

## Report of Analysis

|                    |                                             |                 |                  |
|--------------------|---------------------------------------------|-----------------|------------------|
| Client:            | PSEG                                        | Date Collected: | 01/30/25         |
| Project:           | Orange Gas and Appliance Service MA00006789 | Date Received:  | 01/30/25         |
| Client Sample ID:  | EO-02-01302025                              | SDG No.:        | Q1244            |
| Lab Sample ID:     | Q1244-01                                    | Matrix:         | SOIL             |
| Analytical Method: | SW8270                                      | % Solid:        | 93.9             |
| Sample Wt/Vol:     | 50.06                                       | Units:          | g                |
| Soil Aliquot Vol:  |                                             | Final Vol:      | 1000 uL          |
| Extraction Type :  |                                             | Test:           | SVOC-TCL BNA -20 |
|                    | Decanted :                                  | Level :         | LOW              |
| Injection Volume : | GPC Factor :                                | GPC Cleanup :   | N PH :           |
| Prep Method :      | SW3541                                      |                 |                  |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF141358.D        | 2         | 01/31/25 10:20 | 02/01/25 03:11 | PB166418      |

| CAS Number     | Parameter                   | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|----------------|-----------------------------|-------|-----------|-------|------------|-------------------|
| <b>TARGETS</b> |                             |       |           |       |            |                   |
| 100-52-7       | Benzaldehyde                | 0.23  | U         | 0.23  | 0.42       | mg/Kg             |
| 108-95-2       | Phenol                      | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 111-44-4       | bis(2-Chloroethyl)ether     | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 95-57-8        | 2-Chlorophenol              | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 95-48-7        | 2-Methylphenol              | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 108-60-1       | 2,2-oxybis(1-Chloropropane) | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 98-86-2        | Acetophenone                | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 65794-96-9     | 3+4-Methylphenols           | 0.10  | U         | 0.10  | 0.42       | mg/Kg             |
| 621-64-7       | n-Nitroso-di-n-propylamine  | 0.051 | U         | 0.051 | 0.10       | mg/Kg             |
| 67-72-1        | Hexachloroethane            | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 98-95-3        | Nitrobenzene                | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 78-59-1        | Isophorone                  | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 88-75-5        | 2-Nitrophenol               | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 105-67-9       | 2,4-Dimethylphenol          | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 111-91-1       | bis(2-Chloroethoxy)methane  | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 120-83-2       | 2,4-Dichlorophenol          | 0.096 | U         | 0.096 | 0.22       | mg/Kg             |
| 91-20-3        | Naphthalene                 | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 106-47-8       | 4-Chloroaniline             | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 87-68-3        | Hexachlorobutadiene         | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 105-60-2       | Caprolactam                 | 0.11  | U         | 0.11  | 0.42       | mg/Kg             |
| 59-50-7        | 4-Chloro-3-methylphenol     | 0.099 | U         | 0.099 | 0.22       | mg/Kg             |
| 91-57-6        | 2-Methylnaphthalene         | 0.13  | J         | 0.11  | 0.22       | mg/Kg             |
| 77-47-4        | Hexachlorocyclopentadiene   | 0.20  | U         | 0.20  | 0.42       | mg/Kg             |
| 88-06-2        | 2,4,6-Trichlorophenol       | 0.091 | U         | 0.091 | 0.22       | mg/Kg             |
| 95-95-4        | 2,4,5-Trichlorophenol       | 0.095 | U         | 0.095 | 0.22       | mg/Kg             |
| 92-52-4        | 1,1-Biphenyl                | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 91-58-7        | 2-Chloronaphthalene         | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 88-74-4        | 2-Nitroaniline              | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 131-11-3       | Dimethylphthalate           | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |

