

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q2413

**Order ID:** Q2413

**Client:** CDM Smith

**Project ID:** South River WM Replacement

| Sample ID                | Client ID | Matrix | Parameter | Concentration | C | MDL    | RDL   | Units |
|--------------------------|-----------|--------|-----------|---------------|---|--------|-------|-------|
| <b>Client ID : TP-35</b> |           |        |           |               |   |        |       |       |
| Q2413-01                 | TP-35     | SOIL   | Aluminum  | 7550          |   | 0.80   | 4.73  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Antimony  | 1.16          | J | 0.21   | 2.37  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Arsenic   | 6.94          |   | 0.18   | 0.95  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Barium    | 18.5          |   | 0.69   | 4.73  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Beryllium | 0.79          |   | 0.024  | 0.28  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Calcium   | 239           |   | 10.5   | 94.6  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Chromium  | 12.3          |   | 0.044  | 0.47  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Cobalt    | 4.49          |   | 0.095  | 1.42  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Copper    | 4.24          |   | 0.21   | 0.95  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Iron      | 22300         |   | 3.78   | 4.73  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Lead      | 10.6          |   | 0.12   | 0.57  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Magnesium | 503           |   | 11.4   | 94.6  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Manganese | 50.0          |   | 0.13   | 0.95  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Mercury   | 0.023         |   | 0.0080 | 0.014 | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Nickel    | 7.64          |   | 0.12   | 1.89  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Potassium | 445           |   | 26.2   | 94.6  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Selenium  | 7.10          |   | 0.25   | 0.95  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Silver    | 0.38          | J | 0.11   | 0.47  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Sodium    | 138           |   | 16.8   | 94.6  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Vanadium  | 24.8          |   | 0.24   | 1.89  | mg/Kg |
| Q2413-01                 | TP-35     | SOIL   | Zinc      | 21.3          |   | 0.10   | 1.89  | mg/Kg |
| <b>Client ID : TP-34</b> |           |        |           |               |   |        |       |       |
| Q2413-02                 | TP-34     | SOIL   | Aluminum  | 3590          |   | 0.82   | 4.90  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Antimony  | 0.74          | J | 0.22   | 2.45  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Arsenic   | 3.33          |   | 0.19   | 0.98  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Barium    | 6.11          |   | 0.72   | 4.90  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Beryllium | 0.42          |   | 0.024  | 0.29  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Calcium   | 119           |   | 10.9   | 97.9  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Chromium  | 12.1          |   | 0.046  | 0.49  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Cobalt    | 1.52          |   | 0.098  | 1.47  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Copper    | 5.05          |   | 0.22   | 0.98  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Iron      | 11500         |   | 3.91   | 4.90  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Lead      | 9.44          |   | 0.13   | 0.59  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Magnesium | 170           |   | 11.8   | 97.9  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Manganese | 16.1          |   | 0.14   | 0.98  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Mercury   | 0.024         |   | 0.0080 | 0.014 | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Nickel    | 3.07          |   | 0.13   | 1.96  | mg/Kg |

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**Client:** CDM Smith

**Project ID:** South River WM Replacement

| Sample ID                | Client ID | Matrix | Parameter | Concentration | C | MDL    | RDL   | Units |
|--------------------------|-----------|--------|-----------|---------------|---|--------|-------|-------|
| Q2413-02                 | TP-34     | SOIL   | Potassium | 155           |   | 27.1   | 97.9  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Selenium  | 3.84          |   | 0.26   | 0.98  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Silver    | 0.24          | J | 0.12   | 0.49  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Sodium    | 84.3          | J | 17.4   | 97.9  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Vanadium  | 19.4          |   | 0.25   | 1.96  | mg/Kg |
| Q2413-02                 | TP-34     | SOIL   | Zinc      | 14.6          |   | 0.11   | 1.96  | mg/Kg |
| <b>Client ID : TP-77</b> |           |        |           |               |   |        |       |       |
| Q2413-03                 | TP-77     | SOIL   | Aluminum  | 8720          |   | 0.83   | 4.95  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Antimony  | 1.49          | J | 0.22   | 2.48  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Arsenic   | 11.0          |   | 0.19   | 0.99  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Barium    | 18.0          |   | 0.72   | 4.95  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Beryllium | 1.03          |   | 0.025  | 0.30  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Calcium   | 92.1          | J | 11.0   | 99.0  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Chromium  | 13.1          |   | 0.047  | 0.50  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Cobalt    | 2.30          |   | 0.099  | 1.49  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Copper    | 0.68          | J | 0.22   | 0.99  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Iron      | 30600         |   | 3.95   | 4.95  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Lead      | 8.28          |   | 0.13   | 0.59  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Magnesium | 387           |   | 11.9   | 99.0  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Manganese | 26.4          |   | 0.14   | 0.99  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Mercury   | 0.016         |   | 0.0080 | 0.014 | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Nickel    | 7.00          |   | 0.13   | 1.98  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Potassium | 889           |   | 27.4   | 99.0  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Selenium  | 9.86          |   | 0.26   | 0.99  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Silver    | 0.34          | J | 0.12   | 0.50  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Sodium    | 267           |   | 17.6   | 99.0  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Vanadium  | 26.8          |   | 0.25   | 1.98  | mg/Kg |
| Q2413-03                 | TP-77     | SOIL   | Zinc      | 20.9          |   | 0.11   | 1.98  | mg/Kg |
| <b>Client ID : TP-74</b> |           |        |           |               |   |        |       |       |
| Q2413-04                 | TP-74     | SOIL   | Aluminum  | 7510          |   | 0.89   | 5.32  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Antimony  | 1.16          | J | 0.23   | 2.66  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Arsenic   | 9.31          |   | 0.20   | 1.06  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Barium    | 35.5          |   | 0.78   | 5.32  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Beryllium | 0.82          |   | 0.027  | 0.32  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Calcium   | 158           |   | 11.8   | 106   | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Chromium  | 9.18          |   | 0.050  | 0.53  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Cobalt    | 6.13          |   | 0.11   | 1.60  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Copper    | 1.04          | J | 0.23   | 1.06  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Iron      | 24600         |   | 4.25   | 5.32  | mg/Kg |

