis Method: | EPA 8270 by SIM |
| QC Batch Method: | EPA 3546 | Analysis Description: | 8270/3546 MSSV PAH by SIM |
| | | Laboratory: | Pace Analytical Services - Kansas City |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

METHOD BLANK: 3265438

Matrix: Solid

Associated Lab Samples: 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|--------|----------------|------------|
| 1-Methylnaphthalene | mg/kg | ND | 0.0031 | 0.0015 | 12/09/22 09:51 | |
| 2-Methylnaphthalene | mg/kg | ND | 0.0031 | 0.0019 | 12/09/22 09:51 | |
| Acenaphthene | mg/kg | ND | 0.0031 | 0.0017 | 12/09/22 09:51 | |
| Anthracene | mg/kg | ND | 0.0031 | 0.0016 | 12/09/22 09:51 | |
| Benzo(a)anthracene | mg/kg | ND | 0.0031 | 0.0017 | 12/09/22 09:51 | |
| Benzo(a)pyrene | mg/kg | ND | 0.0031 | 0.0013 | 12/09/22 09:51 | |
| Benzo(b)fluoranthene | mg/kg | ND | 0.0031 | 0.0017 | 12/09/22 09:51 | |
| Benzo(k)fluoranthene | mg/kg | ND | 0.0031 | 0.0018 | 12/09/22 09:51 | |
| Chrysene | mg/kg | ND | 0.0031 | 0.0017 | 12/09/22 09:51 | |
| Dibenz(a,h)anthracene | mg/kg | ND | 0.0031 | 0.0017 | 12/09/22 09:51 | |
| Fluoranthene | mg/kg | ND | 0.0031 | 0.0022 | 12/09/22 09:51 | |
| Fluorene | mg/kg | ND | 0.0031 | 0.0020 | 12/09/22 09:51 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | ND | 0.0031 | 0.0016 | 12/09/22 09:51 | |
| Naphthalene | mg/kg | ND | 0.0031 | 0.0016 | 12/09/22 09:51 | |
| Pyrene | mg/kg | ND | 0.0031 | 0.0021 | 12/09/22 09:51 | |
| 2-Fluorobiphenyl (S) | % | 75 | 40-120 | | 12/09/22 09:51 | |
| Terphenyl-d14 (S) | % | 85 | 45-130 | | 12/09/22 09:51 | |

LABORATORY CONTROL SAMPLE: 3265439

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1-Methylnaphthalene | mg/kg | 0.032 | 0.019 | 58 | 55-120 | |
| 2-Methylnaphthalene | mg/kg | 0.032 | 0.019 | 59 | 55-120 | |
| Acenaphthene | mg/kg | 0.032 | 0.020 | 62 | 45-120 | |
| Anthracene | mg/kg | 0.032 | 0.021 | 66 | 50-120 | |
| Benzo(a)anthracene | mg/kg | 0.032 | 0.020 | 62 | 55-125 | |
| Benzo(a)pyrene | mg/kg | 0.032 | 0.019 | 58 | 45-120 | |
| Benzo(b)fluoranthene | mg/kg | 0.032 | 0.020 | 64 | 50-125 | |
| Benzo(k)fluoranthene | mg/kg | 0.032 | 0.023 | 70 | 55-120 | |
| Chrysene | mg/kg | 0.032 | 0.020 | 63 | 55-120 | |
| Dibenz(a,h)anthracene | mg/kg | 0.032 | 0.020 | 61 | 40-125 | |
| Fluoranthene | mg/kg | 0.032 | 0.022 | 70 | 50-125 | |
| Fluorene | mg/kg | 0.032 | 0.019 | 60 | 50-120 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.032 | 0.022 | 67 | 44-125 | |
| Naphthalene | mg/kg | 0.032 | 0.018 | 57 | 45-120 | |
| Pyrene | mg/kg | 0.032 | 0.022 | 69 | 50-125 | |
| 2-Fluorobiphenyl (S) | % | | | 61 | 40-120 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

LABORATORY CONTROL SAMPLE: 3265439

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-------------------|-------|-------------|------------|-----------|--------------|------------|
| Terphenyl-d14 (S) | % | | | 67 | 45-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3265440 3265441

| Parameter | Units | 60416935001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1-Methylnaphthalene | mg/kg | ND | 0.037 | 0.037 | 0.025 | 0.019 | 68 | 51 | 50-145 | 30 | 61 | |
| 2-Methylnaphthalene | mg/kg | ND | 0.037 | 0.037 | 0.026 | 0.019 | 71 | 52 | 50-120 | 31 | 61 | |
| Acenaphthene | mg/kg | ND | 0.037 | 0.037 | 0.028 | 0.020 | 75 | 55 | 10-150 | 31 | 42 | |
| Anthracene | mg/kg | ND | 0.037 | 0.037 | 0.030 | 0.022 | 81 | 60 | 10-160 | 29 | 54 | |
| Benzo(a)anthracene | mg/kg | ND | 0.037 | 0.037 | 0.029 | 0.021 | 78 | 58 | 10-160 | 29 | 62 | |
| Benzo(a)pyrene | mg/kg | ND | 0.037 | 0.037 | 0.027 | 0.020 | 73 | 54 | 10-150 | 29 | 66 | |
| Benzo(b)fluoranthene | mg/kg | ND | 0.037 | 0.037 | 0.030 | 0.022 | 81 | 60 | 10-165 | 30 | 61 | |
| Benzo(k)fluoranthene | mg/kg | ND | 0.037 | 0.037 | 0.029 | 0.022 | 77 | 60 | 10-165 | 25 | 53 | |
| Chrysene | mg/kg | ND | 0.037 | 0.037 | 0.029 | 0.022 | 78 | 58 | 10-150 | 29 | 57 | |
| Dibenz(a,h)anthracene | mg/kg | ND | 0.037 | 0.037 | 0.025 | 0.019 | 68 | 52 | 10-175 | 28 | 48 | |
| Fluoranthene | mg/kg | ND | 0.037 | 0.037 | 0.032 | 0.024 | 86 | 64 | 10-180 | 30 | 54 | |
| Fluorene | mg/kg | ND | 0.037 | 0.037 | 0.028 | 0.020 | 74 | 53 | 20-145 | 32 | 39 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | ND | 0.037 | 0.037 | 0.027 | 0.020 | 73 | 54 | 10-150 | 29 | 59 | |
| Naphthalene | mg/kg | ND | 0.037 | 0.037 | 0.026 | 0.019 | 70 | 50 | 10-165 | 33 | 54 | |
| Pyrene | mg/kg | ND | 0.037 | 0.037 | 0.032 | 0.024 | 87 | 64 | 10-180 | 30 | 61 | |
| 2-Fluorobiphenyl (S) | % | | | | | | 79 | 55 | 40-120 | | | |
| Terphenyl-d14 (S) | % | | | | | | 89 | 63 | 45-130 | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 821376

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008

METHOD BLANK: 3265408

Matrix: Solid

Associated Lab Samples: 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|------------------|-------|--------------|-----------------|------|----------------|------------|
| Percent Moisture | % | ND | 0.50 | 0.50 | 12/05/22 13:59 | |

SAMPLE DUPLICATE: 3265409

| Parameter | Units | 60416918001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|--------------------|------------|-----|---------|------------|
| Percent Moisture | % | 21.3 | 21.3 | 0 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1970364

Analysis Method: SM 2540G

QC Batch Method: SM 2540 G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006

METHOD BLANK: R3869539-1

Matrix: Solid

Associated Lab Samples: 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------|-------|--------------|-----------------|-----|----------------|------------|
| Total Solids | % | 0.00100 | | | 12/07/22 15:40 | |

LABORATORY CONTROL SAMPLE: R3869539-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Total Solids | % | 50.0 | 50.0 | 100 | 85.0-115 | |

SAMPLE DUPLICATE: R3869539-3

| Parameter | Units | 60416937003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------|-------|--------------------|------------|--------|---------|------------|
| Total Solids | % | 85.4 | 85.5 | 0.0496 | 10 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1970365

QC Batch Method: SM 2540 G

Analysis Method: SM 2540G

Analysis Description: Total Solids 2540 G-2011

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937007, 60416937008

METHOD BLANK: R3869536-1

Matrix: Solid

Associated Lab Samples: 60416937007, 60416937008

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------|-------|--------------|-----------------|-----|----------------|------------|
| Total Solids | % | 0.00200 | | | 12/07/22 15:24 | |

LABORATORY CONTROL SAMPLE: R3869536-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------|-------|-------------|------------|-----------|--------------|------------|
| Total Solids | % | 50.0 | 50.0 | 100 | 85.0-115 | |

SAMPLE DUPLICATE: R3869536-3

| Parameter | Units | L1564201-01 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------|-------|--------------------|------------|-------|---------|------------|
| Total Solids | % | 81.7 | 81.6 | 0.123 | 10 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

| | | | |
|-------------------------|--|-----------------------|----------------------------|
| QC Batch: | 1970335 | Analysis Method: | EPA 7199 |
| QC Batch Method: | 3060A | Analysis Description: | Wet Chemistry 7199 |
| | | Laboratory: | Pace National - Mt. Juliet |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| | | | |
|-------------------------|--|---------|-------|
| METHOD BLANK: | R3869445-1 | Matrix: | Solid |
| Associated Lab Samples: | 60416937001, 60416937002, 60416937003, 60416937004, 60416937005, 60416937006, 60416937007, 60416937008 | | |

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|----------------------|-------|--------------|-----------------|-------|----------------|------------|
| Chromium, Hexavalent | mg/kg | ND | 1.00 | 0.255 | 12/08/22 03:33 | |

| LABORATORY CONTROL SAMPLE: R3869445-2 | | | | | | |
|---------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Chromium, Hexavalent | mg/kg | 10.0 | 10.4 | 104 | 80.0-120 | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | | R3869445-5 | | | R3869445-6 | | | | | | | |
|--|-------|-------------|-------------|--------------|--------|------------|-------|-------|----------|--------|-----|-----|------|
| | | 60416937003 | MS Spike | MSD Spike | | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Chromium, Hexavalent | mg/kg | 0.354 | 23.4 | 23.4 | 18.4 | 20.3 | 77.1 | 85.2 | 75.0-125 | 9.77 | 20 | | |

| | | | | | | | |
|----------------------|-------|-----------------------|----------------|--------------|-------------|-----------------|------------|
| MATRIX SPIKE SAMPLE: | | R3869445-7 | | | | | |
| Parameter | Units | 60416937003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
| Chromium, Hexavalent | mg/kg | 0.354 | 744 | 732 | 98.3 | 75.0-125 | |

| SAMPLE DUPLICATE: R3869445-3 | | | | | | |
|------------------------------|-------|-----------------------|---------------|------|------------|------------|
| Parameter | Units | L1564125-01 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Chromium, Hexavalent | mg/kg | 0.441 | 0.562J | 24.2 | 20 | D8,J |

| SAMPLE DUPLICATE: R3869445-8 | | | | | | |
|------------------------------|-------|-----------------------|---------------|------|------------|------------|
| Parameter | Units | L1564201-01 Result | Dup Result | RPD | Max RPD | Qualifiers |
| Chromium, Hexavalent | mg/kg | ND | ND | 0.00 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1970169

Analysis Method: EPA 9045D

QC Batch Method: 9045C/9045D

Analysis Description: Wet Chemistry 9045D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937001, 60416937002, 60416937003

LABORATORY CONTROL SAMPLE: R3869038-1

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|------------|----------------|---------------|--------------|-----------------|------------|
| pH | Std. Units | 10.0 | 9.91 | 99.1 | 99.0-101 | |

SAMPLE DUPLICATE: R3869038-2

| Parameter | Units | L1564073-02 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|------------|-----------------------|---------------|-------|------------|------------|
| pH | Std. Units | 10.3 | 10.3 | 0.292 | 1 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1971123

Analysis Method: EPA 9045D

QC Batch Method: 9045C/9045D

Analysis Description: Wet Chemistry 9045D

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937004, 60416937005, 60416937006, 60416937007, 60416937008

LABORATORY CONTROL SAMPLE: R3869716-1

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|------------|-------------|------------|-----------|--------------|------------|
| pH | Std. Units | 10.0 | 9.90 | 99.0 | 99.0-101 | |

SAMPLE DUPLICATE: R3869716-2

| Parameter | Units | 60416937005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|------------|--------------------|------------|-------|---------|------------|
| pH | Std. Units | 7.59 | 7.57 | 0.264 | 1 | |

SAMPLE DUPLICATE: R3869716-3

| Parameter | Units | L1564541-02 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------|------------|--------------------|------------|-------|---------|------------|
| pH | Std. Units | 7.94 | 8.00 | 0.753 | 1 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1969809

Analysis Method: EPA 9050

QC Batch Method: EPA 9050

Analysis Description: Wet Chemistry 9050AMod

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937002, 60416937003, 60416937004, 60416937005, 60416937006

METHOD BLANK: R3869102-1

Matrix: Solid

Associated Lab Samples:

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------------------------|----------|--------------|-----------------|------|----------------|------------|
| Specific Conductance @ 25 C | umhos/cm | ND | 10.0 | 10.0 | 12/07/22 11:40 | |

LABORATORY CONTROL SAMPLE: R3869102-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|----------|-------------|------------|-----------|--------------|------------|
| Specific Conductance @ 25 C | umhos/cm | 1120 | 1090 | 97.5 | 85.0-115 | |

SAMPLE DUPLICATE: R3869102-3

| Parameter | Units | L1562533-05 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 1330 | 1340 | 0.673 | 20 | |

SAMPLE DUPLICATE: R3869102-4

| Parameter | Units | L1563669-03 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 155 | 155 | 0.452 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1969809

Analysis Method: EPA 9050

QC Batch Method: 9050A

Analysis Description: Wet Chemistry 9050AMod

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937002, 60416937003, 60416937004, 60416937005, 60416937006

METHOD BLANK: R3869102-1

Matrix: Solid

Associated Lab Samples:

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------------------------|----------|--------------|-----------------|------|----------------|------------|
| Specific Conductance @ 25 C | umhos/cm | ND | 10.0 | 10.0 | 12/07/22 11:40 | |

LABORATORY CONTROL SAMPLE: R3869102-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|----------|-------------|------------|-----------|--------------|------------|
| Specific Conductance @ 25 C | umhos/cm | 1120 | 1090 | 97.5 | 85.0-115 | |

SAMPLE DUPLICATE: R3869102-3

| Parameter | Units | L1562533-05 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 1330 | 1340 | 0.673 | 20 | |

SAMPLE DUPLICATE: R3869102-4

| Parameter | Units | L1563669-03 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 155 | 155 | 0.452 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1971883

Analysis Method: EPA 9050

QC Batch Method: EPA 9050

Analysis Description: Wet Chemistry 9050AMod

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937001, 60416937007, 60416937008

METHOD BLANK: R3870967-1

Matrix: Solid

Associated Lab Samples:

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------------------------|----------|--------------|-----------------|------|----------------|------------|
| Specific Conductance @ 25 C | umhos/cm | ND | 10.0 | 10.0 | 12/13/22 08:10 | |

LABORATORY CONTROL SAMPLE: R3870967-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|----------|-------------|------------|-----------|--------------|------------|
| Specific Conductance @ 25 C | umhos/cm | 1120 | 1090 | 97.2 | 85.0-115 | |

SAMPLE DUPLICATE: R3870967-3

| Parameter | Units | 60416937001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 11200 | 11200 | 0.179 | 20 | |

SAMPLE DUPLICATE: R3870967-4

| Parameter | Units | L1565582-04 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 434 | 430 | 0.926 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: MAUER 915-1

Pace Project No.: 60416937

QC Batch: 1971883

Analysis Method: EPA 9050

QC Batch Method: 9050A

Analysis Description: Wet Chemistry 9050AMod

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60416937001, 60416937007, 60416937008

METHOD BLANK: R3870967-1

Matrix: Solid

Associated Lab Samples:

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------------------------|----------|--------------|-----------------|------|----------------|------------|
| Specific Conductance @ 25 C | umhos/cm | ND | 10.0 | 10.0 | 12/13/22 08:10 | |

LABORATORY CONTROL SAMPLE: R3870967-2

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|----------|-------------|------------|-----------|--------------|------------|
| Specific Conductance @ 25 C | umhos/cm | 1120 | 1090 | 97.2 | 85.0-115 | |

SAMPLE DUPLICATE: R3870967-3

| Parameter | Units | 60416937001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 11200 | 11200 | 0.179 | 20 | |

SAMPLE DUPLICATE: R3870967-4

| Parameter | Units | L1565582-04 Result | Dup Result | RPD | Max RPD | Qualifiers |
|-----------------------------|----------|--------------------|------------|-------|---------|------------|
| Specific Conductance @ 25 C | umhos/cm | 434 | 430 | 0.926 | 20 | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: MAUER 915-1

Pace Project No.: 60416937

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 60416937001

[1] Wet Chemistry by Method 9045D - 8.47 at 20.3C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60416937002

[1] Wet Chemistry by Method 9045D - 8.27 at 20.3C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60416937003

[1] Wet Chemistry by Method 9045D - 8.97 at 20.1C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60416937004

[1] Wet Chemistry by Method 9045D - 8.82 at 21.7C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60416937005

[1] Wet Chemistry by Method 9045D - 7.59 at 21.7C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60416937006

[1] Wet Chemistry by Method 9045D - 7.81 at 21.5C

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: MAUER 915-1

Pace Project No.: 60416937

SAMPLE QUALIFIERS

Sample: 60416937006

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60416937007

[1] Wet Chemistry by Method 9045D - 7.97 at 21.3C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60416937008

[1] Wet Chemistry by Method 9045D - 8.88 at 21.3C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3869038-1

[1] Wet Chemistry by Method 9045D - 9.91 at 20.8C

Sample: R3869038-2

[1] Wet Chemistry by Method 9045D - 10.25 at 20.7C

Sample: R3869102-1

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3869102-2

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3869102-3

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3869102-4

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3869716-1

[1] Wet Chemistry by Method 9045D - 9.9 at 20.7C

Sample: R3869716-2

[1] Wet Chemistry by Method 9045D - 7.57 at 21.6C

Sample: R3869716-3

[1] Wet Chemistry by Method 9045D - 8 at 21.3C

Sample: R3870967-1

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3870967-2

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3870967-3

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3870967-4

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: L1562533-05

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: L1563669-03

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: L1564073-02

[1] Wet Chemistry by Method 9045D - 10.28 at 21.1C

Sample: L1564541-02

[1] Wet Chemistry by Method 9045D - 7.94 at 21.6C

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: MAUER 915-1

Pace Project No.: 60416937

SAMPLE QUALIFIERS

Sample: L1565582-04

[1] Wet Chemistry by Method 9050AMod - at 25C

ANALYTE QUALIFIERS

| | |
|----|--|
| B | Analyte was detected in the associated method blank. |
| CH | The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high. |
| D8 | The sample and duplicate results for this parameter are less than 5 times the reporting limit, the RPD may not be statistically valid. |
| H3 | Sample was received or analysis requested beyond the recognized method holding time. |
| J | Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| R1 | RPD value was outside control limits. |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAUER 915-1

Pace Project No.: 60416937

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 60416937001 | SP1 | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937002 | SP1 4' | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937003 | SP2 | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937004 | SP2 4' | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937005 | SP3 | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937006 | SP4 | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937007 | SP5 | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937008 | SP6 | EPA 3546 | 821387 | EPA 8015B | 821540 |
| 60416937001 | SP1 | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937002 | SP1 4' | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937003 | SP2 | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937004 | SP2 4' | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937005 | SP3 | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937006 | SP4 | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937007 | SP5 | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937008 | SP6 | EPA 5035A/5030B | 821854 | EPA 8015B | 822174 |
| 60416937001 | SP1 | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937002 | SP1 4' | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937003 | SP2 | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937004 | SP2 4' | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937005 | SP3 | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937006 | SP4 | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937007 | SP5 | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937008 | SP6 | HWS Boron | 1972178 | 6010B-NE493 Ch 2 | 1972178 |
| 60416937001 | SP1 | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937002 | SP1 4' | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937003 | SP2 | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937004 | SP2 4' | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937005 | SP3 | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937006 | SP4 | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937007 | SP5 | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937008 | SP6 | EPA 3050 | 821838 | EPA 6010 | 822072 |
| 60416937001 | SP1 | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937002 | SP1 4' | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937003 | SP2 | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937004 | SP2 4' | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937005 | SP3 | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937006 | SP4 | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937007 | SP5 | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937008 | SP6 | EPA 3050 | 821837 | EPA 6020 | 822073 |
| 60416937001 | SP1 | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |
| 60416937002 | SP1 4' | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |
| 60416937003 | SP2 | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |
| 60416937004 | SP2 4' | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |
| 60416937005 | SP3 | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |
| 60416937006 | SP4 | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAUER 915-1

Pace Project No.: 60416937

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 60416937007 | SP5 | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |
| 60416937008 | SP6 | EPA 3546 | 821386 | EPA 8270 by SIM | 821827 |
| 60416937001 | SP1 | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937002 | SP1 4' | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937003 | SP2 | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937004 | SP2 4' | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937005 | SP3 | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937006 | SP4 | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937007 | SP5 | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937008 | SP6 | EPA 5035A/5030B | 821391 | EPA 8260C | 821427 |
| 60416937001 | SP1 | ASTM D2974 | 821376 | | |
| 60416937002 | SP1 4' | ASTM D2974 | 821376 | | |
| 60416937003 | SP2 | ASTM D2974 | 821376 | | |
| 60416937004 | SP2 4' | ASTM D2974 | 821376 | | |
| 60416937005 | SP3 | ASTM D2974 | 821376 | | |
| 60416937006 | SP4 | ASTM D2974 | 821376 | | |
| 60416937007 | SP5 | ASTM D2974 | 821376 | | |
| 60416937008 | SP6 | ASTM D2974 | 821376 | | |
| 60416937001 | SP1 | SM 2540 G | 1970364 | SM 2540G | 1970364 |
| 60416937002 | SP1 4' | SM 2540 G | 1970364 | SM 2540G | 1970364 |
| 60416937003 | SP2 | SM 2540 G | 1970364 | SM 2540G | 1970364 |
| 60416937004 | SP2 4' | SM 2540 G | 1970364 | SM 2540G | 1970364 |
| 60416937005 | SP3 | SM 2540 G | 1970364 | SM 2540G | 1970364 |
| 60416937006 | SP4 | SM 2540 G | 1970364 | SM 2540G | 1970364 |
| 60416937007 | SP5 | SM 2540 G | 1970365 | SM 2540G | 1970365 |
| 60416937008 | SP6 | SM 2540 G | 1970365 | SM 2540G | 1970365 |
| 60416937001 | SP1 | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937002 | SP1 4' | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937003 | SP2 | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937004 | SP2 4' | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937005 | SP3 | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937006 | SP4 | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937007 | SP5 | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937008 | SP6 | 3060A | 1970335 | EPA 7199 | 1970335 |
| 60416937001 | SP1 | 9045C/9045D | 1970169 | EPA 9045D | 1970169 |
| 60416937002 | SP1 4' | 9045C/9045D | 1970169 | EPA 9045D | 1970169 |
| 60416937003 | SP2 | 9045C/9045D | 1970169 | EPA 9045D | 1970169 |
| 60416937004 | SP2 4' | 9045C/9045D | 1971123 | EPA 9045D | 1971123 |
| 60416937005 | SP3 | 9045C/9045D | 1971123 | EPA 9045D | 1971123 |
| 60416937006 | SP4 | 9045C/9045D | 1971123 | EPA 9045D | 1971123 |
| 60416937007 | SP5 | 9045C/9045D | 1971123 | EPA 9045D | 1971123 |
| 60416937008 | SP6 | 9045C/9045D | 1971123 | EPA 9045D | 1971123 |
| 60416937001 | SP1 | 9050A | 1971883 | EPA 9050 | 1971883 |
| 60416937002 | SP1 4' | 9050A | 1969809 | EPA 9050 | 1969809 |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAUER 915-1

Pace Project No.: 60416937

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 60416937003 | SP2 | 9050A | 1969809 | EPA 9050 | 1969809 |
| 60416937004 | SP2 4' | 9050A | 1969809 | EPA 9050 | 1969809 |
| 60416937005 | SP3 | 9050A | 1969809 | EPA 9050 | 1969809 |
| 60416937006 | SP4 | 9050A | 1969809 | EPA 9050 | 1969809 |
| 60416937007 | SP5 | 9050A | 1971883 | EPA 9050 | 1971883 |
| 60416937008 | SP6 | 9050A | 1971883 | EPA 9050 | 1971883 |
| 60416937001 | SP1 | Calc | 1971971 | Calculated | 1971971 |
| 60416937002 | SP1 4' | Calc | 1971971 | Calculated | 1971971 |
| 60416937003 | SP2 | Calc | 1971971 | Calculated | 1971971 |
| 60416937004 | SP2 4' | Calc | 1971973 | Calculated | 1971973 |
| 60416937005 | SP3 | Calc | 1971973 | Calculated | 1971973 |
| 60416937006 | SP4 | Calc | 1971973 | Calculated | 1971973 |
| 60416937007 | SP5 | Calc | 1971973 | Calculated | 1971973 |
| 60416937008 | SP6 | Calc | 1971973 | Calculated | 1971973 |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



DC#_Title: ENV-FRM-LENE-0009_Sa

Revision: 2

Effective Date: 01/12

W0#: 60416937



60416937

Client Name: Mull DrillingCourier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☒ Other ☐Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐Thermometer Used: T-299 Type of Ice: Wet Blue ☐ None ☐Cooler Temperature (°C): As-read 0.31 Corr. Factor 0.5 Corrected 0.31Date and initials of person examining contents: 12/12Temperature should be above freezing to 6°C 0.5

| | | |
|--|--|--|
| Chain of Custody present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Chain of Custody relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Samples arrived within holding time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Short Hold Time analyses (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Rush Turn Around Time requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Sufficient volume: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Correct containers used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Pace containers used: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Filtered volume received for dissolved tests? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Sample labels match COC: Date / time / ID / analyses | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| Samples contain multiple phases? Matrix: <u>SL</u> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#: | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | List sample IDs, volumes, lot #'s of preservative and the date/time added. |
| Cyanide water sample checks: | | |
| Lead acetate strip turns dark? (Record only) | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Potassium iodide test strip turns blue/purple? (Preserve) | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| Trip Blank present: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Headspace in VOA vials (>6mm): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Samples from USDA Regulated Area: State: <u>CO</u> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| Additional labels attached to 5035A / TX1005 vials in the field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

Pace

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section A

Page: 1 Of 1

| | | | | | |
|---------------------|------------------------------|-------------------|------------------------|-----------------------|------------------------------|
| Company: | Mull Drilling Company | Report To: | James Beilman | Attention: | |
| Address: | 1700 N Waterfront Pkwy | Copy To: | | Company Name: | |
| | Bld. 1200, Wichita, KS 67206 | | | Address: | |
| Email: | beilman@mulldrilling.com | Purchase Order #: | | Pace Quote: | |
| Phone: | (316)364-9203 | Project Name: | REB <i>maxer 415-1</i> | Pace Project Manager: | heather.wilson@pacelabs.com, |
| Fax: | | Project #: | | Pace Profile #: | 15622, 1 |
| Requested Due Date: | | CO | | | |
| | | | | | |

[illegible]

Client: Mull Drilling

Profile #

15622 Line 1

Site: Mauer 415-1

Notes

| COC Line Item | Matrix | VG9H | DG9H | DG9Q | VG9U | DG9U | DG9M | DG9B | BG1U | AG1H | AG1U | AG2U | AG3S | AG4U | AG5U | JGFU | WGKU | WGDU | BP1U | BP2U | BP3U | BP1N | BP3N | BP3F | BP3S | BP3C | BP3Z | WPDU | ZPLC | Other |
|------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 2 | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | |
| 2 | 1 | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 2 | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | |
| 8 | 2 | | | | | | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Container Codes

| Glass | | | | | | | | | | Plastic | | | | | | | | | | Misc. | | | | | | | | | |
|-------|-----------------------------|------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|---------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|-------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|------|-------------------------------------|
| DG9B | 40mL bisulfate clear vial | WGKU | 8oz clear soil jar | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic | BP1C | 1L NaOH plastic |
| DG9H | 40mL HCl amber vial | WGKU | 4oz clear soil jar | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic | BP1N | 1L HNO3 plastic |
| DG9M | 40mL MeOH clear vial | WG2U | 2oz clear soil jar | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic | BP1S | 1L H2SO4 plastic |
| DG9Q | 40mL TSP amber vial | JG5U | 4oz unpreserved amber wide | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic | BP1U | 1L unpreserved plastic |
| DG9S | 40mL H2SO4 amber vial | AG0U | 100mL unores amber glass | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate | BP1Z | 1L NaOH, Zn Acetate |
| DG9T | 40mL Na Thio amber vial | AG1H | 1L HCl amber glass | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic | BP2C | 500mL NaOH plastic |
| DG9U | 40mL amber unpreserved | AG1S | 1L H2SO4 amber glass | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic | BP2N | 500mL HNO3 plastic |
| VG9H | 40mL HCl clear vial | AG1T | 1L Na Thiosulfate clear/amber glass | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic | BP2S | 500mL H2SO4 plastic |
| VG9T | 40mL Na Thio. clear vial | AG1U | 1liter unpres amber glass | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic | BP2U | 500mL unpreserved plastic |
| VG9U | 40mL unpreserved clear vial | AG2N | 500mL HNO3 amber glass | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate | BP2Z | 500mL NaOH, Zn Acetate |
| BG1S | 1liter H2SO4 clear glass | AG2S | 500mL H2SO4 amber glass | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic | BP3C | 250mL NaOH plastic |
| BG1U | 1liter unpres glass | AG3S | 250mL H2SO4 amber glass | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered | BP3F | 250mL HNO3 plastic - field filtered |
| BG3H | 250mL HCL Clear glass | AG2U | 500mL unpres amber glass | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic | BP3N | 250mL HNO3 plastic |
| BG3U | 250mL Unpres Clear glass | AG3U | 250mL unpres amber glass | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic | BP3U | 250mL H2SO4 plastic |
| WGDU | 16oz clear soil jar | AG4U | 125mL unpres amber glass | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic | BP3S | 250mL H2SO4 plastic |
| | | AG5U | 100mL unpres amber glass | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate | BP3Z | 250mL NaOH, Zn Acetate |
| | | | | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic | BP4U | 125mL unpreserved plastic |
| | | | | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic | BP4N | 125mL HNO3 plastic |
| | | | | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic | BP4S | 125mL H2SO4 plastic |
| | | | | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic | WPDU | 16oz unpreserved plastic |

Work Order Number:

60416937
60416915

Internal Transfer Chain of Custody



☐ Samples Pre-Logged into eCOC.

State Of Origin: CO

| | | |
|---------------|--------------------------|-----|
| Cert. Needed: | <input type="checkbox"/> | Yes |
|---------------|--------------------------|-----|

☒ No

Workorder: 60416937

Workorder Name: MAUER 915-1

Owner Received Date: 12/2/2022 Results Requested By: 12/19/2022



| Report To | | | | | | Subcontract To | | | | | | | | | | | | | | | | | |
|---|-----------|-------------|-------------------|---------------------|--------------------|---|--------------|------------------------|--|--|---|-----------------------|---|--------------|--|--|--|--|--|--|--|--|----------|
| Heather Wilson Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 1(913)563-1407 | | | | | | Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858 | | | | | | | | | | | | | | | | | |
| Item | Sample ID | Sample Type | Collect Date/Time | Lab ID | Matrix | Preserved Containers | | | | | | | | LAB USE ONLY | | | | | | | | | |
| | | | | | | Unpreserved | | | | | | | | | | | | | | | | | |
| 1 | SP1 | PS | 12/1/2022 09:00 | 60416937001 | Solid | 1 | | | | | X | X | X | | | | | | | | | | L1564193 |
| 2 | SP1 4' | PS | 12/1/2022 09:15 | 60416937002 | Solid | 1 | | | | | X | X | X | | | | | | | | | | -01 |
| 3 | SP2 | PS | 12/1/2022 09:20 | 60416937003 | Solid | 1 | | | | | X | X | X | | | | | | | | | | -02 |
| 4 | SP2 4' | PS | 12/1/2022 09:35 | 60416937004 | Solid | 1 | | | | | X | X | X | | | | | | | | | | -03 |
| 5 | SP3 | PS | 12/1/2022 09:45 | 60416937005 | Solid | 1 | | | | | X | X | X | | | | | | | | | | -04 |
| 6 | SP4 | PS | 12/1/2022 09:30 | 60416937006 | Solid | 1 | | | | | X | X | X | | | | | | | | | | -05 |
| 7 | SP5 | PS | 12/1/2022 08:50 | 60416937007 | Solid | 1 | | | | | X | X | X | | | | | | | | | | -06 |
| 8 | SP6 | PS | 12/1/2022 09:10 | 60416937008 | Solid | 1 | | | | | X | X | X | | | | | | | | | | -07 |
| | | | | | | | | | | | | Comments | | | | | | | | | | | |
| Transfers | | Released By | | Date/Time | Received By | | Date/Time | | | | | | | | | | | | | | | | |
| 1 | | Wright Inc | | 12-5-22 1700 | Kaycie [Signature] | | 12-6-22 0900 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Cooler Temperature on Receipt 3.7 °C | | | | Custody Seal P or N | | | | Received on Ice X or N | | | | Samples Intact X or N | | | | | | | | | | | |

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

| | | | |
|--------------------------|--|---------------------------------|--|
| COC Seal Present/Intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | If Applicable | |
| COC Signed/Accurate: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | VOA Zero Headspace: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Bottles arrive intact: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | Pres. Correct/Check: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |
| Correct bottles used: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | MSA2 3.7+0=3.7 | |
| Sufficient volume sent: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | |
| RAD Screen <0.5 mR/hr: | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | |

MSA2
3.7+0=3.7

6091 0793 81



Ship To:
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615) 758-5858

INTER_LABORATORY WORK ORDER # 60416937

(To be completed by sending lab)

| | |
|-------------------------------------|--------------------------|
| Sending Project No: | 60416937 |
| Receiving Project No: | |
| Check Box for Consolidated Invoice: | <input type="checkbox"/> |
| Date Prepared: | 12/05/22 |
| REQUESTED COMPLETION DATE: | 12/19/2022 |

| | | | |
|------------------------|---------------------|----------------------|-----------------------|
| Sending Region | IR60-Kansas | Sending Project Mgr. | Heather Wilson |
| Receiving Region | IR850-Pace National | External Client | Mull Drilling Company |
| State of Sample Origin | CO | QC Deliverable | STD REPORT |

All questions should be addressed to sending project manager.

Requested Reportable Units _____ Report Wet or Dry Weight? ☐ IRWO Lab Need to run? _____ Cert. Needed No

| WORK REQUESTED | | | | | |
|-----------------------------|----------------|------------------------|--------------|---------------------|------------|
| Method Description | Container Type | Quantity of containers | Preservative | Quantity of Samples | Unit Price |
| Hot Water Boron | WGKU | 8 | Unpreserved | 8 | \$32.00 |
| 7199 Cr/V | WGKU | | Unpreserved | 8 | \$91.00 |
| Saturated Paste EC, SAR, pH | WGKU | | Unpreserved | 8 | \$85.00 |
| TOTAL | | | | | \$1,664.00 |

Special Requirements: Report D, QC Limits, MDLs (D), FR Only no EDD (0)

| Receiving Region Department | Acctg. Code | Totals from above | Revenue Allocation | |
|-----------------------------|-------------|-------------------|------------------------|--|
| | | | Receiving Region (80%) | Client Services Dept. Sending Region (20%) |
| Metals | 20 | \$984.00 | \$787.20 | \$196.80 |
| Wet Chemistry | 21 | \$680.00 | \$544.00 | \$136.00 |
| * Custom Revenue Allocation | TOTAL | \$1,664.00 | \$1,331.20 | \$332.80 |

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region: ☐ Yes ☒ No

DISPOSITION OF FORM

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.



