

## Report of Analysis

|                    |                                   |                 |                      |
|--------------------|-----------------------------------|-----------------|----------------------|
| Client:            | CDM Smith                         | Date Collected: | 05/27/25             |
| Project:           | South River WM Replacement        | Date Received:  | 05/28/25             |
| Client Sample ID:  | TP-48                             | SDG No.:        | Q2150                |
| Lab Sample ID:     | Q2150-04                          | Matrix:         | SOIL                 |
| Analytical Method: | 8260D                             | % Solid:        | 80.7                 |
| Sample Wt/Vol:     | 6.52      Units:    g             | Final Vol:      | 5000              uL |
| Soil Aliquot Vol:  | uL                                | Test:           | VOC-TCLVOA-10        |
| GC Column:         | RXI-624              ID :    0.25 | Level :         | LOW                  |
| Prep Method :      |                                   |                 |                      |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VY022463.D        | 1         |           | 05/29/25 13:36 | VY052925      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|--------------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                                |       |           |      |            |                   |
| 75-71-8        | Dichlorodifluoromethane        | 4.80  | U         | 1.10 | 4.80       | ug/Kg             |
| 74-87-3        | Chloromethane                  | 4.80  | U         | 1.10 | 4.80       | ug/Kg             |
| 75-01-4        | Vinyl Chloride                 | 4.80  | U         | 0.75 | 4.80       | ug/Kg             |
| 74-83-9        | Bromomethane                   | 4.80  | U         | 1.00 | 4.80       | ug/Kg             |
| 75-00-3        | Chloroethane                   | 4.80  | U         | 1.20 | 4.80       | ug/Kg             |
| 75-69-4        | Trichlorofluoromethane         | 4.80  | U         | 1.10 | 4.80       | ug/Kg             |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 4.80  | U         | 1.00 | 4.80       | ug/Kg             |
| 75-35-4        | 1,1-Dichloroethene             | 4.80  | U         | 0.95 | 4.80       | ug/Kg             |
| 67-64-1        | Acetone                        | 13.1  | J         | 4.50 | 23.8       | ug/Kg             |
| 75-15-0        | Carbon Disulfide               | 4.80  | U         | 1.00 | 4.80       | ug/Kg             |
| 1634-04-4      | Methyl tert-butyl Ether        | 4.80  | U         | 0.69 | 4.80       | ug/Kg             |
| 79-20-9        | Methyl Acetate                 | 4.80  | U         | 1.50 | 4.80       | ug/Kg             |
| 75-09-2        | Methylene Chloride             | 9.50  | U         | 3.40 | 9.50       | ug/Kg             |
| 156-60-5       | trans-1,2-Dichloroethene       | 4.80  | U         | 0.82 | 4.80       | ug/Kg             |
| 75-34-3        | 1,1-Dichloroethane             | 4.80  | U         | 0.76 | 4.80       | ug/Kg             |
| 110-82-7       | Cyclohexane                    | 4.80  | U         | 0.75 | 4.80       | ug/Kg             |
| 78-93-3        | 2-Butanone                     | 23.8  | U         | 6.20 | 23.8       | ug/Kg             |
| 56-23-5        | Carbon Tetrachloride           | 4.80  | U         | 0.92 | 4.80       | ug/Kg             |
| 156-59-2       | cis-1,2-Dichloroethene         | 4.80  | U         | 0.71 | 4.80       | ug/Kg             |
| 74-97-5        | Bromochloromethane             | 4.80  | U         | 1.10 | 4.80       | ug/Kg             |
| 67-66-3        | Chloroform                     | 4.80  | U         | 0.80 | 4.80       | ug/Kg             |
| 71-55-6        | 1,1,1-Trichloroethane          | 4.80  | U         | 0.88 | 4.80       | ug/Kg             |
| 108-87-2       | Methylcyclohexane              | 4.80  | U         | 0.86 | 4.80       | ug/Kg             |
| 71-43-2        | Benzene                        | 4.80  | U         | 0.75 | 4.80       | ug/Kg             |
| 107-06-2       | 1,2-Dichloroethane             | 4.80  | U         | 0.75 | 4.80       | ug/Kg             |
| 79-01-6        | Trichloroethene                | 4.80  | U         | 0.77 | 4.80       | ug/Kg             |
| 78-87-5        | 1,2-Dichloropropane            | 4.80  | U         | 0.86 | 4.80       | ug/Kg             |
| 75-27-4        | Bromodichloromethane           | 4.80  | U         | 0.74 | 4.80       | ug/Kg             |
| 108-10-1       | 4-Methyl-2-Pentanone           | 23.8  | U         | 3.40 | 23.8       | ug/Kg             |
| 108-88-3       | Toluene                        | 4.80  | U         | 0.74 | 4.80       | ug/Kg             |