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| Sample ID                | Client ID | Matrix | Parameter | Concentration | C | MDL    | RDL   | Units |
|--------------------------|-----------|--------|-----------|---------------|---|--------|-------|-------|
| Q2413-04                 | TP-74     | SOIL   | Lead      | 9.20          |   | 0.14   | 0.64  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Magnesium | 272           |   | 12.8   | 106   | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Manganese | 76.2          |   | 0.15   | 1.06  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Mercury   | 0.012         | J | 0.0090 | 0.015 | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Nickel    | 5.54          |   | 0.14   | 2.13  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Potassium | 560           |   | 29.5   | 106   | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Selenium  | 7.99          |   | 0.28   | 1.06  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Silver    | 0.59          |   | 0.13   | 0.53  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Sodium    | 428           |   | 18.9   | 106   | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Vanadium  | 20.5          |   | 0.27   | 2.13  | mg/Kg |
| Q2413-04                 | TP-74     | SOIL   | Zinc      | 20.7          |   | 0.12   | 2.13  | mg/Kg |
| <b>Client ID : TP-73</b> |           |        |           |               |   |        |       |       |
| Q2413-05                 | TP-73     | SOIL   | Aluminum  | 3080          |   | 1.00   | 5.95  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Antimony  | 0.36          | J | 0.26   | 2.97  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Arsenic   | 1.76          |   | 0.23   | 1.19  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Barium    | 35.7          |   | 0.87   | 5.95  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Beryllium | 0.28          | J | 0.030  | 0.36  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Calcium   | 171           |   | 13.2   | 119   | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Chromium  | 3.79          |   | 0.056  | 0.60  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Cobalt    | 0.36          | J | 0.12   | 1.78  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Copper    | 2.91          |   | 0.26   | 1.19  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Iron      | 3620          |   | 4.75   | 5.95  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Lead      | 9.44          |   | 0.16   | 0.71  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Magnesium | 104           | J | 14.3   | 119   | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Manganese | 5.60          |   | 0.17   | 1.19  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Mercury   | 0.026         |   | 0.0090 | 0.016 | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Nickel    | 1.24          | J | 0.16   | 2.38  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Potassium | 170           |   | 33.0   | 119   | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Selenium  | 1.38          |   | 0.31   | 1.19  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Sodium    | 165           |   | 21.2   | 119   | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Vanadium  | 6.06          |   | 0.30   | 2.38  | mg/Kg |
| Q2413-05                 | TP-73     | SOIL   | Zinc      | 5.43          |   | 0.13   | 2.38  | mg/Kg |
| <b>Client ID : TP-72</b> |           |        |           |               |   |        |       |       |
| Q2413-06                 | TP-72     | SOIL   | Aluminum  | 4570          |   | 0.89   | 5.32  | mg/Kg |
| Q2413-06                 | TP-72     | SOIL   | Antimony  | 0.79          | J | 0.23   | 2.66  | mg/Kg |
| Q2413-06                 | TP-72     | SOIL   | Arsenic   | 6.60          |   | 0.20   | 1.06  | mg/Kg |
| Q2413-06                 | TP-72     | SOIL   | Barium    | 22.4          |   | 0.78   | 5.32  | mg/Kg |
| Q2413-06                 | TP-72     | SOIL   | Beryllium | 0.57          |   | 0.027  | 0.32  | mg/Kg |
| Q2413-06                 | TP-72     | SOIL   | Calcium   | 371           |   | 11.8   | 106   | mg/Kg |

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**Project ID:** South River WM Replacement

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL    | RDL   | Units |
|-----------|-----------|--------|-----------|---------------|---|--------|-------|-------|
| Q2413-06  | TP-72     | SOIL   | Chromium  | 7.90          |   | 0.050  | 0.53  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Cobalt    | 2.69          |   | 0.11   | 1.60  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Copper    | 4.46          |   | 0.23   | 1.06  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Iron      | 16000         |   | 4.25   | 5.32  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Lead      | 6.00          |   | 0.14   | 0.64  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Magnesium | 428           |   | 12.8   | 106   | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Manganese | 37.9          |   | 0.15   | 1.06  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Mercury   | 0.019         |   | 0.0080 | 0.014 | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Nickel    | 4.12          |   | 0.14   | 2.13  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Potassium | 570           |   | 29.5   | 106   | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Selenium  | 4.93          |   | 0.28   | 1.06  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Silver    | 0.19          | J | 0.13   | 0.53  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Sodium    | 225           |   | 18.9   | 106   | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Vanadium  | 20.0          |   | 0.27   | 2.13  | mg/Kg |
| Q2413-06  | TP-72     | SOIL   | Zinc      | 13.0          |   | 0.12   | 2.13  | mg/Kg |