

## Report of Analysis

|                    |                            |                 |                  |
|--------------------|----------------------------|-----------------|------------------|
| Client:            | Tetra Tech                 | Date Collected: | 11/14/24         |
| Project:           | Ocean County Landfill 2024 | Date Received:  | 11/14/24         |
| Client Sample ID:  | PH2-BOT-007                | SDG No.:        | P4860            |
| Lab Sample ID:     | P4860-08                   | Matrix:         | SOIL             |
| Analytical Method: | SW8270                     | % Solid:        | 98               |
| Sample Wt/Vol:     | 30.05 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 |
| BF140578.D        | 1         | 11/16/24 08:51 | 11/22/24 15:32 | PB165029      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |      |            |                   |
| 100-52-7       | Benzaldehyde                | 190   | UQ        | 190  | 340        | ug/Kg             |
| 108-95-2       | Phenol                      | 84.5  | U         | 84.5 | 170        | ug/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 85.3  | U         | 85.3 | 170        | ug/Kg             |
| 95-57-8        | 2-Chlorophenol              | 85.1  | U         | 85.1 | 170        | ug/Kg             |
| 95-48-7        | 2-Methylphenol              | 82.1  | U         | 82.1 | 170        | ug/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 92.6  | U         | 92.6 | 170        | ug/Kg             |
| 98-86-2        | Acetophenone                | 88.5  | U         | 88.5 | 170        | ug/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 81.3  | U         | 81.3 | 340        | ug/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 41.1  | U         | 41.1 | 81.5       | ug/Kg             |
| 67-72-1        | Hexachloroethane            | 84.6  | U         | 84.6 | 170        | ug/Kg             |
| 98-95-3        | Nitrobenzene                | 92.5  | U         | 92.5 | 170        | ug/Kg             |
| 78-59-1        | Isophorone                  | 86.2  | U         | 86.2 | 170        | ug/Kg             |
| 88-75-5        | 2-Nitrophenol               | 96.3  | U         | 96.3 | 170        | ug/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 94.9  | U         | 94.9 | 170        | ug/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 87.4  | U         | 87.4 | 170        | ug/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 76.9  | U         | 76.9 | 170        | ug/Kg             |
| 91-20-3        | Naphthalene                 | 84.1  | U         | 84.1 | 170        | ug/Kg             |
| 106-47-8       | 4-Chloroaniline             | 84.1  | UQ        | 84.1 | 170        | ug/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 84.9  | U         | 84.9 | 170        | ug/Kg             |
| 105-60-2       | Caprolactam                 | 88.4  | U         | 88.4 | 340        | ug/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 79.0  | U         | 79.0 | 170        | ug/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 84.0  | U         | 84.0 | 170        | ug/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 160   | UQ        | 160  | 340        | ug/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 72.7  | U         | 72.7 | 170        | ug/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 75.4  | U         | 75.4 | 170        | ug/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 89.0  | U         | 89.0 | 170        | ug/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 84.9  | U         | 84.9 | 170        | ug/Kg             |
| 88-74-4        | 2-Nitroaniline              | 96.8  | U         | 96.8 | 170        | ug/Kg             |
| 131-11-3       | Dimethylphthalate           | 83.2  | U         | 83.2 | 170        | ug/Kg             |

## Report of Analysis

|                    |                            |                 |                              |
|--------------------|----------------------------|-----------------|------------------------------|
| Client:            | Tetra Tech                 | Date Collected: | 11/14/24                     |
| Project:           | Ocean County Landfill 2024 | Date Received:  | 11/14/24                     |
| Client Sample ID:  | PH2-BOT-007                | SDG No.:        | P4860                        |
| Lab Sample ID:     | P4860-08                   | Matrix:         | SOIL                         |
| Analytical Method: | SW8270                     | % Solid:        | 98                           |
| Sample Wt/Vol:     | 30.05      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 |
| BF140578.D        | 1         | 11/16/24 08:51 | 11/22/24 15:32 | PB165029      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 88.1  | U         | 88.1 | 170        | ug/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 84.8  | U         | 84.8 | 170        | ug/Kg             |
| 99-09-2    | 3-Nitroaniline             | 90.9  | UQ        | 90.9 | 170        | ug/Kg             |
| 83-32-9    | Acenaphthene               | 82.6  | U         | 82.6 | 170        | ug/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 250   | U         | 250  | 340        | ug/Kg             |
| 100-02-7   | 4-Nitrophenol              | 120   | U         | 120  | 340        | ug/Kg             |
| 132-64-9   | Dibenzofuran               | 86.0  | U         | 86.0 | 170        | ug/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 87.8  | U         | 87.8 | 170        | ug/Kg             |
| 84-66-2    | Diethylphthalate           | 81.6  | U         | 81.6 | 170        | ug/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 87.2  | U         | 87.2 | 170        | ug/Kg             |
| 86-73-7    | Fluorene                   | 87.1  | U         | 87.1 | 170        | ug/Kg             |
| 100-01-6   | 4-Nitroaniline             | 110   | U         | 110  | 170        | ug/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 120   | U         | 120  | 340        | ug/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 83.1  | U         | 83.1 | 170        | ug/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 80.4  | U         | 80.4 | 170        | ug/Kg             |
| 118-74-1   | Hexachlorobenzene          | 86.6  | U         | 86.6 | 170        | ug/Kg             |
| 1912-24-9  | Atrazine                   | 93.1  | U         | 93.1 | 170        | ug/Kg             |
| 87-86-5    | Pentachlorophenol          | 78.7  | U         | 78.7 | 340        | ug/Kg             |
| 85-01-8    | Phenanthrene               | 85.6  | U         | 85.6 | 170        | ug/Kg             |
| 120-12-7   | Anthracene                 | 86.0  | U         | 86.0 | 170        | ug/Kg             |
| 86-74-8    | Carbazole                  | 81.8  | U         | 81.8 | 170        | ug/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 85.9  | U         | 85.9 | 170        | ug/Kg             |
| 206-44-0   | Fluoranthene               | 83.2  | U         | 83.2 | 170        | ug/Kg             |
| 129-00-0   | Pyrene                     | 84.6  | U         | 84.6 | 170        | ug/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 98.6  | U         | 98.6 | 170        | ug/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 100   | UQ        | 100  | 340        | ug/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 82.2  | U         | 82.2 | 170        | ug/Kg             |
| 218-01-9   | Chrysene                   | 81.0  | U         | 81.0 | 170        | ug/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 92.7  | U         | 92.7 | 170        | ug/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 110   | U         | 110  | 340        | ug/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 82.6  | U         | 82.6 | 170        | ug/Kg             |