## Report of Analysis

|                    |                                   |                 |                      |
|--------------------|-----------------------------------|-----------------|----------------------|
| Client:            | CDM Smith                         | Date Collected: | 05/27/25             |
| Project:           | South River WM Replacement        | Date Received:  | 05/28/25             |
| Client Sample ID:  | TP-48                             | SDG No.:        | Q2150                |
| Lab Sample ID:     | Q2150-04                          | Matrix:         | SOIL                 |
| Analytical Method: | 8260D                             | % Solid:        | 80.7                 |
| Sample Wt/Vol:     | 6.52      Units:    g             | Final Vol:      | 5000              uL |
| Soil Aliquot Vol:  | uL                                | Test:           | VOC-TCLVOA-10        |
| GC Column:         | RXI-624              ID :    0.25 | Level :         | LOW                  |
| Prep Method :      |                                   |                 |                      |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VY022463.D        | 1         |           | 05/29/25 13:36 | VY052925      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|---------------------------|-----------------------------|--------|-----------|----------|------------|-------------------|
| 10061-02-6                | t-1,3-Dichloropropene       | 4.80   | U         | 0.62     | 4.80       | ug/Kg             |
| 10061-01-5                | cis-1,3-Dichloropropene     | 4.80   | U         | 0.59     | 4.80       | ug/Kg             |
| 79-00-5                   | 1,1,2-Trichloroethane       | 4.80   | U         | 0.87     | 4.80       | ug/Kg             |
| 591-78-6                  | 2-Hexanone                  | 23.8   | U         | 3.50     | 23.8       | ug/Kg             |
| 124-48-1                  | Dibromochloromethane        | 4.80   | U         | 0.83     | 4.80       | ug/Kg             |
| 106-93-4                  | 1,2-Dibromoethane           | 4.80   | U         | 0.84     | 4.80       | ug/Kg             |
| 127-18-4                  | Tetrachloroethene           | 4.80   | U         | 1.00     | 4.80       | ug/Kg             |
| 108-90-7                  | Chlorobenzene               | 4.80   | U         | 0.86     | 4.80       | ug/Kg             |
| 100-41-4                  | Ethyl Benzene               | 4.80   | U         | 0.64     | 4.80       | ug/Kg             |
| 179601-23-1               | m/p-Xylenes                 | 9.50   | U         | 1.20     | 9.50       | ug/Kg             |
| 95-47-6                   | o-Xylene                    | 4.80   | U         | 0.78     | 4.80       | ug/Kg             |
| 100-42-5                  | Styrene                     | 4.80   | U         | 0.67     | 4.80       | ug/Kg             |
| 75-25-2                   | Bromoform                   | 4.80   | U         | 0.82     | 4.80       | ug/Kg             |
| 98-82-8                   | Isopropylbenzene            | 4.80   | U         | 0.74     | 4.80       | ug/Kg             |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 4.80   | U         | 1.10     | 4.80       | ug/Kg             |
| 541-73-1                  | 1,3-Dichlorobenzene         | 4.80   | U         | 1.60     | 4.80       | ug/Kg             |
| 106-46-7                  | 1,4-Dichlorobenzene         | 4.80   | U         | 1.50     | 4.80       | ug/Kg             |
| 95-50-1                   | 1,2-Dichlorobenzene         | 4.80   | U         | 1.40     | 4.80       | ug/Kg             |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 4.80   | U         | 1.70     | 4.80       | ug/Kg             |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 4.80   | U         | 2.80     | 4.80       | ug/Kg             |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 4.80   | U         | 3.00     | 4.80       | ug/Kg             |
| <b>SURROGATES</b>         |                             |        |           |          |            |                   |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 59.1   |           | 63 - 155 | 118%       | SPK: 50           |
| 1868-53-7                 | Dibromofluoromethane        | 52.7   |           | 70 - 134 | 105%       | SPK: 50           |
| 2037-26-5                 | Toluene-d8                  | 50.5   |           | 74 - 123 | 101%       | SPK: 50           |
| 460-00-4                  | 4-Bromofluorobenzene        | 43.0   |           | 17 - 146 | 86%        | SPK: 50           |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |                   |
| 363-72-4                  | Pentafluorobenzene          | 279000 | 7.719     |          |            |                   |
| 540-36-3                  | 1,4-Difluorobenzene         | 518000 | 8.622     |          |            |                   |
| 3114-55-4                 | Chlorobenzene-d5            | 419000 | 11.42     |          |            |                   |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4      | 156000 | 13.352    |          |            |                   |

## Report of Analysis

|                    |                            |                 |               |
|--------------------|----------------------------|-----------------|---------------|
| Client:            | CDM Smith                  | Date Collected: | 05/27/25      |
| Project:           | South River WM Replacement | Date Received:  | 05/28/25      |
| Client Sample ID:  | TP-48                      | SDG No.:        | Q2150         |
| Lab Sample ID:     | Q2150-04                   | Matrix:         | SOIL          |
| Analytical Method: | 8260D                      | % Solid:        | 80.7          |
| Sample Wt/Vol:     | 6.52                       | Units:          | g             |
| Soil Aliquot Vol:  |                            |                 | uL            |
| GC Column:         | RXI-624                    | ID :            | 0.25          |
| Prep Method :      |                            | Level :         | LOW           |
|                    |                            | Final Vol:      | 5000          |
|                    |                            | Test:           | VOC-TCLVOA-10 |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VY022463.D        | 1         |           | 05/29/25 13:36 | VY052925      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|------------|-------|
|------------|-----------|-------|-----------|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products