14-Nov-2023

James Beilman
Mull Drilling Company
1700 N Waterfront Pkwy, Bld. 1200
Wichita, KS 67206

Re: **Mauer Location**

Work Order: **23102586**

Dear James,

ALS Environmental received 12 samples on 28-Oct-2023 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 64.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: FL E871106

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Mull Drilling Company
Project: Mauer Location
Work Order: 23102586

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 23102586-01 | SP 3 4' | Soil | | 10/24/2023 11:50 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-02 | SP 4 4' | Soil | | 10/24/2023 12:00 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-03 | SP 7 | Soil | | 10/24/2023 11:00 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-04 | SP 8 | Soil | | 10/24/2023 11:05 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-05 | SP 9 | Soil | | 10/24/2023 11:10 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-06 | SP 10 | Soil | | 10/24/2023 11:20 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-07 | SP 11 | Soil | | 10/24/2023 11:25 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-08 | SP 12 | Soil | | 10/24/2023 11:40 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-09 | SP 13 | Soil | | 10/24/2023 11:45 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-10 | SP 14 8' | Soil | | 10/24/2023 13:00 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-11 | Duplicate A | Soil | | 10/24/2023 | 10/28/2023 09:15 | <input type="checkbox"/> |
| 23102586-12 | Trip Blank | Soil | | 10/24/2023 | 10/28/2023 09:15 | <input type="checkbox"/> |

Client: Mull Drilling Company
Project: Mauer Location
Work Order: 23102586

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. A copy of the laboratory's scope of accreditation is available upon request.

Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

With the following exceptions, all sample analyses achieved analytical criteria.

Batch 228326, Method SW8260D, Samples 23102586-02C: One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed.

Batch R387210b, Method SW8260D, Samples 23102586-04C, -05C, -07C, and -08C, : One or more surrogate recoveries were above the upper control limits. The sample was non-detect, therefore, no qualification is needed.

Batch 228305, Method SW8015C, Sample 23102586-07C MSD: The MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: GRO.

Batch 228540, Method SW8270E, Sample 23102586-10A: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

Batch 228716, Method SW8270E, Sample 23102586-10A: Low surrogate recovery due to sample matrix confirmed by re-extraction

Batch 228715, Method SW8015C, Samples 23102586-06A, -08A, -10A, and -11A: Low surrogate recovery due to sample matrix confirmed by re-extraction.

Client: Mull Drilling Company
Project: Mauer Location
Work Order: 23102586

Case Narrative

Batch 228541, Method SW8015C, Sample 23102586-10A MSD: The RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for this compound: ERO.

Batch 228202, Method SW7196A, Sample 23102586-10A MS/MSD: The MS/MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Hexavalent Chromium.

Client: Mull Drilling Company
Project: Mauer Location
WorkOrder: 23102586

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|-------------------------|---|
| * | Value exceeds Regulatory Limit |
| ** | Estimated Value |
| a | Analyte is non-accredited |
| B | Analyte detected in the associated Method Blank above the Reporting Limit |
| E | Value above quantitation range |
| H | Analyzed outside of Holding Time |
| Hr | BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated. |
| J | Analyte is present at an estimated concentration between the MDL and Report Limit |
| n | Analyte accreditation is not offered |
| ND | Not Detected at the Reporting Limit |
| O | Sample amount is > 4 times amount spiked |
| P | Dual Column results percent difference > 40% |
| R | RPD above laboratory control limit |
| S | Spike Recovery outside laboratory control limits |
| U | Analyzed but not detected above the MDL |
| X | Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level. |

| <u>Acronym</u> | <u>Description</u> |
|-----------------------|-------------------------------------|
| DUP | Method Duplicate |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection (see MDL) |
| LOQ | Limit of Quantitation (see PQL) |
| MBLK | Method Blank |
| MDL | Method Detection Limit |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Practical Quantitation Limit |
| RPD | Relative Percent Difference |
| TDL | Target Detection Limit |
| TNTC | Too Numerous To Count |
| A | APHA Standard Methods |
| D | ASTM |
| E | EPA |
| SW | SW-846 Update III |

| <u>Units Reported</u> | <u>Description</u> |
|------------------------------|--|
| % of sample | Percent of Sample |
| µg/Kg | Micrograms per Kilogram |
| µg/Kg-dry | Micrograms per Kilogram Dry Weight |
| mg/Kg-dry | Milligrams per Kilogram Dry Weight |
| mg/L | Milligrams per Liter |
| mmhos/cm @25°C | Millimhos-Centimeter at 25 Degrees Celcius |

none

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 3 4'
Collection Date: 10/24/2023 11:50 AM

Work Order: 23102586
Lab ID: 23102586-01
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|----------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/2/23 | | Analyst: SJB |
| ERO (C10-C36) | 21 | J | 3.2 | 24 | mg/Kg-dry | 1 | 11/5/2023 05:33 |
| Surr: 4-Terphenyl-d14 | 52.3 | | | 34-130 | %REC | 1 | 11/5/2023 05:33 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 7,900 | 8,500 | µg/Kg-dry | 1 | 11/1/2023 15:42 |
| Surr: Toluene-d8 | 104 | | | 75-120 | %REC | 1 | 11/1/2023 15:42 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 7.1 | | 0.040 | 0.33 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Barium | 110 | | 0.31 | 0.33 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Cadmium | 0.084 | J | 0.020 | 0.13 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Copper | 12 | | 0.33 | 0.33 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Lead | 15 | | 0.16 | 0.33 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Nickel | 12 | | 0.17 | 0.33 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Selenium | 0.74 | | 0.31 | 0.33 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Silver | U | | 0.044 | 0.33 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| Zinc | 43 | | 0.66 | 0.67 | mg/Kg-dry | 1 | 11/2/2023 00:39 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 140 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 18:46 |
| Magnesium | 70 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 18:46 |
| Sodium | 680 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 18:46 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.80 | | 0.019 | 0.48 | mg/Kg-dry | 10 | 10/31/2023 18:48 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 12 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/2/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 1.0 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| 2-Methylnaphthalene | U | | 1.2 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Acenaphthene | U | | 1.9 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Anthracene | U | | 0.92 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Benzo(a)anthracene | U | | 3.6 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Benzo(a)pyrene | U | | 3.4 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Benzo(b)fluoranthene | U | | 3.0 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Benzo(k)fluoranthene | U | | 0.76 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Chrysene | U | | 3.3 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 3 4'
Collection Date: 10/24/2023 11:50 AM

Work Order: 23102586
Lab ID: 23102586-01
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.9 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Fluoranthene | U | | 2.5 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Fluorene | U | | 1.2 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Indeno(1,2,3-cd)pyrene | U | | 3.5 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Naphthalene | U | | 0.95 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Pyrene | U | | 3.2 | 5.0 | µg/Kg-dry | 1 | 11/3/2023 02:42 |
| Surr: 2-Fluorobiphenyl | 84.6 | | | 20-140 | %REC | 1 | 11/3/2023 02:42 |
| Surr: 4-Terphenyl-d14 | 65.2 | | | 22-172 | %REC | 1 | 11/3/2023 02:42 |
| Surr: Nitrobenzene-d5 | 79.8 | | | 28-140 | %REC | 1 | 11/3/2023 02:42 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 2.3 | 6.4 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| 1,3,5-Trimethylbenzene | U | | 2.1 | 6.4 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| Benzene | U | | 0.67 | 6.4 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| Ethylbenzene | U | | 1.1 | 6.4 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| m,p-Xylene | U | | 2.8 | 3.2 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| o-Xylene | U | | 1.5 | 3.2 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| Toluene | U | | 2.2 | 6.4 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| Xylenes, Total | U | | 2.8 | 6.4 | µg/Kg-dry | 1.05 | 11/3/2023 15:28 |
| Surr: 1,2-Dichloroethane-d4 | 115 | | | 83-132 | %REC | 1.05 | 11/3/2023 15:28 |
| Surr: 4-Bromofluorobenzene | 101 | | | 83-111 | %REC | 1.05 | 11/3/2023 15:28 |
| Surr: Dibromofluoromethane | 111 | | | 77-125 | %REC | 1.05 | 11/3/2023 15:28 |
| Surr: Toluene-d8 | 94.4 | | | 86-108 | %REC | 1.05 | 11/3/2023 15:28 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 5.3 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 14:10 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.98 | 1.2 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 18 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 9.34 | | 0.12 | 0.12 | s.u.-dry | 1 | 11/4/2023 12:00 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 4 4'
Collection Date: 10/24/2023 12:00 PM

Work Order: 23102586
Lab ID: 23102586-02
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/2/23 | | Analyst: SJB |
| ERO (C10-C36) | 2,900 | | 8.8 | 67 | mg/Kg-dry | 1 | 11/5/2023 06:10 |
| Surr: 4-Terphenyl-d14 | 96.6 | | | 34-130 | %REC | 1 | 11/5/2023 06:10 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 6,300 | 6,800 | µg/Kg-dry | 1 | 11/1/2023 16:04 |
| Surr: Toluene-d8 | 108 | | | 75-120 | %REC | 1 | 11/1/2023 16:04 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 6.1 | | 0.043 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| Barium | 190 | | 3.3 | 3.6 | mg/Kg-dry | 10 | 11/2/2023 17:01 |
| Cadmium | 0.092 | J | 0.021 | 0.14 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| Copper | 12 | | 0.36 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| Lead | 15 | | 0.17 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| Nickel | 9.4 | | 0.19 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| Selenium | 0.35 | J | 0.33 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| Silver | U | | 0.047 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| Zinc | 67 | | 0.70 | 0.71 | mg/Kg-dry | 1 | 11/2/2023 00:41 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 500 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 18:48 |
| Magnesium | 39 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 18:48 |
| Sodium | 840 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 18:48 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 2.5 | | 0.019 | 0.48 | mg/Kg-dry | 10 | 10/31/2023 18:50 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 9.7 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/2/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 2.9 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| 2-Methylnaphthalene | U | | 3.3 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Acenaphthene | U | | 5.4 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Anthracene | U | | 2.6 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Benzo(a)anthracene | 240 | | 10 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Benzo(a)pyrene | U | | 9.4 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Benzo(b)fluoranthene | U | | 8.4 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Benzo(k)fluoranthene | U | | 2.1 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Chrysene | 260 | | 9.2 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 4 4'
Collection Date: 10/24/2023 12:00 PM

Work Order: 23102586
Lab ID: 23102586-02
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|-------------|------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| Dibenzo(a,h)anthracene | U | | 8.1 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Fluoranthene | 45 | | 7.0 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Fluorene | 82 | | 3.4 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Indeno(1,2,3-cd)pyrene | U | | 9.7 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Naphthalene | 4.7 | J | 2.6 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Pyrene | 61 | | 8.9 | 14 | µg/Kg-dry | 1 | 11/3/2023 02:58 |
| Surr: 2-Fluorobiphenyl | 88.3 | | | 20-140 | %REC | 1 | 11/3/2023 02:58 |
| Surr: 4-Terphenyl-d14 | 77.7 | | | 22-172 | %REC | 1 | 11/3/2023 02:58 |
| Surr: Nitrobenzene-d5 | 103 | | | 28-140 | %REC | 1 | 11/3/2023 02:58 |
| VOLATILE ORGANIC COMPOUNDS | | | Method: SW8260D | | Prep: SW5035A / 10/31/23 | | Analyst: SBR |
| 1,2,4-Trimethylbenzene | U | | 30 | 41 | µg/Kg | 1 | 11/3/2023 00:27 |
| 1,3,5-Trimethylbenzene | U | | 29 | 140 | µg/Kg | 1 | 11/3/2023 00:27 |
| Benzene | U | | 20 | 41 | µg/Kg | 1 | 11/3/2023 00:27 |
| Ethylbenzene | U | | 29 | 41 | µg/Kg | 1 | 11/3/2023 00:27 |
| m,p-Xylene | U | | 54 | 82 | µg/Kg | 1 | 11/3/2023 00:27 |
| o-Xylene | U | | 16 | 41 | µg/Kg | 1 | 11/3/2023 00:27 |
| Toluene | U | | 34 | 41 | µg/Kg | 1 | 11/3/2023 00:27 |
| Xylenes, Total | U | | 54 | 120 | µg/Kg | 1 | 11/3/2023 00:27 |
| Surr: 1,2-Dichloroethane-d4 | 122 | S | | 80-120 | %REC | 1 | 11/3/2023 00:27 |
| Surr: 4-Bromofluorobenzene | 109 | | | 80-120 | %REC | 1 | 11/3/2023 00:27 |
| Surr: Dibromofluoromethane | 104 | | | 80-120 | %REC | 1 | 11/3/2023 00:27 |
| Surr: Toluene-d8 | 103 | | | 80-120 | %REC | 1 | 11/3/2023 00:27 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: CLJ |
| Electrical Conductivity @ Saturation | 8.0 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 14:10 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | Prep: SW3060A / 10/29/23 | | Analyst: AXW |
| Chromium, Hexavalent | U | | 1.0 | 1.2 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | | Analyst: SGH |
| Moisture | 17 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: CLJ |
| pH @ Saturation | 8.76 | | 0.12 | 0.12 | s.u.-dry | 1 | 11/4/2023 12:00 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 7
Collection Date: 10/24/2023 11:00 AM

Work Order: 23102586
Lab ID: 23102586-03
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/2/23 | | Analyst: SJB |
| ERO (C10-C36) | 31 | | 2.6 | 20 | mg/Kg-dry | 1 | 11/5/2023 06:46 |
| Surr: 4-Terphenyl-d14 | 66.4 | | | 34-130 | %REC | 1 | 11/5/2023 06:46 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 5,800 | 6,300 | µg/Kg-dry | 1 | 11/1/2023 16:26 |
| Surr: Toluene-d8 | 104 | | | 75-120 | %REC | 1 | 11/1/2023 16:26 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 5.9 | | 0.034 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| Barium | 330 | | 2.6 | 2.8 | mg/Kg-dry | 10 | 11/2/2023 17:03 |
| Cadmium | 0.057 | J | 0.017 | 0.11 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| Copper | 9.4 | | 0.28 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| Lead | 12 | | 0.13 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| Nickel | 9.6 | | 0.15 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| Selenium | 0.65 | | 0.26 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| Silver | U | | 0.037 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| Zinc | 34 | | 0.55 | 0.56 | mg/Kg-dry | 1 | 11/2/2023 00:43 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 50 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 18:50 |
| Magnesium | 12 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 18:50 |
| Sodium | 50 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 18:50 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.81 | | 0.016 | 0.40 | mg/Kg-dry | 10 | 10/31/2023 18:52 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 1.6 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/2/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 0.86 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| 2-Methylnaphthalene | U | | 0.99 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Acenaphthene | U | | 1.6 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Anthracene | U | | 0.77 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Benzo(a)anthracene | U | | 3.0 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Benzo(a)pyrene | U | | 2.8 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Benzo(b)fluoranthene | U | | 2.5 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Benzo(k)fluoranthene | U | | 0.63 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Chrysene | U | | 2.8 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 7
Collection Date: 10/24/2023 11:00 AM

Work Order: 23102586
Lab ID: 23102586-03
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.4 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Fluoranthene | U | | 2.1 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Fluorene | U | | 1.0 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Indeno(1,2,3-cd)pyrene | U | | 2.9 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Naphthalene | U | | 0.79 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Pyrene | U | | 2.7 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 03:13 |
| Surr: 2-Fluorobiphenyl | 87.2 | | | 20-140 | %REC | 1 | 11/3/2023 03:13 |
| Surr: 4-Terphenyl-d14 | 78.5 | | | 22-172 | %REC | 1 | 11/3/2023 03:13 |
| Surr: Nitrobenzene-d5 | 102 | | | 28-140 | %REC | 1 | 11/3/2023 03:13 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 1.0 | 2.8 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| 1,3,5-Trimethylbenzene | U | | 0.90 | 2.8 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| Benzene | U | | 0.29 | 2.8 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| Ethylbenzene | U | | 0.49 | 2.8 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| m,p-Xylene | U | | 1.2 | 1.4 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| o-Xylene | U | | 0.67 | 1.4 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| Toluene | U | | 0.98 | 2.8 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| Xylenes, Total | U | | 1.2 | 2.8 | µg/Kg-dry | 0.546 | 11/3/2023 13:22 |
| Surr: 1,2-Dichloroethane-d4 | 113 | | | 83-132 | %REC | 0.546 | 11/3/2023 13:22 |
| Surr: 4-Bromofluorobenzene | 101 | | | 83-111 | %REC | 0.546 | 11/3/2023 13:22 |
| Surr: Dibromofluoromethane | 112 | | | 77-125 | %REC | 0.546 | 11/3/2023 13:22 |
| Surr: Toluene-d8 | 92.7 | | | 86-108 | %REC | 0.546 | 11/3/2023 13:22 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 0.65 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 14:10 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.84 | 0.99 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 2.7 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 8.29 | | 0.10 | 0.10 | s.u.-dry | 1 | 11/4/2023 12:00 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 8
Collection Date: 10/24/2023 11:05 AM

Work Order: 23102586
Lab ID: 23102586-04
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/2/23 | | Analyst: SJB |
| ERO (C10-C36) | 73 | | 2.8 | 22 | mg/Kg-dry | 1 | 11/3/2023 21:37 |
| Surr: 4-Terphenyl-d14 | 36.2 | | | 34-130 | %REC | 1 | 11/3/2023 21:37 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 8,700 | 9,300 | µg/Kg-dry | 1 | 11/1/2023 16:49 |
| Surr: Toluene-d8 | 106 | | | 75-120 | %REC | 1 | 11/1/2023 16:49 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 5.3 | | 0.033 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| Barium | 230 | | 2.6 | 2.8 | mg/Kg-dry | 10 | 11/2/2023 17:05 |
| Cadmium | 0.072 | J | 0.017 | 0.11 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| Copper | 10 | | 0.28 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| Lead | 14 | | 0.13 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| Nickel | 9.9 | | 0.14 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| Selenium | 0.53 | | 0.26 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| Silver | 0.040 | J | 0.037 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| Zinc | 36 | | 0.55 | 0.56 | mg/Kg-dry | 1 | 11/2/2023 00:45 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 1,300 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 18:51 |
| Magnesium | 240 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 18:51 |
| Sodium | 3,800 | | 18 | 20 | mg/L | 100 | 11/7/2023 16:45 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 2.2 | | 0.017 | 0.42 | mg/Kg-dry | 10 | 10/31/2023 18:54 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 25 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/2/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 0.92 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| 2-Methylnaphthalene | U | | 1.1 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Acenaphthene | U | | 1.7 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Anthracene | U | | 0.82 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Benzo(a)anthracene | U | | 3.2 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Benzo(a)pyrene | U | | 3.0 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Benzo(b)fluoranthene | U | | 2.7 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Benzo(k)fluoranthene | U | | 0.68 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Chrysene | U | | 3.0 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 8
Collection Date: 10/24/2023 11:05 AM

Work Order: 23102586
Lab ID: 23102586-04
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.6 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Fluoranthene | U | | 2.3 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Fluorene | U | | 1.1 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Indeno(1,2,3-cd)pyrene | U | | 3.1 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Naphthalene | U | | 0.85 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Pyrene | U | | 2.9 | 4.5 | µg/Kg-dry | 1 | 11/3/2023 03:29 |
| Surr: 2-Fluorobiphenyl | 82.4 | | | 20-140 | %REC | 1 | 11/3/2023 03:29 |
| Surr: 4-Terphenyl-d14 | 48.3 | | | 22-172 | %REC | 1 | 11/3/2023 03:29 |
| Surr: Nitrobenzene-d5 | 50.4 | | | 28-140 | %REC | 1 | 11/3/2023 03:29 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 3.6 | 10 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| 1,3,5-Trimethylbenzene | U | | 3.2 | 10 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| Benzene | U | | 1.1 | 10 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| Ethylbenzene | U | | 1.8 | 10 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| m,p-Xylene | U | | 4.4 | 5.0 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| o-Xylene | U | | 2.4 | 5.0 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| Toluene | U | | 3.5 | 10 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| Xylenes, Total | U | | 4.4 | 10 | µg/Kg-dry | 1.85 | 11/3/2023 18:11 |
| Surr: 1,2-Dichloroethane-d4 | 113 | | | 83-132 | %REC | 1.85 | 11/3/2023 18:11 |
| Surr: 4-Bromofluorobenzene | 138 | S | | 83-111 | %REC | 1.85 | 11/3/2023 18:11 |
| Surr: Dibromofluoromethane | 110 | | | 77-125 | %REC | 1.85 | 11/3/2023 18:11 |
| Surr: Toluene-d8 | 95.1 | | | 86-108 | %REC | 1.85 | 11/3/2023 18:11 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 28 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 14:10 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.93 | 1.1 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 8.4 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 7.15 | | 0.11 | 0.11 | s.u.-dry | 1 | 11/4/2023 12:00 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 9
Collection Date: 10/24/2023 11:10 AM

Work Order: 23102586
Lab ID: 23102586-05
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|-------------|----------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/2/23 | | Analyst: SJB |
| ERO (C10-C36) | 18 | J | 2.7 | 20 | mg/Kg-dry | 1 | 11/5/2023 07:23 |
| Surr: 4-Terphenyl-d14 | 44.3 | | | 34-130 | %REC | 1 | 11/5/2023 07:23 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 6,500 | 7,000 | µg/Kg-dry | 1 | 11/1/2023 17:11 |
| Surr: Toluene-d8 | 105 | | | 75-120 | %REC | 1 | 11/1/2023 17:11 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 4.8 | | 0.033 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| Barium | 140 | | 2.5 | 2.8 | mg/Kg-dry | 10 | 11/2/2023 17:07 |
| Cadmium | 0.11 | | 0.017 | 0.11 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| Copper | 8.8 | | 0.28 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| Lead | 13 | | 0.13 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| Nickel | 8.8 | | 0.14 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| Selenium | 0.46 | | 0.25 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| Silver | U | | 0.036 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| Zinc | 33 | | 0.54 | 0.55 | mg/Kg-dry | 1 | 11/2/2023 00:47 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 59 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 18:53 |
| Magnesium | 14 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 18:53 |
| Sodium | 180 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 18:53 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.85 | | 0.016 | 0.41 | mg/Kg-dry | 10 | 10/31/2023 18:56 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 5.6 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/2/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 0.87 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| 2-Methylnaphthalene | U | | 1.0 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Acenaphthene | U | | 1.6 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Anthracene | U | | 0.78 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Benzo(a)anthracene | U | | 3.1 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Benzo(a)pyrene | U | | 2.9 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Benzo(b)fluoranthene | U | | 2.6 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Benzo(k)fluoranthene | U | | 0.64 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Chrysene | U | | 2.8 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 9
Collection Date: 10/24/2023 11:10 AM

Work Order: 23102586
Lab ID: 23102586-05
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.5 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Fluoranthene | U | | 2.1 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Fluorene | U | | 1.1 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Indeno(1,2,3-cd)pyrene | U | | 3.0 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Naphthalene | U | | 0.81 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Pyrene | U | | 2.7 | 4.2 | µg/Kg-dry | 1 | 11/3/2023 21:13 |
| Surr: 2-Fluorobiphenyl | 60.3 | | | 20-140 | %REC | 1 | 11/3/2023 21:13 |
| Surr: 4-Terphenyl-d14 | 54.9 | | | 22-172 | %REC | 1 | 11/3/2023 21:13 |
| Surr: Nitrobenzene-d5 | 71.2 | | | 28-140 | %REC | 1 | 11/3/2023 21:13 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 3.1 | 8.7 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| 1,3,5-Trimethylbenzene | U | | 2.8 | 8.7 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| Benzene | U | | 0.91 | 8.7 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| Ethylbenzene | U | | 1.5 | 8.7 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| m,p-Xylene | U | | 3.8 | 4.4 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| o-Xylene | U | | 2.1 | 4.4 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| Toluene | U | | 3.0 | 8.7 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| Xylenes, Total | U | | 3.8 | 8.7 | µg/Kg-dry | 1.66 | 11/3/2023 13:58 |
| Surr: 1,2-Dichloroethane-d4 | 138 | S | | 83-132 | %REC | 1.66 | 11/3/2023 13:58 |
| Surr: 4-Bromofluorobenzene | 106 | | | 83-111 | %REC | 1.66 | 11/3/2023 13:58 |
| Surr: Dibromofluoromethane | 122 | | | 77-125 | %REC | 1.66 | 11/3/2023 13:58 |
| Surr: Toluene-d8 | 144 | S | | 86-108 | %REC | 1.66 | 11/3/2023 13:58 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 1.3 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 14:10 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.82 | 0.97 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 4.6 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 8.20 | | 0.10 | 0.10 | s.u.-dry | 1 | 11/4/2023 12:00 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 10
Collection Date: 10/24/2023 11:20 AM

Work Order: 23102586
Lab ID: 23102586-06
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|----------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/7/23 | | Analyst: SJB |
| ERO (C10-C36) | 7.1 | J | 2.8 | 22 | mg/Kg-dry | 1 | 11/8/2023 05:03 |
| Surr: 4-Terphenyl-d14 | 32.2 | S | | 34-130 | %REC | 1 | 11/8/2023 05:03 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 7,000 | 7,400 | µg/Kg-dry | 1 | 11/1/2023 17:33 |
| Surr: Toluene-d8 | 105 | | | 75-120 | %REC | 1 | 11/1/2023 17:33 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 5.3 | | 0.035 | 0.29 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| Barium | 170 | | 2.7 | 2.9 | mg/Kg-dry | 10 | 11/2/2023 17:09 |
| Cadmium | 0.089 | J | 0.018 | 0.12 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| Copper | 9.2 | | 0.29 | 0.29 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| Lead | 12 | | 0.14 | 0.29 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| Nickel | 9.1 | | 0.15 | 0.29 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| Selenium | 0.56 | | 0.27 | 0.29 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| Silver | U | | 0.039 | 0.29 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| Zinc | 33 | | 0.57 | 0.59 | mg/Kg-dry | 1 | 11/2/2023 00:49 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 83 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 18:55 |
| Magnesium | 14 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 18:55 |
| Sodium | 87 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 18:55 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.63 | | 0.017 | 0.43 | mg/Kg-dry | 10 | 10/31/2023 18:58 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 2.3 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/2/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 0.91 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| 2-Methylnaphthalene | U | | 1.0 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Acenaphthene | U | | 1.7 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Anthracene | U | | 0.81 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Benzo(a)anthracene | U | | 3.2 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Benzo(a)pyrene | U | | 3.0 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Benzo(b)fluoranthene | U | | 2.7 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Benzo(k)fluoranthene | U | | 0.67 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Chrysene | U | | 2.9 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 10
Collection Date: 10/24/2023 11:20 AM

Work Order: 23102586
Lab ID: 23102586-06
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.6 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Fluoranthene | U | | 2.2 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Fluorene | U | | 1.1 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Indeno(1,2,3-cd)pyrene | U | | 3.1 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Naphthalene | U | | 0.84 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Pyrene | U | | 2.8 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 21:28 |
| Surr: 2-Fluorobiphenyl | 33.7 | | | 20-140 | %REC | 1 | 11/3/2023 21:28 |
| Surr: 4-Terphenyl-d14 | 32.3 | | | 22-172 | %REC | 1 | 11/3/2023 21:28 |
| Surr: Nitrobenzene-d5 | 57.2 | | | 28-140 | %REC | 1 | 11/3/2023 21:28 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 2.6 | 7.3 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| 1,3,5-Trimethylbenzene | U | | 2.3 | 7.3 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| Benzene | U | | 0.76 | 7.3 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| Ethylbenzene | U | | 1.3 | 7.3 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| m,p-Xylene | U | | 3.2 | 3.7 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| o-Xylene | U | | 1.8 | 3.7 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| Toluene | U | | 2.5 | 7.3 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| Xylenes, Total | U | | 3.2 | 7.3 | µg/Kg-dry | 1.34 | 11/3/2023 14:16 |
| Surr: 1,2-Dichloroethane-d4 | 118 | | | 83-132 | %REC | 1.34 | 11/3/2023 14:16 |
| Surr: 4-Bromofluorobenzene | 104 | | | 83-111 | %REC | 1.34 | 11/3/2023 14:16 |
| Surr: Dibromofluoromethane | 108 | | | 77-125 | %REC | 1.34 | 11/3/2023 14:16 |
| Surr: Toluene-d8 | 94.0 | | | 86-108 | %REC | 1.34 | 11/3/2023 14:16 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 0.94 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 14:10 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.92 | 1.1 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 8.3 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 8.55 | | 0.11 | 0.11 | s.u.-dry | 1 | 11/4/2023 12:00 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 11
Collection Date: 10/24/2023 11:25 AM

Work Order: 23102586
Lab ID: 23102586-07
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/3/23 | | Analyst: SJB |
| ERO (C10-C36) | 6.0 | J | 3.7 | 28 | mg/Kg-dry | 1 | 11/4/2023 09:41 |
| Surr: 4-Terphenyl-d14 | 52.3 | | | 34-130 | %REC | 1 | 11/4/2023 09:41 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 4,500 | 4,900 | µg/Kg-dry | 1 | 11/1/2023 20:09 |
| Surr: Toluene-d8 | 108 | | | 75-120 | %REC | 1 | 11/1/2023 20:09 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 5.8 | | 0.044 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| Barium | 130 | | 3.4 | 3.6 | mg/Kg-dry | 10 | 11/2/2023 17:17 |
| Cadmium | 0.089 | J | 0.022 | 0.15 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| Copper | 8.6 | | 0.36 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| Lead | 12 | | 0.18 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| Nickel | 9.3 | | 0.19 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| Selenium | 0.42 | | 0.34 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| Silver | U | | 0.048 | 0.36 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| Zinc | 33 | | 0.71 | 0.73 | mg/Kg-dry | 1 | 11/2/2023 01:09 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 93 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 19:07 |
| Magnesium | 17 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 19:07 |
| Sodium | 220 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 19:07 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.86 | | 0.022 | 0.56 | mg/Kg-dry | 10 | 10/31/2023 19:13 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 5.6 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/3/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 1.2 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| 2-Methylnaphthalene | U | | 1.4 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Acenaphthene | U | | 2.3 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Anthracene | U | | 1.1 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Benzo(a)anthracene | U | | 4.2 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Benzo(a)pyrene | U | | 4.0 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Benzo(b)fluoranthene | U | | 3.5 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Benzo(k)fluoranthene | U | | 0.88 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Chrysene | U | | 3.9 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 11
Collection Date: 10/24/2023 11:25 AM

Work Order: 23102586
Lab ID: 23102586-07
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 3.4 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Fluoranthene | U | | 2.9 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Fluorene | U | | 1.4 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Indeno(1,2,3-cd)pyrene | U | | 4.1 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Naphthalene | U | | 1.1 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Pyrene | U | | 3.7 | 5.8 | µg/Kg-dry | 1 | 11/3/2023 23:16 |
| Surr: 2-Fluorobiphenyl | 80.8 | | | 20-140 | %REC | 1 | 11/3/2023 23:16 |
| Surr: 4-Terphenyl-d14 | 74.3 | | | 22-172 | %REC | 1 | 11/3/2023 23:16 |
| Surr: Nitrobenzene-d5 | 101 | | | 28-140 | %REC | 1 | 11/3/2023 23:16 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 3.6 | 9.9 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| 1,3,5-Trimethylbenzene | U | | 3.2 | 9.9 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| Benzene | U | | 1.0 | 9.9 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| Ethylbenzene | U | | 1.7 | 9.9 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| m,p-Xylene | U | | 4.4 | 5.0 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| o-Xylene | U | | 2.4 | 5.0 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| Toluene | U | | 3.5 | 9.9 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| Xylenes, Total | U | | 4.4 | 9.9 | µg/Kg-dry | 1.41 | 11/3/2023 18:47 |
| Surr: 1,2-Dichloroethane-d4 | 118 | | | 83-132 | %REC | 1.41 | 11/3/2023 18:47 |
| Surr: 4-Bromofluorobenzene | 133 | S | | 83-111 | %REC | 1.41 | 11/3/2023 18:47 |
| Surr: Dibromofluoromethane | 91.0 | | | 77-125 | %REC | 1.41 | 11/3/2023 18:47 |
| Surr: Toluene-d8 | 100 | | | 86-108 | %REC | 1.41 | 11/3/2023 18:47 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 1.8 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 11:30 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 1.2 | 1.4 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 29 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 10.1 | | 0.14 | 0.14 | s.u.-dry | 1 | 11/4/2023 10:31 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 12
Collection Date: 10/24/2023 11:40 AM

Work Order: 23102586
Lab ID: 23102586-08
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|-------------|----------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/7/23 | | Analyst: SJB |
| ERO (C10-C36) | 7.1 | J | 2.7 | 21 | mg/Kg-dry | 1 | 11/8/2023 05:40 |
| Surr: 4-Terphenyl-d14 | 32.2 | S | | 34-130 | %REC | 1 | 11/8/2023 05:40 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 6,900 | 7,400 | µg/Kg-dry | 1 | 11/1/2023 20:31 |
| Surr: Toluene-d8 | 103 | | | 75-120 | %REC | 1 | 11/1/2023 20:31 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 5.5 | | 0.032 | 0.27 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| Barium | 110 | | 2.5 | 2.7 | mg/Kg-dry | 10 | 11/2/2023 17:22 |
| Cadmium | 0.11 | | 0.016 | 0.11 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| Copper | 7.9 | | 0.27 | 0.27 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| Lead | 12 | | 0.13 | 0.27 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| Nickel | 7.7 | | 0.14 | 0.27 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| Selenium | 0.53 | | 0.25 | 0.27 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| Silver | U | | 0.035 | 0.27 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| Zinc | 28 | | 0.52 | 0.54 | mg/Kg-dry | 1 | 11/2/2023 01:11 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 59 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 19:09 |
| Magnesium | 8.5 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 19:09 |
| Sodium | 69 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 19:09 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.71 | | 0.017 | 0.42 | mg/Kg-dry | 10 | 10/31/2023 19:15 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 2.2 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/3/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 0.89 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| 2-Methylnaphthalene | U | | 1.0 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Acenaphthene | U | | 1.7 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Anthracene | U | | 0.80 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Benzo(a)anthracene | U | | 3.1 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Benzo(a)pyrene | U | | 2.9 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Benzo(b)fluoranthene | U | | 2.6 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Benzo(k)fluoranthene | U | | 0.66 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Chrysene | U | | 2.9 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 12
Collection Date: 10/24/2023 11:40 AM

Work Order: 23102586
Lab ID: 23102586-08
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.5 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Fluoranthene | U | | 2.2 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Fluorene | U | | 1.1 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Indeno(1,2,3-cd)pyrene | U | | 3.0 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Naphthalene | U | | 0.82 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Pyrene | U | | 2.8 | 4.3 | µg/Kg-dry | 1 | 11/3/2023 23:32 |
| Surr: 2-Fluorobiphenyl | 43.7 | | | 20-140 | %REC | 1 | 11/3/2023 23:32 |
| Surr: 4-Terphenyl-d14 | 39.5 | | | 22-172 | %REC | 1 | 11/3/2023 23:32 |
| Surr: Nitrobenzene-d5 | 41.4 | | | 28-140 | %REC | 1 | 11/3/2023 23:32 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 3.3 | 9.1 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| 1,3,5-Trimethylbenzene | U | | 2.9 | 9.1 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| Benzene | U | | 0.95 | 9.1 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| Ethylbenzene | U | | 1.6 | 9.1 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| m,p-Xylene | U | | 4.0 | 4.6 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| o-Xylene | U | | 2.2 | 4.6 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| Toluene | U | | 3.2 | 9.1 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| Xylenes, Total | U | | 4.0 | 9.1 | µg/Kg-dry | 1.74 | 11/3/2023 19:05 |
| Surr: 1,2-Dichloroethane-d4 | 91.8 | | | 83-132 | %REC | 1.74 | 11/3/2023 19:05 |
| Surr: 4-Bromofluorobenzene | 100 | | | 83-111 | %REC | 1.74 | 11/3/2023 19:05 |
| Surr: Dibromofluoromethane | 88.0 | | | 77-125 | %REC | 1.74 | 11/3/2023 19:05 |
| Surr: Toluene-d8 | 114 | S | | 86-108 | %REC | 1.74 | 11/3/2023 19:05 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 0.60 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 11:30 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.88 | 1.0 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 4.5 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 7.49 | | 0.10 | 0.10 | s.u.-dry | 1 | 11/4/2023 10:31 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 13
Collection Date: 10/24/2023 11:45 AM