## Report of Analysis

|                    |                            |                 |                  |
|--------------------|----------------------------|-----------------|------------------|
| Client:            | Tetra Tech                 | Date Collected: | 11/14/24         |
| Project:           | Ocean County Landfill 2024 | Date Received:  | 11/14/24         |
| Client Sample ID:  | PH2-BOT-007                | SDG No.:        | P4860            |
| Lab Sample ID:     | P4860-08                   | Matrix:         | SOIL             |
| Analytical Method: | SW8270                     | % Solid:        | 98               |
| Sample Wt/Vol:     | 30.05 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 |
| BF140578.D        | 1         | 11/16/24 08:51 | 11/22/24 15:32 | PB165029      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL  | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 84.1  | U         | 84.1 | 170        | ug/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 94.7  | U         | 94.7 | 170        | ug/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 79.6  | U         | 79.6 | 170        | ug/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 82.7  | U         | 82.7 | 170        | ug/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 81.6  | U         | 81.6 | 170        | ug/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 88.4  | U         | 88.4 | 170        | ug/Kg             |
| 123-91-1   | 1,4-Dioxane                | 110   | U         | 110  | 170        | ug/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 76.1  | U         | 76.1 | 170        | ug/Kg             |

### SURROGATES

|            |                      |      |  |                     |     |          |
|------------|----------------------|------|--|---------------------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 75.2 |  | 30 (18) - 130 (112) | 50% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 75.3 |  | 30 (15) - 130 (107) | 50% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 52.4 |  | 30 (18) - 130 (107) | 52% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 55.8 |  | 30 (20) - 130 (109) | 56% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 74.2 |  | 30 (10) - 130 (116) | 49% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 54.1 |  | 30 (10) - 130 (105) | 54% | SPK: 100 |

### INTERNAL STANDARDS

|            |                        |        |        |
|------------|------------------------|--------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 93300  | 6.869  |
| 1146-65-2  | Naphthalene-d8         | 346000 | 8.151  |
| 15067-26-2 | Acenaphthene-d10       | 184000 | 9.904  |
| 1517-22-2  | Phenanthrene-d10       | 341000 | 11.398 |
| 1719-03-5  | Chrysene-d12           | 203000 | 14.045 |
| 1520-96-3  | Perylene-d12           | 190000 | 15.533 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                             |      |    |      |       |
|-------------|-----------------------------|------|----|------|-------|
| 000994-05-8 | Butane, 2-methoxy-2-methyl- | 1200 | JB | 2.14 | ug/Kg |
| 000119-61-9 | Benzophenone                | 320  | J  | 10.6 | ug/Kg |
| 000057-10-3 | n-Hexadecanoic acid         | 130  | J  | 11.9 | ug/Kg |
| 010192-32-2 | 1-Tetracosene               | 150  | J  | 13.9 | ug/Kg |

## Report of Analysis

|                    |                            |                  |                 |                  |      |
|--------------------|----------------------------|------------------|-----------------|------------------|------|
| Client:            | Tetra Tech                 |                  | Date Collected: | 11/14/24         |      |
| Project:           | Ocean County Landfill 2024 |                  | Date Received:  | 11/14/24         |      |
| Client Sample ID:  | PH2-BOT-007                |                  | SDG No.:        | P4860            |      |
| Lab Sample ID:     | P4860-08                   |                  | Matrix:         | SOIL             |      |
| Analytical Method: | SW8270                     |                  | % Solid:        | 98               |      |
| Sample Wt/Vol:     | 30.05                      | 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 |
| BF140578.D        | 1         | 11/16/24 08:51 | 11/22/24 15:32 | PB165029      |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|------------|-----------|-------|-----------|-----|------------|-------------------|
|------------|-----------|-------|-----------|-----|------------|-------------------|

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