

## Report of Analysis

|                    |               |                 |                  |
|--------------------|---------------|-----------------|------------------|
| Client:            | PSEG          | Date Collected: | 01/13/25         |
| Project:           | Brooklawn M&R | Date Received:  | 01/13/25         |
| Client Sample ID:  | ARS20-0006    | SDG No.:        | Q1076            |
| Lab Sample ID:     | Q1076-01      | Matrix:         | SOIL             |
| Analytical Method: | SW8270        | % Solid:        | 90.3             |
| Sample Wt/Vol:     | 50.03         | Units:          | g                |
| Soil Aliquot Vol:  |               |                 | uL               |
| Extraction Type :  |               | Decanted :      | N                |
| Injection Volume : |               | GPC Factor :    | 1.0              |
| Prep Method :      | SW3541        | Level :         | LOW              |
|                    |               | Test:           | SVOC-TCL BNA -20 |
|                    |               | Final Vol:      | 1000             |
|                    |               | PH :            |                  |
|                    |               | GPC Cleanup :   | N                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF141157.D        | 1         | 01/14/25 08:55 | 01/14/25 20:23 | PB166045      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|-------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |       |            |                   |
| 100-52-7       | Benzaldehyde                | 0.22  | U         | 0.12  | 0.22       | mg/Kg             |
| 108-95-2       | Phenol                      | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.11  | U         | 0.056 | 0.11       | mg/Kg             |
| 95-57-8        | 2-Chlorophenol              | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 95-48-7        | 2-Methylphenol              | 0.11  | U         | 0.054 | 0.11       | mg/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 0.11  | U         | 0.060 | 0.11       | mg/Kg             |
| 98-86-2        | Acetophenone                | 0.11  | U         | 0.058 | 0.11       | mg/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 0.22  | U         | 0.053 | 0.22       | mg/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 0.053 | U         | 0.027 | 0.053      | mg/Kg             |
| 67-72-1        | Hexachloroethane            | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 98-95-3        | Nitrobenzene                | 0.11  | U         | 0.060 | 0.11       | mg/Kg             |
| 78-59-1        | Isophorone                  | 0.11  | U         | 0.056 | 0.11       | mg/Kg             |
| 88-75-5        | 2-Nitrophenol               | 0.11  | U         | 0.063 | 0.11       | mg/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 0.11  | U         | 0.062 | 0.11       | mg/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.11  | U         | 0.057 | 0.11       | mg/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 0.11  | U         | 0.050 | 0.11       | mg/Kg             |
| 91-20-3        | Naphthalene                 | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 106-47-8       | 4-Chloroaniline             | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 105-60-2       | Caprolactam                 | 0.22  | U         | 0.058 | 0.22       | mg/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.11  | U         | 0.052 | 0.11       | mg/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 0.22  | U         | 0.10  | 0.22       | mg/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.11  | U         | 0.047 | 0.11       | mg/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.11  | U         | 0.049 | 0.11       | mg/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 0.11  | U         | 0.058 | 0.11       | mg/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 88-74-4        | 2-Nitroaniline              | 0.11  | U         | 0.063 | 0.11       | mg/Kg             |
| 131-11-3       | Dimethylphthalate           | 0.11  | U         | 0.054 | 0.11       | mg/Kg             |

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| Client Sample ID:  | ARS20-0006             | SDG No.:        | Q1076                        |
| Lab Sample ID:     | Q1076-01               | Matrix:         | SOIL                         |
| Analytical Method: | SW8270                 | % Solid:        | 90.3                         |
| Sample Wt/Vol:     | 50.03      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                 |                 |                              |