Work Order: 23102586
Lab ID: 23102586-09
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|----------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/3/23 | | Analyst: SJB |
| ERO (C10-C36) | 18 | J | 2.8 | 21 | mg/Kg-dry | 1 | 11/4/2023 10:54 |
| Surr: 4-Terphenyl-d14 | 36.2 | | | 34-130 | %REC | 1 | 11/4/2023 10:54 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 7,500 | 8,000 | µg/Kg-dry | 1 | 11/1/2023 20:53 |
| Surr: Toluene-d8 | 106 | | | 75-120 | %REC | 1 | 11/1/2023 20:53 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 4.3 | | 0.034 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| Barium | 400 | | 2.6 | 2.8 | mg/Kg-dry | 10 | 11/2/2023 17:24 |
| Cadmium | 0.059 | J | 0.017 | 0.11 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| Copper | 8.3 | | 0.28 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| Lead | 9.3 | | 0.14 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| Nickel | 6.8 | | 0.15 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| Selenium | 0.69 | | 0.26 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| Silver | U | | 0.037 | 0.28 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| Zinc | 27 | | 0.55 | 0.56 | mg/Kg-dry | 1 | 11/2/2023 01:16 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 100 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 19:10 |
| Magnesium | 9.6 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 19:10 |
| Sodium | 4.1 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 19:10 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.49 | | 0.017 | 0.42 | mg/Kg-dry | 10 | 10/31/2023 19:16 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 0.10 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/3/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 0.90 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| 2-Methylnaphthalene | U | | 1.0 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Acenaphthene | U | | 1.7 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Anthracene | U | | 0.80 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Benzo(a)anthracene | U | | 3.2 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Benzo(a)pyrene | U | | 3.0 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Benzo(b)fluoranthene | U | | 2.6 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Benzo(k)fluoranthene | U | | 0.66 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Chrysene | U | | 2.9 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 13
Collection Date: 10/24/2023 11:45 AM

Work Order: 23102586
Lab ID: 23102586-09
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.6 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Fluoranthene | U | | 2.2 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Fluorene | U | | 1.1 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Indeno(1,2,3-cd)pyrene | U | | 3.0 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Naphthalene | U | | 0.83 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Pyrene | U | | 2.8 | 4.4 | µg/Kg-dry | 1 | 11/3/2023 23:47 |
| Surr: 2-Fluorobiphenyl | 41.5 | | | 20-140 | %REC | 1 | 11/3/2023 23:47 |
| Surr: 4-Terphenyl-d14 | 38.1 | | | 22-172 | %REC | 1 | 11/3/2023 23:47 |
| Surr: Nitrobenzene-d5 | 53.7 | | | 28-140 | %REC | 1 | 11/3/2023 23:47 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 1.2 | 3.4 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| 1,3,5-Trimethylbenzene | U | | 1.1 | 3.4 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| Benzene | U | | 0.35 | 3.4 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| Ethylbenzene | U | | 0.59 | 3.4 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| m,p-Xylene | U | | 1.5 | 1.7 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| o-Xylene | U | | 0.81 | 1.7 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| Toluene | U | | 1.2 | 3.4 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| Xylenes, Total | U | | 1.5 | 3.4 | µg/Kg-dry | 0.631 | 11/3/2023 19:23 |
| Surr: 1,2-Dichloroethane-d4 | 109 | | | 83-132 | %REC | 0.631 | 11/3/2023 19:23 |
| Surr: 4-Bromofluorobenzene | 106 | | | 83-111 | %REC | 0.631 | 11/3/2023 19:23 |
| Surr: Dibromofluoromethane | 110 | | | 77-125 | %REC | 0.631 | 11/3/2023 19:23 |
| Surr: Toluene-d8 | 95.3 | | | 86-108 | %REC | 0.631 | 11/3/2023 19:23 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 0.64 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 11:30 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.86 | 1.0 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 6.3 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 7.35 | | 0.11 | 0.11 | s.u.-dry | 1 | 11/4/2023 10:31 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 14 8'
Collection Date: 10/24/2023 01:00 PM

Work Order: 23102586
Lab ID: 23102586-10
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|-------------|------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/7/23 | | Analyst: SJB |
| ERO (C10-C36) | 10 | J | 3.2 | 24 | mg/Kg-dry | 1 | 11/8/2023 07:32 |
| Surr: 4-Terphenyl-d14 | 14.1 | S | | 34-130 | %REC | 1 | 11/8/2023 07:32 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 6,800 | 7,300 | µg/Kg-dry | 1 | 11/1/2023 21:15 |
| Surr: Toluene-d8 | 104 | | | 75-120 | %REC | 1 | 11/1/2023 21:15 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 6.3 | | 0.044 | 0.37 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| Barium | 230 | | 3.4 | 3.7 | mg/Kg-dry | 10 | 11/2/2023 17:25 |
| Cadmium | U | | 0.022 | 0.15 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| Copper | 13 | | 0.37 | 0.37 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| Lead | 15 | | 0.18 | 0.37 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| Nickel | 13 | | 0.19 | 0.37 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| Selenium | 0.48 | | 0.34 | 0.37 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| Silver | U | | 0.049 | 0.37 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| Zinc | 47 | | 0.72 | 0.74 | mg/Kg-dry | 1 | 11/2/2023 01:18 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 17 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 19:12 |
| Magnesium | 1.6 | J | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 19:12 |
| Sodium | 840 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 19:12 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 4.7 | | 0.020 | 0.49 | mg/Kg-dry | 10 | 10/31/2023 19:18 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 53 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/7/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 1.0 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| 2-Methylnaphthalene | U | | 1.2 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Acenaphthene | U | | 1.9 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Anthracene | U | | 0.92 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Benzo(a)anthracene | U | | 3.6 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Benzo(a)pyrene | U | | 3.4 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Benzo(b)fluoranthene | U | | 3.0 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Benzo(k)fluoranthene | U | | 0.76 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Chrysene | U | | 3.3 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: SP 14 8'
Collection Date: 10/24/2023 01:00 PM

Work Order: 23102586
Lab ID: 23102586-10
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------------------|--------------|----------------|---------------------------------|------------------|
| Dibenzo(a,h)anthracene | U | | 2.9 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Fluoranthene | U | | 2.5 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Fluorene | U | | 1.2 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Indeno(1,2,3-cd)pyrene | U | | 3.5 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Naphthalene | U | | 0.96 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Pyrene | U | | 3.2 | 5.0 | µg/Kg-dry | 1 | 11/7/2023 18:06 |
| Surr: 2-Fluorobiphenyl | 45.1 | | | 20-140 | %REC | 1 | 11/7/2023 18:06 |
| Surr: 4-Terphenyl-d14 | 18.0 | S | | 22-172 | %REC | 1 | 11/7/2023 18:06 |
| Surr: Nitrobenzene-d5 | 28.7 | | | 28-140 | %REC | 1 | 11/7/2023 18:06 |
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 2.2 | 6.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| 1,3,5-Trimethylbenzene | U | | 1.9 | 6.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| Benzene | U | | 0.62 | 6.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| Ethylbenzene | U | | 1.0 | 6.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| m,p-Xylene | U | | 2.6 | 3.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| o-Xylene | U | | 1.4 | 3.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| Toluene | U | | 2.1 | 6.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| Xylenes, Total | U | | 2.6 | 6.0 | µg/Kg-dry | 0.977 | 11/3/2023 19:41 |
| Surr: 1,2-Dichloroethane-d4 | 93.7 | | | 83-132 | %REC | 0.977 | 11/3/2023 19:41 |
| Surr: 4-Bromofluorobenzene | 100 | | | 83-111 | %REC | 0.977 | 11/3/2023 19:41 |
| Surr: Dibromofluoromethane | 90.4 | | | 77-125 | %REC | 0.977 | 11/3/2023 19:41 |
| Surr: Toluene-d8 | 95.1 | | | 86-108 | %REC | 0.977 | 11/3/2023 19:41 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| Electrical Conductivity @ Saturation | 4.6 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 11:30 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | | Prep: SW3060A / 10/29/23 | |
| Chromium, Hexavalent | U | | 0.99 | 1.2 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | Analyst: SGH | |
| Moisture | 19 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | | Prep: USDA Method 20B / 11/3/23 | |
| pH @ Saturation | 8.45 | | 0.12 | 0.12 | s.u.-dry | 1 | 11/4/2023 10:31 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: Duplicate A
Collection Date: 10/24/2023

Work Order: 23102586
Lab ID: 23102586-11
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--|--------------|----------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| DIESEL RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW3546 / 11/7/23 | | Analyst: SJB |
| ERO (C10-C36) | 7.7 | J | 2.7 | 21 | mg/Kg-dry | 1 | 11/8/2023 08:10 |
| Surr: 4-Terphenyl-d14 | 42.3 | | | 34-130 | %REC | 1 | 11/8/2023 08:10 |
| GASOLINE RANGE ORGANICS BY GC-FID | | | | | | | |
| | | | Method: SW8015C | | Prep: SW5035A / 10/31/23 | | Analyst: SJB |
| GRO (C6-C10) | U | | 8,900 | 9,600 | µg/Kg-dry | 1 | 11/1/2023 21:38 |
| Surr: Toluene-d8 | 108 | | | 75-120 | %REC | 1 | 11/1/2023 21:38 |
| METALS BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: SW3050B / 11/1/23 | | Analyst: STP |
| Arsenic | 5.0 | | 0.036 | 0.30 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| Barium | 140 | | 2.8 | 3.0 | mg/Kg-dry | 10 | 11/2/2023 17:27 |
| Cadmium | 0.090 | J | 0.018 | 0.12 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| Copper | 8.0 | | 0.30 | 0.30 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| Lead | 11 | | 0.14 | 0.30 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| Nickel | 8.0 | | 0.16 | 0.30 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| Selenium | 0.46 | | 0.28 | 0.30 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| Silver | U | | 0.040 | 0.30 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| Zinc | 29 | | 0.59 | 0.60 | mg/Kg-dry | 1 | 11/2/2023 01:20 |
| SOLUBLE CATIONS FOR SAR | | | | | | | |
| | | | Method: SW6020B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Calcium | 110 | | 2.5 | 5.0 | mg/L | 10 | 11/6/2023 19:14 |
| Magnesium | 11 | | 0.50 | 2.0 | mg/L | 10 | 11/6/2023 19:14 |
| Sodium | 81 | | 1.8 | 2.0 | mg/L | 10 | 11/6/2023 19:14 |
| HOT WATER SOLUBLE BORON BY ICP-MS | | | | | | | |
| | | | Method: SW6020B | | Prep: EXTRACT / 10/31/23 | | Analyst: DSC |
| Boron (Hot Water Soluble) | 0.71 | | 0.017 | 0.42 | mg/Kg-dry | 10 | 10/31/2023 19:23 |
| SODIUM ADSORPTION RATIO | | | | | | | |
| | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: STP |
| Sodium Adsorption Ratio | 2.0 | | 0.010 | 0.010 | none | 1 | 11/6/2023 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (SIM) | | | | | | | |
| | | | Method: SW8270E | | Prep: SW3546 / 11/3/23 | | Analyst: SMT |
| 1-Methylnaphthalene | U | | 0.89 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| 2-Methylnaphthalene | U | | 1.0 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Acenaphthene | U | | 1.7 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Anthracene | U | | 0.80 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Benzo(a)anthracene | U | | 3.2 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Benzo(a)pyrene | U | | 3.0 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Benzo(b)fluoranthene | U | | 2.6 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Benzo(k)fluoranthene | U | | 0.66 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Chrysene | U | | 2.9 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: Duplicate A
Collection Date: 10/24/2023

Work Order: 23102586
Lab ID: 23102586-11
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|--------------------------------------|--------|------|------------------------------------|--------------|---------------------------------|-----------------|---------------------|
| Dibenzo(a,h)anthracene | U | | 2.5 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Fluoranthene | U | | 2.2 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Fluorene | U | | 1.1 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Indeno(1,2,3-cd)pyrene | U | | 3.0 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Naphthalene | U | | 0.83 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Pyrene | U | | 2.8 | 4.4 | µg/Kg-dry | 1 | 11/4/2023 00:18 |
| Surr: 2-Fluorobiphenyl | 24.9 | | | 20-140 | %REC | 1 | 11/4/2023 00:18 |
| Surr: 4-Terphenyl-d14 | 24.9 | | | 22-172 | %REC | 1 | 11/4/2023 00:18 |
| Surr: Nitrobenzene-d5 | 32.6 | | | 28-140 | %REC | 1 | 11/4/2023 00:18 |
| VOLATILE ORGANIC COMPOUNDS | | | Method: SW8260D | | Prep: SW5035A / 10/31/23 | | Analyst: EZH |
| 1,2,4-Trimethylbenzene | U | | 42 | 57 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| 1,3,5-Trimethylbenzene | U | | 41 | 190 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| Benzene | U | | 28 | 57 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| Ethylbenzene | U | | 41 | 57 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| m,p-Xylene | U | | 77 | 110 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| o-Xylene | U | | 22 | 57 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| Toluene | U | | 47 | 57 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| Xylenes, Total | U | | 77 | 170 | µg/Kg-dry | 1 | 11/6/2023 20:13 |
| Surr: 1,2-Dichloroethane-d4 | 100 | | | 80-120 | %REC | 1 | 11/6/2023 20:13 |
| Surr: 4-Bromofluorobenzene | 98.9 | | | 80-120 | %REC | 1 | 11/6/2023 20:13 |
| Surr: Dibromofluoromethane | 96.1 | | | 80-120 | %REC | 1 | 11/6/2023 20:13 |
| Surr: Toluene-d8 | 105 | | | 80-120 | %REC | 1 | 11/6/2023 20:13 |
| ELECTRICAL CONDUCTIVITY (SAR) | | | Method: USDA H60 METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: CLJ |
| Electrical Conductivity @ Saturation | 0.90 | | 0.011 | 0.10 | mmhos/cm @25°C | 20 | 11/4/2023 11:30 |
| CHROMIUM, HEXAVALENT | | | Method: SW7196A | | Prep: SW3060A / 10/29/23 | | Analyst: AXW |
| Chromium, Hexavalent | U | | 0.88 | 1.0 | mg/Kg-dry | 1 | 11/3/2023 13:22 |
| MOISTURE | | | Method: SW3550C | | | | Analyst: SGH |
| Moisture | 4.4 | | 0.10 | 0.10 | % of sample | 1 | 10/31/2023 13:22 |
| PH MEASURED IN SOIL PASTE | | | Method: USDA METHOD 20B | | Prep: USDA Method 20B / 11/3/23 | | Analyst: CLJ |
| pH @ Saturation | 7.50 | | 0.10 | 0.10 | s.u.-dry | 1 | 11/4/2023 10:31 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 14-Nov-23

Client: Mull Drilling Company
Project: Mauer Location
Sample ID: Trip Blank
Collection Date: 10/24/2023

Work Order: 23102586
Lab ID: 23102586-12
Matrix: SOIL

| Analyses | Result | Qual | MDL | Report Limit | Units | Dilution Factor | Date Analyzed |
|---|--------|------|------------------------|--------------|-------|---------------------|-----------------|
| VOLATILE ORGANIC COMPOUNDS - LOW LEVEL | | | Method: SW8260D | | | Analyst: SBR | |
| 1,2,4-Trimethylbenzene | U | | 1.8 | 5.0 | µg/Kg | 1 | 11/3/2023 12:46 |
| 1,3,5-Trimethylbenzene | U | | 1.6 | 5.0 | µg/Kg | 1 | 11/3/2023 12:46 |
| Benzene | U | | 0.52 | 5.0 | µg/Kg | 1 | 11/3/2023 12:46 |
| Ethylbenzene | U | | 0.87 | 5.0 | µg/Kg | 1 | 11/3/2023 12:46 |
| m,p-Xylene | U | | 2.2 | 2.5 | µg/Kg | 1 | 11/3/2023 12:46 |
| o-Xylene | U | | 1.2 | 2.5 | µg/Kg | 1 | 11/3/2023 12:46 |
| Toluene | U | | 1.7 | 5.0 | µg/Kg | 1 | 11/3/2023 12:46 |
| Xylenes, Total | U | | 2.2 | 5.0 | µg/Kg | 1 | 11/3/2023 12:46 |
| Surr: 1,2-Dichloroethane-d4 | 100 | | | 83-132 | %REC | 1 | 11/3/2023 12:46 |
| Surr: 4-Bromofluorobenzene | 97.5 | | | 83-111 | %REC | 1 | 11/3/2023 12:46 |
| Surr: Dibromofluoromethane | 98.0 | | | 77-125 | %REC | 1 | 11/3/2023 12:46 |
| Surr: Toluene-d8 | 96.6 | | | 86-108 | %REC | 1 | 11/3/2023 12:46 |

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228464** Instrument ID **GC8** Method: **SW8015C**

| | | | | | | | | | | |
|------------------------------|------------|--|--------------|---------------|-------------|------------------------|---------------|--|-----------|--------------|
| MBLK | | Sample ID: DBLKS1-228464-228464 | | | | Units: mg/Kg | | Analysis Date: 11/2/2023 03:50 PM | | |
| Client ID: | | Run ID: GC8_231102A | | | | SeqNo: 10170344 | | Prep Date: 11/2/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 2.867 | 20 | | | | | | | | J |
| <i>Surr: 4-Terphenyl-d14</i> | <i>0.5</i> | <i>0</i> | <i>0.828</i> | <i>0</i> | <i>60.4</i> | <i>34-130</i> | <i>0</i> | | | |

| | | | | | | | | | | |
|------------------------------|---------------|--|--------------|---------------|-------------|------------------------|---------------|--|-----------|--------------|
| LCS | | Sample ID: DLCSS1-228464-228464 | | | | Units: mg/Kg | | Analysis Date: 11/2/2023 04:27 PM | | |
| Client ID: | | Run ID: GC8_231102A | | | | SeqNo: 10170345 | | Prep Date: 11/2/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 678.9 | 20 | 833 | 0 | 81.5 | 50-150 | 0 | | | |
| <i>Surr: 4-Terphenyl-d14</i> | <i>0.5833</i> | <i>0</i> | <i>0.828</i> | <i>0</i> | <i>70.5</i> | <i>34-130</i> | <i>0</i> | | | |

| | | | | | | | | | | |
|------------------------------|---------------|-----------------------------------|--------------|---------------|-------------|------------------------|---------------|--|-----------|--------------|
| MS | | Sample ID: 23102586-04A MS | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 08:22 PM | | |
| Client ID: SP 8 | | Run ID: GC8_231102A | | | | SeqNo: 10170383 | | Prep Date: 11/2/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 893.3 | 20 | 826.9 | 66.95 | 99.9 | 50-150 | 0 | | | |
| <i>Surr: 4-Terphenyl-d14</i> | <i>0.5956</i> | <i>0</i> | <i>0.822</i> | <i>0</i> | <i>72.5</i> | <i>34-130</i> | <i>0</i> | | | |

| | | | | | | | | | | |
|------------------------------|---------------|------------------------------------|---------------|---------------|-------------|------------------------|---------------|--|-----------|--------------|
| MSD | | Sample ID: 23102586-04A MSD | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 08:59 PM | | |
| Client ID: SP 8 | | Run ID: GC8_231102A | | | | SeqNo: 10170384 | | Prep Date: 11/2/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 866.5 | 20 | 823.7 | 66.95 | 97.1 | 50-150 | 893.3 | 3.05 | 30 | |
| <i>Surr: 4-Terphenyl-d14</i> | <i>0.5768</i> | <i>0</i> | <i>0.8188</i> | <i>0</i> | <i>70.5</i> | <i>34-130</i> | <i>0.5956</i> | <i>3.21</i> | <i>30</i> | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01A | 23102586-02A | 23102586-03A |
| 23102586-04A | 23102586-05A | 23102586-06A |

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228541** Instrument ID **GC8** Method: **SW8015C**

| | | | | | | | | | | |
|-----------------------|--------|--|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MBLK | | Sample ID: DBLKS1-228541-228541 | | | | Units: mg/Kg | | Analysis Date: 11/4/2023 01:56 AM | | |
| Client ID: | | Run ID: GC8_231102A | | | | SeqNo: 10170392 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 4.95 | 20 | | | | | | | | J |
| Surr: 4-Terphenyl-d14 | 0.4833 | 0 | 0.828 | 0 | 58.4 | 34-130 | 0 | | | |

| | | | | | | | | | | |
|-----------------------|--------|--|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| LCS | | Sample ID: DLCSS1-228541-228541 | | | | Units: mg/Kg | | Analysis Date: 11/4/2023 02:33 AM | | |
| Client ID: | | Run ID: GC8_231102A | | | | SeqNo: 10170393 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 708.6 | 20 | 833 | 0 | 85.1 | 50-150 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 0.5833 | 0 | 0.828 | 0 | 70.5 | 34-130 | 0 | | | |

| | | | | | | | | | | |
|----------------------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MS | | Sample ID: 23102586-10A MS | | | | Units: mg/Kg | | Analysis Date: 11/4/2023 03:09 AM | | |
| Client ID: SP 14 8' | | Run ID: GC8_231102A | | | | SeqNo: 10170394 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 768.5 | 20 | 828 | 35.01 | 88.6 | 50-150 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 0.4805 | 0 | 0.8231 | 0 | 58.4 | 34-130 | 0 | | | |

| | | | | | | | | | | |
|----------------------------|--------|------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MSD | | Sample ID: 23102586-10A MSD | | | | Units: mg/Kg | | Analysis Date: 11/4/2023 03:46 AM | | |
| Client ID: SP 14 8' | | Run ID: GC8_231102A | | | | SeqNo: 10170395 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 219.6 | 20 | 815.1 | 35.01 | 22.6 | 50-150 | 768.5 | 111 | 30 | SR |
| Surr: 4-Terphenyl-d14 | 0.1631 | 0 | 0.8102 | 0 | 20.1 | 34-130 | 0.4805 | 98.6 | 30 | SR |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228715** Instrument ID **GC8** Method: **SW8015C**

| | | | | | | | | | | |
|-----------------------|--------|--|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MBLK | | Sample ID: DBLKS1-228715-228715 | | | | Units: mg/Kg | | Analysis Date: 11/7/2023 08:18 PM | | |
| Client ID: | | Run ID: GC8_231107D | | | | SeqNo: 10179363 | | Prep Date: 11/7/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 3.8 | 20 | | | | | | | | J |
| Surr: 4-Terphenyl-d14 | 0.5167 | 0 | 0.828 | 0 | 62.4 | 34-130 | 0 | | | |

| | | | | | | | | | | |
|-----------------------|--------|--|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| LCS | | Sample ID: DLCSS1-228715-228715 | | | | Units: mg/Kg | | Analysis Date: 11/7/2023 08:55 PM | | |
| Client ID: | | Run ID: GC8_231107D | | | | SeqNo: 10179364 | | Prep Date: 11/7/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 709.5 | 20 | 833 | 0 | 85.2 | 50-150 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 0.6167 | 0 | 0.828 | 0 | 74.5 | 34-130 | 0 | | | |

| | | | | | | | | | | |
|-----------------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MS | | Sample ID: 23102585-06A MS | | | | Units: mg/Kg | | Analysis Date: 11/7/2023 09:33 PM | | |
| Client ID: | | Run ID: GC8_231107D | | | | SeqNo: 10179365 | | Prep Date: 11/7/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 326.7 | 19 | 803.5 | 4.161 | 40.1 | 50-150 | 0 | | | S |
| Surr: 4-Terphenyl-d14 | 0.1286 | 0 | 0.7987 | 0 | 16.1 | 34-130 | 0 | | | S |

| | | | | | | | | | | |
|-----------------------|---------|------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MSD | | Sample ID: 23102585-06A MSD | | | | Units: mg/Kg | | Analysis Date: 11/7/2023 10:10 PM | | |
| Client ID: | | Run ID: GC8_231107D | | | | SeqNo: 10179366 | | Prep Date: 11/7/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| ERO (C10-C36) | 148.8 | 19 | 796.9 | 4.161 | 18.1 | 50-150 | 326.7 | 74.8 | 30 | SR |
| Surr: 4-Terphenyl-d14 | 0.09566 | 0 | 0.7921 | 0 | 12.1 | 34-130 | 0.1286 | 29.4 | 30 | S |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-06A | 23102586-08A | 23102586-10A |
| 23102586-11A | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228305** Instrument ID **GC9** Method: **SW8015C**

| | | | | | | | | | | |
|------------------|--------|--------------------------------------|---------|---------------|------|-------------------------|---------------|--|-----------|--------------|
| MBLK | | Sample ID: MBLK-228305-228305 | | | | Units: µg/Kg-dry | | Analysis Date: 11/1/2023 03:20 PM | | |
| Client ID: | | Run ID: GC9_231101A | | | | SeqNo: 10157154 | | Prep Date: 10/31/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | U | 5,000 | 0 | 0 | 0 | | 0 | | | |
| Surr: Toluene-d8 | 4982 | 0 | 5000 | 0 | 99.6 | 75-120 | 0 | | | |

| | | | | | | | | | | |
|------------------|--------|-------------------------------------|---------|---------------|------|-------------------------|---------------|--|-----------|--------------|
| LCS | | Sample ID: LCS-228305-228305 | | | | Units: µg/Kg-dry | | Analysis Date: 11/1/2023 02:35 PM | | |
| Client ID: | | Run ID: GC9_231101A | | | | SeqNo: 10157153 | | Prep Date: 10/31/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 254800 | 5,000 | 250000 | 0 | 102 | 63-126 | 0 | | | |
| Surr: Toluene-d8 | 5464 | 0 | 5000 | 0 | 109 | 75-120 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|-----------------------------------|---------|---------------|------|-------------------------|---------------|--|-----------|--------------|
| MS | | Sample ID: 23102586-07C MS | | | | Units: µg/Kg-dry | | Analysis Date: 11/1/2023 05:55 PM | | |
| Client ID: SP 11 | | Run ID: GC9_231101A | | | | SeqNo: 10157161 | | Prep Date: 10/31/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 248400 | 4,900 | 242700 | 0 | 102 | 63-126 | 0 | | | |
| Surr: Toluene-d8 | 5451 | 0 | 4855 | 0 | 112 | 75-120 | 0 | | | |

| | | | | | | | | | | |
|-------------------------|--------|------------------------------------|---------|---------------|------|-------------------------|---------------|--|-----------|--------------|
| MSD | | Sample ID: 23102586-07C MSD | | | | Units: µg/Kg-dry | | Analysis Date: 11/1/2023 06:18 PM | | |
| Client ID: SP 11 | | Run ID: GC9_231101A | | | | SeqNo: 10157162 | | Prep Date: 10/31/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| GRO (C6-C10) | 317400 | 4,900 | 242700 | 0 | 131 | 63-126 | 248400 | 24.4 | 30 | S |
| Surr: Toluene-d8 | 5804 | 0 | 4855 | 0 | 120 | 75-120 | 5451 | 6.28 | 30 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01C | 23102586-02C | 23102586-03C |
| 23102586-04C | 23102586-05C | 23102586-06C |
| 23102586-07C | 23102586-08C | 23102586-09C |
| 23102586-10C | 23102586-11C | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228316** Instrument ID **ICPMS3** Method: **SW6020B**

| MBLK | | Sample ID: MBLK-228316-228316 | | | | Units: mg/Kg | | Analysis Date: 11/1/2023 11:54 PM | | |
|------------|--------|--------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: ICPMS3_231101B | | | | SeqNo: 10155917 | | Prep Date: 11/1/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | U | 0.25 | | | | | | | | |
| Barium | U | 0.25 | | | | | | | | |
| Cadmium | U | 0.10 | | | | | | | | |
| Copper | U | 0.25 | | | | | | | | |
| Lead | U | 0.25 | | | | | | | | |
| Nickel | U | 0.25 | | | | | | | | |
| Selenium | U | 0.25 | | | | | | | | |
| Silver | U | 0.25 | | | | | | | | |
| Zinc | U | 0.50 | | | | | | | | |

| LCS | | Sample ID: LCS-228316-228316 | | | | Units: mg/Kg | | Analysis Date: 11/1/2023 11:56 PM | | |
|------------|--------|-------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| Client ID: | | Run ID: ICPMS3_231101B | | | | SeqNo: 10155918 | | Prep Date: 11/1/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 5.078 | 0.25 | 5 | 0 | 102 | 80-120 | 0 | | | |
| Barium | 5.211 | 0.25 | 5 | 0 | 104 | 80-120 | 0 | | | |
| Cadmium | 5.167 | 0.10 | 5 | 0 | 103 | 80-120 | 0 | | | |
| Copper | 5.3 | 0.25 | 5 | 0 | 106 | 80-120 | 0 | | | |
| Lead | 5.232 | 0.25 | 5 | 0 | 105 | 80-120 | 0 | | | |
| Nickel | 5.29 | 0.25 | 5 | 0 | 106 | 80-120 | 0 | | | |
| Selenium | 5.188 | 0.25 | 5 | 0 | 104 | 80-120 | 0 | | | |
| Silver | 5.228 | 0.25 | 5 | 0 | 105 | 80-120 | 0 | | | |
| Zinc | 5.213 | 0.50 | 5 | 0 | 104 | 80-120 | 0 | | | |

| MS | | Sample ID: 23102585-01AMS | | | | Units: mg/Kg | | Analysis Date: 11/2/2023 | | |
|------------|--------|----------------------------------|---------|---------------|------|------------------------|---------------|---------------------------------|-----------|--------------|
| Client ID: | | Run ID: ICPMS3_231101B | | | | SeqNo: 10155920 | | Prep Date: 11/1/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 8.85 | 0.31 | 6.234 | 3.981 | 78.1 | 75-125 | 0 | | | |
| Lead | 17.61 | 0.31 | 6.234 | 10.95 | 107 | 75-125 | 0 | | | |
| Nickel | 14.53 | 0.31 | 6.234 | 9.341 | 83.2 | 75-125 | 0 | | | |
| Zinc | 39.57 | 0.62 | 6.234 | 31.02 | 137 | 75-125 | 0 | | | SO |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
 Work Order: 23102586
 Project: Mauer Location

QC BATCH REPORT

Batch ID: **228316** Instrument ID **ICPMS3** Method: **SW6020B**

| MS | | | | Sample ID: 23102585-01AMS | | | Units: mg/Kg | | Analysis Date: 11/2/2023 04:29 PM | |
|------------|--------|-------------------------------|---------|----------------------------------|------------------------|---------------|-----------------------------|------|--|------|
| Client ID: | | Run ID: ICPMS3_231102B | | | SeqNo: 10159902 | | Prep Date: 11/1/2023 | | DF: 10 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Barium | 214.3 | 3.1 | 6.234 | 169.6 | 717 | 75-125 | 0 | | | SO |
| Cadmium | 6.227 | 1.2 | 6.234 | 0.129 | 97.8 | 75-125 | 0 | | | |
| Copper | 19.16 | 3.1 | 6.234 | 12.13 | 113 | 75-125 | 0 | | | |
| Selenium | 5.671 | 3.1 | 6.234 | 0.7299 | 79.3 | 75-125 | 0 | | | |
| Silver | 6.601 | 3.1 | 6.234 | 0.03811 | 105 | 75-125 | 0 | | | |

| MSD | | | | Sample ID: 23102585-01AMSD | | | Units: mg/Kg | | Analysis Date: 11/2/2023 12:02 AM | |
|------------|--------|-------------------------------|---------|-----------------------------------|------------------------|---------------|-----------------------------|------|--|------|
| Client ID: | | Run ID: ICPMS3_231101B | | | SeqNo: 10155921 | | Prep Date: 11/1/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 8.658 | 0.31 | 6.142 | 3.981 | 76.2 | 75-125 | 8.85 | 2.19 | 20 | |
| Lead | 17.25 | 0.31 | 6.142 | 10.95 | 103 | 75-125 | 17.61 | 2.02 | 20 | |
| Nickel | 14.29 | 0.31 | 6.142 | 9.341 | 80.6 | 75-125 | 14.53 | 1.61 | 20 | |
| Zinc | 38.22 | 0.61 | 6.142 | 31.02 | 117 | 75-125 | 39.57 | 3.47 | 20 | O |

| MSD | | | | Sample ID: 23102585-01AMSD | | | Units: mg/Kg | | Analysis Date: 11/2/2023 04:31 PM | |
|------------|--------|-------------------------------|---------|-----------------------------------|------------------------|---------------|-----------------------------|------|--|------|
| Client ID: | | Run ID: ICPMS3_231102B | | | SeqNo: 10159903 | | Prep Date: 11/1/2023 | | DF: 10 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Barium | 310.9 | 3.1 | 6.142 | 169.6 | 2300 | 75-125 | 214.3 | 36.8 | 20 | SRO |
| Cadmium | 6.436 | 1.2 | 6.142 | 0.129 | 103 | 75-125 | 6.227 | 3.29 | 20 | |
| Copper | 18.49 | 3.1 | 6.142 | 12.13 | 104 | 75-125 | 19.16 | 3.57 | 20 | |
| Selenium | 6.318 | 3.1 | 6.142 | 0.7299 | 91 | 75-125 | 5.671 | 10.8 | 20 | |
| Silver | 6.46 | 3.1 | 6.142 | 0.03811 | 105 | 75-125 | 6.601 | 2.15 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01A | 23102586-02A | 23102586-03A |
| 23102586-04A | 23102586-05A | 23102586-06A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228317** Instrument ID **ICPMS3** Method: **SW6020B**

| | | | | | | | | | | |
|---------------------------|---------|--------------------------------------|---------|------------------------|------|------------------------------|---------------|---|-----------|------|
| MBLK | | Sample ID: MBLK-228317-228317 | | | | Units: mg/Kg | | Analysis Date: 10/31/2023 06:13 PM | | |
| Client ID: | | Run ID: ICPMS3_231031B | | SeqNo: 10150529 | | Prep Date: 10/31/2023 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron (Hot Water Soluble) | 0.01074 | 0.040 | | | | | | | | J |

| | | | | | | | | | | |
|---------------------------|--------|-------------------------------------|---------|------------------------|------|------------------------------|---------------|---|-----------|------|
| LCS | | Sample ID: LCS-228317-228317 | | | | Units: mg/Kg | | Analysis Date: 10/31/2023 06:15 PM | | |
| Client ID: | | Run ID: ICPMS3_231031B | | SeqNo: 10150530 | | Prep Date: 10/31/2023 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron (Hot Water Soluble) | 0.8809 | 0.040 | 1 | 0 | 88.1 | 80-120 | | 0 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01A | 23102586-02A | 23102586-03A |
| 23102586-04A | 23102586-05A | 23102586-06A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228324** Instrument ID **ICPMS3** Method: **SW6020B**

| | | | | | | | | | | |
|---------------------------|----------|--------------------------------------|---------|------------------------|------|------------------------------|---------------|---|-----------|------|
| MBLK | | Sample ID: MBLK-228324-228324 | | | | Units: mg/Kg | | Analysis Date: 10/31/2023 07:03 PM | | |
| Client ID: | | Run ID: ICPMS3_231031B | | SeqNo: 10150557 | | Prep Date: 10/31/2023 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron (Hot Water Soluble) | 0.008178 | 0.040 | | | | | | | | J |

| | | | | | | | | | | |
|---------------------------|--------|-------------------------------------|---------|------------------------|------|------------------------------|---------------|---|-----------|------|
| LCS | | Sample ID: LCS-228324-228324 | | | | Units: mg/Kg | | Analysis Date: 10/31/2023 07:04 PM | | |
| Client ID: | | Run ID: ICPMS3_231031B | | SeqNo: 10150558 | | Prep Date: 10/31/2023 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Boron (Hot Water Soluble) | 0.8744 | 0.040 | 1 | 0 | 87.4 | 80-120 | | 0 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228325** Instrument ID **ICPMS3** Method: **SW6020B**

| Sample ID: MBLK-228325-228325 | | | | Units: mg/Kg | | Analysis Date: 11/2/2023 12:54 AM | | | | |
|--------------------------------------|--------|-------------------------------|---------|---------------------|------------------------|--|-----------------------------|------|--------------|------|
| Client ID: | | Run ID: ICPMS3_231101B | | | SeqNo: 10155948 | | Prep Date: 11/1/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | U | 0.25 | | | | | | | | |
| Barium | U | 0.25 | | | | | | | | |
| Cadmium | U | 0.10 | | | | | | | | |
| Copper | U | 0.25 | | | | | | | | |
| Lead | U | 0.25 | | | | | | | | |
| Nickel | U | 0.25 | | | | | | | | |
| Selenium | U | 0.25 | | | | | | | | |
| Silver | U | 0.25 | | | | | | | | |
| Zinc | U | 0.50 | | | | | | | | |

