

## Report of Analysis

|                    |                            |           |                 |               |
|--------------------|----------------------------|-----------|-----------------|---------------|
| Client:            | CDM Smith                  |           | Date Collected: |               |
| Project:           | South River WM Replacement |           | Date Received:  |               |
| Client Sample ID:  | VN0521MBS01                |           | SDG No.:        | Q2032         |
| Lab Sample ID:     | VN0521MBS01                |           | Matrix:         | SOIL          |
| Analytical Method: | 8260D                      |           | % Solid:        | 100           |
| Sample Wt/Vol:     | 5                          | Units: g  | Final Vol:      | 10000 uL      |
| Soil Aliquot Vol:  | 100                        | uL        | Test:           | VOC-TCLVOA-10 |
| GC Column:         | RXI-624                    | ID : 0.25 | Level :         | MED           |
| Prep Method :      |                            |           |                 |               |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VN086725.D        | 1         |           | 05/21/25 12:32 | VN052125      |

| CAS Number     | Parameter                      | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|--------------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                                |       |           |      |            |                   |
| 75-71-8        | Dichlorodifluoromethane        | 2100  |           | 110  | 500        | ug/Kg             |
| 74-87-3        | Chloromethane                  | 2000  |           | 110  | 500        | ug/Kg             |
| 75-01-4        | Vinyl Chloride                 | 2000  |           | 79.0 | 500        | ug/Kg             |
| 74-83-9        | Bromomethane                   | 1900  |           | 110  | 500        | ug/Kg             |
| 75-00-3        | Chloroethane                   | 1900  |           | 130  | 500        | ug/Kg             |
| 75-69-4        | Trichlorofluoromethane         | 2000  |           | 120  | 500        | ug/Kg             |
| 76-13-1        | 1,1,2-Trichlorotrifluoroethane | 2100  |           | 110  | 500        | ug/Kg             |
| 75-35-4        | 1,1-Dichloroethene             | 1900  |           | 100  | 500        | ug/Kg             |
| 67-64-1        | Acetone                        | 9000  |           | 470  | 2500       | ug/Kg             |
| 75-15-0        | Carbon Disulfide               | 2000  |           | 110  | 500        | ug/Kg             |
| 1634-04-4      | Methyl tert-butyl Ether        | 2000  |           | 73.0 | 500        | ug/Kg             |
| 79-20-9        | Methyl Acetate                 | 1900  |           | 150  | 500        | ug/Kg             |
| 75-09-2        | Methylene Chloride             | 1900  |           | 350  | 1000       | ug/Kg             |
| 156-60-5       | trans-1,2-Dichloroethene       | 1900  |           | 86.0 | 500        | ug/Kg             |
| 75-34-3        | 1,1-Dichloroethane             | 2000  |           | 80.0 | 500        | ug/Kg             |
| 110-82-7       | Cyclohexane                    | 1900  |           | 79.0 | 500        | ug/Kg             |
| 78-93-3        | 2-Butanone                     | 9500  |           | 650  | 2500       | ug/Kg             |
| 56-23-5        | Carbon Tetrachloride           | 1900  |           | 97.0 | 500        | ug/Kg             |
| 156-59-2       | cis-1,2-Dichloroethene         | 1900  |           | 75.0 | 500        | ug/Kg             |
| 74-97-5        | Bromochloromethane             | 2000  |           | 120  | 500        | ug/Kg             |
| 67-66-3        | Chloroform                     | 1900  |           | 84.0 | 500        | ug/Kg             |
| 71-55-6        | 1,1,1-Trichloroethane          | 2000  |           | 93.0 | 500        | ug/Kg             |
| 108-87-2       | Methylcyclohexane              | 1900  |           | 91.0 | 500        | ug/Kg             |
| 71-43-2        | Benzene                        | 1900  |           | 79.0 | 500        | ug/Kg             |
| 107-06-2       | 1,2-Dichloroethane             | 1900  |           | 79.0 | 500        | ug/Kg             |
| 79-01-6        | Trichloroethene                | 1900  |           | 81.0 | 500        | ug/Kg             |
| 78-87-5        | 1,2-Dichloropropane            | 2000  |           | 91.0 | 500        | ug/Kg             |
| 75-27-4        | Bromodichloromethane           | 2000  |           | 78.0 | 500        | ug/Kg             |
| 108-10-1       | 4-Methyl-2-Pentanone           | 9500  |           | 360  | 2500       | ug/Kg             |
| 108-88-3       | Toluene                        | 1900  |           | 78.0 | 500        | ug/Kg             |

