

## Report of Analysis

|                    |                            |                 |                              |
|--------------------|----------------------------|-----------------|------------------------------|
| Client:            | CDM Smith                  | Date Collected: | 05/20/25                     |
| Project:           | South River WM Replacement | Date Received:  | 05/20/25                     |
| Client Sample ID:  | TP-45MS                    | SDG No.:        | Q2100                        |
| Lab Sample ID:     | Q2100-04MS                 | Matrix:         | SOIL                         |
| Analytical Method: | 8270E                      | % Solid:        | 76.2                         |
| Sample Wt/Vol:     | 30.08      Units:    g     | Final Vol:      | 1000                      uL |
| Soil Aliquot Vol:  | uL                         | Test:           | SVOC-TCL BNA -20             |
| Extraction Type :  | Decanted :      N          | Level :         | LOW                          |
| Injection Volume : | GPC Factor :    1.0        | GPC Cleanup :   | N                      PH :  |
| Prep Method :      | SW3541                     |                 |                              |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF142531.D        | 1         | 05/22/25 09:00 | 05/23/25 13:12 | PB168126      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 1700  |           | 200  | 430        | ug/Kg             |
| 108-95-2       | Phenol                      | 1800  |           | 28.9 | 220        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 1800  |           | 31.8 | 220        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 1800  |           | 31.9 | 220        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 1800  |           | 39.1 | 220        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 1800  |           | 49.1 | 220        | ug/Kg             |
| 98-86-2        | Acetophenone                | 1800  |           | 38.6 | 220        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 1800  |           | 53.8 | 430        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 1800  |           | 62.0 | 100        | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 1800  |           | 23.0 | 220        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 1900  |           | 24.0 | 220        | ug/Kg             |
| 78-59-1        | Isophorone                  | 1800  |           | 42.9 | 220        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 1900  |           | 76.2 | 220        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 1900  |           | 84.8 | 220        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 1800  |           | 40.3 | 220        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 1800  |           | 37.0 | 220        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 1800  |           | 29.7 | 220        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 710   |           | 46.3 | 220        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 1800  |           | 33.1 | 220        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 2000  |           | 68.2 | 430        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 1800  |           | 37.6 | 220        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 1800  |           | 33.5 | 220        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 3600  | E         | 150  | 430        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 1900  |           | 25.9 | 220        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 1800  |           | 38.1 | 220        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 1800  |           | 28.5 | 220        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 1800  |           | 29.4 | 220        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 1900  |           | 63.0 | 220        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 1900  |           | 35.5 | 220        | ug/Kg             |

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| Soil Aliquot Vol:  | uL                         | Test:           | SVOC-TCL BNA -20             |
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| BF142531.D        | 1         | 05/22/25 09:00 | 05/23/25 13:12 | PB168126      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 1800  |           | 37.8 | 220        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 1900  |           | 44.0 | 220        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 1100  |           | 60.2 | 220        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 2000  |           | 27.9 | 220        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 4400  | E         | 300  | 430        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 3900  | E         | 140  | 430        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 1800  |           | 29.7 | 220        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 1900  |           | 65.6 | 220        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 1800  |           | 37.0 | 220        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 1800  |           | 34.9 | 220        | ug/Kg             |
| 86-73-7    | Fluorene                   | 1800  |           | 33.1 | 220        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 1900  |           | 84.0 | 220        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 2200  |           | 130  | 430        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 1800  |           | 43.1 | 220        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 1800  |           | 36.4 | 220        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 1900  |           | 33.1 | 220        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 2100  |           | 44.5 | 220        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 3900  | E         | 67.1 | 430        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 1800  |           | 27.4 | 220        | ug/Kg             |
| 120-12-7   | Anthracene                 | 1800  |           | 43.6 | 220        | ug/Kg             |
| 86-74-8    | Carbazole                  | 1900  |           | 40.8 | 220        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 2000  |           | 62.7 | 220        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 1900  |           | 39.3 | 220        | ug/Kg             |
| 129-00-0   | Pyrene                     | 1800  |           | 47.1 | 220        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 2300  |           | 93.5 | 220        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 1300  |           | 48.0 | 430        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 1800  |           | 30.1 | 220        | ug/Kg             |
| 218-01-9   | Chrysene                   | 1900  |           | 26.0 | 220        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 2300  |           | 77.5 | 220        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 1900  |           | 110  | 430        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 2000  |           | 24.9 | 220        | ug/Kg             |

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|---------------------------|----------------------------|--------|-----------|----------|------------|-------------------|
| 207-08-9                  | Benzo(k)fluoranthene       | 1700   |           | 29.3     | 220        | ug/Kg             |
| 50-32-8                   | Benzo(a)pyrene             | 1900   |           | 38.6     | 220        | ug/Kg             |
| 193-39-5                  | Indeno(1,2,3-cd)pyrene     | 1900   |           | 38.1     | 220        | ug/Kg             |
| 53-70-3                   | Dibenzo(a,h)anthracene     | 1900   |           | 35.9     | 220        | ug/Kg             |
| 191-24-2                  | Benzo(g,h,i)perylene       | 1900   |           | 33.6     | 220        | ug/Kg             |
| 95-94-3                   | 1,2,4,5-Tetrachlorobenzene | 1800   |           | 33.5     | 220        | ug/Kg             |
| 123-91-1                  | 1,4-Dioxane                | 1500   |           | 59.2     | 220        | ug/Kg             |
| 58-90-2                   | 2,3,4,6-Tetrachlorophenol  | 1900   |           | 35.9     | 220        | ug/Kg             |
| <b>SURROGATES</b>         |                            |        |           |          |            |                   |
| 367-12-4                  | 2-Fluorophenol             | 93.8   |           | 18 - 112 | 63%        | SPK: 150          |
| 13127-88-3                | Phenol-d6                  | 98.1   |           | 15 - 107 | 65%        | SPK: 150          |
| 4165-60-0                 | Nitrobenzene-d5            | 60.2   |           | 18 - 107 | 60%        | SPK: 100          |
| 321-60-8                  | 2-Fluorobiphenyl           | 57.3   |           | 20 - 109 | 57%        | SPK: 100          |
| 118-79-6                  | 2,4,6-Tribromophenol       | 102    |           | 10 - 116 | 68%        | SPK: 150          |
| 1718-51-0                 | Terphenyl-d14              | 56.4   |           | 10 - 105 | 56%        | SPK: 100          |
| <b>INTERNAL STANDARDS</b> |                            |        |           |          |            |                   |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4     | 127000 | 6.898     |          |            |                   |
| 1146-65-2                 | Naphthalene-d8             | 480000 | 8.181     |          |            |                   |
| 15067-26-2                | Acenaphthene-d10           | 253000 | 9.939     |          |            |                   |
| 1517-22-2                 | Phenanthrene-d10           | 419000 | 11.428    |          |            |                   |
| 1719-03-5                 | Chrysene-d12               | 225000 | 14.069    |          |            |                   |
| 1520-96-3                 | Perylene-d12               | 248000 | 15.563    |          |            |                   |

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