| LCS | | | | | Sample ID: LCS-228325-228325 | | | Units: mg/Kg | | Analysis Date: 11/2/2023 12:56 AM | | |
|------------|--------|------|------------------------|---------------|------------------------------|-----------------|---------------|----------------------|-----------|-----------------------------------|--|--|
| Client ID: | | | Run ID: ICPMS3_231101B | | | SeqNo: 10155949 | | Prep Date: 11/1/2023 | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | |
| Arsenic | 5.136 | 0.25 | 5 | 0 | 103 | 80-120 | 0 | | | | | |
| Barium | 5.163 | 0.25 | 5 | 0 | 103 | 80-120 | 0 | | | | | |
| Cadmium | 4.945 | 0.10 | 5 | 0 | 98.9 | 80-120 | 0 | | | | | |
| Copper | 5.179 | 0.25 | 5 | 0 | 104 | 80-120 | 0 | | | | | |
| Lead | 5.209 | 0.25 | 5 | 0 | 104 | 80-120 | 0 | | | | | |
| Nickel | 5.239 | 0.25 | 5 | 0 | 105 | 80-120 | 0 | | | | | |
| Selenium | 5.103 | 0.25 | 5 | 0 | 102 | 80-120 | 0 | | | | | |
| Silver | 5.035 | 0.25 | 5 | 0 | 101 | 80-120 | 0 | | | | | |
| Zinc | 5.044 | 0.50 | 5 | 0 | 101 | 80-120 | 0 | | | | | |

| MS | | | | Sample ID: 23102584-04AMS | | | | Units: mg/Kg | | Analysis Date: 11/2/2023 01:05 AM | |
|------------|--------|------|------------------------|---------------------------|------|-----------------|---------------|----------------------|-----------|-----------------------------------|--|
| Client ID: | | | Run ID: ICPMS3_231101B | | | SeqNo: 10155954 | | Prep Date: 11/1/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Arsenic | 7.534 | 0.26 | 5.16 | 3.185 | 84.3 | 75-125 | | 0 | | | |
| Cadmium | 4.243 | 0.10 | 5.16 | 0.1231 | 79.8 | 75-125 | | 0 | | | |
| Nickel | 10.84 | 0.26 | 5.16 | 6.581 | 82.6 | 75-125 | | 0 | | | |
| Selenium | 4.696 | 0.26 | 5.16 | 0.4143 | 83 | 75-125 | | 0 | | | |
| Silver | 4.185 | 0.26 | 5.16 | 0.02433 | 80.6 | 75-125 | | 0 | | | |
| Zinc | 33.08 | 0.52 | 5.16 | 23.13 | 193 | 75-125 | | 0 | | SO | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228325** Instrument ID **ICPMS3** Method: **SW6020B**

| MS | | | | Sample ID: 23102584-04AMS | | | Units: mg/Kg | | Analysis Date: 11/2/2023 05:14 PM | |
|------------|--------|-------------------------------|---------|----------------------------------|------------------------|---------------|-----------------------------|------|--|------|
| Client ID: | | Run ID: ICPMS3_231102B | | | SeqNo: 10159927 | | Prep Date: 11/1/2023 | | DF: 10 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Barium | 92.48 | 2.6 | 5.16 | 91.54 | 18.3 | 75-125 | 0 | | | SO |
| Copper | 12.77 | 2.6 | 5.16 | 8.111 | 90.2 | 75-125 | 0 | | | |
| Lead | 22.42 | 2.6 | 5.16 | 14.92 | 146 | 75-125 | 0 | | | S |

| MSD | | | | Sample ID: 23102584-04AMSD | | | Units: mg/Kg | | Analysis Date: 11/2/2023 01:07 AM | |
|------------|--------|-------------------------------|---------|-----------------------------------|------------------------|---------------|-----------------------------|------|--|------|
| Client ID: | | Run ID: ICPMS3_231101B | | | SeqNo: 10155955 | | Prep Date: 11/1/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Arsenic | 7.624 | 0.27 | 5.336 | 3.185 | 83.2 | 75-125 | 7.534 | 1.18 | 20 | |
| Cadmium | 4.435 | 0.11 | 5.336 | 0.1231 | 80.8 | 75-125 | 4.243 | 4.44 | 20 | |
| Nickel | 11.08 | 0.27 | 5.336 | 6.581 | 84.2 | 75-125 | 10.84 | 2.11 | 20 | |
| Selenium | 4.88 | 0.27 | 5.336 | 0.4143 | 83.7 | 75-125 | 4.696 | 3.83 | 20 | |
| Silver | 4.336 | 0.27 | 5.336 | 0.02433 | 80.8 | 75-125 | 4.185 | 3.54 | 20 | |
| Zinc | 27.31 | 0.53 | 5.336 | 23.13 | 78.3 | 75-125 | 33.08 | 19.1 | 20 | O |

| MSD | | | | Sample ID: 23102584-04AMSD | | | Units: mg/Kg | | Analysis Date: 11/2/2023 05:15 PM | |
|------------|--------|-------------------------------|---------|-----------------------------------|------------------------|---------------|-----------------------------|-------|--|------|
| Client ID: | | Run ID: ICPMS3_231102B | | | SeqNo: 10159928 | | Prep Date: 11/1/2023 | | DF: 10 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Barium | 92.22 | 2.7 | 5.336 | 91.54 | 12.7 | 75-125 | 92.48 | 0.287 | 20 | SO |
| Copper | 13.1 | 2.7 | 5.336 | 8.111 | 93.5 | 75-125 | 12.77 | 2.58 | 20 | |
| Lead | 19.34 | 2.7 | 5.336 | 14.92 | 82.9 | 75-125 | 22.42 | 14.8 | 20 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: 228578 Instrument ID ICPMS3 Method: SW6020B

| DUP | | Sample ID: 23102585-09ADUP | | | | Units: mg/L | | Analysis Date: 11/6/2023 06:33 PM | | |
|------------|--------|----------------------------|---------|---------------|------|-----------------|---------------|-----------------------------------|-----------|--------|
| Client ID: | | Run ID: ICPMS3_231106A | | | | SeqNo: 10172339 | | Prep Date: 11/3/2023 | | DF: 10 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 454.5 | 5.0 | 0 | 0 | 0 | 0-0 | 376.4 | 18.8 | | |
| Magnesium | 105.8 | 2.0 | 0 | 0 | 0 | 0-0 | 87.15 | 19.3 | | |
| Sodium | 439.5 | 2.0 | 0 | 0 | 0 | 0-0 | 371.5 | 16.8 | | |

| | | | |
|--|--------------|--------------|--------------|
| The following samples were analyzed in this batch: | 23102586-01A | 23102586-02A | 23102586-03A |
| | 23102586-04A | 23102586-05A | 23102586-06A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228580** Instrument ID **ICPMS3** Method: **SW6020B**

| DUP | | Sample ID: 23102586-11ADUP | | | | Units: mg/L | | Analysis Date: 11/6/2023 07:15 PM | | |
|-------------------------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|---------------|
| Client ID: Duplicate A | | Run ID: ICPMS3_231106A | | | | SeqNo: 10172364 | | Prep Date: 11/3/2023 | | DF: 10 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Calcium | 48.69 | 5.0 | 0 | 0 | 0 | 0-0 | 107.7 | 75.5 | | |
| Magnesium | 8.539 | 2.0 | 0 | 0 | 0 | 0-0 | 11.41 | 28.8 | | |
| Sodium | 69.27 | 2.0 | 0 | 0 | 0 | 0-0 | 81.06 | 15.7 | | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: 228578 Instrument ID SAR Method: USDA H60 Metho

| | | | | | | | | | | |
|-------------------------|--------|----------------------------|---------|---------------|------|-----------------|---------------|--------------------------|-----------|-------|
| DUP | | Sample ID: 23102585-09ADUP | | | | Units: none | | Analysis Date: 11/6/2023 | | |
| Client ID: | | Run ID: SAR_231106A | | | | SeqNo: 10172827 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Sodium Adsorption Ratio | 4.826 | 0.010 | 0 | 0 | 0 | | 4.486 | 7.3 | 50 | |

| | | | |
|--|--------------|--------------|--------------|
| The following samples were analyzed in this batch: | 23102586-01A | 23102586-02A | 23102586-03A |
| | 23102586-04A | 23102586-05A | 23102586-06A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228580** Instrument ID **SAR** Method: **USDA H60 Metho**

| | | | | | | | | | | |
|-------------------------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|---------------------------------|-----------|--------------|
| DUP | | Sample ID: 23102586-11ADUP | | | | Units: none | | Analysis Date: 11/6/2023 | | |
| Client ID: Duplicate A | | Run ID: SAR_231106B | | | | SeqNo: 10172848 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Sodium Adsorption Ratio | 2.408 | 0.010 | 0 | 0 | 0 | | 1.985 | 19.3 | 50 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
 Work Order: 23102586
 Project: Mauer Location

QC BATCH REPORT

Batch ID: **228463** Instrument ID **SVMS6** Method: **SW8270E**

| MBLK | | | | Sample ID: SBLKS1-228463-228463 | | | Units: µg/Kg | | Analysis Date: 11/2/2023 04:32 PM | | |
|------------------------|--------|-----|-----------------------|---------------------------------|------|-----------------|---------------|----------------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS6_231102B | | | SeqNo: 10162113 | | Prep Date: 11/2/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1-Methylnaphthalene | U | 4.2 | | | | | | | | | |
| 2-Methylnaphthalene | U | 4.2 | | | | | | | | | |
| Acenaphthene | U | 4.2 | | | | | | | | | |
| Anthracene | U | 4.2 | | | | | | | | | |
| Benzo(a)anthracene | U | 4.2 | | | | | | | | | |
| Benzo(a)pyrene | U | 4.2 | | | | | | | | | |
| Benzo(b)fluoranthene | U | 4.2 | | | | | | | | | |
| Benzo(k)fluoranthene | U | 4.2 | | | | | | | | | |
| Chrysene | U | 4.2 | | | | | | | | | |
| Dibenzo(a,h)anthracene | U | 4.2 | | | | | | | | | |
| Fluoranthene | U | 4.2 | | | | | | | | | |
| Fluorene | U | 4.2 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | U | 4.2 | | | | | | | | | |
| Naphthalene | U | 4.2 | | | | | | | | | |
| Pyrene | U | 4.2 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 599.3 | 0 | 666.6 | 0 | 89.9 | 20-140 | | 0 | | | |
| Surr: 4-Terphenyl-d14 | 582.3 | 0 | 666.6 | 0 | 87.3 | 22-172 | | 0 | | | |
| Surr: Nitrobenzene-d5 | 709.3 | 0 | 666.6 | 0 | 106 | 28-140 | | 0 | | | |

| LCS | | | | Sample ID: SLCSS1-228463-228463 | | | Units: µg/Kg | | Analysis Date: 11/2/2023 04:48 PM | | |
|------------------------|--------|-----|-----------------------|---------------------------------|------|-----------------|---------------|----------------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS6_231102B | | | SeqNo: 10162114 | | Prep Date: 11/2/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1-Methylnaphthalene | 684.9 | 4.2 | 666.6 | 0 | 103 | 40-140 | 0 | | | | |
| 2-Methylnaphthalene | 809 | 4.2 | 666.6 | 0 | 121 | 40-140 | 0 | | | | |
| Acenaphthene | 719.9 | 4.2 | 666.6 | 0 | 108 | 40-140 | 0 | | | | |
| Anthracene | 727.2 | 4.2 | 666.6 | 0 | 109 | 40-140 | 0 | | | | |
| Benzo(a)anthracene | 704.8 | 4.2 | 666.6 | 0 | 106 | 40-140 | 0 | | | | |
| Benzo(a)pyrene | 697.8 | 4.2 | 666.6 | 0 | 105 | 40-140 | 0 | | | | |
| Benzo(b)fluoranthene | 604.3 | 4.2 | 666.6 | 0 | 90.6 | 40-140 | 0 | | | | |
| Benzo(k)fluoranthene | 683.9 | 4.2 | 666.6 | 0 | 103 | 40-140 | 0 | | | | |
| Chrysene | 744.2 | 4.2 | 666.6 | 0 | 112 | 40-140 | 0 | | | | |
| Dibenzo(a,h)anthracene | 638 | 4.2 | 666.6 | 0 | 95.7 | 40-140 | 0 | | | | |
| Fluoranthene | 724.7 | 4.2 | 666.6 | 0 | 109 | 40-140 | 0 | | | | |
| Fluorene | 678.3 | 4.2 | 666.6 | 0 | 102 | 40-140 | 0 | | | | |
| Indeno(1,2,3-cd)pyrene | 648.6 | 4.2 | 666.6 | 0 | 97.3 | 40-140 | 0 | | | | |
| Naphthalene | 745.8 | 4.2 | 666.6 | 0 | 112 | 40-140 | 0 | | | | |
| Pyrene | 701.7 | 4.2 | 666.6 | 0 | 105 | 40-140 | 0 | | | | |
| Surr: 2-Fluorobiphenyl | 557.7 | 0 | 666.6 | 0 | 83.7 | 20-140 | 0 | | | | |
| Surr: 4-Terphenyl-d14 | 537.4 | 0 | 666.6 | 0 | 80.6 | 22-172 | 0 | | | | |
| Surr: Nitrobenzene-d5 | 599.1 | 0 | 666.6 | 0 | 89.9 | 28-140 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228463** Instrument ID **SVMS6** Method: **SW8270E**

| MS | | | | Sample ID: 23102585-07A MS | | | Units: µg/Kg | | Analysis Date: 11/2/2023 10:34 PM | |
|-------------------------------|--------|------------------------------|---------|-----------------------------------|------------------------|---------------|-----------------------------|------|--|------|
| Client ID: | | Run ID: SVMS6_231102B | | | SeqNo: 10162115 | | Prep Date: 11/2/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1-Methylnaphthalene | 395.6 | 4.0 | 646 | 0 | 61.2 | 40-140 | 0 | | | |
| 2-Methylnaphthalene | 406.6 | 4.0 | 646 | 0 | 62.9 | 40-140 | 0 | | | |
| Acenaphthene | 426.9 | 4.0 | 646 | 0 | 66.1 | 40-140 | 0 | | | |
| Anthracene | 438 | 4.0 | 646 | 0 | 67.8 | 40-140 | 0 | | | |
| Benzo(a)anthracene | 416.9 | 4.0 | 646 | 0 | 64.5 | 40-140 | 0 | | | |
| Benzo(a)pyrene | 429.7 | 4.0 | 646 | 0 | 66.5 | 40-140 | 0 | | | |
| Benzo(b)fluoranthene | 380.7 | 4.0 | 646 | 0 | 58.9 | 40-140 | 0 | | | |
| Benzo(k)fluoranthene | 409.6 | 4.0 | 646 | 0 | 63.4 | 40-140 | 0 | | | |
| Chrysene | 454.9 | 4.0 | 646 | 0 | 70.4 | 40-140 | 0 | | | |
| Dibenzo(a,h)anthracene | 373.4 | 4.0 | 646 | 0 | 57.8 | 40-140 | 0 | | | |
| Fluoranthene | 445.2 | 4.0 | 646 | 0 | 68.9 | 40-140 | 0 | | | |
| Fluorene | 403.4 | 4.0 | 646 | 0 | 62.5 | 40-140 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 382.4 | 4.0 | 646 | 0 | 59.2 | 40-140 | 0 | | | |
| Naphthalene | 446.2 | 4.0 | 646 | 0 | 69.1 | 40-140 | 0 | | | |
| Pyrene | 414.3 | 4.0 | 646 | 0 | 64.1 | 40-140 | 0 | | | |
| <i>Surr: 2-Fluorobiphenyl</i> | 335.9 | 0 | 646 | 0 | 52 | 20-140 | 0 | | | |
| <i>Surr: 4-Terphenyl-d14</i> | 321.9 | 0 | 646 | 0 | 49.8 | 22-172 | 0 | | | |
| <i>Surr: Nitrobenzene-d5</i> | 390.5 | 0 | 646 | 0 | 60.5 | 28-140 | 0 | | | |

| MSD | | | | Sample ID: 23102585-07A MSD | | | Units: µg/Kg | | Analysis Date: 11/2/2023 10:50 PM | |
|-------------------------------|--------|------------------------------|---------|------------------------------------|------------------------|---------------|-----------------------------|------|--|------|
| Client ID: | | Run ID: SVMS6_231102B | | | SeqNo: 10162116 | | Prep Date: 11/2/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1-Methylnaphthalene | 477.2 | 4.1 | 659.1 | 0 | 72.4 | 40-140 | 395.6 | 18.7 | 30 | |
| 2-Methylnaphthalene | 489.1 | 4.1 | 659.1 | 0 | 74.2 | 40-140 | 406.6 | 18.4 | 30 | |
| Acenaphthene | 523 | 4.1 | 659.1 | 0 | 79.4 | 40-140 | 426.9 | 20.2 | 30 | |
| Anthracene | 532.5 | 4.1 | 659.1 | 0 | 80.8 | 40-140 | 438 | 19.5 | 30 | |
| Benzo(a)anthracene | 506.9 | 4.1 | 659.1 | 0 | 76.9 | 40-140 | 416.9 | 19.5 | 30 | |
| Benzo(a)pyrene | 519.4 | 4.1 | 659.1 | 0 | 78.8 | 40-140 | 429.7 | 18.9 | 30 | |
| Benzo(b)fluoranthene | 450.7 | 4.1 | 659.1 | 0 | 68.4 | 40-140 | 380.7 | 16.8 | 30 | |
| Benzo(k)fluoranthene | 519.5 | 4.1 | 659.1 | 0 | 78.8 | 40-140 | 409.6 | 23.7 | 30 | |
| Chrysene | 549.2 | 4.1 | 659.1 | 0 | 83.3 | 40-140 | 454.9 | 18.8 | 30 | |
| Dibenzo(a,h)anthracene | 455 | 4.1 | 659.1 | 0 | 69 | 40-140 | 373.4 | 19.7 | 30 | |
| Fluoranthene | 518 | 4.1 | 659.1 | 0 | 78.6 | 40-140 | 445.2 | 15.1 | 30 | |
| Fluorene | 500.1 | 4.1 | 659.1 | 0 | 75.9 | 40-140 | 403.4 | 21.4 | 30 | |
| Indeno(1,2,3-cd)pyrene | 440 | 4.1 | 659.1 | 0 | 66.8 | 40-140 | 382.4 | 14 | 30 | |
| Naphthalene | 542.7 | 4.1 | 659.1 | 0 | 82.4 | 40-140 | 446.2 | 19.5 | 30 | |
| Pyrene | 525.2 | 4.1 | 659.1 | 0 | 79.7 | 40-140 | 414.3 | 23.6 | 30 | |
| <i>Surr: 2-Fluorobiphenyl</i> | 413.6 | 0 | 659.1 | 0 | 62.8 | 20-140 | 335.9 | 20.7 | 30 | |
| <i>Surr: 4-Terphenyl-d14</i> | 391.6 | 0 | 659.1 | 0 | 59.4 | 22-172 | 321.9 | 19.5 | 30 | |
| <i>Surr: Nitrobenzene-d5</i> | 454.2 | 0 | 659.1 | 0 | 68.9 | 28-140 | 390.5 | 15.1 | 30 | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228463** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01A | 23102586-02A | 23102586-03A |
| 23102586-04A | 23102586-05A | 23102586-06A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
 Work Order: 23102586
 Project: Mauer Location

QC BATCH REPORT

Batch ID: **228540** Instrument ID **SVMS6** Method: **SW8270E**

| MBLK | | | | Sample ID: SBLKS1-228540-228540 | | | Units: µg/Kg | | Analysis Date: 11/3/2023 01:58 PM | | |
|------------------------|--------|-----|-----------------------|---------------------------------|------|-----------------|---------------|----------------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS6_231103A | | | SeqNo: 10168530 | | Prep Date: 11/3/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1-Methylnaphthalene | U | 4.2 | | | | | | | | | |
| 2-Methylnaphthalene | U | 4.2 | | | | | | | | | |
| Acenaphthene | U | 4.2 | | | | | | | | | |
| Anthracene | U | 4.2 | | | | | | | | | |
| Benzo(a)anthracene | U | 4.2 | | | | | | | | | |
| Benzo(a)pyrene | U | 4.2 | | | | | | | | | |
| Benzo(b)fluoranthene | U | 4.2 | | | | | | | | | |
| Benzo(k)fluoranthene | U | 4.2 | | | | | | | | | |
| Chrysene | U | 4.2 | | | | | | | | | |
| Dibenzo(a,h)anthracene | U | 4.2 | | | | | | | | | |
| Fluoranthene | U | 4.2 | | | | | | | | | |
| Fluorene | U | 4.2 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | U | 4.2 | | | | | | | | | |
| Naphthalene | U | 4.2 | | | | | | | | | |
| Pyrene | U | 4.2 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 564.7 | 0 | 666.6 | 0 | 84.7 | 20-140 | | 0 | | | |
| Surr: 4-Terphenyl-d14 | 555 | 0 | 666.6 | 0 | 83.3 | 22-172 | | 0 | | | |
| Surr: Nitrobenzene-d5 | 673.6 | 0 | 666.6 | 0 | 101 | 28-140 | | 0 | | | |

| LCS | | | | Sample ID: SLCSS1-228540-228540 | | | Units: µg/Kg | | Analysis Date: 11/3/2023 02:29 PM | | |
|------------------------|--------|-----|-----------------------|---------------------------------|------|-----------------|---------------|----------------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS6_231103A | | | SeqNo: 10168533 | | Prep Date: 11/3/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1-Methylnaphthalene | 628.4 | 4.2 | 666.6 | 0 | 94.3 | 40-140 | 0 | | | | |
| 2-Methylnaphthalene | 829.7 | 4.2 | 666.6 | 0 | 124 | 40-140 | 0 | | | | |
| Acenaphthene | 667.9 | 4.2 | 666.6 | 0 | 100 | 40-140 | 0 | | | | |
| Anthracene | 692.6 | 4.2 | 666.6 | 0 | 104 | 40-140 | 0 | | | | |
| Benzo(a)anthracene | 645.8 | 4.2 | 666.6 | 0 | 96.9 | 40-140 | 0 | | | | |
| Benzo(a)pyrene | 651 | 4.2 | 666.6 | 0 | 97.7 | 40-140 | 0 | | | | |
| Benzo(b)fluoranthene | 585.2 | 4.2 | 666.6 | 0 | 87.8 | 40-140 | 0 | | | | |
| Benzo(k)fluoranthene | 610.6 | 4.2 | 666.6 | 0 | 91.6 | 40-140 | 0 | | | | |
| Chrysene | 693.3 | 4.2 | 666.6 | 0 | 104 | 40-140 | 0 | | | | |
| Dibenzo(a,h)anthracene | 586.4 | 4.2 | 666.6 | 0 | 88 | 40-140 | 0 | | | | |
| Fluoranthene | 698.8 | 4.2 | 666.6 | 0 | 105 | 40-140 | 0 | | | | |
| Fluorene | 629.4 | 4.2 | 666.6 | 0 | 94.4 | 40-140 | 0 | | | | |
| Indeno(1,2,3-cd)pyrene | 593.3 | 4.2 | 666.6 | 0 | 89 | 40-140 | 0 | | | | |
| Naphthalene | 697.3 | 4.2 | 666.6 | 0 | 105 | 40-140 | 0 | | | | |
| Pyrene | 647.9 | 4.2 | 666.6 | 0 | 97.2 | 40-140 | 0 | | | | |
| Surr: 2-Fluorobiphenyl | 534.1 | 0 | 666.6 | 0 | 80.1 | 20-140 | 0 | | | | |
| Surr: 4-Terphenyl-d14 | 534.8 | 0 | 666.6 | 0 | 80.2 | 22-172 | 0 | | | | |
| Surr: Nitrobenzene-d5 | 600.6 | 0 | 666.6 | 0 | 90.1 | 28-140 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228540** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228716** Instrument ID **SVMS6** Method: **SW8270E**

| MBLK | | | | Sample ID: SBLKS1-228716-228716 | | | Units: µg/Kg | | Analysis Date: 11/7/2023 04:02 PM | | |
|------------------------|--------|-----|-----------------------|---------------------------------|------|-----------------|---------------|----------------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS6_231107A | | | SeqNo: 10176763 | | Prep Date: 11/7/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1-Methylnaphthalene | U | 4.2 | | | | | | | | | |
| 2-Methylnaphthalene | U | 4.2 | | | | | | | | | |
| Acenaphthene | U | 4.2 | | | | | | | | | |
| Anthracene | U | 4.2 | | | | | | | | | |
| Benzo(a)anthracene | U | 4.2 | | | | | | | | | |
| Benzo(a)pyrene | U | 4.2 | | | | | | | | | |
| Benzo(b)fluoranthene | U | 4.2 | | | | | | | | | |
| Benzo(k)fluoranthene | U | 4.2 | | | | | | | | | |
| Chrysene | U | 4.2 | | | | | | | | | |
| Dibenzo(a,h)anthracene | U | 4.2 | | | | | | | | | |
| Fluoranthene | U | 4.2 | | | | | | | | | |
| Fluorene | U | 4.2 | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | U | 4.2 | | | | | | | | | |
| Naphthalene | U | 4.2 | | | | | | | | | |
| Pyrene | U | 4.2 | | | | | | | | | |
| Surr: 2-Fluorobiphenyl | 595.8 | 0 | 666.6 | 0 | 89.4 | 20-140 | | 0 | | | |
| Surr: 4-Terphenyl-d14 | 525.5 | 0 | 666.6 | 0 | 78.8 | 22-172 | | 0 | | | |
| Surr: Nitrobenzene-d5 | 701 | 0 | 666.6 | 0 | 105 | 28-140 | | 0 | | | |

| LCS | | | | Sample ID: SLCSS1-228716-228716 | | | Units: µg/Kg | | Analysis Date: 11/7/2023 04:49 PM | | |
|------------------------|--------|-----|-----------------------|---------------------------------|------|-----------------|---------------|----------------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS6_231107A | | | SeqNo: 10176764 | | Prep Date: 11/7/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1-Methylnaphthalene | 751.1 | 4.2 | 666.6 | 0 | 113 | 40-140 | 0 | | | | |
| 2-Methylnaphthalene | 800.7 | 4.2 | 666.6 | 0 | 120 | 40-140 | 0 | | | | |
| Acenaphthene | 792.5 | 4.2 | 666.6 | 0 | 119 | 40-140 | 0 | | | | |
| Anthracene | 804.1 | 4.2 | 666.6 | 0 | 121 | 40-140 | 0 | | | | |
| Benzo(a)anthracene | 710.7 | 4.2 | 666.6 | 0 | 107 | 40-140 | 0 | | | | |
| Benzo(a)pyrene | 727 | 4.2 | 666.6 | 0 | 109 | 40-140 | 0 | | | | |
| Benzo(b)fluoranthene | 648.1 | 4.2 | 666.6 | 0 | 97.2 | 40-140 | 0 | | | | |
| Benzo(k)fluoranthene | 672.7 | 4.2 | 666.6 | 0 | 101 | 40-140 | 0 | | | | |
| Chrysene | 769.2 | 4.2 | 666.6 | 0 | 115 | 40-140 | 0 | | | | |
| Dibenzo(a,h)anthracene | 683.9 | 4.2 | 666.6 | 0 | 103 | 40-140 | 0 | | | | |
| Fluoranthene | 789.3 | 4.2 | 666.6 | 0 | 118 | 40-140 | 0 | | | | |
| Fluorene | 746 | 4.2 | 666.6 | 0 | 112 | 40-140 | 0 | | | | |
| Indeno(1,2,3-cd)pyrene | 685.7 | 4.2 | 666.6 | 0 | 103 | 40-140 | 0 | | | | |
| Naphthalene | 807.4 | 4.2 | 666.6 | 0 | 121 | 40-140 | 0 | | | | |
| Pyrene | 731.6 | 4.2 | 666.6 | 0 | 110 | 40-140 | 0 | | | | |
| Surr: 2-Fluorobiphenyl | 586.7 | 0 | 666.6 | 0 | 88 | 20-140 | 0 | | | | |
| Surr: 4-Terphenyl-d14 | 544.3 | 0 | 666.6 | 0 | 81.6 | 22-172 | 0 | | | | |
| Surr: Nitrobenzene-d5 | 631.5 | 0 | 666.6 | 0 | 94.7 | 28-140 | 0 | | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228716** Instrument ID **SVMS6** Method: **SW8270E**

| MS | | | | Sample ID: 23102655-02A MS | | Units: µg/Kg | | Analysis Date: 11/7/2023 05:04 PM | | |
|------------------------|--------|-----|-----------------------|----------------------------|------|-----------------|---------------|-----------------------------------|-----------|-------|
| Client ID: | | | Run ID: SVMS6_231107A | | | SeqNo: 10176765 | | Prep Date: 11/7/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1-Methylnaphthalene | 756.5 | 4.1 | 660.4 | 0 | 115 | 40-140 | 0 | | | |
| 2-Methylnaphthalene | 723.5 | 4.1 | 660.4 | 0 | 110 | 40-140 | 0 | | | |
| Acenaphthene | 794.2 | 4.1 | 660.4 | 0 | 120 | 40-140 | 0 | | | |
| Anthracene | 816.7 | 4.1 | 660.4 | 0 | 124 | 40-140 | 0 | | | |
| Benzo(a)anthracene | 729.9 | 4.1 | 660.4 | 0 | 111 | 40-140 | 0 | | | |
| Benzo(a)pyrene | 732.3 | 4.1 | 660.4 | 2.882 | 110 | 40-140 | 0 | | | |
| Benzo(b)fluoranthene | 648.4 | 4.1 | 660.4 | 2.85 | 97.7 | 40-140 | 0 | | | |
| Benzo(k)fluoranthene | 674.6 | 4.1 | 660.4 | 0 | 102 | 40-140 | 0 | | | |
| Chrysene | 797.3 | 4.1 | 660.4 | 0 | 121 | 40-140 | 0 | | | |
| Dibenzo(a,h)anthracene | 683.8 | 4.1 | 660.4 | 0 | 104 | 40-140 | 0 | | | |
| Fluoranthene | 786.6 | 4.1 | 660.4 | 3.319 | 119 | 40-140 | 0 | | | |
| Fluorene | 748.4 | 4.1 | 660.4 | 0 | 113 | 40-140 | 0 | | | |
| Indeno(1,2,3-cd)pyrene | 709.8 | 4.1 | 660.4 | 0 | 107 | 40-140 | 0 | | | |
| Naphthalene | 819.1 | 4.1 | 660.4 | 0 | 124 | 40-140 | 0 | | | |
| Pyrene | 726.7 | 4.1 | 660.4 | 3.076 | 110 | 40-140 | 0 | | | |
| Surr: 2-Fluorobiphenyl | 596.2 | 0 | 660.4 | 0 | 90.3 | 20-140 | 0 | | | |
| Surr: 4-Terphenyl-d14 | 537.2 | 0 | 660.4 | 0 | 81.3 | 22-172 | 0 | | | |
| Surr: Nitrobenzene-d5 | 647.1 | 0 | 660.4 | 0 | 98 | 28-140 | 0 | | | |

| MSD | | | | | Sample ID: 23102655-02A MSD | | Units: µg/Kg | | Analysis Date: 11/7/2023 05:20 PM | | |
|------------------------|--------|-----|-----------------------|---------------|-----------------------------|-----------------|---------------|----------------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: SVMS6_231107A | | | SeqNo: 10176766 | | Prep Date: 11/7/2023 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1-Methylnaphthalene | 744.3 | 4.1 | 659.6 | 0 | 113 | 40-140 | 756.5 | 1.62 | 30 | | |
| 2-Methylnaphthalene | 768.3 | 4.1 | 659.6 | 0 | 116 | 40-140 | 723.5 | 6.01 | 30 | | |
| Acenaphthene | 796 | 4.1 | 659.6 | 0 | 121 | 40-140 | 794.2 | 0.219 | 30 | | |
| Anthracene | 828.2 | 4.1 | 659.6 | 0 | 126 | 40-140 | 816.7 | 1.4 | 30 | | |
| Benzo(a)anthracene | 734.2 | 4.1 | 659.6 | 0 | 111 | 40-140 | 729.9 | 0.587 | 30 | | |
| Benzo(a)pyrene | 745 | 4.1 | 659.6 | 2.882 | 113 | 40-140 | 732.3 | 1.71 | 30 | | |
| Benzo(b)fluoranthene | 652.1 | 4.1 | 659.6 | 2.85 | 98.4 | 40-140 | 648.4 | 0.569 | 30 | | |
| Benzo(k)fluoranthene | 695.4 | 4.1 | 659.6 | 0 | 105 | 40-140 | 674.6 | 3.05 | 30 | | |
| Chrysene | 804.3 | 4.1 | 659.6 | 0 | 122 | 40-140 | 797.3 | 0.876 | 30 | | |
| Dibenzo(a,h)anthracene | 689.9 | 4.1 | 659.6 | 0 | 105 | 40-140 | 683.8 | 0.897 | 30 | | |
| Fluoranthene | 790.5 | 4.1 | 659.6 | 3.319 | 119 | 40-140 | 786.6 | 0.49 | 30 | | |
| Fluorene | 764.1 | 4.1 | 659.6 | 0 | 116 | 40-140 | 748.4 | 2.07 | 30 | | |
| Indeno(1,2,3-cd)pyrene | 712.4 | 4.1 | 659.6 | 0 | 108 | 40-140 | 709.8 | 0.365 | 30 | | |
| Naphthalene | 820.4 | 4.1 | 659.6 | 0 | 124 | 40-140 | 819.1 | 0.166 | 30 | | |
| Pyrene | 790.2 | 4.1 | 659.6 | 3.076 | 119 | 40-140 | 726.7 | 8.37 | 30 | | |
| Surr: 2-Fluorobiphenyl | 593.7 | 0 | 659.6 | 0 | 90 | 20-140 | 596.2 | 0.434 | 30 | | |
| Surr: 4-Terphenyl-d14 | 569.4 | 0 | 659.6 | 0 | 86.3 | 22-172 | 537.2 | 5.82 | 30 | | |
| Surr: Nitrobenzene-d5 | 644 | 0 | 659.6 | 0 | 97.6 | 28-140 | 647.1 | 0.474 | 30 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228716** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:

| |
|--------------|
| 23102586-10A |
|--------------|

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
 Work Order: 23102586
 Project: Mauer Location

QC BATCH REPORT

Batch ID: **228326** Instrument ID **VMS10** Method: **SW8260D**

| MBLK | | | | Sample ID: MBLK-228326-228326 | | | Units: µg/Kg-dry | | Analysis Date: 11/5/2023 01:02 PM | |
|-----------------------------|--------|-----|---------|--------------------------------------|------|---------------|-------------------------|------|--|------|
| Client ID: | | | | Run ID: VMS10_231105A | | | SeqNo: 10168840 | | Prep Date: 10/31/2023 | |
| | | | | | | | | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2,4-Trimethylbenzene | U | 30 | | | | | | | | |
| 1,3,5-Trimethylbenzene | U | 100 | | | | | | | | |
| Benzene | U | 30 | | | | | | | | |
| Ethylbenzene | U | 30 | | | | | | | | |
| m,p-Xylene | U | 60 | | | | | | | | |
| o-Xylene | U | 30 | | | | | | | | |
| Toluene | U | 30 | | | | | | | | |
| Xylenes, Total | U | 90 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 1052 | 0 | 1000 | 0 | 105 | 80-120 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 939.5 | 0 | 1000 | 0 | 94 | 80-120 | | 0 | | |
| Surr: Dibromofluoromethane | 987 | 0 | 1000 | 0 | 98.7 | 80-120 | | 0 | | |
| Surr: Toluene-d8 | 988 | 0 | 1000 | 0 | 98.8 | 80-120 | | 0 | | |

| LCS | | | | Sample ID: LCS-228326-228326 | | | Units: µg/Kg-dry | | Analysis Date: 11/5/2023 12:10 PM | |
|-----------------------------|--------|-----|---------|-------------------------------------|------|---------------|-------------------------|------|--|------|
| Client ID: | | | | Run ID: VMS10_231105A | | | SeqNo: 10168838 | | Prep Date: 10/31/2023 | |
| | | | | | | | | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2,4-Trimethylbenzene | 1066 | 30 | 1000 | 0 | 107 | 64-126 | | 0 | | |
| 1,3,5-Trimethylbenzene | 1093 | 100 | 1000 | 0 | 109 | 66-130 | | 0 | | |
| Benzene | 1042 | 30 | 1000 | 0 | 104 | 78-122 | | 0 | | |
| Ethylbenzene | 1026 | 30 | 1000 | 0 | 103 | 75-121 | | 0 | | |
| m,p-Xylene | 2094 | 60 | 2000 | 0 | 105 | 67-129 | | 0 | | |
| o-Xylene | 1074 | 30 | 1000 | 0 | 107 | 75-120 | | 0 | | |
| Toluene | 1031 | 30 | 1000 | 0 | 103 | 76-120 | | 0 | | |
| Xylenes, Total | 3168 | 90 | 3000 | 0 | 106 | 67-129 | | 0 | | |
| Surr: 1,2-Dichloroethane-d4 | 1018 | 0 | 1000 | 0 | 102 | 80-120 | | 0 | | |
| Surr: 4-Bromofluorobenzene | 1001 | 0 | 1000 | 0 | 100 | 80-120 | | 0 | | |
| Surr: Dibromofluoromethane | 1062 | 0 | 1000 | 0 | 106 | 80-120 | | 0 | | |
| Surr: Toluene-d8 | 971.5 | 0 | 1000 | 0 | 97.2 | 80-120 | | 0 | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
 Work Order: 23102586
 Project: Mauer Location