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| BF141157.D        | 1         | 01/14/25 08:55 | 01/14/25 20:23 | PB166045      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 0.11  | U         | 0.057 | 0.11       | mg/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.11  | U         | 0.055 | 0.11       | mg/Kg             |
| 99-09-2    | 3-Nitroaniline             | 0.11  | U         | 0.059 | 0.11       | mg/Kg             |
| 83-32-9    | Acenaphthene               | 0.11  | U         | 0.054 | 0.11       | mg/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 0.22  | U         | 0.16  | 0.22       | mg/Kg             |
| 100-02-7   | 4-Nitrophenol              | 0.22  | U         | 0.077 | 0.22       | mg/Kg             |
| 132-64-9   | Dibenzofuran               | 0.11  | U         | 0.056 | 0.11       | mg/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 0.11  | U         | 0.057 | 0.11       | mg/Kg             |
| 84-66-2    | Diethylphthalate           | 0.11  | U         | 0.053 | 0.11       | mg/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.11  | U         | 0.057 | 0.11       | mg/Kg             |
| 86-73-7    | Fluorene                   | 0.11  | U         | 0.057 | 0.11       | mg/Kg             |
| 100-01-6   | 4-Nitroaniline             | 0.11  | U         | 0.071 | 0.11       | mg/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 0.22  | U         | 0.078 | 0.22       | mg/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.11  | U         | 0.054 | 0.11       | mg/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.11  | U         | 0.052 | 0.11       | mg/Kg             |
| 118-74-1   | Hexachlorobenzene          | 0.11  | U         | 0.056 | 0.11       | mg/Kg             |
| 1912-24-9  | Atrazine                   | 0.11  | U         | 0.061 | 0.11       | mg/Kg             |
| 87-86-5    | Pentachlorophenol          | 0.22  | U         | 0.051 | 0.22       | mg/Kg             |
| 85-01-8    | Phenanthrene               | 0.53  |           | 0.056 | 0.11       | mg/Kg             |
| 120-12-7   | Anthracene                 | 0.24  |           | 0.056 | 0.11       | mg/Kg             |
| 86-74-8    | Carbazole                  | 0.11  | U         | 0.053 | 0.11       | mg/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 0.11  | U         | 0.056 | 0.11       | mg/Kg             |
| 206-44-0   | Fluoranthene               | 1.50  |           | 0.054 | 0.11       | mg/Kg             |
| 129-00-0   | Pyrene                     | 0.89  |           | 0.055 | 0.11       | mg/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 0.11  | U         | 0.064 | 0.11       | mg/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.22  | U         | 0.066 | 0.22       | mg/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 0.67  |           | 0.054 | 0.11       | mg/Kg             |
| 218-01-9   | Chrysene                   | 0.53  |           | 0.053 | 0.11       | mg/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 0.14  |           | 0.060 | 0.11       | mg/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 0.22  | U         | 0.073 | 0.22       | mg/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 0.48  |           | 0.054 | 0.11       | mg/Kg             |

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| Client Sample ID:  | ARS20-0006          | SDG No.:        | Q1076            |
| Lab Sample ID:     | Q1076-01            | Matrix:         | SOIL             |
| Analytical Method: | SW8270              | % Solid:        | 90.3             |
| Sample Wt/Vol:     | 50.03      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              |                 |                  |

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|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 0.28  |           | 0.055 | 0.11       | mg/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 0.40  |           | 0.062 | 0.11       | mg/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 0.11  |           | 0.052 | 0.11       | mg/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 0.11  | U         | 0.054 | 0.11       | mg/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 0.11  |           | 0.053 | 0.11       | mg/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 0.11  | U         | 0.058 | 0.11       | mg/Kg             |
| 123-91-1   | 1,4-Dioxane                | 0.11  | U         | 0.073 | 0.11       | mg/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 0.11  | U         | 0.050 | 0.11       | mg/Kg             |

### SURROGATES

|            |                      |      |  |          |     |          |
|------------|----------------------|------|--|----------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 39.4 |  | 18 - 112 | 26% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 58.5 |  | 15 - 107 | 39% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 52.1 |  | 18 - 107 | 52% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 58.7 |  | 20 - 109 | 59% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 65.1 |  | 10 - 116 | 43% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 41.6 |  | 10 - 105 | 42% | SPK: 100 |

### INTERNAL STANDARDS

|            |                        |        |        |
|------------|------------------------|--------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 164000 | 6.822  |
| 1146-65-2  | Naphthalene-d8         | 637000 | 8.098  |
| 15067-26-2 | Acenaphthene-d10       | 302000 | 9.857  |
| 1517-22-2  | Phenanthrene-d10       | 385000 | 11.345 |
| 1719-03-5  | Chrysene-d12           | 319000 | 13.986 |
| 1520-96-3  | Perylene-d12           | 357000 | 15.451 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                                    |      |   |      |       |
|-------------|------------------------------------|------|---|------|-------|
| 002916-31-6 | 1,3-Dioxolane, 2,2-dimethyl-       | 51.1 | J | 2.30 | ug/Kg |
| 000111-46-6 | Ethanol, 2,2-oxybis-               | 180  | J | 6.70 | ug/Kg |
|             | unknown9.257                       | 60.7 | J | 9.26 | ug/Kg |
|             | unknown9.569                       | 71.1 | J | 9.57 | ug/Kg |
| 000293-96-9 | Cyclodecane                        | 81.9 | J | 9.67 | ug/Kg |
| 019780-11-1 | 2-Dodecen-1-yl(-)succinic anhydrid | 95.2 | J | 9.73 | ug/Kg |
|             | unknown9.769                       | 110  | J | 9.77 | ug/Kg |

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| 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                 |                 |                              |

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|--------------|------------------------------------|-------|-----------|-----|------------|-------------------|
| 000143-07-7  | Dodecanoic acid                    | 140   | J         |     | 10.1       | ug/Kg             |
| 001502-38-1  | Cyclooctane, methyl-               | 290   | J         |     | 10.2       | ug/Kg             |
| 1000185-18-6 | 1-(1-Ethyl-2,3-dimethyl-cyclopent- | 110   | J         |     | 10.3       | ug/Kg             |
| 000057-10-3  | n-Hexadecanoic acid                | 440   | J         |     | 11.9       | ug/Kg             |
| 000057-11-4  | Octadecanoic acid                  | 300   | J         |     | 12.7       | ug/Kg             |
| 000192-97-2  | Benzo[e]pyrene                     | 270   | J         |     | 15.3       | ug/Kg             |

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