## Report of Analysis

|                    |                            |           |                 |               |
|--------------------|----------------------------|-----------|-----------------|---------------|
| Client:            | CDM Smith                  |           | Date Collected: |               |
| Project:           | South River WM Replacement |           | Date Received:  |               |
| Client Sample ID:  | VN0521MBS01                |           | SDG No.:        | Q2032         |
| Lab Sample ID:     | VN0521MBS01                |           | Matrix:         | SOIL          |
| Analytical Method: | 8260D                      |           | % Solid:        | 100           |
| Sample Wt/Vol:     | 5                          | Units: g  | Final Vol:      | 10000 uL      |
| Soil Aliquot Vol:  | 100                        | uL        | Test:           | VOC-TCLVOA-10 |
| GC Column:         | RXI-624                    | ID : 0.25 | Level :         | MED           |
| Prep Method :      |                            |           |                 |               |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VN086725.D        | 1         |           | 05/21/25 12:32 | VN052125      |

| CAS Number                | Parameter                   | Conc.  | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|---------------------------|-----------------------------|--------|-----------|----------|------------|-------------------|
| 10061-02-6                | t-1,3-Dichloropropene       | 2000   |           | 65.0     | 500        | ug/Kg             |
| 10061-01-5                | cis-1,3-Dichloropropene     | 2000   |           | 62.0     | 500        | ug/Kg             |
| 79-00-5                   | 1,1,2-Trichloroethane       | 1900   |           | 92.0     | 500        | ug/Kg             |
| 591-78-6                  | 2-Hexanone                  | 9300   |           | 370      | 2500       | ug/Kg             |
| 124-48-1                  | Dibromochloromethane        | 1900   |           | 87.0     | 500        | ug/Kg             |
| 106-93-4                  | 1,2-Dibromoethane           | 1900   |           | 88.0     | 500        | ug/Kg             |
| 127-18-4                  | Tetrachloroethene           | 2100   |           | 110      | 500        | ug/Kg             |
| 108-90-7                  | Chlorobenzene               | 2000   |           | 91.0     | 500        | ug/Kg             |
| 100-41-4                  | Ethyl Benzene               | 2000   |           | 67.0     | 500        | ug/Kg             |
| 179601-23-1               | m/p-Xylenes                 | 4000   |           | 120      | 1000       | ug/Kg             |
| 95-47-6                   | o-Xylene                    | 1900   |           | 82.0     | 500        | ug/Kg             |
| 100-42-5                  | Styrene                     | 2000   |           | 71.0     | 500        | ug/Kg             |
| 75-25-2                   | Bromoform                   | 2000   |           | 86.0     | 500        | ug/Kg             |
| 98-82-8                   | Isopropylbenzene            | 1900   |           | 78.0     | 500        | ug/Kg             |
| 79-34-5                   | 1,1,2,2-Tetrachloroethane   | 1900   |           | 120      | 500        | ug/Kg             |
| 541-73-1                  | 1,3-Dichlorobenzene         | 1900   |           | 170      | 500        | ug/Kg             |
| 106-46-7                  | 1,4-Dichlorobenzene         | 2000   |           | 160      | 500        | ug/Kg             |
| 95-50-1                   | 1,2-Dichlorobenzene         | 2000   |           | 150      | 500        | ug/Kg             |
| 96-12-8                   | 1,2-Dibromo-3-Chloropropane | 1900   |           | 180      | 500        | ug/Kg             |
| 120-82-1                  | 1,2,4-Trichlorobenzene      | 1900   |           | 300      | 500        | ug/Kg             |
| 87-61-6                   | 1,2,3-Trichlorobenzene      | 1900   |           | 320      | 500        | ug/Kg             |
| <b>SURROGATES</b>         |                             |        |           |          |            |                   |
| 17060-07-0                | 1,2-Dichloroethane-d4       | 51.7   |           | 63 - 155 | 103%       | SPK: 50           |
| 1868-53-7                 | Dibromofluoromethane        | 52.5   |           | 70 - 134 | 105%       | SPK: 50           |
| 2037-26-5                 | Toluene-d8                  | 52.3   |           | 74 - 123 | 105%       | SPK: 50           |
| 460-00-4                  | 4-Bromofluorobenzene        | 50.0   |           | 38 - 136 | 100%       | SPK: 50           |
| <b>INTERNAL STANDARDS</b> |                             |        |           |          |            |                   |
| 363-72-4                  | Pentafluorobenzene          | 188000 | 8.224     |          |            |                   |
| 540-36-3                  | 1,4-Difluorobenzene         | 346000 | 9.1       |          |            |                   |
| 3114-55-4                 | Chlorobenzene-d5            | 297000 | 11.865    |          |            |                   |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4      | 134000 | 13.788    |          |            |                   |

## Report of Analysis

|                    |                            |                 |               |
|--------------------|----------------------------|-----------------|---------------|
| Client:            | CDM Smith                  | Date Collected: |               |
| Project:           | South River WM Replacement | Date Received:  |               |
| Client Sample ID:  | VN0521MBS01                | SDG No.:        | Q2032         |
| Lab Sample ID:     | VN0521MBS01                | Matrix:         | SOIL          |
| Analytical Method: | 8260D                      | % Solid:        | 100           |
| Sample Wt/Vol:     | 5                          | Units:          | g             |
| Soil Aliquot Vol:  | 100                        |                 | uL            |
| GC Column:         | RXI-624                    | ID :            | 0.25          |
| Prep Method :      |                            | Level :         | MED           |
|                    |                            | Final Vol:      | 10000         |
|                    |                            | Test:           | VOC-TCLVOA-10 |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VN086725.D        | 1         |           | 05/21/25 12:32 | VN052125      |

| 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