QC BATCH REPORT

Batch ID: **228326** Instrument ID **VMS10** Method: **SW8260D**

| MS | | | | Sample ID: 23102586-07C MS | | | Units: µg/Kg-dry | | Analysis Date: 11/5/2023 08:33 PM | |
|-----------------------------|--------|-----|---------|-----------------------------------|------|---------------|-------------------------|------|--|------|
| Client ID: SP 11 | | | | Run ID: VMS9_231105A | | | SeqNo: 10167456 | | Prep Date: 10/31/2023 | |
| | | | | | | | | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2,4-Trimethylbenzene | 898.1 | 29 | 970.9 | 20.39 | 90.4 | 64-126 | 0 | | | |
| 1,3,5-Trimethylbenzene | 895.7 | 97 | 970.9 | 0 | 92.3 | 66-130 | 0 | | | |
| Benzene | 1050 | 29 | 970.9 | 0 | 108 | 78-122 | 0 | | | |
| Ethylbenzene | 974.8 | 29 | 970.9 | 0 | 100 | 75-121 | 0 | | | |
| m,p-Xylene | 1958 | 58 | 1942 | 0 | 101 | 67-129 | 0 | | | |
| o-Xylene | 967 | 29 | 970.9 | 0 | 99.6 | 75-120 | 0 | | | |
| Toluene | 956.9 | 29 | 970.9 | 0 | 98.5 | 76-120 | 0 | | | |
| Xylenes, Total | 2925 | 87 | 2913 | 0 | 100 | 67-129 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 1036 | 0 | 970.9 | 0 | 107 | 80-120 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 971.9 | 0 | 970.9 | 0 | 100 | 80-120 | 0 | | | |
| Surr: Dibromofluoromethane | 954.4 | 0 | 970.9 | 0 | 98.3 | 80-120 | 0 | | | |
| Surr: Toluene-d8 | 956.9 | 0 | 970.9 | 0 | 98.5 | 80-120 | 0 | | | |

| MSD | | | | Sample ID: 23102586-07C MSD | | | Units: µg/Kg-dry | | Analysis Date: 11/5/2023 08:49 PM | |
|-----------------------------|--------|-----|---------|------------------------------------|------|---------------|-------------------------|------|--|------|
| Client ID: SP 11 | | | | Run ID: VMS9_231105A | | | SeqNo: 10167457 | | Prep Date: 10/31/2023 | |
| | | | | | | | | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2,4-Trimethylbenzene | 937.4 | 29 | 970.9 | 20.39 | 94.5 | 64-126 | 898.1 | 4.28 | 30 | |
| 1,3,5-Trimethylbenzene | 952.5 | 97 | 970.9 | 0 | 98.1 | 66-130 | 895.7 | 6.15 | 30 | |
| Benzene | 1120 | 29 | 970.9 | 0 | 115 | 78-122 | 1050 | 6.49 | 30 | |
| Ethylbenzene | 1050 | 29 | 970.9 | 0 | 108 | 75-121 | 974.8 | 7.39 | 30 | |
| m,p-Xylene | 2094 | 58 | 1942 | 0 | 108 | 67-129 | 1958 | 6.73 | 30 | |
| o-Xylene | 1049 | 29 | 970.9 | 0 | 108 | 75-120 | 967 | 8.09 | 30 | |
| Toluene | 1022 | 29 | 970.9 | 0 | 105 | 76-120 | 956.9 | 6.58 | 30 | |
| Xylenes, Total | 3143 | 87 | 2913 | 0 | 108 | 67-129 | 2925 | 7.18 | 30 | |
| Surr: 1,2-Dichloroethane-d4 | 1054 | 0 | 970.9 | 0 | 109 | 80-120 | 1036 | 1.72 | 30 | |
| Surr: 4-Bromofluorobenzene | 983.1 | 0 | 970.9 | 0 | 101 | 80-120 | 971.9 | 1.14 | 30 | |
| Surr: Dibromofluoromethane | 954.4 | 0 | 970.9 | 0 | 98.3 | 80-120 | 954.4 | 0 | 30 | |
| Surr: Toluene-d8 | 998.6 | 0 | 970.9 | 0 | 103 | 80-120 | 956.9 | 4.27 | 30 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-02C | 23102586-07C | 23102586-08C |
| 23102586-11C | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
 Work Order: 23102586
 Project: Mauer Location

QC BATCH REPORT

Batch ID: **R387210b** Instrument ID **VMS8** Method: **SW8260D**

| MBLK | | | | Sample ID: 8V-BLKS1-231103-R387210b | | | | Units: µg/Kg | | | Analysis Date: 11/3/2023 12:03 PM | | |
|-----------------------------|--------|-----|----------------------|-------------------------------------|------|---------------|-----------------|--------------|------------|------|-----------------------------------|--|--|
| Client ID: | | | Run ID: VMS8_231103A | | | | SeqNo: 10168261 | | Prep Date: | | DF: 1 | | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | | | |
| 1,2,4-Trimethylbenzene | U | 5.0 | | | | | | | | | | | |
| 1,3,5-Trimethylbenzene | U | 5.0 | | | | | | | | | | | |
| Benzene | U | 5.0 | | | | | | | | | | | |
| Ethylbenzene | U | 5.0 | | | | | | | | | | | |
| m,p-Xylene | U | 2.5 | | | | | | | | | | | |
| o-Xylene | U | 2.5 | | | | | | | | | | | |
| Toluene | U | 5.0 | | | | | | | | | | | |
| Xylenes, Total | U | 5.0 | | | | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 19.78 | 0 | 20 | 0 | 98.9 | 83-132 | | 0 | | | | | |
| Surr: 4-Bromofluorobenzene | 19.69 | 0 | 20 | 0 | 98.4 | 83-111 | | 0 | | | | | |
| Surr: Dibromofluoromethane | 21.66 | 0 | 20 | 0 | 108 | 77-125 | | 0 | | | | | |
| Surr: Toluene-d8 | 19.87 | 0 | 20 | 0 | 99.4 | 86-108 | | 0 | | | | | |

| LCS | | | | Sample ID: 8V-LCSS1-231103-R387210b | | | Units: µg/Kg | | Analysis Date: 11/3/2023 11:27 AM | | |
|-----------------------------|--------|-----|----------------------|-------------------------------------|------|-----------------|---------------|------------|-----------------------------------|-------|--|
| Client ID: | | | Run ID: VMS8_231103A | | | SeqNo: 10168260 | | Prep Date: | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,2,4-Trimethylbenzene | 19.87 | 5.0 | 20 | 0 | 99.4 | 71-133 | | 0 | | | |
| 1,3,5-Trimethylbenzene | 20.38 | 5.0 | 20 | 0 | 102 | 71-139 | | 0 | | | |
| Benzene | 20.13 | 5.0 | 20 | 0 | 101 | 77-133 | | 0 | | | |
| Ethylbenzene | 20.68 | 5.0 | 20 | 0 | 103 | 75-133 | | 0 | | | |
| m,p-Xylene | 40.14 | 2.5 | 40 | 0 | 100 | 75-134 | | 0 | | | |
| o-Xylene | 19.67 | 2.5 | 20 | 0 | 98.4 | 76-130 | | 0 | | | |
| Toluene | 19.84 | 5.0 | 20 | 0 | 99.2 | 76-130 | | 0 | | | |
| Xylenes, Total | 59.81 | 5.0 | 60 | 0 | 99.7 | 75-132 | | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 18.76 | 0 | 20 | 0 | 93.8 | 83-132 | | 0 | | | |
| Surr: 4-Bromofluorobenzene | 18.98 | 0 | 20 | 0 | 94.9 | 83-111 | | 0 | | | |
| Surr: Dibromofluoromethane | 20.8 | 0 | 20 | 0 | 104 | 77-125 | | 0 | | | |
| Surr: Toluene-d8 | 19.91 | 0 | 20 | 0 | 99.6 | 86-108 | | 0 | | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
 Work Order: 23102586
 Project: Mauer Location

QC BATCH REPORT

Batch ID: **R387210b** Instrument ID **VMS8** Method: **SW8260D**

| MS | | | | | Sample ID: 23102398-08C MS | | Units: µg/Kg | | Analysis Date: 11/3/2023 08:17 PM | | |
|-----------------------------|--------|-----|----------------------|---------------|----------------------------|-----------------|---------------|------------|-----------------------------------|----------|--|
| Client ID: | | | Run ID: VMS8_231103A | | | SeqNo: 10168283 | | Prep Date: | | DF: 0.71 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,2,4-Trimethylbenzene | 12.4 | 3.6 | 14.2 | | 0 | 87.4 | 71-133 | 0 | | | |
| 1,3,5-Trimethylbenzene | 13.12 | 3.6 | 14.2 | | 0 | 92.4 | 71-139 | 0 | | | |
| Benzene | 12.84 | 3.6 | 14.2 | | 0 | 90.4 | 77-133 | 0 | | | |
| Ethylbenzene | 13.01 | 3.6 | 14.2 | | 0 | 91.6 | 75-133 | 0 | | | |
| m,p-Xylene | 25.95 | 1.8 | 28.4 | | 0 | 91.4 | 75-134 | 0 | | | |
| o-Xylene | 13.14 | 1.8 | 14.2 | | 0 | 92.5 | 76-130 | 0 | | | |
| Toluene | 12.43 | 3.6 | 14.2 | | 0 | 87.6 | 76-130 | 0 | | | |
| Xylenes, Total | 39.09 | 3.6 | 42.6 | | 0 | 91.8 | 75-132 | 0 | | | |
| Surr: 1,2-Dichloroethane-d4 | 14.21 | 0 | 14.2 | | 0 | 100 | 83-132 | 0 | | | |
| Surr: 4-Bromofluorobenzene | 13.98 | 0 | 14.2 | | 0 | 98.4 | 83-111 | 0 | | | |
| Surr: Dibromofluoromethane | 14.84 | 0 | 14.2 | | 0 | 104 | 77-125 | 0 | | | |
| Surr: Toluene-d8 | 13.39 | 0 | 14.2 | | 0 | 94.3 | 86-108 | 0 | | | |

| MSD | | | | | Sample ID: 23102398-08C MSD | | Units: µg/Kg | | Analysis Date: 11/3/2023 08:36 PM | | |
|-----------------------------|--------|-----|----------------------|---------------|-----------------------------|-----------------|---------------|------------|-----------------------------------|-----------|--|
| Client ID: | | | Run ID: VMS8_231103A | | | SeqNo: 10168285 | | Prep Date: | | DF: 0.816 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| 1,2,4-Trimethylbenzene | 15.16 | 4.1 | 16.32 | 0 | 92.9 | 71-133 | 12.4 | 20 | 30 | | |
| 1,3,5-Trimethylbenzene | 16.16 | 4.1 | 16.32 | 0 | 99 | 71-139 | 13.12 | 20.7 | 30 | | |
| Benzene | 15.76 | 4.1 | 16.32 | 0 | 96.6 | 77-133 | 12.84 | 20.4 | 30 | | |
| Ethylbenzene | 15.59 | 4.1 | 16.32 | 0 | 95.5 | 75-133 | 13.01 | 18 | 30 | | |
| m,p-Xylene | 31.43 | 2.0 | 32.64 | 0 | 96.3 | 75-134 | 25.95 | 19.1 | 30 | | |
| o-Xylene | 15.01 | 2.0 | 16.32 | 0 | 91.9 | 76-130 | 13.14 | 13.3 | 30 | | |
| Toluene | 17.36 | 4.1 | 16.32 | 0 | 106 | 76-130 | 12.43 | 33.1 | 30 | R | |
| Xylenes, Total | 46.44 | 4.1 | 48.96 | 0 | 94.8 | 75-132 | 39.09 | 17.2 | 30 | | |
| Surr: 1,2-Dichloroethane-d4 | 18.07 | 0 | 16.32 | 0 | 111 | 83-132 | 14.21 | 23.9 | 30 | | |
| Surr: 4-Bromofluorobenzene | 16.43 | 0 | 16.32 | 0 | 101 | 83-111 | 13.98 | 16.1 | 30 | | |
| Surr: Dibromofluoromethane | 16.48 | 0 | 16.32 | 0 | 101 | 77-125 | 14.84 | 10.4 | 30 | | |
| Surr: Toluene-d8 | 18.01 | 0 | 16.32 | 0 | 110 | 86-108 | 13.39 | 29.4 | 30 | S | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01C | 23102586-03C | 23102586-04C |
| 23102586-05C | 23102586-06C | 23102586-07C |
| 23102586-08C | 23102586-09C | 23102586-10C |
| 23102586-12C | | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228202** Instrument ID **SPEC-04** Method: **SW7196A**

| | | | | | | | | | | |
|-------------|--------|--------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MBLK | | Sample ID: MBLK-228202-228202 | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
| Client ID: | | Run ID: SPEC-04_231103B | | | | SeqNo: 10163025 | | Prep Date: 10/29/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Chromium, Hexavalent U 1.0

| | | | | | | | | | | |
|------------|--------|-------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| LCS | | Sample ID: LCS-228202-228202 | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
| Client ID: | | Run ID: SPEC-04_231103B | | | | SeqNo: 10163026 | | Prep Date: 10/29/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Chromium, Hexavalent 4.208 0.99 4.95 0 85 80-120 0

| | | | | | | | | | | |
|------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MS | | Sample ID: 23102584-03A MS | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
| Client ID: | | Run ID: SPEC-04_231103B | | | | SeqNo: 10163030 | | Prep Date: 10/29/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Chromium, Hexavalent U 0.98 4.902 0.4118 -8.4 75-125 0 S

| | | | | | | | | | | |
|------------|--------|------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|----------------|
| MS | | Sample ID: 23102584-03A MSI | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
| Client ID: | | Run ID: SPEC-04_231103B | | | | SeqNo: 10163032 | | Prep Date: 10/29/2023 | | DF: 100 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Chromium, Hexavalent 1715 97 2218 0.4118 77.3 75-125 0

| | | | | | | | | | | |
|----------------------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MS | | Sample ID: 23102586-10A MS | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
| Client ID: SP 14 8' | | Run ID: SPEC-04_231103B | | | | SeqNo: 10163045 | | Prep Date: 10/29/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Chromium, Hexavalent 3.562 0.95 4.762 0.1524 71.6 75-125 0 S

| | | | | | | | | | | |
|----------------------------|--------|------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|----------------|
| MS | | Sample ID: 23102586-10A MSI | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
| Client ID: SP 14 8' | | Run ID: SPEC-04_231103B | | | | SeqNo: 10163047 | | Prep Date: 10/29/2023 | | DF: 100 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Chromium, Hexavalent 1835 94 2322 0.1524 79 75-125 0

| | | | | | | | | | | |
|------------|--------|------------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| MSD | | Sample ID: 23102584-03A MSD | | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
| Client ID: | | Run ID: SPEC-04_231103B | | | | SeqNo: 10163031 | | Prep Date: 10/29/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |

Chromium, Hexavalent U 0.97 4.854 0.4118 -8.48 75-125 0.2843 0 20 S

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228202** Instrument ID **SPEC-04** Method: **SW7196A**

| MSD | | | | Sample ID: 23102586-10A MSD | | | Units: mg/Kg | | Analysis Date: 11/3/2023 01:22 PM | | |
|----------------------------|--------|------|---------|------------------------------------|------|---------------|------------------------|------|--|------|--------------|
| Client ID: SP 14 8' | | | | Run ID: SPEC-04_231103B | | | SeqNo: 10163046 | | Prep Date: 10/29/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual | |
| Chromium, Hexavalent | 3.505 | 0.97 | 4.854 | 0.1524 | 69.1 | 75-125 | 3.562 | 1.61 | 20 | S | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01A | 23102586-02A | 23102586-03A |
| 23102586-04A | 23102586-05A | 23102586-06A |
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228578** Instrument ID **WETCHEM** Method: **USDA Method 20**

| | | | | | | | | | | |
|-----------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| DUP | | Sample ID: 23102585-09ADUP | | | | Units: s.u. | | Analysis Date: 11/4/2023 12:00 PM | | |
| Client ID: | | Run ID: WETCHEM_231104C | | | | SeqNo: 10165640 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| pH @ Saturation | 7.28 | 0.10 | 0 | 0 | 0 | 0-0 | 7.28 | 0 | 20 | |

| | | | | | | | | | | |
|--------------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------------|---------------|--|-----------|---------------|
| DUP | | Sample ID: 23102585-09ADUP | | | | Units: mmhos/cm @25° | | Analysis Date: 11/4/2023 02:10 PM | | |
| Client ID: | | Run ID: WETCHEM_231104D | | | | SeqNo: 10165728 | | Prep Date: 11/3/2023 | | DF: 20 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Electrical Conductivity @ Saturation | 6.162 | 0.10 | 0 | 0 | 0 | | 5.6 | 9.56 | 50 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01A | 23102586-02A | 23102586-03A |
| 23102586-04A | 23102586-05A | 23102586-06A |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **228580** Instrument ID **WETCHEM** Method: **USDA Method 20**

| | | | | | | | | | | |
|-------------------------------|--------|-----------------------------------|---------|---------------|------|------------------------|---------------|--|-----------|--------------|
| DUP | | Sample ID: 23102586-11ADUP | | | | Units: s.u. | | Analysis Date: 11/4/2023 10:31 AM | | |
| Client ID: Duplicate A | | Run ID: WETCHEM_231104A | | | | SeqNo: 10165445 | | Prep Date: 11/3/2023 | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| pH @ Saturation | 6.99 | 0.10 | 0 | 0 | 0 | 0-0 | 7.17 | 2.54 | 20 | |

| | | | | | | | | | | |
|--------------------------------------|--------|-----------------------------------|---------|---------------|------|-----------------------------|---------------|--|-----------|---------------|
| DUP | | Sample ID: 23102586-11ADUP | | | | Units: mmhos/cm @25° | | Analysis Date: 11/4/2023 11:30 AM | | |
| Client ID: Duplicate A | | Run ID: WETCHEM_231104B | | | | SeqNo: 10165618 | | Prep Date: 11/3/2023 | | DF: 20 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Electrical Conductivity @ Saturation | 0.6792 | 0.10 | 0 | 0 | 0 | | 0.9046 | 28.5 | 50 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-07A | 23102586-08A | 23102586-09A |
| 23102586-10A | 23102586-11A | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Mull Drilling Company
Work Order: 23102586
Project: Mauer Location

QC BATCH REPORT

Batch ID: **R387002** Instrument ID **MOIST** Method: **SW3550C**

| | | | | | | | | | | |
|-------------|--------|---------------------------------|---------|---------------|------|------------------------|---------------|---|-----------|--------------|
| MBLK | | Sample ID: WBLKS-R387002 | | | | Units: % of sample | | Analysis Date: 10/31/2023 01:22 PM | | |
| Client ID: | | Run ID: MOIST_231031B | | | | SeqNo: 10152666 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | U | 0.10 | | | | | | | | |

| | | | | | | | | | | |
|------------|--------|-------------------------------|---------|---------------|------|------------------------|---------------|---|-----------|--------------|
| LCS | | Sample ID: LCS-R387002 | | | | Units: % of sample | | Analysis Date: 10/31/2023 01:22 PM | | |
| Client ID: | | Run ID: MOIST_231031B | | | | SeqNo: 10152665 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 100 | 0.10 | 100 | 0 | 100 | 98-102 | 0 | | | |

| | | | | | | | | | | |
|------------|--------|------------------------------------|---------|---------------|------|------------------------|---------------|---|-----------|--------------|
| DUP | | Sample ID: 23102585-13B DUP | | | | Units: % of sample | | Analysis Date: 10/31/2023 01:22 PM | | |
| Client ID: | | Run ID: MOIST_231031B | | | | SeqNo: 10152645 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 6.48 | 0.10 | 0 | 0 | 0 | 0-0 | 6.65 | 2.59 | 10 | |

| | | | | | | | | | | |
|------------------------|--------|------------------------------------|---------|---------------|------|------------------------|---------------|---|-----------|--------------|
| DUP | | Sample ID: 23102586-03B DUP | | | | Units: % of sample | | Analysis Date: 10/31/2023 01:22 PM | | |
| Client ID: SP 7 | | Run ID: MOIST_231031B | | | | SeqNo: 10152650 | | Prep Date: | | DF: 1 |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| Moisture | 2.89 | 0.10 | 0 | 0 | 0 | 0-0 | 2.74 | 5.33 | 10 | |

The following samples were analyzed in this batch:

| | | |
|--------------|--------------|--------------|
| 23102586-01B | 23102586-02B | 23102586-03B |
| 23102586-04B | 23102586-05B | 23102586-06B |
| 23102586-07B | 23102586-08B | 23102586-09B |
| 23102586-10B | 23102586-11B | |

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Chain of Custody Form

ALS Group USA, Corp

Work Order

| | | | | | |
|----------------|-----------------------------------|----------------|-----------------------------------|---------------------------------------|-------------|
| Company Name | Mull Drilling Company | Purchase Order | | Parameter/Method Request for Analysis | |
| Send Report To | James Beilman | Company Name | Mull Drilling Company | A | Table 915-1 |
| Project Name | | Invoice Attn | Accounts Payable | B | |
| Address | 1700 N Waterfront Pkwy, Bld. 1200 | Project # | Mauer Location | C | |
| City/State/Zip | Wichita, KS 67206 | Address | 1700 N Waterfront Pkwy, Bld. 1200 | D | |
| Phone | 3162646366 | City/State/Zip | Wichita, KS 67206 | E | |
| e-Mail Address | | Phone | 3162646366 | F | |
| | | e-Mail Address | | G | |
| | | | | H | |
| | | | | I | |
| | | | | J | |

| # | Sample Description | Date | Time | Matrix | Preservative | # Bottles | A | B | C | D | Sample Notes |
|----|--------------------|----------|------|--------|--------------|-----------|---|---|---|---|--------------|
| 1 | SP 3 4' | 10/24/23 | 1150 | Soil | Various | 5 | ✓ | | | | |
| 2 | SP 4 4' | 10/24/23 | 1200 | Soil | Various | | ✓ | | | | |
| 3 | SP 7 | 10/24/23 | 1100 | Soil | Various | 5 | ✓ | | | | |
| 4 | SP 8 | 10/24/23 | 1105 | Soil | Various | 5 | ✓ | | | | |
| 5 | SP 9 | 10/24/23 | 1110 | Soil | Various | 5 | ✓ | | | | |
| 6 | SP 10 | 10/24/23 | 1120 | Soil | Various | 5 | ✓ | | | | |
| 7 | SP 11 | 10/24/23 | 1125 | Soil | Various | 5 | ✓ | | | | |
| 8 | SP 12 | 10/24/23 | 1140 | Soil | Various | 5 | ✓ | | | | |
| 9 | SP 13 | 10/24/23 | 1145 | Soil | Various | 5 | ✓ | | | | |
| 10 | SP 14 8' | 10/24/23 | 1300 | Soil | Various | 5 | ✓ | | | | |

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL, 2-HNO3, 3-H2SO4, 4-NaOH, 5-Na2S2O3, 6-NaHSO4, 7-Other, 8-4 degrees C, 9-5035.

Required Turnaround Time:

☒ Std 10 Wk days ☐ 5 Wk days ☐ 2 Wk days ☐ 24 hr

Results Due:

| | | | | | | |
|-----------------|----------|------|--------------------------|----------|------|---------------------------------------|
| Relinquished by | Date | Time | Received by | Date | Time | NOTES: |
| James Beilman | 10/26/23 | 1730 | Fedex | | | 4.4°C OF2 |
| Fedex | 10/28/23 | 915 | James Beilman | 10/28/23 | 915 | |
| | | | | | | QC Reporting Level: (check box below) |
| | | | | | | Level II: Standard QC |
| | | | | | | Level III: Std QC + Raw data |
| | | | | | | Level IV: SW846 CLP-Like |
| | | | | | | Other: |



Chain of Custody Form

ALS Group USA, Corp

Work Order

| | | | | | |
|----------------|-----------------------------------|----------------|-----------------------------------|---------------------------------------|-------------|
| Company Name | Mull Drilling Company | Purchase Order | | Parameter/Method Request for Analysis | |
| Send Report To | James Beilman | Company Name | Mull Drilling Company | A | Table 915-1 |
| Project Name | | Invoice Attn | Accounts Payable | B | |
| Address | 1700 N Waterfront Pkwy, Bld. 1200 | Project # | Mauer Location | C | |
| City State Zip | Wichita, KS 67206 | Address | 1700 N Waterfront Pkwy, Bld. 1200 | D | |
| Phone | 3162646366 | City State Zip | Wichita, KS 67206 | E | |
| e-Mail Address | | Phone | 3162646366 | F | |
| | | e-Mail Address | | G | |
| | | | | H | |
| | | | | I | |
| | | | | J | |

| # | Sample Description | Date | Time | Matrix | Preservative | # Bottles | A | B | C | D | E | F | G | H | I | J | Notes |
|----|--------------------|----------|------|--------|--------------|-----------|---|---|---|---|---|---|---|---|---|---|-------|
| 1 | Duplicate A | 10/24/23 | ~ | Soil | Varue | 5 | ✓ | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|--|----------|------|--------------|----------|------|--|--|--------------|--|
| Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental. | | | | | | Required Turnaround Time: | | Results Due: | |
| Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035 | | | | | | Std 10 Wk days 5 Wk days 2 Wk days 24 hr | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time | NOTES: | | | |
| James Beilman | 10/26/23 | 1730 | Feder | | | 4.4°C OF2 | | | |
| Feder | 10/28/23 | 915 | HLAWA | 10/28/23 | 915 | QC Reporting Level: (check box below) | | | |
| | | | | | | Level II: Standard QC | | Other: | |
| | | | | | | Level III: Std QC + Raw data | | | |
| | | | | | | Level IV: SW846 CLP-Like | | | |

Sample Receipt Checklist

Client Name: **MULLDRILLING**

Date/Time Received: **28-Oct-23 09:15**

Work Order: **23102586**

Received by: **WSK**

Checklist completed by **Weston Kotecki**

28-Oct-23

Reviewed by: **Chad Whelton**

31-Oct-23

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

4.4/4.4C

DF2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

10/28/2023 1:58:39 PM

Water - VOA vials have zero headspace?

Yes ☒

No ☐

No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

April 11, 2024

Mull Drilling

Kendall Pelton

1700 N Waterfront Pkway Bldg #1200

Wichita

KS

67206

Project Name - Mauer SWD#1

Project Number - [none]

Attached are your analytical results for Mauer SWD#1 received by Origins Laboratory, Inc. March 29, 2024. This project is associated with Origins project number Y403867-01.

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



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|----------------------|------------------|
| SP 1 5' | Y403867-01 | Soil | March 26, 2024 11:55 | 03/29/2024 16:41 |
| SP 2 5' | Y403867-02 | Soil | March 26, 2024 12:00 | 03/29/2024 16:41 |
| SP 3 5' | Y403867-03 | Soil | March 26, 2024 12:30 | 03/29/2024 16:41 |
| SP 6 3' | Y403867-04 | Soil | March 26, 2024 13:00 | 03/29/2024 16:41 |
| SP 14 9' | Y403867-05 | Soil | March 26, 2024 9:10 | 03/29/2024 16:41 |
| SP 8 3' | Y403867-06 | Soil | March 26, 2024 13:15 | 03/29/2024 16:41 |
| SP 5 4' | Y403867-07 | Soil | March 26, 2024 10:45 | 03/29/2024 16:41 |
| SP 5 6' | Y403867-08 | Soil | March 26, 2024 10:50 | 03/29/2024 16:41 |
| SP 11 4' | Y403867-09 | Soil | March 26, 2024 10:30 | 03/29/2024 16:41 |
| SP 11 6' | Y403867-10 | Soil | March 26, 2024 10:35 | 03/29/2024 16:41 |
| SP 10 4' | Y403867-11 | Soil | March 26, 2024 11:05 | 03/29/2024 16:41 |
| SP 10 6' | Y403867-12 | Soil | March 26, 2024 1:10 | 03/29/2024 16:41 |

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

ORIGINS
LABORATORY, INC

www.originslaboratory.com

page 1 of 2

Y403867

Client: Mull Drilling

Address: 1700 N Waterfront Pkwy Bldg #1200
Wichita, KS 67206

Telephone Number: 316-264-6366

Email Address:

Project Manager: Kendall Pelton

Project Name: Mauer SWD #1

Project Number:

Samples Collected By: Kendall Pelton

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|-------------|---------------------|---------------------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summary | | |
| SP 1 S' | 3/26/24 | 11:55 | 2 | X | | | | X | | | EC, SW, pH | 1 |
| SP 2 S' | 3/26/24 | 12:00 | 2 | X | | | | X | | | Boron, TlH, Arsenic | 2 |
| SP 3 S' | 3/26/24 | 12:30 | 2 | X | | | | X | | | Chromium | 3 |
| SP 6 S' | 3/26/24 | 1:00 | 2 | X | | | | X | | | | 4 |
| SP 14 S' | 3/26/24 | 4:10 | 2 | X | | | | X | | | | 5 |
| SP 8 S' | 3/26/24 | 1:15 | 2 | X | | | | X | | | | 6 |
| SP 5 S' | 3/26/24 | 10:45 | 2 | X | | | | X | | | | 7 |
| SP 5 S' | 3/26/24 | 10:50 | 2 | X | | | | X | | | | 8 |
| SP 11 S' | 3/26/24 | 10:30 | 2 | X | | | | X | | | | 9 |
| SP 11 S' | 3/26/24 | 10:35 | 2 | X | | | | X | | | | 10 |

Relinquished By: Kendall Pelton

Relinquished By:

Date: 3/26/24

Date:

Time: 16:11

Time:

Received By: EHS

Received By:

Date: 3/29/24

Date:

Time: 16:11

Time:

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4403867

page 2 of 2

Client: Mull Drilling
Address: 1700 N Waterfront Pkwy Bldg #1200
Telephone Number: 316-264-1251
Email Address:

Project Manager: Kendall Pelton
Project Name: Mauer SWD #1
Project Number:
Samples Collected By: Kendall Pelton

Fax: 303.265.9645

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions | |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|----------------------|----------|-------------------------------------|-------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa Canister # | | | Other |
| SP 10 4 | 3/26/24 | 11:05 | 2 | X | | | | | X | | | EC, SAR, pH, DO, TPT, HSC, Chromium | 1 |
| SP 10 6 | 3/26/24 | 11:10 | 2 | X | | | | | X | | | | 2 |
| | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | 4 |
| | | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | 10 |

Relinquished By: Date: Time: Received By: EHS Date: 3/29/24 Time: 16:41 Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

Date Results Needed

1.7

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4403867

Client: Mull Drilling

Client Project ID: Mauer SWD 1

Checklist Completed by: ELH

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/29/24

Airbill #: N/A

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

Cooler Number/Temperature: 1/17 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1004

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|----------|----------|----------|------------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | <u>✓</u> | | | |
| Is there ice present (document if blue ice is used) | <u>✓</u> | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | <u>✓</u> | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | <u>✓</u> | | |
| Were all samples received intact ⁽¹⁾ ? | <u>✓</u> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <u>✓</u> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | <u>✓</u> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | | <u>✓</u> | | <u>No sample times</u> |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | | <u>✓</u> | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <u>✓</u> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <u>✓</u> | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | <u>✓</u> | |
| 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) | | | <u>✓</u> | |
| Additional Comments (if any): <u>New COC's received by email on 4/1</u> | | | | |

⁽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: JP (Project Manager)

Date/Time Reviewed: 4/12/24

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 1 5'

3/26/2024 11:55:00AM

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

Origins Laboratory, Inc.
Y403867-01 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 1.36 | 0.0986 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 |
|-------|------|--------|------|---|---------|------------|------------|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | |
|------------------------|-------|--------|---|---|---|
| Surrogate: o-Terphenyl | 104 % | 50-150 | " | " | " |
|------------------------|-------|--------|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.426 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 107 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 89.6 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 95.8 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.30 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 1.31 | 0.823 | " | " | " | " | " |
| Sodium | 15.7 | 0.435 | " | " | " | " | " |

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 1 5'

3/26/2024 11:55:00AM

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

Origins Laboratory, Inc.
Y403867-01 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.47 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 13.7 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.88 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 8.64 | | 0.271 | mg/kg | 10 | B4C2948 | 03/29/2024 | 04/05/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.186 | 0.464 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 2 5'

3/26/2024 12:00:00PM

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

Origins Laboratory, Inc.
Y403867-02 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 3.86 | 0.0987 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 |
|-------|------|--------|------|---|---------|------------|------------|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

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

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 115 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 87.8 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 96.1 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.822 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 35.3 | 0.435 | " | " | " | " | " |

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 2 5'

3/26/2024 12:00:00PM

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

Origins Laboratory, Inc.

Y403867-02 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.50 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 43.8 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 3.97 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 8.12 | | 0.288 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.177 | 0.443 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 3 5'

3/26/2024 12:30:00PM

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

Origins Laboratory, Inc.
Y403867-03 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|--|
| Boron | 1.24 | 0.0993 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|-------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 109 % | 50-150 | | | " | " | " |
|------------------------|-------|--------|--|--|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 89.7 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 98.2 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 63.4 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 30.5 | 0.823 | " | " | " | " | " |

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 3 5'

3/26/2024 12:30:00PM

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

Origins Laboratory, Inc.
Y403867-03 (Soil)

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|--------|-----|------|-------|-----|--------|------------|------------|
| Sodium | 161 | 4.35 | meq/L | 100 | [CALC] | 04/05/2024 | 04/10/2024 |
|--------|-----|------|-------|-----|--------|------------|------------|

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.54 | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 23.5 | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 16.1 | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 12.7 | 0.266 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.134 | 0.336 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 6 3'
3/26/2024 1:00:00PM

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

Origins Laboratory, Inc.
Y403867-04 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.972 | 0.101 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | |
|------------------------|-------|--------|---|---|---|
| Surrogate: o-Terphenyl | 102 % | 50-150 | " | " | " |
|------------------------|-------|--------|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 108 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 89.1 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 96.2 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 2.88 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 1.91 | 0.823 | " | " | " | " | " |
| Sodium | 11.6 | 0.435 | " | " | " | " | " |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 6 3'

3/26/2024 1:00:00PM

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

Origins Laboratory, Inc.

Y403867-04 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.23 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 7.48 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.52 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 8.21 | | 0.256 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.176 | 0.439 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 14 9'

3/26/2024 9:10:00AM

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

Origins Laboratory, Inc.
Y403867-05 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|--|
| Boron | 3.37 | 0.101 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|------|-------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|-------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 107 % | 50-150 | | | " | " | " |
|------------------------|-------|--------|--|--|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 89.8 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 95.7 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 5.50 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 1.35 | 0.823 | " | " | " | " | " |
| Sodium | 125 | 4.35 | " | 100 | " | " | 04/10/2024 |

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 14 9'

3/26/2024 9:10:00AM

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

Origins Laboratory, Inc.

Y403867-05 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.09 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 67.4 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 11.5 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 7.93 | | 0.261 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.142 | 0.356 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 8 3'
3/26/2024 1:15:00PM

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

Origins Laboratory, Inc.
Y403867-06 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|
| Boron | 1.81 | 0.102 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 |
|-------|------|-------|------|---|---------|------------|------------|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 98.0 % | 50-150 | " | " | " |
|------------------------|--------|--------|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | |
|----------------------------------|--------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 112 % | 70-130 | " | " | " |
| Surrogate: Toluene-d8 | 89.0 % | 70-130 | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.2 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.611 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 10.1 | 0.435 | " | " | " | " | " |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 8 3'

3/26/2024 1:15:00PM

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

Origins Laboratory, Inc.

Y403867-06 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.61 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 15.2 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.21 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 7.06 | | 0.275 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.134 | 0.334 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 5 4'

3/26/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y403867-07 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.526 | 0.100 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

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

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 90.3 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.8 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.668 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 2.07 | 0.435 | " | " | " | " | " |

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 5 4'

3/26/2024 10:45:00AM

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

Origins Laboratory, Inc.
Y403867-07 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.50 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 2.78 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 0.311 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|-------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 8.70 | | 0.259 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.169 | 0.422 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 5 6'

3/26/2024 10:50:00AM

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

Origins Laboratory, Inc.

Y403867-08 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.814 | 0.100 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 97.8 % | 50-150 | | | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 119 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 90.9 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 96.0 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 5.89 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 5.35 | 0.823 | " | " | " | " | " |
| Sodium | 13.7 | 0.435 | " | " | " | " | " |

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 5 6'

3/26/2024 10:50:00AM

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

Origins Laboratory, Inc.

Y403867-08 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.24 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 5.79 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 2.17 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 8.29 | | 0.264 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | 0.180 | 0.137 | 0.343 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | J |
|---------------------|-------|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 11 4'

3/26/2024 10:30:00AM

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

Origins Laboratory, Inc.
Y403867-09 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.423 | 0.0989 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|-------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 109 % | 50-150 | | | " | " | " |
|------------------------|-------|--------|--|--|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 91.4 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 96.4 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 5.35 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 2.77 | 0.823 | " | " | " | " | " |
| Sodium | 5.10 | 0.435 | " | " | " | " | " |

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 11 4'

3/26/2024 10:30:00AM

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

Origins Laboratory, Inc.
Y403867-09 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.20 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 2.53 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.24 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 9.53 | | 0.259 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.123 | 0.308 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 11 6'

3/26/2024 10:35:00AM

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

Origins Laboratory, Inc.
Y403867-10 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.407 | 0.0988 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|-------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 104 % | 50-150 | | | " | " | " |
|------------------------|-------|--------|--|--|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 90.3 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 96.4 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 14.5 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 28.6 | 0.823 | " | " | " | " | " |
| Sodium | 96.4 | 4.35 | " | 100 | " | " | 04/10/2024 |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 11 6'

3/26/2024 10:35:00AM

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

Origins Laboratory, Inc.

Y403867-10 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.04 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 20.8 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 10.3 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 7.89 | | 0.265 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.105 | 0.262 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 10 4'

3/26/2024 11:05:00AM

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

Origins Laboratory, Inc.
Y403867-11 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.271 | 0.0996 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|-------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 106 % | 50-150 | | | " | " | " |
|------------------------|-------|--------|--|--|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 87.1 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 97.1 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 13.1 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 8.58 | 0.823 | " | " | " | " | " |
| Sodium | 36.3 | 0.435 | " | " | " | " | " |

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 10 4'

3/26/2024 11:05:00AM

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

Origins Laboratory, Inc.

Y403867-11 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 7.96 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 11.0 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 5.44 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 7.61 | | 0.252 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.126 | 0.315 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

SP 10 6'

3/26/2024 1:10:00AM

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

Origins Laboratory, Inc.
Y403867-12 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|--|
| Boron | 1.06 | 0.102 | mg/L | 1 | B4D0310 | 04/03/2024 | 04/04/2024 | |
|-------|------|-------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4D0219 | 04/02/2024 | 04/08/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|-------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 110 % | 50-150 | | | " | " | " |
|------------------------|-------|--------|--|--|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B4D0452 | 04/04/2024 | 04/06/2024 | Ua |
|-----------------------------|----|-------|-------|---|---------|------------|------------|----|

| | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 107 % | 70-130 | | | " | " | " |
| Surrogate: Toluene-d8 | 88.7 % | 70-130 | | | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 95.8 % | 70-130 | | | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 3.57 | 0.499 | meq/L | 10 | [CALC] | 04/05/2024 | 04/08/2024 |
| Magnesium | 2.45 | 0.823 | " | " | " | " | " |
| Sodium | 3.90 | 0.435 | " | " | " | " | " |

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 10 6'

3/26/2024 1:10:00AM

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

Origins Laboratory, Inc.

Y403867-12 (Soil)

pH in Soil by 9045D

| | | | | | | | | | |
|----|------|--|--|----------|---|---------|------------|------------|--|
| pH | 8.26 | | | pH Units | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|----|------|--|--|----------|---|---------|------------|------------|--|

SAR by 20B Saturated Paste

| | | | | | | | | | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|
| SAR | 2.25 | | 0.0100 | SAR | 1 | B4D0502 | 04/05/2024 | 04/08/2024 | |
|-----|------|--|--------|-----|---|---------|------------|------------|--|

Specific Conductance Mod. 9050A

| | | | | | | | | | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|
| Specific Conductance (EC) | 1.09 | | 0.00500 | mmhos/cm | 1 | B4D0517 | 04/05/2024 | 04/05/2024 | |
|---------------------------|------|--|---------|----------|---|---------|------------|------------|--|

Table 915 metals by EPA 6020B

| | | | | | | | | | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|
| Arsenic | 8.04 | | 0.249 | mg/kg | 10 | B4D0228 | 04/02/2024 | 04/04/2024 | |
|---------|------|--|-------|-------|----|---------|------------|------------|--|

Total Metals by 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.134 | 0.336 | mg/kg dry | 1 | 2590643 | 04/03/2024 | 04/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4D0219 - EPA 3550B

Blank (B4D0219-BLK1)

Prepared: 04/02/2024 Analyzed: 04/08/2024

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|-----|--------|--|--|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | | | | | | | Ua |
| Surrogate: o-Terphenyl | 28 | | " | 24.9 | | 113 | 50-150 | | | |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4D0219 - EPA 3550B

LCS (B4D0219-BS1)

Prepared: 04/02/2024 Analyzed: 04/08/2024

| | | | | | | | | | | |
|-----------------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 836 | 50.0 | mg/kg | 1000 | | 83.6 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 920 | 200 | " | 1000 | | 92.0 | 70-130 | | | |
| Surrogate: o-Terphenyl | 53 | | " | 49.8 | | 106 | 50-150 | | | |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4D0219 - EPA 3550B

| Matrix Spike (B4D0219-MS1) | | Source: Y403867-01 | | | Prepared: 04/02/2024 Analyzed: 04/08/2024 | | | | | |
|-----------------------------------|-----|--------------------|-------|------|---|------|--------|--|--|--|
| Diesel (C10-C28) | 859 | 50.0 | mg/kg | 1000 | ND | 85.9 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 956 | 200 | " | 1000 | ND | 95.6 | 70-130 | | | |
| Surrogate: o-Terphenyl | 51 | | " | 49.8 | | 102 | 50-150 | | | |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4D0219 - EPA 3550B

| Matrix Spike Dup (B4D0219-MSD1) | | Source: Y403867-01 | | | Prepared: 04/02/2024 Analyzed: 04/08/2024 | | | | | |
|-----------------------------------|------|--------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28) | 971 | 50.0 | mg/kg | 1000 | ND | 97.1 | 70-130 | 12.2 | 35 | |
| Residual Range Organics (C28-C40) | 1080 | 200 | " | 1000 | ND | 108 | 70-130 | 12.5 | 35 | |
| Surrogate: o-Terphenyl | 55 | | " | 49.8 | | 110 | 50-150 | | | |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4D0452 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B4D0452-BLK1) | | | | | Prepared: 04/04/2024 Analyzed: 04/06/2024 | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | | | | | | | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | | | | | | | Ua |
| Benzene | ND | 0.00200 | " | | | | | | | Ua |
| Ethylbenzene | ND | 0.00200 | " | | | | | | | Ua |
| Naphthalene | ND | 0.00380 | " | | | | | | | Ua |
| Toluene | ND | 0.00200 | " | | | | | | | Ua |
| Xylenes, total | ND | 0.00200 | " | | | | | | | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | | | | | | | Ua |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11 | | " | 0.125 | | 86.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 93.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 95.8 | 70-130 | | | |

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 B4D0452 - EPA 5030 (soil) | | | | | | | | | | |
| LCS (B4D0452-BS1) | | | | | Prepared: 04/04/2024 Analyzed: 04/06/2024 | | | | | |
| 1,2,4-Trimethylbenzene | 0.110 | 0.00200 | mg/kg | 0.100 | | 110 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.110 | 0.00200 | " | 0.100 | | 110 | 70-130 | | | |
| Benzene | 0.0844 | 0.00200 | " | 0.100 | | 84.4 | 70-130 | | | |
| Ethylbenzene | 0.101 | 0.00200 | " | 0.100 | | 101 | 70-130 | | | |
| Naphthalene | 0.111 | 0.00380 | " | 0.100 | | 111 | 70-130 | | | |
| Toluene | 0.0888 | 0.00200 | " | 0.100 | | 88.8 | 70-130 | | | |
| o-Xylene | 0.105 | 0.00200 | " | 0.100 | | 105 | 70-130 | | | |
| m,p-Xylene | 0.216 | 0.00400 | " | 0.200 | | 108 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11 | | " | 0.125 | | 87.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 94.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 95.6 | 70-130 | | | |

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 B4D0452 - EPA 5030 (soil) | | | | | | | | | | |
| Matrix Spike (B4D0452-MS1) | | Source: Y403860-01 | | | Prepared: 04/04/2024 Analyzed: 04/06/2024 | | | | | |
| 1,2,4-Trimethylbenzene | 0.0850 | 0.00200 | mg/kg | 0.100 | ND | 85.0 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0872 | 0.00200 | " | 0.100 | ND | 87.2 | 70-130 | | | |
| Benzene | 0.0797 | 0.00200 | " | 0.100 | ND | 79.7 | 70-130 | | | |
| Ethylbenzene | 0.0852 | 0.00200 | " | 0.100 | ND | 85.2 | 70-130 | | | |
| Naphthalene | 0.0558 | 0.00380 | " | 0.100 | ND | 55.8 | 70-130 | | | QM-07 |
| Toluene | 0.0755 | 0.00200 | " | 0.100 | ND | 75.5 | 70-130 | | | |
| o-Xylene | 0.0778 | 0.00200 | " | 0.100 | ND | 77.8 | 70-130 | | | |
| m,p-Xylene | 0.176 | 0.00400 | " | 0.200 | ND | 88.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.10 | | " | 0.125 | | 82.5 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 95.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 99.1 | 70-130 | | | |

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 B4D0452 - EPA 5030 (soil) | | | | | | | | | | |
| Matrix Spike Dup (B4D0452-MSD1) | | Source: Y403860-01 | | | Prepared: 04/04/2024 Analyzed: 04/06/2024 | | | | | |
| 1,2,4-Trimethylbenzene | 0.0706 | 0.00200 | mg/kg | 0.100 | ND | 70.6 | 70-130 | 18.5 | 20 | |
| 1,3,5-Trimethylbenzene | 0.0716 | 0.00200 | " | 0.100 | ND | 71.6 | 70-130 | 19.6 | 20 | |
| Benzene | 0.0750 | 0.00200 | " | 0.100 | ND | 75.0 | 70-130 | 6.15 | 20 | |
| Ethylbenzene | 0.0695 | 0.00200 | " | 0.100 | ND | 69.5 | 70-130 | 20.3 | 20 | QM-07 |
| Naphthalene | 0.0596 | 0.00380 | " | 0.100 | ND | 59.6 | 70-130 | 6.55 | 20 | QM-07 |
| Toluene | 0.0657 | 0.00200 | " | 0.100 | ND | 65.7 | 70-130 | 13.9 | 20 | QM-07 |
| o-Xylene | 0.0644 | 0.00200 | " | 0.100 | ND | 64.4 | 70-130 | 18.9 | 20 | QM-07 |
| m,p-Xylene | 0.144 | 0.00400 | " | 0.200 | ND | 72.2 | 70-130 | 20.0 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 94.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.11 | | " | 0.125 | | 90.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.5 | 70-130 | | | |

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

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

Batch B4C2948 - EPA 3050B

Blank (B4C2948-BLK1)

Prepared: 03/29/2024 Analyzed: 04/05/2024

Arsenic ND 0.290 mg/kg

LCS (B4C2948-BS1)

Prepared: 03/29/2024 Analyzed: 04/05/2024

Arsenic 5.47 0.290 mg/kg 5.00 109 80-120

Matrix Spike (B4C2948-MS1)

Source: Y403860-02

Prepared: 03/29/2024 Analyzed: 04/08/2024

Arsenic 8.23 0.273 mg/kg 4.70 2.41 124 75-125

Matrix Spike Dup (B4C2948-MSD1)

Source: Y403860-02

Prepared: 03/29/2024 Analyzed: 04/08/2024

Arsenic 7.90 0.255 mg/kg 4.39 2.41 125 75-125 4.10 20

Batch B4D0228 - EPA 3050B

Blank (B4D0228-BLK1)

Prepared: 04/02/2024 Analyzed: 04/04/2024

Arsenic ND 0.290 mg/kg

LCS (B4D0228-BS1)

Prepared: 04/02/2024 Analyzed: 04/04/2024

Arsenic 5.60 0.290 mg/kg 5.00 112 80-120

Matrix Spike (B4D0228-MS1)

Source: Y403867-03

Prepared: 04/02/2024 Analyzed: 04/04/2024

Arsenic 12.8 0.283 mg/kg 4.89 12.7 0.889 75-125 QM-07

Matrix Spike Dup (B4D0228-MSD1)

Source: Y403867-03

Prepared: 04/02/2024 Analyzed: 04/04/2024

Arsenic 12.3 0.270 mg/kg 4.65 12.7 NR 75-125 3.81 20 QM-07

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B4D0228 - EPA 3050B

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

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

Batch B4D0310 - DTPA Sorbitol Preparation

Blank (B4D0310-BLK1)

Prepared: 04/03/2024 Analyzed: 04/04/2024

Boron ND 0.100 mg/L

Duplicate (B4D0310-DUP1)

Source: Y403867-01

Prepared: 04/03/2024 Analyzed: 04/04/2024

Boron 1.38 0.101 mg/L 1.36 0.955 50

Batch B4D0502 - Saturated Paste Metals

Blank (B4D0502-BLK1)

Prepared: 04/05/2024 Analyzed: 04/08/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4D0502-DUP1)

Source: Y403867-01

Prepared: 04/05/2024 Analyzed: 04/08/2024

SAR ND 0.0100 SAR 13.7 200

Calcium PPM 17.7 10.0 mg/L 26.0 38.0 50

Magnesium PPM 16.4 10.0 " 15.9 3.22 50

Sodium PPM 363 10.0 " 361 0.506 50

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Saturated Paste - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|----------|-------------|--|------|-------------|-------|-----------|-------|
| Batch B4D0517 - Saturated Paste pH/EC | | | | | | | | | | |
| Blank (B4D0517-BLK1) | | | | | Prepared: 04/05/2024 Analyzed: 04/05/2024 | | | | | |
| Specific Conductance (EC) | ND | 0.00500 | mmhos/cm | | | | | | | |
| Duplicate (B4D0517-DUP1) | | | | | Source: Y403867-01 Prepared: 04/05/2024 Analyzed: 04/05/2024 | | | | | |
| pH | 8.40 | | pH Units | | 8.47 | | | 0.830 | 25 | |
| Specific Conductance (EC) | 1.91 | 0.00500 | mmhos/cm | | 1.88 | | | 1.33 | 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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------|-------------|---|------|-------------|-----|-----------|-------|
| Batch 2590643 - SW846 3060A | | | | | | | | | | |
| BLANK (1205691988-BLK) | | | | | Prepared: 04/03/2024 Analyzed: 04/03/2024 | | | | | |
| Hexavalent Chromium | ND | 0.246 | mg/kg | | | | - | | | U |
| LCS (1205691989-BKS) | | | | | Prepared: 04/03/2024 Analyzed: 04/03/2024 | | | | | |
| Hexavalent Chromium | 3.93 | 0.381 | mg/kg | 3.81 | | 103 | 80-120 | | | |
| DUP (1205691990 D) | | | | | Source: Y403867-01 Prepared: 04/03/2024 Analyzed: 04/03/2024 | | | | | |
| Hexavalent Chromium | ND | 0.464 | mg/kg dry | | <0.186 | | 0-50 | N/A | 50 | U |
| MS (1205691991 S) | | | | | Source: Y403867-01 Prepared: 04/03/2024 Analyzed: 04/03/2024 | | | | | |
| Hexavalent Chromium | 4.11 | 0.465 | mg/kg dry | 4.65 | <0.186 | 87.7 | 75-125 | | | |
| DUP (1205691992 D) | | | | | Source: Y403867-11 Prepared: 04/03/2024 Analyzed: 04/03/2024 | | | | | |
| Hexavalent Chromium | ND | 0.315 | mg/kg dry | | <0.126 | | 0-50 | N/A | 50 | U |
| MS (1205691993 S) | | | | | Source: Y403867-11 Prepared: 04/03/2024 Analyzed: 04/03/2024 | | | | | |
| Hexavalent Chromium | 1.51 | 0.316 | mg/kg dry | 3.16 | <0.126 | 45 | 75-125 | | | |
| ILCS (1205691994-ILCS) | | | | | Prepared: 04/03/2024 Analyzed: 04/03/2024 | | | | | |
| Hexavalent Chromium | 7.20 | 0.349 | mg/kg | 7.16 | | 101 | 80-120 | | | |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Greater than the detection limit but less than the reporting 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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.

April 12, 2024

Mull Drilling

Kendall Pelton

1700 N Waterfront Pkway Bldg #1200

Wichita

KS 67206

Project Name - Mauer SWD#1

Project Number - [none]

Attached are your analytical results for Mauer SWD#1 received by Origins Laboratory, Inc. April 04, 2024. This project is associated with Origins project number Y404132-01.

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



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|---------------------|------------------|
| EX SS 01 4' | Y404132-01 | Soil | April 4, 2024 12:00 | 04/04/2024 15:00 |
| EX SS 02 4' | Y404132-02 | Soil | April 4, 2024 12:05 | 04/04/2024 15:00 |
| EX SS 03 4' | Y404132-03 | Soil | April 4, 2024 12:10 | 04/04/2024 15:00 |
| EX SS 04 4' | Y404132-04 | Soil | April 4, 2024 12:15 | 04/04/2024 15:00 |
| EX SS 05 5' | Y404132-05 | Soil | April 4, 2024 12:20 | 04/04/2024 15:00 |

Origins Laboratory, Inc.



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

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1404132 Client: Mull

Checklist Completed by: EHS Client Project ID: Mauer SWD # 1

Date/time completed: 4/4/24 Shipped Via: HO
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
Airbill #: N/A

Cooler Number/Temperature: 1 / 24 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1000

| 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"/> | | <u>SD</u> |
| 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 ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <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 ⁽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 checked="" 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 be taken in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager) Date/Time Reviewed: 4/8/24

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

EX SS 01 4'

4/4/2024 12:00:00PM

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

Origins Laboratory, Inc. Y404132-01 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|-----|------------|------------|
| Boron | 3.29 | 0.0982 | mg/L | 1 | B4D0808 | ACC | 04/08/2024 | 04/09/2024 |
|-------|------|--------|------|---|---------|-----|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|-----|------------|------------|
| Calcium | 18.4 | 0.499 | meq/L | 10 | [CALC] | ACC | 04/06/2024 | 04/08/2024 |
| Magnesium | 44.0 | 0.823 | " | " | " | ACC | " | " |
| Sodium | 86.6 | 0.435 | " | " | " | ACC | " | " |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 8.11 | | pH Units | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|-----|------------|------------|
| SAR | 15.5 | 0.0100 | SAR | 1 | B4D0608 | ACC | 04/06/2024 | 04/08/2024 |
|-----|------|--------|-----|---|---------|-----|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 9.53 | 0.00500 | mmhos/cm | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-------|----|---------|-----|------------|------------|
| Arsenic | 9.04 | 0.282 | mg/kg | 10 | B4D0434 | KMC | 04/04/2024 | 04/08/2024 |
|---------|------|-------|-------|----|---------|-----|------------|------------|

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

EX SS 02 4'

4/4/2024 12:05:00PM

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

Origins Laboratory, Inc. Y404132-02 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|-----|------------|------------|
| Boron | 2.81 | 0.0987 | mg/L | 1 | B4D0808 | ACC | 04/08/2024 | 04/09/2024 |
|-------|------|--------|------|---|---------|-----|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|-----|------------|------------|
| Calcium | 20.9 | 0.499 | meq/L | 10 | [CALC] | ACC | 04/06/2024 | 04/08/2024 |
| Magnesium | 40.0 | 0.823 | " | " | " | ACC | " | " |
| Sodium | 71.1 | 0.435 | " | " | " | ACC | " | " |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 8.10 | | pH Units | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|-----|------------|------------|
| SAR | 12.9 | 0.0100 | SAR | 1 | B4D0608 | ACC | 04/06/2024 | 04/08/2024 |
|-----|------|--------|-----|---|---------|-----|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 8.44 | 0.00500 | mmhos/cm | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-------|----|---------|-----|------------|------------|
| Arsenic | 7.60 | 0.260 | mg/kg | 10 | B4D0434 | KMC | 04/04/2024 | 04/08/2024 |
|---------|------|-------|-------|----|---------|-----|------------|------------|

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

EX SS 03 4'

4/4/2024 12:10:00PM

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

Origins Laboratory, Inc. Y404132-03 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|-----|------------|------------|
| Boron | 2.95 | 0.0994 | mg/L | 1 | B4D0808 | ACC | 04/08/2024 | 04/09/2024 |
|-------|------|--------|------|---|---------|-----|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|-----|------------|------------|
| Calcium | 20.8 | 0.499 | meq/L | 10 | [CALC] | ACC | 04/06/2024 | 04/08/2024 |
| Magnesium | 48.2 | 0.823 | " | " | " | ACC | " | " |
| Sodium | 83.8 | 0.435 | " | " | " | ACC | " | " |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 8.07 | | pH Units | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|-----|------------|------------|
| SAR | 14.3 | 0.0100 | SAR | 1 | B4D0608 | ACC | 04/06/2024 | 04/08/2024 |
|-----|------|--------|-----|---|---------|-----|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 9.51 | 0.00500 | mmhos/cm | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-------|----|---------|-----|------------|------------|
| Arsenic | 7.34 | 0.257 | mg/kg | 10 | B4D0434 | KMC | 04/04/2024 | 04/08/2024 |
|---------|------|-------|-------|----|---------|-----|------------|------------|

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

EX SS 04 4'

4/4/2024 12:15:00PM

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

Origins Laboratory, Inc. Y404132-04 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|-----|------------|------------|
| Boron | 3.26 | 0.0981 | mg/L | 1 | B4D0808 | ACC | 04/08/2024 | 04/09/2024 |
|-------|------|--------|------|---|---------|-----|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|-----|------------|------------|
| Calcium | 14.2 | 0.499 | meq/L | 10 | [CALC] | ACC | 04/06/2024 | 04/08/2024 |
| Magnesium | 35.2 | 0.823 | " | " | " | ACC | " | " |
| Sodium | 70.4 | 0.435 | " | " | " | ACC | " | " |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 8.16 | | pH Units | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|-----|------------|------------|
| SAR | 14.2 | 0.0100 | SAR | 1 | B4D0608 | ACC | 04/06/2024 | 04/08/2024 |
|-----|------|--------|-----|---|---------|-----|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 8.11 | 0.00500 | mmhos/cm | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-------|----|---------|-----|------------|------------|
| Arsenic | 6.66 | 0.258 | mg/kg | 10 | B4D0434 | KMC | 04/04/2024 | 04/08/2024 |
|---------|------|-------|-------|----|---------|-----|------------|------------|

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

EX SS 05 5'

4/4/2024 12:20:00PM

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

Origins Laboratory, Inc.
Y404132-05 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|-------|------|---|---------|-----|------------|------------|
| Boron | 2.92 | 0.101 | mg/L | 1 | B4D0808 | ACC | 04/08/2024 | 04/09/2024 |
|-------|------|-------|------|---|---------|-----|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|-----|------------|------------|
| Calcium | 18.8 | 0.499 | meq/L | 10 | [CALC] | ACC | 04/06/2024 | 04/08/2024 |
| Magnesium | 44.4 | 0.823 | " | " | " | ACC | " | " |
| Sodium | 82.3 | 0.435 | " | " | " | ACC | " | " |

pH in Soil by 9045D

| | | | | | | | | |
|----|------|--|----------|---|---------|-----|------------|------------|
| pH | 8.11 | | pH Units | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|----|------|--|----------|---|---------|-----|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | | |
|-----|------|--------|-----|---|---------|-----|------------|------------|
| SAR | 14.6 | 0.0100 | SAR | 1 | B4D0608 | ACC | 04/06/2024 | 04/08/2024 |
|-----|------|--------|-----|---|---------|-----|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | | |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|
| Specific Conductance (EC) | 9.31 | 0.00500 | mmhos/cm | 1 | B4D0618 | EAL | 04/06/2024 | 04/08/2024 |
|---------------------------|------|---------|----------|---|---------|-----|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | | |
|---------|------|-------|-------|----|---------|-----|------------|------------|
| Arsenic | 8.91 | 0.287 | mg/kg | 10 | B4D0434 | KMC | 04/04/2024 | 04/08/2024 |
|---------|------|-------|-------|----|---------|-----|------------|------------|

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Metals by EPA 6000/7000 Series Methods - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------|--------|--------------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| Batch B4D0434 - EPA 3050B | | | | | | | | | | |
| Blank (B4D0434-BLK1) | | | | | Prepared: 04/04/2024 Analyzed: 04/08/2024 | | | | | |
| Arsenic | ND | 0.290 | mg/kg | | | | | | | |
| LCS (B4D0434-BS1) | | | | | Prepared: 04/04/2024 Analyzed: 04/09/2024 | | | | | |
| Arsenic | 4.82 | 0.0290 | mg/kg | 5.00 | | 96.4 | 80-120 | | | |
| Matrix Spike (B4D0434-MS1) | | Source: Y404109-01 | | | Prepared: 04/04/2024 Analyzed: 04/09/2024 | | | | | |
| Arsenic | 6.98 | 0.263 | mg/kg | 4.53 | 1.54 | 120 | 75-125 | | | |
| Matrix Spike Dup (B4D0434-MSD1) | | Source: Y404109-01 | | | Prepared: 04/04/2024 Analyzed: 04/09/2024 | | | | | |
| Arsenic | 6.95 | 0.270 | mg/kg | 4.66 | 1.54 | 116 | 75-125 | 0.366 | 20 | |

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

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

Batch B4D0608 - Saturated Paste Metals

Blank (B4D0608-BLK1)

Prepared: 04/06/2024 Analyzed: 04/08/2024

| | | | |
|---------------|----|--------|------|
| SAR | ND | 0.0100 | SAR |
| Calcium PPM | ND | 10.0 | mg/L |
| Magnesium PPM | ND | 10.0 | " |
| Sodium PPM | ND | 10.0 | " |

Duplicate (B4D0608-DUP1)

Source: Y404132-01

Prepared: 04/06/2024 Analyzed: 04/08/2024

| | | | | | | |
|---------------|------|--------|------|------|--------|-----|
| Calcium PPM | 385 | 10.0 | mg/L | 369 | 4.19 | 50 |
| SAR | ND | 0.0100 | SAR | 15.5 | | 200 |
| Magnesium PPM | 535 | 10.0 | mg/L | 535 | 0.0131 | 50 |
| Sodium PPM | 1930 | 10.0 | " | 1990 | 3.35 | 50 |

Batch B4D0808 - DTPA Sorbitol Preparation

Blank (B4D0808-BLK1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

| | | | |
|-------|----|-------|------|
| Boron | ND | 0.100 | mg/L |
|-------|----|-------|------|

Duplicate (B4D0808-DUP1)

Source: Y404127-04

Prepared: 04/08/2024 Analyzed: 04/09/2024

| | | | | | | |
|-------|------|--------|------|------|------|----|
| Boron | 1.03 | 0.0998 | mg/L | 1.02 | 1.01 | 50 |
|-------|------|--------|------|------|------|----|

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Saturated Paste - Quality Control

Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|----------|-------------|--|------|-------------|-------|-----------|-------|
| Batch B4D0618 - Saturated Paste pH/EC | | | | | | | | | | |
| Blank (B4D0618-BLK1) | | | | | Prepared: 04/06/2024 Analyzed: 04/08/2024 | | | | | |
| Specific Conductance (EC) | ND | 0.00500 | mmhos/cm | | | | | | | |
| Duplicate (B4D0618-DUP1) | | | | | Source: Y404132-01 Prepared: 04/06/2024 Analyzed: 04/08/2024 | | | | | |
| pH | 8.09 | | pH Units | | 8.11 | | | 0.247 | 25 | |
| Specific Conductance (EC) | 9.31 | 0.00500 | mmhos/cm | | 9.53 | | | 2.36 | 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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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.



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.

June 17, 2024

Mull Drilling

Kendall Pelton

1700 N Waterfront Pkway Bldg #1200

Wichita

KS

67206

Project Name - Mauer SWD#1

Project Number - [none]

Attached are your analytical results for Mauer SWD#1 received by Origins Laboratory, Inc. May 29, 2024. This project is associated with Origins project number Y405796-01.

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



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|--------------------|------------------|
| Bg 09 1' | Y405796-01 | Soil | May 29, 2024 10:50 | 05/29/2024 13:50 |
| Bg 09 4' | Y405796-02 | Soil | May 29, 2024 10:55 | 05/29/2024 13:50 |
| Bg 09 6' | Y405796-03 | Soil | May 29, 2024 11:00 | 05/29/2024 13:50 |
| Bg 08 1' | Y405796-04 | Soil | May 29, 2024 11:10 | 05/29/2024 13:50 |
| Bg 08 4' | Y405796-05 | Soil | May 29, 2024 11:15 | 05/29/2024 13:50 |
| Bg 08 6' | Y405796-06 | Soil | May 29, 2024 11:20 | 05/29/2024 13:50 |
| Bg 07 1' | Y405796-07 | Soil | May 29, 2024 11:30 | 05/29/2024 13:50 |
| Bg 07 4' | Y405796-08 | Soil | May 29, 2024 11:35 | 05/29/2024 13:50 |
| Bg 07 6' | Y405796-09 | Soil | May 29, 2024 11:40 | 05/29/2024 13:50 |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4405790

page of

Client: Mull Drilling
Address: 1700 N Waterfront Pkwy
Wichita KS 67206
Telephone Number: 316 264 6855
Email Address: KPelton@MullDrilling.com

Project Manager: Kendall Pelton
Project Name: Mauer #1 SWD
Project Number:
Samples Collected By: Kendall Pelton

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | Sample Instructions |
|--|----------------------|--------------------|-----------------|---------------------------------|----------------------|--------------------|-------|--|------|----------------------|----------|---------------------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa Canister # | | |
| B9 09 1' | 5/24/24 | 10:50 | 2 | X | | | | | X | | | Full Table 915-1 1 |
| B9 09 4' | 5/24/24 | 10:55 | 2 | X | | | | | X | | | Full Table 915-1 2 |
| B9 09 6' | 5/24/24 | 11:00 | 2 | X | | | | | X | | | Full Table 915-1 3 |
| B9 08 1' | 5/24/24 | 11:10 | 2 | X | | | | | X | | | Full Table 915-1 4 |
| B9 08 4' | 5/24/24 | 11:15 | 2 | X | | | | | X | | | Full Table 915-1 5 |
| B9 08 6' | 5/24/24 | 11:20 | 2 | X | | | | | X | | | Full Table 915-1 6 |
| B9 07 1' | 5/24/24 | 11:30 | 2 | X | | | | | X | | | Full Table 915-1 7 |
| B9 07 4' | 5/24/24 | 11:35 | 2 | X | | | | | X | | | Full Table 915-1 8 |
| B9 07 6' | 5/24/24 | 11:42 | 2 | X | | | | | X | | | Full Table 915-1 9 |
| | | | | | | | | | | | | 10 |
| Relinquished By: <u>Kendall Pelton</u> | Date: <u>5/24/24</u> | Time: <u>11:50</u> | | Received By: <u>[Signature]</u> | Date: <u>5/29/24</u> | Time: <u>13:50</u> | | 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: 13 Date Results Needed:

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4405794

Client: Mull Drilling

Client Project ID: Mauer #1 SWD

Checklist Completed by: JPL / SA

Shipped Via: TCV

Date/time completed: 5/29/24

(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, 13 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7005

| 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"/> | | |
| 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 ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <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 ⁽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 checked="" 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 (Project Manager)

5/29/24
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 1'

5/29/2024 10:50:00AM

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

Origins Laboratory, Inc.
Y405796-01 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.421 | 0.100 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

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

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | | | | |
|----------------------------------|-------|--------|---|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | " | " | " | " | " | |
|----------------------------------|-------|--------|---|---|---|---|---|--|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 1'

5/29/2024 10:50:00AM

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

Origins Laboratory, Inc.
Y405796-01 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 99.9 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 111 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.52 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 1.41 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 1'

5/29/2024 10:50:00AM

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

Origins Laboratory, Inc.
Y405796-01 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 100 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 95.6 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 111 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 102 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.19 | pH Units | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 1.37 | 0.0100 | SAR | 1 | B4E3107 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.262 | 0.00500 | mmhos/cm | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

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.

Jen Pellegrini, Project Manager

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 09 1'

5/29/2024 10:50:00AM

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

Origins Laboratory, Inc.

Y405796-01 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 7.38 | 0.253 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 120 | 8.72 | " | " | " | " | " | |
| Cadmium | 0.222 | 0.0872 | " | " | " | " | " | |
| Copper | 24.0 | 8.72 | " | " | " | " | " | |
| Lead | 13.9 | 0.872 | " | " | " | " | " | |
| Nickel | 16.2 | 0.872 | " | " | " | " | " | |
| Selenium | 0.687 | 0.227 | " | " | " | " | " | |
| Silver | ND | 0.0872 | " | " | " | " | " | Ua |
| Zinc | 109 | 32.3 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.161 | 0.403 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 4'

5/29/2024 10:55:00AM

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

Origins Laboratory, Inc.
Y405796-02 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.399 | 0.0987 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

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

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | | | | |
|----------------------------------|-------|--------|---|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 110 % | 70-130 | " | " | " | " | " | |
|----------------------------------|-------|--------|---|---|---|---|---|--|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 4'

5/29/2024 10:55:00AM

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

Origins Laboratory, Inc.
Y405796-02 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 87.5 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 109 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.01 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 1.44 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 4'

5/29/2024 10:55:00AM

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

Origins Laboratory, Inc.
Y405796-02 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 99.4 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 95.5 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 109 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 103 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.37 | pH Units | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 1.68 | 0.0100 | SAR | 1 | B4E3107 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.265 | 0.00500 | mmhos/cm | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

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.

Jen Pellegrini, Project Manager

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 09 4'

5/29/2024 10:55:00AM

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

Origins Laboratory, Inc.

Y405796-02 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 6.19 | 0.264 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 116 | 9.10 | " | " | " | " | " | |
| Cadmium | 0.181 | 0.0910 | " | " | " | " | " | |
| Copper | 11.8 | 9.10 | " | " | " | " | " | |
| Lead | 11.7 | 0.910 | " | " | " | " | " | |
| Nickel | 11.4 | 0.910 | " | " | " | " | " | |
| Selenium | 0.631 | 0.237 | " | " | " | " | " | |
| Silver | ND | 0.0910 | " | " | " | " | " | Ua |
| Zinc | 41.3 | 33.7 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.164 | 0.411 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 6'

5/29/2024 11:00:00AM

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

Origins Laboratory, Inc.
Y405796-03 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|--|
| Boron | 1.56 | 0.0987 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

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

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | |
|----------------------------------|-------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 116 % | 70-130 | " | " | " |
|----------------------------------|-------|--------|---|---|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 09 6'

5/29/2024 11:00:00AM

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

Origins Laboratory, Inc.
Y405796-03 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 98.1 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 104 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 2.52 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | 4.22 | 0.823 | " | " | " | " | " |
| Sodium | 20.3 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 09 6'

5/29/2024 11:00:00AM

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

Origins Laboratory, Inc.

Y405796-03 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 99.1 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 95.2 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 109 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 96.7 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.48 | pH Units | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 11.0 | 0.0100 | SAR | 1 | B4E3107 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 2.65 | 0.00500 | mmhos/cm | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 09 6'

5/29/2024 11:00:00AM

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

Origins Laboratory, Inc.

Y405796-03 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 7.67 | 0.253 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 374 | 8.72 | " | " | " | " | " | |
| Cadmium | 0.184 | 0.0872 | " | " | " | " | " | |
| Copper | 15.8 | 8.72 | " | " | " | " | " | |
| Lead | 13.7 | 0.872 | " | " | " | " | " | |
| Nickel | 13.5 | 0.872 | " | " | " | " | " | |
| Selenium | 1.01 | 0.227 | " | " | " | " | " | |
| Silver | ND | 0.0872 | " | " | " | " | " | Ua |
| Zinc | 52.5 | 32.3 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.187 | 0.467 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 08 1'

5/29/2024 11:10:00AM

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

Origins Laboratory, Inc.
Y405796-04 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.448 | 0.0989 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|--------|--------|---|---|---|---|---|
| Surrogate: o-Terphenyl | 92.7 % | 50-150 | " | " | " | " | " |
|------------------------|--------|--------|---|---|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | | | |
|----------------------------------|-------|--------|---|---|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 111 % | 70-130 | " | " | " | " | " |
|----------------------------------|-------|--------|---|---|---|---|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 08 1'

5/29/2024 11:10:00AM

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

Origins Laboratory, Inc.
Y405796-04 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 89.1 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 109 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 4.98 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | 1.78 | 0.823 | " | " | " | " | " |
| Sodium | 2.68 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 08 1'

5/29/2024 11:10:00AM

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

Origins Laboratory, Inc.
Y405796-04 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 99.0 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 94.4 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 114 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 100 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.23 | pH Units | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 1.46 | 0.0100 | SAR | 1 | B4E3107 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.864 | 0.00500 | mmhos/cm | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 08 1'

5/29/2024 11:10:00AM

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

Origins Laboratory, Inc.

Y405796-04 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 7.74 | 0.278 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 140 | 9.57 | " | " | " | " | " | |
| Cadmium | 0.168 | 0.0957 | " | " | " | " | " | |
| Copper | 14.3 | 9.57 | " | " | " | " | " | |
| Lead | 14.5 | 0.957 | " | " | " | " | " | |
| Nickel | 12.8 | 0.957 | " | " | " | " | " | |
| Selenium | 0.661 | 0.249 | " | " | " | " | " | |
| Silver | ND | 0.0957 | " | " | " | " | " | Ua |
| Zinc | 50.5 | 35.4 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.149 | 0.372 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 08 4'

5/29/2024 11:15:00AM

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

Origins Laboratory, Inc.
Y405796-05 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.398 | 0.101 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 87.5 % | 50-150 | " | " | " |
|------------------------|--------|--------|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | |
|----------------------------------|-------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | 70-130 | " | " | " |
|----------------------------------|-------|--------|---|---|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 08 4'

5/29/2024 11:15:00AM

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

Origins Laboratory, Inc.
Y405796-05 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 91.8 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 108 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 5.24 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | 3.35 | 0.823 | " | " | " | " | " |
| Sodium | 4.68 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 08 4'

5/29/2024 11:15:00AM

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

Origins Laboratory, Inc.
Y405796-05 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 99.6 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 95.3 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 114 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 99.5 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 7.89 | pH Units | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 2.26 | 0.0100 | SAR | 1 | B4E3107 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 1.32 | 0.00500 | mmhos/cm | 1 | B4E3117 | 05/31/2024 | 05/31/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

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.

Jen Pellegrini, Project Manager

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 08 4'

5/29/2024 11:15:00AM

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

Origins Laboratory, Inc.

Y405796-05 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 8.32 | 0.279 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 132 | 9.61 | " | " | " | " | " | |
| Cadmium | 0.174 | 0.0961 | " | " | " | " | " | |
| Copper | 13.5 | 9.61 | " | " | " | " | " | |
| Lead | 14.4 | 0.961 | " | " | " | " | " | |
| Nickel | 11.8 | 0.961 | " | " | " | " | " | |
| Selenium | 0.485 | 0.250 | " | " | " | " | " | |
| Silver | ND | 0.0961 | " | " | " | " | " | Ua |
| Zinc | 46.6 | 35.5 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.189 | 0.473 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 08 6'

5/29/2024 11:20:00AM

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

Origins Laboratory, Inc.
Y405796-06 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|--|
| Boron | 0.478 | 0.101 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|-------|-------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | | |
|------------------------|--------|--------|---|---|---|---|---|--|
| Surrogate: o-Terphenyl | 86.8 % | 50-150 | " | " | " | " | " | |
|------------------------|--------|--------|---|---|---|---|---|--|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | | | | |
|----------------------------------|-------|--------|---|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | " | " | " | " | " | |
|----------------------------------|-------|--------|---|---|---|---|---|--|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 08 6'

5/29/2024 11:20:00AM

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

Origins Laboratory, Inc.
Y405796-06 (Soil)

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|---------------------------------|--------|--------|--|--|--|-------------|------------|------------|--|
| Surrogate: Toluene-d8 | 99.8 % | 70-130 | | | | B4E30 46 | 05/30/2024 | 05/31/2024 | |
| Surrogate: 4-Bromofluorobenzene | 107 % | 70-130 | | | | " | " | " | |

Metals by Saturated Paste by EPA 6010

| | | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|--|
| Calcium | 2.32 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 | |
| Magnesium | 2.31 | 0.823 | " | " | " | " | " | |
| Sodium | 6.88 | 0.435 | " | " | " | " | " | |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 08 6'

5/29/2024 11:20:00AM

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

Origins Laboratory, Inc.

Y405796-06 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 99.4 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 95.3 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 107 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 100 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.45 | pH Units | 1 | B4E3118 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 4.52 | 0.0100 | SAR | 1 | B4E3108 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 1.18 | 0.00500 | mmhos/cm | 1 | B4E3118 | 05/31/2024 | 05/31/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 08 6'

5/29/2024 11:20:00AM

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

Origins Laboratory, Inc.

Y405796-06 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 6.46 | 0.280 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 122 | 9.64 | " | " | " | " | " | |
| Cadmium | 0.176 | 0.0964 | " | " | " | " | " | |
| Copper | 11.5 | 9.64 | " | " | " | " | " | |
| Lead | 12.5 | 0.964 | " | " | " | " | " | |
| Nickel | 10.7 | 0.964 | " | " | " | " | " | |
| Selenium | 0.431 | 0.251 | " | " | " | " | " | |
| Silver | ND | 0.0964 | " | " | " | " | " | Ua |
| Zinc | 45.1 | 35.7 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.168 | 0.420 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 07 1'

5/29/2024 11:30:00AM

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

Origins Laboratory, Inc.
Y405796-07 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|-------|--------|------|---|---------|------------|------------|--|
| Boron | 0.983 | 0.0994 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|-------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | | |
|------------------------|--------|--------|---|---|---|---|---|--|
| Surrogate: o-Terphenyl | 84.1 % | 50-150 | " | " | " | " | " | |
|------------------------|--------|--------|---|---|---|---|---|--|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | | | | |
|----------------------------------|-------|--------|---|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 107 % | 70-130 | " | " | " | " | " | |
|----------------------------------|-------|--------|---|---|---|---|---|--|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 07 1'

5/29/2024 11:30:00AM

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

Origins Laboratory, Inc.
Y405796-07 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 90.1 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 110 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 2.04 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | 2.65 | 0.823 | " | " | " | " | " |
| Sodium | 17.1 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 07 1'

5/29/2024 11:30:00AM

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

Origins Laboratory, Inc.
Y405796-07 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 99.0 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 95.0 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 117 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 101 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.46 | pH Units | 1 | B4E3118 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 11.2 | 0.0100 | SAR | 1 | B4E3108 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 2.14 | 0.00500 | mmhos/cm | 1 | B4E3118 | 05/31/2024 | 05/31/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 07 1'

5/29/2024 11:30:00AM

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

Origins Laboratory, Inc.

Y405796-07 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 7.71 | 0.273 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 142 | 9.40 | " | " | " | " | " | |
| Cadmium | 0.222 | 0.0940 | " | " | " | " | " | |
| Copper | 15.4 | 9.40 | " | " | " | " | " | |
| Lead | 14.4 | 0.940 | " | " | " | " | " | |
| Nickel | 14.7 | 0.940 | " | " | " | " | " | |
| Selenium | 0.649 | 0.244 | " | " | " | " | " | |
| Silver | ND | 0.0940 | " | " | " | " | " | Ua |
| Zinc | 57.1 | 34.8 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.170 | 0.426 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 07 4'

5/29/2024 11:35:00AM

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

Origins Laboratory, Inc.
Y405796-08 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|--|
| Boron | 1.64 | 0.0991 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 79.1 % | 50-150 | " | " | " |
|------------------------|--------|--------|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | |
|----------------------------------|-------|--------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 126 % | 70-130 | " | " | " |
|----------------------------------|-------|--------|---|---|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 07 4'

5/29/2024 11:35:00AM

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

Origins Laboratory, Inc.
Y405796-08 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 97.4 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 109 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 3.98 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | 7.93 | 0.823 | " | " | " | " | " |
| Sodium | 36.9 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 07 4'

5/29/2024 11:35:00AM

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

Origins Laboratory, Inc.

Y405796-08 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 98.4 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 94.0 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 118 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 97.4 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.31 | pH Units | 1 | B4E3118 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 15.1 | 0.0100 | SAR | 1 | B4E3108 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 4.89 | 0.00500 | mmhos/cm | 1 | B4E3118 | 05/31/2024 | 05/31/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 07 4'

5/29/2024 11:35:00AM

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

Origins Laboratory, Inc.

Y405796-08 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 7.08 | 0.269 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 144 | 9.27 | " | " | " | " | " | |
| Cadmium | 0.219 | 0.0927 | " | " | " | " | " | |
| Copper | 16.0 | 9.27 | " | " | " | " | " | |
| Lead | 14.7 | 0.927 | " | " | " | " | " | |
| Nickel | 15.1 | 0.927 | " | " | " | " | " | |
| Selenium | 0.730 | 0.241 | " | " | " | " | " | |
| Silver | ND | 0.0927 | " | " | " | " | " | Ua |
| Zinc | 57.3 | 34.3 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.168 | 0.420 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 07 6'

5/29/2024 11:40:00AM

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

Origins Laboratory, Inc.
Y405796-09 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|--|
| Boron | 1.93 | 0.0990 | mg/L | 1 | B4E3013 | 05/30/2024 | 05/31/2024 | |
|-------|------|--------|------|---|---------|------------|------------|--|

DRO/ORO by EPA 8015D

| | | | | | | | | |
|-----------------------------------|----|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | " | " | " | " | Ua |

| | | | | | | | |
|------------------------|--------|--------|---|---|---|---|---|
| Surrogate: o-Terphenyl | 86.6 % | 50-150 | " | " | " | " | " |
|------------------------|--------|--------|---|---|---|---|---|

GBTEX+TMBs by 8260D

| | | | | | | | | |
|-----------------------------|----|---------|-------|---|---------|------------|------------|----|
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Benzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Ethylbenzene | ND | 0.00200 | " | " | " | " | " | Ua |
| Toluene | ND | 0.00200 | " | " | " | " | " | Ua |
| Xylenes, total | ND | 0.00200 | " | " | " | " | " | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | " | " | " | " | Ua |

| | | | | | | | |
|----------------------------------|-------|--------|---|---|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 108 % | 70-130 | " | " | " | " | " |
|----------------------------------|-------|--------|---|---|---|---|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Ba 07 6'

5/29/2024 11:40:00AM

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

Origins Laboratory, Inc.
Y405796-09 (Soil)

GBTEX+TMBs by 8260D

| | | | | | |
|---------------------------------|--------|--------|-------------|------------|------------|
| Surrogate: Toluene-d8 | 89.5 % | 70-130 | B4E30 46 | 05/30/2024 | 05/31/2024 |
| Surrogate: 4-Bromofluorobenzene | 110 % | 70-130 | " | " | " |

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 5.06 | 0.499 | meq/L | 10 | [CALC] | 05/31/2024 | 06/03/2024 |
| Magnesium | 11.6 | 0.823 | " | " | " | " | " |
| Sodium | 45.6 | 0.435 | " | " | " | " | " |

PAH by EPA 8270E

| | | | | | | | | |
|-------------------------|----|-------|-------|---|---------|------------|------------|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Acenaphthene | ND | 0.020 | " | " | " | " | " | Ua |
| Anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | " | " | " | " | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |
| Chrysene | ND | 0.020 | " | " | " | " | " | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | " | " | " | " | Ua |
| Fluoranthene | ND | 0.020 | " | " | " | " | " | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 07 6'

5/29/2024 11:40:00AM

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

Origins Laboratory, Inc.

Y405796-09 (Soil)

PAH by EPA 8270E

| | | | | | | | | |
|--------------------------|----|-------|-------|---|---------|------------|------------|----|
| Fluorene | ND | 0.020 | mg/kg | 1 | B4E3129 | 05/31/2024 | 06/01/2024 | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | " | " | " | " | Ua |
| Naphthalene | ND | 0.002 | " | " | " | " | " | Ua |
| Pyrene | ND | 0.020 | " | " | " | " | " | Ua |

| | | | | | |
|---------------------------------|--------|--------|---|---|---|
| Surrogate: Fluorene-d10 | 99.7 % | 60-130 | " | " | " |
| Surrogate: Anthracene-d10 | 94.7 % | 60-130 | " | " | " |
| Surrogate: Pyrene-d10 | 116 % | 60-130 | " | " | " |
| Surrogate: Benzo (a) pyrene-d12 | 97.7 % | 60-130 | " | " | " |

pH in Soil by 9045D

| | | | | | | |
|----|------|----------|---|---------|------------|------------|
| pH | 8.26 | pH Units | 1 | B4E3118 | 05/31/2024 | 05/31/2024 |
|----|------|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 15.8 | 0.0100 | SAR | 1 | B4E3108 | 05/31/2024 | 06/03/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 5.98 | 0.00500 | mmhos/cm | 1 | B4E3118 | 05/31/2024 | 06/03/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Ba 07 6'

5/29/2024 11:40:00AM

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

Origins Laboratory, Inc.

Y405796-09 (Soil)

Table 915 metals by EPA 6020B

| | | | | | | | | |
|----------|-------|--------|-------|----|---------|------------|------------|----|
| Arsenic | 5.42 | 0.251 | mg/kg | 10 | B4E2924 | 05/29/2024 | 05/31/2024 | |
| Barium | 278 | 8.67 | " | " | " | " | " | |
| Cadmium | 0.166 | 0.0867 | " | " | " | " | " | |
| Copper | 11.8 | 8.67 | " | " | " | " | " | |
| Lead | 10.9 | 0.867 | " | " | " | " | " | |
| Nickel | 11.1 | 0.867 | " | " | " | " | " | |
| Selenium | 0.642 | 0.225 | " | " | " | " | " | |
| Silver | ND | 0.0867 | " | " | " | " | " | Ua |
| Zinc | 43.8 | 32.1 | " | " | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.163 | 0.407 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

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.

Jen Pellegrini, Project Manager

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

Blank (B4E3001-BLK1)

Prepared: 05/30/2024 Analyzed: 06/04/2024

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | | | | | | | Ua |
| Surrogate: o-Terphenyl | 21 | | " | 24.9 | | 85.0 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

LCS (B4E3001-BS1)

Prepared: 05/30/2024 Analyzed: 06/04/2024

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 985 | 50.0 | mg/kg | 1000 | | 98.5 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 1040 | 200 | " | 1000 | | 104 | 70-130 | | | |
| Surrogate: o-Terphenyl | 55 | | " | 49.8 | | 111 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

| Matrix Spike (B4E3001-MS1) | | Source: Y405785-01 | | | Prepared: 05/30/2024 Analyzed: 06/04/2024 | | | | | |
|-----------------------------------|------|--------------------|-------|------|---|------|--------|--|--|--|
| Diesel (C10-C28) | 951 | 50.0 | mg/kg | 1000 | ND | 95.1 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 1010 | 200 | " | 1000 | ND | 101 | 70-130 | | | |
| Surrogate: o-Terphenyl | 50 | | " | 49.8 | | 101 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

| Matrix Spike Dup (B4E3001-MSD1) | | Source: Y405785-01 | | | Prepared: 05/30/2024 Analyzed: 06/04/2024 | | | | | |
|-----------------------------------|-----|--------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28) | 932 | 50.0 | mg/kg | 1000 | ND | 93.2 | 70-130 | 2.02 | 35 | |
| Residual Range Organics (C28-C40) | 996 | 200 | " | 1000 | ND | 99.6 | 70-130 | 1.36 | 35 | |
| Surrogate: o-Terphenyl | 47 | | " | 49.8 | | 93.6 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B4E3046-BLK1) | | | | | Prepared: 05/30/2024 Analyzed: 05/31/2024 | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | | | | | | | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | | | | | | | Ua |
| Benzene | ND | 0.00200 | " | | | | | | | Ua |
| Ethylbenzene | ND | 0.00200 | " | | | | | | | Ua |
| Naphthalene | ND | 0.00380 | " | | | | | | | Ua |
| Toluene | ND | 0.00200 | " | | | | | | | Ua |
| Xylenes, total | ND | 0.00200 | " | | | | | | | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | | | | | | | Ua |
| Surrogate: 1,2-Dichloroethane-d4 | 0.10 | | " | 0.125 | | 80.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.10 | | " | 0.125 | | 84.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 94.7 | 70-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil)

LCS (B4E3046-BS1)

Prepared: 05/30/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|----------------------------------|--------|---------|-------|-------|--|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene | 0.0944 | 0.00200 | mg/kg | 0.100 | | 94.4 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0977 | 0.00200 | " | 0.100 | | 97.7 | 70-130 | | | |
| Benzene | 0.113 | 0.00200 | " | 0.100 | | 113 | 70-130 | | | |
| Ethylbenzene | 0.0940 | 0.00200 | " | 0.100 | | 94.0 | 70-130 | | | |
| Naphthalene | 0.0984 | 0.00380 | " | 0.100 | | 98.4 | 70-130 | | | |
| Toluene | 0.0908 | 0.00200 | " | 0.100 | | 90.8 | 70-130 | | | |
| o-Xylene | 0.0919 | 0.00200 | " | 0.100 | | 91.9 | 70-130 | | | |
| m,p-Xylene | 0.183 | 0.00400 | " | 0.200 | | 91.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.11 | | " | 0.125 | | 88.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 98.3 | 70-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil) | | | | | | | | | | |
| Matrix Spike (B4E3046-MS1) | | Source: Y405787-01 | | | Prepared: 05/30/2024 Analyzed: 05/31/2024 | | | | | |
| 1,2,4-Trimethylbenzene | 0.0489 | 0.00200 | mg/kg | 0.100 | ND | 48.9 | 70-130 | | | QM-07 |
| 1,3,5-Trimethylbenzene | 0.0480 | 0.00200 | " | 0.100 | ND | 48.0 | 70-130 | | | QM-07 |
| Benzene | 0.0618 | 0.00200 | " | 0.100 | ND | 61.8 | 70-130 | | | QM-07 |
| Ethylbenzene | 0.0538 | 0.00200 | " | 0.100 | ND | 53.8 | 70-130 | | | QM-07 |
| Naphthalene | 0.0725 | 0.00380 | " | 0.100 | ND | 72.5 | 70-130 | | | |
| Toluene | 0.0521 | 0.00200 | " | 0.100 | ND | 52.1 | 70-130 | | | QM-07 |
| o-Xylene | 0.0495 | 0.00200 | " | 0.100 | ND | 49.5 | 70-130 | | | QM-07 |
| m,p-Xylene | 0.104 | 0.00400 | " | 0.200 | ND | 52.0 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.11 | | " | 0.125 | | 89.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.7 | 70-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil) | | | | | | | | | | |
| Matrix Spike Dup (B4E3046-MSD1) | | | Source: Y405787-01 | | Prepared: 05/30/2024 Analyzed: 05/31/2024 | | | | | |
| 1,2,4-Trimethylbenzene | 0.0627 | 0.00200 | mg/kg | 0.100 | ND | 62.7 | 70-130 | 24.7 | 20 | QM-07 |
| 1,3,5-Trimethylbenzene | 0.0680 | 0.00200 | " | 0.100 | ND | 68.0 | 70-130 | 34.6 | 20 | QM-07 |
| Benzene | 0.0789 | 0.00200 | " | 0.100 | ND | 78.9 | 70-130 | 24.3 | 20 | QR-02 |
| Ethylbenzene | 0.0655 | 0.00200 | " | 0.100 | ND | 65.5 | 70-130 | 19.5 | 20 | QM-07 |
| Naphthalene | 0.0959 | 0.00380 | " | 0.100 | ND | 95.9 | 70-130 | 27.8 | 20 | QR-02 |
| Toluene | 0.0664 | 0.00200 | " | 0.100 | ND | 66.4 | 70-130 | 24.2 | 20 | QM-07 |
| o-Xylene | 0.0694 | 0.00200 | " | 0.100 | ND | 69.4 | 70-130 | 33.5 | 20 | QM-07 |
| m,p-Xylene | 0.135 | 0.00400 | " | 0.200 | ND | 67.5 | 70-130 | 25.9 | 20 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 92.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.14 | | " | 0.125 | | 112 | 70-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B4E2924 - EPA 3050B

Blank (B4E2924-BLK1)

Prepared: 05/29/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------|----|-------|-------|--|--|--|--|--|--|----|
| Arsenic | ND | 0.290 | mg/kg | | | | | | | Ua |
|---------|----|-------|-------|--|--|--|--|--|--|----|

LCS (B4E2924-BS1)

Prepared: 05/29/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------|------|-------|-------|------|--|-----|--------|--|--|--|
| Arsenic | 5.92 | 0.290 | mg/kg | 5.00 | | 118 | 80-120 | | | |
|---------|------|-------|-------|------|--|-----|--------|--|--|--|

Matrix Spike (B4E2924-MS1)

Source: Y405432-01

Prepared: 05/29/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------|------|-------|-------|------|------|-----|--------|--|--|--|
| Arsenic | 7.33 | 0.247 | mg/kg | 4.25 | 2.41 | 116 | 75-125 | | | |
|---------|------|-------|-------|------|------|-----|--------|--|--|--|

Matrix Spike Dup (B4E2924-MSD1)

Source: Y405432-01

Prepared: 05/29/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------|------|-------|-------|------|------|-----|--------|------|----|--|
| Arsenic | 7.54 | 0.278 | mg/kg | 4.79 | 2.41 | 107 | 75-125 | 2.83 | 20 | |
|---------|------|-------|-------|------|------|-----|--------|------|----|--|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4E3129 - EPA 3580

Blank (B4E3129-BLK1)

Prepared: 05/31/2024 Analyzed: 06/01/2024

| | | | | | | | | | | |
|--------------------------|----|-------|-------|--|--|--|--|--|--|----|
| 1-Methylnaphthalene | ND | 0.002 | mg/kg | | | | | | | Ua |
| 2-Methylnaphthalene | ND | 0.002 | " | | | | | | | Ua |
| Acenaphthene | ND | 0.020 | " | | | | | | | Ua |
| Anthracene | ND | 0.020 | " | | | | | | | Ua |
| Benzo (a) anthracene | ND | 0.005 | " | | | | | | | Ua |
| Benzo (a) pyrene | ND | 0.020 | " | | | | | | | Ua |
| Benzo (b) fluoranthene | ND | 0.020 | " | | | | | | | Ua |
| Benzo (g,h,i) perylene | ND | 0.020 | " | | | | | | | Ua |
| Benzo (k) fluoranthene | ND | 0.020 | " | | | | | | | Ua |
| Chrysene | ND | 0.020 | " | | | | | | | Ua |
| Dibenz (a,h) anthracene | ND | 0.020 | " | | | | | | | Ua |
| Fluoranthene | ND | 0.020 | " | | | | | | | Ua |
| Fluorene | ND | 0.020 | " | | | | | | | Ua |
| Indeno (1,2,3-cd) pyrene | ND | 0.020 | " | | | | | | | Ua |
| Naphthalene | ND | 0.002 | " | | | | | | | Ua |
| Phenanthrene | ND | 0.020 | " | | | | | | | Ua |
| Pyrene | ND | 0.020 | " | | | | | | | Ua |

| | | | | | | |
|---------------------------------|-----|--|-------|-----|------|--------|
| Surrogate: Fluorene-d10 | 200 | | ug/kg | 200 | 99.3 | 60-130 |
| Surrogate: Anthracene-d10 | 190 | | " | 200 | 94.5 | 60-130 |
| Surrogate: Pyrene-d10 | 220 | | " | 200 | 111 | 60-130 |
| Surrogate: Benzo (a) pyrene-d12 | 200 | | " | 200 | 100 | 60-130 |

LCS (B4E3129-BS1)

Prepared: 05/31/2024 Analyzed: 06/01/2024

| | | | | | | |
|---------------------|-------|-------|-------|-------|------|--------|
| 1-Methylnaphthalene | 0.187 | 0.002 | mg/kg | 0.200 | 93.3 | 70-130 |
| 2-Methylnaphthalene | 0.186 | 0.002 | " | 0.200 | 93.1 | 70-130 |
| Acenaphthene | 0.199 | 0.020 | " | 0.200 | 99.4 | 70-130 |
| Anthracene | 0.196 | 0.020 | " | 0.200 | 98.0 | 70-130 |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4E3129 - EPA 3580

LCS (B4E3129-BS1)

Prepared: 05/31/2024 Analyzed: 06/01/2024

| | | | | | | | |
|---------------------------------|-------|-------|-------|-------|--|------|--------|
| Benzo (a) anthracene | 0.191 | 0.005 | mg/kg | 0.200 | | 95.5 | 70-130 |
| Benzo (a) pyrene | 0.200 | 0.020 | " | 0.200 | | 100 | 70-130 |
| Benzo (b) fluoranthene | 0.200 | 0.020 | " | 0.200 | | 100 | 70-130 |
| Benzo (g,h,i) perylene | 0.194 | 0.020 | " | 0.200 | | 96.8 | 70-130 |
| Benzo (k) fluoranthene | 0.188 | 0.020 | " | 0.200 | | 94.2 | 70-130 |
| Chrysene | 0.197 | 0.020 | " | 0.200 | | 98.7 | 70-130 |
| Dibenz (a,h) anthracene | 0.190 | 0.020 | " | 0.200 | | 94.8 | 70-130 |
| Fluoranthene | 0.176 | 0.020 | " | 0.200 | | 87.9 | 70-130 |
| Fluorene | 0.201 | 0.020 | " | 0.200 | | 101 | 70-130 |
| Indeno (1,2,3-cd) pyrene | 0.193 | 0.020 | " | 0.200 | | 96.5 | 70-130 |
| Naphthalene | 0.197 | 0.002 | " | 0.200 | | 98.7 | 70-130 |
| Phenanthrene | 0.195 | 0.020 | " | 0.200 | | 97.3 | 70-130 |
| Pyrene | 0.206 | 0.020 | " | 0.200 | | 103 | 70-130 |
| Surrogate: Fluorene-d10 | 200 | | ug/kg | 200 | | 99.0 | 60-130 |
| Surrogate: Anthracene-d10 | 190 | | " | 200 | | 95.5 | 60-130 |
| Surrogate: Pyrene-d10 | 220 | | " | 200 | | 112 | 60-130 |
| Surrogate: Benzo (a) pyrene-d12 | 200 | | " | 200 | | 101 | 60-130 |

Matrix Spike (B4E3129-MS1)

Source: Y405796-01

Prepared: 05/31/2024 Analyzed: 06/01/2024

| | | | | | | | |
|------------------------|-------|-------|-------|-------|--------|------|--------|
| 1-Methylnaphthalene | 0.195 | 0.002 | mg/kg | 0.200 | ND | 97.7 | 70-130 |
| 2-Methylnaphthalene | 0.196 | 0.002 | " | 0.200 | ND | 97.9 | 70-130 |
| Acenaphthene | 0.209 | 0.020 | " | 0.200 | ND | 104 | 70-130 |
| Anthracene | 0.197 | 0.020 | " | 0.200 | 0.0007 | 98.2 | 70-130 |
| Benzo (a) anthracene | 0.199 | 0.005 | " | 0.200 | 0.0007 | 99.3 | 70-130 |
| Benzo (a) pyrene | 0.213 | 0.020 | " | 0.200 | 0.001 | 106 | 70-130 |
| Benzo (b) fluoranthene | 0.211 | 0.020 | " | 0.200 | 0.0006 | 105 | 70-130 |
| Benzo (g,h,i) perylene | 0.199 | 0.020 | " | 0.200 | 0.0004 | 99.4 | 70-130 |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4E3129 - EPA 3580

| Matrix Spike (B4E3129-MS1) | | Source: Y405796-01 | | | Prepared: 05/31/2024 Analyzed: 06/01/2024 | | | | | |
|---------------------------------|-------|--------------------|-------|-------|---|------|--------|--|--|--|
| Benzo (k) fluoranthene | 0.210 | 0.020 | mg/kg | 0.200 | 0.0005 | 105 | 70-130 | | | |
| Chrysene | 0.196 | 0.020 | " | 0.200 | 0.0009 | 97.5 | 70-130 | | | |
| Dibenz (a,h) anthracene | 0.208 | 0.020 | " | 0.200 | 0.0008 | 104 | 70-130 | | | |
| Fluoranthene | 0.174 | 0.020 | " | 0.200 | ND | 87.1 | 70-130 | | | |
| Fluorene | 0.208 | 0.020 | " | 0.200 | ND | 104 | 70-130 | | | |
| Indeno (1,2,3-cd) pyrene | 0.207 | 0.020 | " | 0.200 | ND | 103 | 70-130 | | | |
| Naphthalene | 0.207 | 0.002 | " | 0.200 | ND | 103 | 70-130 | | | |
| Phenanthrene | 0.204 | 0.020 | " | 0.200 | ND | 102 | 70-130 | | | |
| Pyrene | 0.224 | 0.020 | " | 0.200 | 0.0006 | 112 | 70-130 | | | |
| Surrogate: Fluorene-d10 | 200 | | ug/kg | 200 | | 98.4 | 60-130 | | | |
| Surrogate: Anthracene-d10 | 190 | | " | 200 | | 95.7 | 60-130 | | | |
| Surrogate: Pyrene-d10 | 230 | | " | 200 | | 116 | 60-130 | | | |
| Surrogate: Benzo (a) pyrene-d12 | 200 | | " | 200 | | 98.9 | 60-130 | | | |

| Matrix Spike Dup (B4E3129-MSD1) | | Source: Y405796-01 | | | Prepared: 05/31/2024 Analyzed: 06/01/2024 | | | | | |
|---------------------------------|-------|--------------------|-------|-------|---|------|--------|-------|----|--|
| 1-Methylnaphthalene | 0.194 | 0.002 | mg/kg | 0.200 | ND | 97.1 | 70-130 | 0.577 | 20 | |
| 2-Methylnaphthalene | 0.195 | 0.002 | " | 0.200 | ND | 97.5 | 70-130 | 0.401 | 20 | |
| Acenaphthene | 0.210 | 0.020 | " | 0.200 | ND | 105 | 70-130 | 0.421 | 20 | |
| Anthracene | 0.207 | 0.020 | " | 0.200 | 0.0007 | 103 | 70-130 | 4.88 | 20 | |
| Benzo (a) anthracene | 0.200 | 0.005 | " | 0.200 | 0.0007 | 99.8 | 70-130 | 0.489 | 20 | |
| Benzo (a) pyrene | 0.215 | 0.020 | " | 0.200 | 0.001 | 107 | 70-130 | 0.883 | 20 | |
| Benzo (b) fluoranthene | 0.211 | 0.020 | " | 0.200 | 0.0006 | 105 | 70-130 | 0.180 | 20 | |
| Benzo (g,h,i) perylene | 0.201 | 0.020 | " | 0.200 | 0.0004 | 100 | 70-130 | 0.829 | 20 | |
| Benzo (k) fluoranthene | 0.209 | 0.020 | " | 0.200 | 0.0005 | 104 | 70-130 | 0.461 | 20 | |
| Chrysene | 0.196 | 0.020 | " | 0.200 | 0.0009 | 97.8 | 70-130 | 0.314 | 20 | |
| Dibenz (a,h) anthracene | 0.210 | 0.020 | " | 0.200 | 0.0008 | 105 | 70-130 | 0.941 | 20 | |
| Fluoranthene | 0.175 | 0.020 | " | 0.200 | ND | 87.4 | 70-130 | 0.347 | 20 | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

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

Batch B4E3129 - EPA 3580

| Matrix Spike Dup (B4E3129-MSD1) | | Source: Y405796-01 | | | Prepared: 05/31/2024 Analyzed: 06/01/2024 | | | | | |
|---------------------------------|-------|--------------------|-------|-------|---|------|--------|-------|----|--|
| Fluorene | 0.211 | 0.020 | mg/kg | 0.200 | ND | 106 | 70-130 | 1.58 | 20 | |
| Indeno (1,2,3-cd) pyrene | 0.201 | 0.020 | " | 0.200 | ND | 100 | 70-130 | 2.78 | 20 | |
| Naphthalene | 0.208 | 0.002 | " | 0.200 | ND | 104 | 70-130 | 0.610 | 20 | |
| Phenanthrene | 0.203 | 0.020 | " | 0.200 | ND | 101 | 70-130 | 0.927 | 20 | |
| Pyrene | 0.227 | 0.020 | " | 0.200 | 0.0006 | 113 | 70-130 | 1.38 | 20 | |
| Surrogate: Fluorene-d10 | 200 | | ug/kg | 200 | | 99.1 | 60-130 | | | |
| Surrogate: Anthracene-d10 | 190 | | " | 200 | | 95.9 | 60-130 | | | |
| Surrogate: Pyrene-d10 | 240 | | " | 200 | | 118 | 60-130 | | | |
| Surrogate: Benzo (a) pyrene-d12 | 200 | | " | 200 | | 102 | 60-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

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

Batch B4E3013 - DTPA Sorbitol Preparation

Blank (B4E3013-BLK1)

Prepared: 05/30/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|-------|----|-------|------|--|--|--|--|--|--|----|
| Boron | ND | 0.100 | mg/L | | | | | | | Ua |
|-------|----|-------|------|--|--|--|--|--|--|----|

Duplicate (B4E3013-DUP1)

Source: Y405796-01

Prepared: 05/30/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|-------|-------|--------|------|--|-------|--|--|------|----|--|
| Boron | 0.405 | 0.0987 | mg/L | | 0.421 | | | 3.95 | 50 | |
|-------|-------|--------|------|--|-------|--|--|------|----|--|

Batch B4E3107 - Saturated Paste Metals

Blank (B4E3107-BLK1)

Prepared: 05/31/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------|----|--------|------|--|--|--|--|--|--|----|
| SAR | ND | 0.0100 | SAR | | | | | | | Ua |
| Calcium PPM | ND | 10.0 | mg/L | | | | | | | Ua |
| Magnesium PPM | ND | 10.0 | " | | | | | | | Ua |
| Sodium PPM | ND | 10.0 | " | | | | | | | Ua |

Duplicate (B4E3107-DUP1)

Source: Y405796-01

Prepared: 05/31/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------|------|--------|------|--|------|--|--|------|-----|----|
| Calcium PPM | 39.2 | 10.0 | mg/L | | 30.4 | | | 25.2 | 50 | |
| SAR | ND | 0.0100 | SAR | | 1.37 | | | | 200 | Ua |
| Magnesium PPM | 8.89 | 10.0 | mg/L | | 7.54 | | | 16.4 | 50 | Ua |
| Sodium PPM | 28.0 | 10.0 | " | | 32.5 | | | 14.7 | 50 | |

Batch B4E3108 - Saturated Paste Metals

Blank (B4E3108-BLK1)

Prepared: 05/31/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------|----|--------|------|--|--|--|--|--|--|----|
| Calcium PPM | ND | 10.0 | mg/L | | | | | | | Ua |
| SAR | ND | 0.0100 | SAR | | | | | | | Ua |
| Magnesium PPM | ND | 10.0 | mg/L | | | | | | | Ua |
| Sodium PPM | ND | 10.0 | " | | | | | | | Ua |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

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

Batch B4E3108 - Saturated Paste Metals

| Duplicate (B4E3108-DUP1) | | Source: Y405796-06 | | | Prepared: 05/31/2024 Analyzed: 06/03/2024 | | | | | |
|--------------------------|------|--------------------|------|------|---|--|--|------|----|--|
| SAR | ND | 0.0100 | SAR | 4.52 | | | | 200 | Ua | |
| Calcium PPM | 43.8 | 10.0 | mg/L | 46.5 | | | | 6.03 | 50 | |
| Magnesium PPM | 27.2 | 10.0 | " | 28.1 | | | | 2.96 | 50 | |
| Sodium PPM | 156 | 10.0 | " | 158 | | | | 1.41 | 50 | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Saturated Paste - Quality Control Origins Laboratory, Inc.

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

Batch B4E3117 - Saturated Paste pH/EC

Blank (B4E3117-BLK1)

Prepared: 05/31/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------------------------|----|---------|----------|--|--|--|--|--|--|----|
| Specific Conductance (EC) | ND | 0.00500 | mmhos/cm | | | | | | | Ua |
|---------------------------|----|---------|----------|--|--|--|--|--|--|----|

Duplicate (B4E3117-DUP1)

Source: Y405756-03

Prepared: 05/31/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------------------------|-------|---------|----------|------|--|--|------|----|--|--|
| pH | 8.33 | | pH Units | 8.18 | | | 1.82 | 25 | | |
| Specific Conductance (EC) | 0.279 | 0.00500 | mmhos/cm | 1.01 | | | 114 | 25 | | |

Batch B4E3118 - Saturated Paste pH/EC

Blank (B4E3118-BLK1)

Prepared: 05/31/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------------------------|----|---------|----------|--|--|--|--|--|--|----|
| Specific Conductance (EC) | ND | 0.00500 | mmhos/cm | | | | | | | Ua |
|---------------------------|----|---------|----------|--|--|--|--|--|--|----|

Duplicate (B4E3118-DUP1)

Source: Y405796-06

Prepared: 05/31/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|---------------------------|------|---------|----------|------|--|--|-------|----|--|--|
| pH | 8.44 | | pH Units | 8.45 | | | 0.118 | 25 | | |
| Specific Conductance (EC) | 1.22 | 0.00500 | mmhos/cm | 1.18 | | | 2.69 | 25 | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Total Metals 7196A - Quality Control GEL Laboratories, LLC

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------|--------|-----------------|-----------|-------------|--|------|-------------|-----|-----------|-------|
| Batch 2619640 - SW846 3060A | | | | | | | | | | |
| BLANK (1205748916-BLK) | | | | | Prepared: 06/01/2024 Analyzed: 06/03/2024 | | | | | |
| Hexavalent Chromium | ND | 0.274 | mg/kg | | | | - | | | U |
| LCS (1205748917-BKS) | | | | | Prepared: 06/01/2024 Analyzed: 06/03/2024 | | | | | |
| Hexavalent Chromium | 3.15 | 0.324 | mg/kg | 3.24 | | 97.3 | 80-120 | | | |
| DUP (1205748918 D) | | | | | Source: Y405796-01 Prepared: 06/01/2024 Analyzed: 06/03/2024 | | | | | |
| Hexavalent Chromium | ND | 0.402 | mg/kg dry | | <0.161 | | 0-50 | N/A | 50 | U |
| MS (1205748919 S) | | | | | Source: Y405796-01 Prepared: 06/01/2024 Analyzed: 06/03/2024 | | | | | |
| Hexavalent Chromium | 0.854 | 0.402 | mg/kg dry | 4.02 | <0.161 | 18.8 | 75-125 | | | |
| DUP (1205748920 D) | | | | | Source: 669597002 Prepared: 06/01/2024 Analyzed: 06/03/2024 | | | | | |
| Hexavalent Chromium | ND | 0.414 | mg/kg dry | | <0.166 | | 0-50 | N/A | 50 | U |
| MS (1205748921 S) | | | | | Source: 669597002 Prepared: 06/01/2024 Analyzed: 06/03/2024 | | | | | |
| Hexavalent Chromium | 1.34 | 0.414 | mg/kg dry | 4.14 | <0.166 | 32 | 75-125 | | | |
| ILCS (1205748922-ILCS) | | | | | Prepared: 06/01/2024 Analyzed: 06/03/2024 | | | | | |
| Hexavalent Chromium | 5.83 | 0.281 | mg/kg | 5.72 | | 102 | 80-120 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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.

Jen Pellegrini, Project Manager

June 17, 2024

Mull Drilling

Kendall Pelton

1700 N Waterfront Pkway Bldg #1200

Wichita

KS

67206

Project Name - Mauer SWD#1

Project Number - [none]

Attached are your analytical results for Mauer SWD#1 received by Origins Laboratory, Inc. May 29, 2024. This project is associated with Origins project number Y405798-01.

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



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|--------------------|------------------|
| EXSS 01 4' | Y405798-01 | Soil | May 29, 2024 10:10 | 05/29/2024 13:50 |
| EXSS 02 4' | Y405798-02 | Soil | May 29, 2024 10:15 | 05/29/2024 13:50 |
| EXSS 03 4' | Y405798-03 | Soil | May 29, 2024 10:20 | 05/29/2024 13:50 |
| EXSS 04 4' | Y405798-04 | Soil | May 29, 2024 10:25 | 05/29/2024 13:50 |
| EXSS 05 8' | Y405798-05 | Soil | May 29, 2024 10:30 | 05/29/2024 13:50 |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4405708

page of

Client: Mull Drilling
Address: 1700 N Waterfront Pkwy
Wichita KS 67206
Telephone Number: 316 264 5566
Email Address: pelton@mulldrilling.com

Project Manager: Kendall Pelton
Project Name: Mauer #1 SWD
Project Number:
Samples Collected By: Kendall Pelton

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | | Sample Instructions |
|---------------------------------|---------------|--------------|-----------------|--------------------------|---------------|------------------|-------|---|------|-------------|----------|-----|---------------------|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summ. # | Other | TPH | |
| ELS 01 4' | 5/24/24 | 10:16 | 2 | X | | | | X | | | | X | 1 |
| ELS 02 4' | 5/24/24 | 10:15 | 2 | X | | | | X | | | | X | 2 |
| ELS 03 4' | 5/24/24 | 10:20 | 2 | X | | | | X | | | | X | 3 |
| ELS 04 4' | 5/24/24 | 10:25 | 2 | X | | | | X | | | | X | 4 |
| ELS 05 8' | 5/24/24 | 10:30 | 2 | X | | | | X | | | | X | 5 |
| | | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | | 8 |
| | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | 10 |
| Relinquished By: Kendall Pelton | Date: 5/24/24 | Time: 11:50 | | Received By: [Signature] | Date: 5/24/24 | Time: [Blank] | | 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: | | | | | | | |

Temp Received: 13 Date Results Needed:

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Origins Laboratory

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

Origins Work Order: 44057908

Checklist Completed by: TJW/SA

Date/time completed: 5/29/12

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

Cooler Number/Temperature: L1B °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: TW05

Sample Receipt Checklist

Client: Mull Drilling

Client Project ID: Mauer #1

Shipped Via: TRD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

| 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"/> | | |
| 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 ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <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 ⁽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 checked="" 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 (Project Manager) JP Date/Time Reviewed 5/30/12

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EXSS 01 4'

5/29/2024 10:10:00AM

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

Origins Laboratory, Inc. Y405798-01 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | | 100 | " | " | " | " | " | Ua |

| | | | | | | | | | |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 90.9 % | | 50-150 | | | " | " | " | |
|------------------------|--------|--|--------|--|--|---|---|---|--|

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | | 0.200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|

| | | | | | | | | | |
|----------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 107 % | | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 93.2 % | | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 102 % | | 70-130 | | | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.160 | 0.400 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EXSS 02 4'

5/29/2024 10:15:00AM

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

Origins Laboratory, Inc. Y405798-02 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | | 100 | " | " | " | " | " | Ua |

| | | | | | | | | | |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 87.9 % | | 50-150 | | | " | " | " | |
|------------------------|--------|--|--------|--|--|---|---|---|--|

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | | 0.200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|

| | | | | | | | | | |
|----------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 85.8 % | | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 93.8 % | | 70-130 | | | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.165 | 0.413 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EXSS 03 4'

5/29/2024 10:20:00AM

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

Origins Laboratory, Inc. Y405798-03 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | | 100 | " | " | " | " | " | Ua |

| | | | | | | | | | |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 84.6 % | | 50-150 | | | " | " | " | |
|------------------------|--------|--|--------|--|--|---|---|---|--|

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | | 0.200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|

| | | | | | | | | | |
|----------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 95.4 % | | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 119 % | | 70-130 | | | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.163 | 0.408 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EXSS 04 4'

5/29/2024 10:25:00AM

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

Origins Laboratory, Inc. Y405798-04 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | | 100 | " | " | " | " | " | Ua |

| | | | | | | | | | |
|------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: o-Terphenyl | 83.4 % | | 50-150 | | | " | " | " | |
|------------------------|--------|--|--------|--|--|---|---|---|--|

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | | 0.200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|

| | | | | | | | | | |
|----------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 84.6 % | | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.4 % | | 70-130 | | | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.178 | 0.444 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

EXSS 05 8'

5/29/2024 10:30:00AM

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

Origins Laboratory, Inc. Y405798-05 (Soil)

DRO/ORO by EPA 8015D

| | | | | | | | | | |
|-----------------------------------|----|--|------|-------|---|---------|------------|------------|----|
| Diesel (C10-C28) | ND | | 25.0 | mg/kg | 1 | B4E3001 | 05/30/2024 | 06/05/2024 | Ua |
| Residual Range Organics (C28-C40) | ND | | 100 | " | " | " | " | " | Ua |

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

GBTEX+TMBs by 8260D

| | | | | | | | | | |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|
| Gasoline Range Hydrocarbons | ND | | 0.200 | mg/kg | 1 | B4E3046 | 05/30/2024 | 05/31/2024 | Ua |
|-----------------------------|----|--|-------|-------|---|---------|------------|------------|----|

| | | | | | | | | | |
|----------------------------------|--------|--|--------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 111 % | | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 83.9 % | | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.4 % | | 70-130 | | | " | " | " | |

Total Metals 7196A

| | | | | | | | | | |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|
| Hexavalent Chromium | ND | 0.178 | 0.445 | mg/kg dry | 1 | 2619640 | 06/01/2024 | 06/03/2024 | U |
|---------------------|----|-------|-------|-----------|---|---------|------------|------------|---|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

Blank (B4E3001-BLK1)

Prepared: 05/30/2024 Analyzed: 06/04/2024

| | | | | | | | | | | |
|-----------------------------------|----|------|-------|------|--|------|--------|--|--|----|
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | Ua |
| Residual Range Organics (C28-C40) | ND | 100 | " | | | | | | | Ua |
| Surrogate: o-Terphenyl | 21 | | " | 24.9 | | 85.0 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

LCS (B4E3001-BS1)

Prepared: 05/30/2024 Analyzed: 06/04/2024

| | | | | | | | | | | |
|-----------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 985 | 50.0 | mg/kg | 1000 | | 98.5 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 1040 | 200 | " | 1000 | | 104 | 70-130 | | | |
| Surrogate: o-Terphenyl | 55 | | " | 49.8 | | 111 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

| Matrix Spike (B4E3001-MS1) | | Source: Y405785-01 | | | Prepared: 05/30/2024 Analyzed: 06/04/2024 | | | | | |
|-----------------------------------|------|--------------------|-------|------|---|------|--------|--|--|--|
| Diesel (C10-C28) | 951 | 50.0 | mg/kg | 1000 | ND | 95.1 | 70-130 | | | |
| Residual Range Organics (C28-C40) | 1010 | 200 | " | 1000 | ND | 101 | 70-130 | | | |
| Surrogate: o-Terphenyl | 50 | | " | 49.8 | | 101 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3001 - EPA 3550B

| Matrix Spike Dup (B4E3001-MSD1) | | Source: Y405785-01 | | | Prepared: 05/30/2024 Analyzed: 06/04/2024 | | | | | |
|-----------------------------------|-----|--------------------|-------|------|---|------|--------|------|----|--|
| Diesel (C10-C28) | 932 | 50.0 | mg/kg | 1000 | ND | 93.2 | 70-130 | 2.02 | 35 | |
| Residual Range Organics (C28-C40) | 996 | 200 | " | 1000 | ND | 99.6 | 70-130 | 1.36 | 35 | |
| Surrogate: o-Terphenyl | 47 | | " | 49.8 | | 93.6 | 50-150 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B4E3046-BLK1) | | | | | Prepared: 05/30/2024 Analyzed: 05/31/2024 | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.00200 | mg/kg | | | | | | | Ua |
| 1,3,5-Trimethylbenzene | ND | 0.00200 | " | | | | | | | Ua |
| Benzene | ND | 0.00200 | " | | | | | | | Ua |
| Ethylbenzene | ND | 0.00200 | " | | | | | | | Ua |
| Naphthalene | ND | 0.00380 | " | | | | | | | Ua |
| Toluene | ND | 0.00200 | " | | | | | | | Ua |
| Xylenes, total | ND | 0.00200 | " | | | | | | | Ua |
| Gasoline Range Hydrocarbons | ND | 0.200 | " | | | | | | | Ua |
| Surrogate: 1,2-Dichloroethane-d4 | 0.10 | | " | 0.125 | | 80.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.10 | | " | 0.125 | | 84.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 94.7 | 70-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil)

LCS (B4E3046-BS1)

Prepared: 05/30/2024 Analyzed: 05/31/2024

| | | | | | | | | | | |
|----------------------------------|--------|---------|-------|-------|--|------|--------|--|--|--|
| 1,2,4-Trimethylbenzene | 0.0944 | 0.00200 | mg/kg | 0.100 | | 94.4 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0977 | 0.00200 | " | 0.100 | | 97.7 | 70-130 | | | |
| Benzene | 0.113 | 0.00200 | " | 0.100 | | 113 | 70-130 | | | |
| Ethylbenzene | 0.0940 | 0.00200 | " | 0.100 | | 94.0 | 70-130 | | | |
| Naphthalene | 0.0984 | 0.00380 | " | 0.100 | | 98.4 | 70-130 | | | |
| Toluene | 0.0908 | 0.00200 | " | 0.100 | | 90.8 | 70-130 | | | |
| o-Xylene | 0.0919 | 0.00200 | " | 0.100 | | 91.9 | 70-130 | | | |
| m,p-Xylene | 0.183 | 0.00400 | " | 0.200 | | 91.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.11 | | " | 0.125 | | 88.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 98.3 | 70-130 | | | |

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.

Jen Pellegrini, Project Manager

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil)

| Matrix Spike (B4E3046-MS1) | | Source: Y405787-01 | | | Prepared: 05/30/2024 Analyzed: 05/31/2024 | | | | | |
|----------------------------------|--------|--------------------|-------|-------|---|------|--------|--|--|-------|
| 1,2,4-Trimethylbenzene | 0.0489 | 0.00200 | mg/kg | 0.100 | ND | 48.9 | 70-130 | | | QM-07 |
| 1,3,5-Trimethylbenzene | 0.0480 | 0.00200 | " | 0.100 | ND | 48.0 | 70-130 | | | QM-07 |
| Benzene | 0.0618 | 0.00200 | " | 0.100 | ND | 61.8 | 70-130 | | | QM-07 |
| Ethylbenzene | 0.0538 | 0.00200 | " | 0.100 | ND | 53.8 | 70-130 | | | QM-07 |
| Naphthalene | 0.0725 | 0.00380 | " | 0.100 | ND | 72.5 | 70-130 | | | |
| Toluene | 0.0521 | 0.00200 | " | 0.100 | ND | 52.1 | 70-130 | | | QM-07 |
| o-Xylene | 0.0495 | 0.00200 | " | 0.100 | ND | 49.5 | 70-130 | | | QM-07 |
| m,p-Xylene | 0.104 | 0.00400 | " | 0.200 | ND | 52.0 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.11 | | " | 0.125 | | 89.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.7 | 70-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

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 B4E3046 - EPA 5030 (soil)

| Matrix Spike Dup (B4E3046-MSD1) | | Source: Y405787-01 | | | Prepared: 05/30/2024 Analyzed: 05/31/2024 | | | | | |
|----------------------------------|--------|--------------------|-------|-------|---|------|--------|------|----|-------|
| 1,2,4-Trimethylbenzene | 0.0627 | 0.00200 | mg/kg | 0.100 | ND | 62.7 | 70-130 | 24.7 | 20 | QM-07 |
| 1,3,5-Trimethylbenzene | 0.0680 | 0.00200 | " | 0.100 | ND | 68.0 | 70-130 | 34.6 | 20 | QM-07 |
| Benzene | 0.0789 | 0.00200 | " | 0.100 | ND | 78.9 | 70-130 | 24.3 | 20 | QR-02 |
| Ethylbenzene | 0.0655 | 0.00200 | " | 0.100 | ND | 65.5 | 70-130 | 19.5 | 20 | QM-07 |
| Naphthalene | 0.0959 | 0.00380 | " | 0.100 | ND | 95.9 | 70-130 | 27.8 | 20 | QR-02 |
| Toluene | 0.0664 | 0.00200 | " | 0.100 | ND | 66.4 | 70-130 | 24.2 | 20 | QM-07 |
| o-Xylene | 0.0694 | 0.00200 | " | 0.100 | ND | 69.4 | 70-130 | 33.5 | 20 | QM-07 |
| m,p-Xylene | 0.135 | 0.00400 | " | 0.200 | ND | 67.5 | 70-130 | 25.9 | 20 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 92.6 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.14 | | " | 0.125 | | 112 | 70-130 | | | |

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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 |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

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

Batch 2619640 - SW846 3060A

BLANK (1205748916-BLK)

Prepared: 06/01/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------------|----|-------|-------|--|--|--|---|--|--|---|
| Hexavalent Chromium | ND | 0.274 | mg/kg | | | | - | | | U |
|---------------------|----|-------|-------|--|--|--|---|--|--|---|

LCS (1205748917-BKS)

Prepared: 06/01/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------------|------|-------|-------|------|--|------|--------|--|--|--|
| Hexavalent Chromium | 3.15 | 0.324 | mg/kg | 3.24 | | 97.3 | 80-120 | | | |
|---------------------|------|-------|-------|------|--|------|--------|--|--|--|

DUP (1205748918 D)

Source: 669595001

Prepared: 06/01/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------------|----|-------|-----------|--|--------|--|------|-----|----|---|
| Hexavalent Chromium | ND | 0.402 | mg/kg dry | | <0.161 | | 0-50 | N/A | 50 | U |
|---------------------|----|-------|-----------|--|--------|--|------|-----|----|---|

MS (1205748919 S)

Source: 669595001

Prepared: 06/01/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------------|-------|-------|-----------|------|--------|------|--------|--|--|--|
| Hexavalent Chromium | 0.854 | 0.402 | mg/kg dry | 4.02 | <0.161 | 18.8 | 75-125 | | | |
|---------------------|-------|-------|-----------|------|--------|------|--------|--|--|--|

DUP (1205748920 D)

Source: Y405798-02

Prepared: 06/01/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------------|----|-------|-----------|--|--------|--|------|-----|----|---|
| Hexavalent Chromium | ND | 0.414 | mg/kg dry | | <0.166 | | 0-50 | N/A | 50 | U |
|---------------------|----|-------|-----------|--|--------|--|------|-----|----|---|

MS (1205748921 S)

Source: Y405798-02

Prepared: 06/01/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------------|------|-------|-----------|------|--------|----|--------|--|--|--|
| Hexavalent Chromium | 1.34 | 0.414 | mg/kg dry | 4.14 | <0.166 | 32 | 75-125 | | | |
|---------------------|------|-------|-----------|------|--------|----|--------|--|--|--|

ILCS (1205748922-ILCS)

Prepared: 06/01/2024 Analyzed: 06/03/2024

| | | | | | | | | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|
| Hexavalent Chromium | 5.83 | 0.281 | mg/kg | 5.72 | | 102 | 80-120 | | | |
|---------------------|------|-------|-------|------|--|-----|--------|--|--|--|

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported 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.

Jen Pellegrini, Project Manager



Mull Drilling

November 12, 2024

Kendall Pelton

1700 N Waterfront Pkway Bldg #1200

Wichita

KS

67206

Project Name - Mauer SWD#1

Project Number - [none]

Attached are your analytical results for Mauer SWD#1 received by Origins Laboratory October 24, 2024. This project is associated with Origins project number E410807-01.

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
303.433.1322
projectmanager@originslab.com



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

Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|------------------------|------------------|
| SP 15 4' | E410807-01 | Soil | October 23, 2024 9:45 | 10/24/2024 10:45 |
| SP 15 5' | E410807-02 | Soil | October 23, 2024 9:50 | 10/24/2024 10:45 |
| SP 15 6' | E410807-03 | Soil | October 23, 2024 9:55 | 10/24/2024 10:45 |
| SP 16 4' | E410807-04 | Soil | October 23, 2024 9:25 | 10/24/2024 10:45 |
| SP 16 5' | E410807-05 | Soil | October 23, 2024 9:30 | 10/24/2024 10:45 |
| SP 16 6' | E410807-06 | Soil | October 23, 2024 9:45 | 10/24/2024 10:45 |
| SP 17 4' | E410807-07 | Soil | October 23, 2024 8:55 | 10/24/2024 10:45 |
| SP 17 5' | E410807-08 | Soil | October 23, 2024 9:00 | 10/24/2024 10:45 |
| SP 17 6' | E410807-09 | Soil | October 23, 2024 9:05 | 10/24/2024 10:45 |
| BG 6 3' | E410807-10 | Soil | October 23, 2024 11:00 | 10/24/2024 10:45 |
| BG 6 4' | E410807-11 | Soil | October 23, 2024 11:05 | 10/24/2024 10:45 |
| BG 6 6' | E410807-12 | Soil | October 23, 2024 11:10 | 10/24/2024 10:45 |
| BG 6 10' | E410807-13 | Soil | October 23, 2024 11:20 | 10/24/2024 10:45 |

Origins Laboratory



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.

Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

ORIGINS
LABORATORY

ORIGINS WORK ORDER #

6410807

Page 1 of 2

Client: Mull Drilling

Project Manager: Kendall Pelton

Key:

Address: 1700 N Waterfront Pkwy

Project Name: Mauer #1 SWD

W=Water

Wichita, KS 67206

Project Number:

GW=Groundwater

Telephone Number: 316-441-6342

Collected By: Kendall Pelton

SW=Surface Water

Email Address: KPelton@MullDrilling.com

Invoice/Billing Info:

WW=Waste Water

S=Soil | SP=Solid | O=Oil | A=Air | G=Gas | UNP=Unknown | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

L=Liquid

| # | Sample ID | Date Sampled | Time Sampled | # of Containers | Matrix | Preservative | Analysis | | | | | | | | | | Comments |
|----|-----------|--------------|--------------|-----------------|--------|--------------|----------|---------|--------|------|---------|-----------|--------|--------|---------|------|----------|
| | | | | | | | Boron | Cadmium | Copper | Lead | Mercury | Manganese | Nickel | Silver | Sulfate | Zinc | |
| 1 | SP 15 4' | 10/13/14 | 9:45 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 2 | SP 15 5' | 10/13/14 | 9:50 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 3 | SP 15 6' | 10/13/14 | 9:55 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 4 | SP 16 4' | 10/13/14 | 9:25 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 5 | SP 16 5' | 10/13/14 | 9:30 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 6 | SP 16 6' | 10/13/14 | 9:45 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 7 | SP 17 4' | 10/13/14 | 8:55 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 8 | SP 17 5' | 10/13/14 | 9:00 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 9 | SP 17 6' | 10/13/14 | 9:05 | 2 | S | UNP | X | X | X | X | X | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Relinquished By: Kendall Pelton

Received By: JP

Date: 10/24/14

Time: 10:15

Turnaround Time

Temp Received: 0.7

Received On Ice? ☒ Yes ☐ No

Standard ☒ 48 Hr ☐ 72

For Lab Sample Receiving Only

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com

Origins Laboratory

J. Byrnes

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.

Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

ORIGINS
LABORATORY

ORIGINS WORK ORDER #

6410807

Page 2 of 2

Client: Mull Drilling Project Manager: Kendall Pelton Key: _____
Address: 1700 N Waterfront Pkwy Project Name: Mauer #1 SWD W=Water
Wichita, KS 67206 Project Number: _____ GW=Groundwater
Telephone Number: _____ Collected By: Kendall Pelton SW=Surface Water
Email Address: _____ Invoice/Billing Info: _____ MW=Miscellaneous Water
L=Liquid

S=Soil | SC=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

| # | Sample ID | Date Sampled | Time Sampled | # of Containers | Matrix | Preservative | Analysis | | | | | | | | | | Comments |
|----|-----------|--------------|--------------|-----------------|--------|--------------|----------|---|---|---|---|---|---|---|---|---|----------|
| | | | | | | | U | S | A | R | P | H | B | A | C | A | |
| 1 | B9 6 3' | 10/27/14 | 11:00 | 2 | S | unp | x | x | x | x | x | x | x | x | x | x | |
| 2 | B9 6 4' | 10/27/14 | 11:05 | 2 | S | unp | x | x | x | x | x | x | x | x | x | x | |
| 3 | B9 6 1' | 10/27/14 | 11:10 | 2 | S | unp | x | x | x | x | x | x | x | x | x | x | |
| 4 | B9 6 10' | 10/27/14 | 11:20 | 2 | S | unp | x | x | x | x | x | x | x | x | x | x | |
| 5 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

Relinquished By: Kendall Pelton Date: 10/27/14 Time: 10:40 Received By: LS Date: 10/27/14 Time: 10:40
Temp Received: 0.7 Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only:

Standard

Turnaround Time
☐ SAME DAY
☐ 48 Hr ☐ 72 Hr

Origins Laboratory

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.

Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

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

Sample Receipt Checklist

Origins Work Order: E410807 Client: Mull
Client Project ID: Mayer

Checklist Completed by: JHD/WS Shipped Via: NO
Date/time completed: 10/24/24 (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 °C / _____ °C / _____ °C (Describe) _____ °C
Thermometer ID: 0.7

| Requirement Description | Yes | No | N/A | Comments (if any) |
|--|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | / | | | |
| Is there ice present (document if blue ice is used)? | / | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | / | / | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | / | / | | |
| Were all samples received intact ⁽¹⁾ ? | / | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | / | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | / | / | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | / | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | / | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | / | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | / | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | / | | / | |
| 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) | / | | / | |
| Additional Comments (if any): <u>Client used both plastic jars and small mason jars</u> | | | | |

⁽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 (Project Manager) AS Date/Time Reviewed 10/28/24

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 15 4'

10/23/2024 9:45:00AM

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

Origins Laboratory
E410807-01 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|
| Boron | 1.61 | 0.102 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 16.9 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 19.8 | 0.823 | " | " | " | " | " |
| Sodium | 66.0 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.98 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 15.4 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 10.6 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 6.11 | 0.257 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita

KS

67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 15 5'

10/23/2024 9:50:00AM

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

Origins Laboratory
E410807-02 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|
| Boron | 1.72 | 0.101 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 28.0 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 38.2 | 0.823 | " | " | " | " | " |
| Sodium | 96.8 | 4.35 | " | 100 | " | " | 10/30/2024 |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.91 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 16.8 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 13.2 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 7.13 | 0.262 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 15 6'

10/23/2024 9:55:00AM

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

Origins Laboratory
E410807-03 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 1.63 | 0.0986 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 22.8 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 35.7 | 0.823 | " | " | " | " | " |
| Sodium | 82.4 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.95 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 15.2 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 12.3 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 6.75 | 0.285 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 16 4'

10/23/2024 9:25:00AM

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

Origins Laboratory
E410807-04 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|
| Boron | 1.53 | 0.101 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 57.4 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 26.5 | 0.823 | " | " | " | " | " |
| Sodium | 145 | 4.35 | " | 100 | " | " | 10/30/2024 |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.71 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 22.4 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 19.4 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 6.41 | 0.262 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 16 5'

10/23/2024 9:30:00AM

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

Origins Laboratory
E410807-05 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 1.10 | 0.0982 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 43.3 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 25.0 | 0.823 | " | " | " | " | " |
| Sodium | 94.7 | 4.35 | " | 100 | " | " | 10/30/2024 |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.74 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 16.2 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 14.6 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 6.80 | 0.268 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 16 6'

10/23/2024 9:45:00AM

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

Origins Laboratory
E410807-06 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 1.48 | 0.0995 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 35.3 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 28.1 | 0.823 | " | " | " | " | " |
| Sodium | 96.6 | 4.35 | " | 100 | " | " | 10/30/2024 |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.80 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 17.2 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 15.0 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 9.09 | 0.275 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 17 4'

10/23/2024 8:55:00AM

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

Origins Laboratory
E410807-07 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 2.25 | 0.0997 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 29.8 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 13.2 | 0.823 | " | " | " | " | " |
| Sodium | 156 | 4.35 | " | 100 | " | " | 10/30/2024 |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.77 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 33.5 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 19.0 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 6.68 | 0.247 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 17 5'

10/23/2024 9:00:00AM

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

Origins Laboratory
E410807-08 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|
| Boron | 1.42 | 0.101 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 20.2 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 9.22 | 0.823 | " | " | " | " | " |
| Sodium | 112 | 4.35 | " | 100 | " | " | 10/30/2024 |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.83 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 29.2 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 14.3 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 6.44 | 0.268 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

SP 17 6'

10/23/2024 9:05:00AM

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

Origins Laboratory
E410807-09 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|
| Boron | 1.51 | 0.101 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|-----|--------|------------|------------|
| Calcium | 17.0 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 9.21 | 0.823 | " | " | " | " | " |
| Sodium | 110 | 4.35 | " | 100 | " | " | 10/30/2024 |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.94 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 30.4 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 12.8 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 7.14 | 0.279 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

BG 6 3'

10/23/2024 11:00:00AM

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

Origins Laboratory
E410807-10 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.775 | 0.100 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.653 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 3.22 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.54 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 4.11 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.530 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 7.80 | 0.256 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

BG 6 4'

10/23/2024 11:05:00AM

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

Origins Laboratory
E410807-11 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|-------|-------|------|---|---------|------------|------------|
| Boron | 0.545 | 0.101 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|-------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|-------|-------|-------|----|--------|------------|------------|
| Calcium | 0.885 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | ND | 0.823 | " | " | " | " | " |
| Sodium | 2.02 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.44 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 2.33 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|-------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 0.404 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|-------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 8.49 | 0.279 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

BG 6 6'

10/23/2024 11:10:00AM

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

Origins Laboratory
E410807-12 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|-------|------|---|---------|------------|------------|
| Boron | 1.51 | 0.100 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|-------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 1.18 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 1.14 | 0.823 | " | " | " | " | " |
| Sodium | 9.46 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 8.44 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 8.79 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 1.38 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 10.5 | 0.270 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkwy Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

BG 6 10'

10/23/2024 11:20:00AM

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

Origins Laboratory
E410807-13 (Soil)

Boron (DTPA Sorbitol)

| | | | | | | | |
|-------|------|--------|------|---|---------|------------|------------|
| Boron | 1.66 | 0.0981 | mg/L | 1 | B4J2808 | 10/28/2024 | 10/29/2024 |
|-------|------|--------|------|---|---------|------------|------------|

Metals by Saturated Paste by EPA 6010

| | | | | | | | |
|-----------|------|-------|-------|----|--------|------------|------------|
| Calcium | 19.7 | 0.499 | meq/L | 10 | [CALC] | 10/28/2024 | 10/29/2024 |
| Magnesium | 14.4 | 0.823 | " | " | " | " | " |
| Sodium | 24.6 | 0.435 | " | " | " | " | " |

pH in Soil by 9045D

| | | | | | | | |
|----|------|--|----------|---|---------|------------|------------|
| pH | 7.98 | | pH Units | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|----|------|--|----------|---|---------|------------|------------|

SAR by 20B Saturated Paste

| | | | | | | | |
|-----|------|--------|-----|---|---------|------------|------------|
| SAR | 5.97 | 0.0100 | SAR | 1 | B4J2816 | 10/28/2024 | 10/29/2024 |
|-----|------|--------|-----|---|---------|------------|------------|

Specific Conductance Mod. 9050A

| | | | | | | | |
|---------------------------|------|---------|----------|---|---------|------------|------------|
| Specific Conductance (EC) | 5.14 | 0.00500 | mmhos/cm | 1 | B4J2823 | 10/28/2024 | 10/29/2024 |
|---------------------------|------|---------|----------|---|---------|------------|------------|

Table 915 metals by EPA 6020B

| | | | | | | | |
|---------|------|-------|-------|----|---------|------------|------------|
| Arsenic | 9.41 | 0.248 | mg/kg | 10 | B4J2535 | 10/25/2024 | 10/28/2024 |
|---------|------|-------|-------|----|---------|------------|------------|

Origins Laboratory

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.



Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|--|------|-------------|------|-----------|-------|
| Batch B4J2535 - EPA 3050B | | | | | | | | | | |
| Blank (B4J2535-BLK1) | | | | | Prepared: 10/25/2024 Analyzed: 10/28/2024 | | | | | |
| Arsenic | ND | 0.290 | mg/kg | | | | | | | |
| LCS (B4J2535-BS1) | | | | | Prepared: 10/25/2024 Analyzed: 10/28/2024 | | | | | |
| Arsenic | 5.93 | 0.290 | mg/kg | 5.00 | | 119 | 80-120 | | | |
| Matrix Spike (B4J2535-MS1) | | | | | Source: E410807-03 Prepared: 10/25/2024 Analyzed: 10/28/2024 | | | | | |
| Arsenic | 11.1 | 0.247 | mg/kg | 4.25 | 6.75 | 102 | 75-125 | | | |
| Matrix Spike Dup (B4J2535-MSD1) | | | | | Source: E410807-03 Prepared: 10/25/2024 Analyzed: 10/28/2024 | | | | | |
| Arsenic | 12.3 | 0.257 | mg/kg | 4.43 | 6.75 | 125 | 75-125 | 10.4 | 20 | |

Origins Laboratory

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.



Mull Drilling
1700 N Waterfront Pkwy Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Classical Chemistry Parameters - Quality Control
Origins Laboratory

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

Batch B4J2808 - DTPA Sorbitol Preparation

Blank (B4J2808-BLK1)

Prepared: 10/28/2024 Analyzed: 10/29/2024

Boron ND 0.100 mg/L

Duplicate (B4J2808-DUP1)

Source: E410756-20

Prepared: 10/28/2024 Analyzed: 10/29/2024

Boron 0.215 0.0990 mg/L 0.190 12.2 50

Batch B4J2816 - Saturated Paste Metals

Blank (B4J2816-BLK1)

Prepared: 10/28/2024 Analyzed: 10/29/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4J2816-DUP1)

Source: E410802-01

Prepared: 10/28/2024 Analyzed: 10/29/2024

SAR ND 0.0100 SAR 6.23 200

Calcium PPM 406 10.0 mg/L 289 33.7 50

Magnesium PPM 100 10.0 " 114 12.6 50

Sodium PPM 482 10.0 " 494 2.50 50

Origins Laboratory

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.



Mull Drilling
1700 N Waterfront Pkway Bldg #1200
Wichita KS 67206

Kendall Pelton
Project Number: [none]
Project: Mauer SWD#1

Saturated Paste - Quality Control
Origins Laboratory

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

Batch B4J2823 - Saturated Paste pH/EC

Blank (B4J2823-BLK1)

Prepared: 10/28/2024 Analyzed: 10/29/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4J2823-DUP1)

Source: E410802-01

Prepared: 10/28/2024 Analyzed: 10/29/2024

| | | | | | | |
|---------------------------|------|---------|----------|------|-------|----|
| Specific Conductance (EC) | 4.60 | 0.00500 | mmhos/cm | 4.32 | 6.11 | 25 |
| pH | 8.19 | | pH Units | 8.23 | 0.487 | 25 |

Origins Laboratory

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.



Mull Drilling

1700 N Waterfront Pkway Bldg #1200

Wichita KS 67206

Kendall Pelton

Project Number: [none]

Project: Mauer SWD#1

Notes and Definitions

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

A handwritten signature in black ink, appearing to read "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.