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| Client Sample ID:  | EO-02-01302025                              | SDG No.:        | Q1244            |
| Lab Sample ID:     | Q1244-01                                    | Matrix:         | SOIL             |
| Analytical Method: | SW8270                                      | % Solid:        | 93.9             |
| Sample Wt/Vol:     | 50.06 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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| BF141358.D        | 2         | 01/31/25 10:20 | 02/01/25 03:11 | PB166418      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 208-96-8   | Acenaphthylene             | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 606-20-2   | 2,6-Dinitrotoluene         | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 99-09-2    | 3-Nitroaniline             | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 83-32-9    | Acenaphthene               | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 51-28-5    | 2,4-Dinitrophenol          | 0.31  | U         | 0.31  | 0.42       | mg/Kg             |
| 100-02-7   | 4-Nitrophenol              | 0.15  | U         | 0.15  | 0.42       | mg/Kg             |
| 132-64-9   | Dibenzofuran               | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 121-14-2   | 2,4-Dinitrotoluene         | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 84-66-2    | Diethylphthalate           | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 7005-72-3  | 4-Chlorophenyl-phenylether | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 86-73-7    | Fluorene                   | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 100-01-6   | 4-Nitroaniline             | 0.14  | U         | 0.14  | 0.22       | mg/Kg             |
| 534-52-1   | 4,6-Dinitro-2-methylphenol | 0.15  | U         | 0.15  | 0.42       | mg/Kg             |
| 86-30-6    | n-Nitrosodiphenylamine     | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 101-55-3   | 4-Bromophenyl-phenylether  | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 118-74-1   | Hexachlorobenzene          | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 1912-24-9  | Atrazine                   | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 87-86-5    | Pentachlorophenol          | 0.099 | U         | 0.099 | 0.42       | mg/Kg             |
| 85-01-8    | Phenanthrene               | 0.16  | J         | 0.11  | 0.22       | mg/Kg             |
| 120-12-7   | Anthracene                 | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 86-74-8    | Carbazole                  | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 84-74-2    | Di-n-butylphthalate        | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 206-44-0   | Fluoranthene               | 0.30  |           | 0.10  | 0.22       | mg/Kg             |
| 129-00-0   | Pyrene                     | 0.23  |           | 0.11  | 0.22       | mg/Kg             |
| 85-68-7    | Butylbenzylphthalate       | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 91-94-1    | 3,3-Dichlorobenzidine      | 0.13  | U         | 0.13  | 0.42       | mg/Kg             |
| 56-55-3    | Benzo(a)anthracene         | 0.13  | J         | 0.10  | 0.22       | mg/Kg             |
| 218-01-9   | Chrysene                   | 0.12  | J         | 0.10  | 0.22       | mg/Kg             |
| 117-81-7   | Bis(2-ethylhexyl)phthalate | 0.12  | U         | 0.12  | 0.22       | mg/Kg             |
| 117-84-0   | Di-n-octyl phthalate       | 0.14  | U         | 0.14  | 0.42       | mg/Kg             |
| 205-99-2   | Benzo(b)fluoranthene       | 0.14  | J         | 0.10  | 0.22       | mg/Kg             |

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| Client Sample ID:  | EO-02-01302025                              | SDG No.:        | Q1244            |
| Lab Sample ID:     | Q1244-01                                    | Matrix:         | SOIL             |
| Analytical Method: | SW8270                                      | % Solid:        | 93.9             |
| Sample Wt/Vol:     | 50.06 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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| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BF141358.D        | 2         | 01/31/25 10:20 | 02/01/25 03:11 | PB166418      |

| CAS Number | Parameter                  | Conc. | Qualifier | MDL   | LOQ / CRQL | Units(Dry Weight) |
|------------|----------------------------|-------|-----------|-------|------------|-------------------|
| 207-08-9   | Benzo(k)fluoranthene       | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 50-32-8    | Benzo(a)pyrene             | 0.12  | J         | 0.12  | 0.22       | mg/Kg             |
| 193-39-5   | Indeno(1,2,3-cd)pyrene     | 0.100 | U         | 0.100 | 0.22       | mg/Kg             |
| 53-70-3    | Dibenzo(a,h)anthracene     | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 191-24-2   | Benzo(g,h,i)perylene       | 0.10  | U         | 0.10  | 0.22       | mg/Kg             |
| 95-94-3    | 1,2,4,5-Tetrachlorobenzene | 0.11  | U         | 0.11  | 0.22       | mg/Kg             |
| 123-91-1   | 1,4-Dioxane                | 0.14  | U         | 0.14  | 0.22       | mg/Kg             |
| 58-90-2    | 2,3,4,6-Tetrachlorophenol  | 0.095 | U         | 0.095 | 0.22       | mg/Kg             |

### SURROGATES

|            |                      |      |  |          |     |          |
|------------|----------------------|------|--|----------|-----|----------|
| 367-12-4   | 2-Fluorophenol       | 74.7 |  | 18 - 112 | 50% | SPK: 150 |
| 13127-88-3 | Phenol-d6            | 65.0 |  | 15 - 107 | 43% | SPK: 150 |
| 4165-60-0  | Nitrobenzene-d5      | 56.1 |  | 18 - 107 | 56% | SPK: 100 |
| 321-60-8   | 2-Fluorobiphenyl     | 46.3 |  | 20 - 109 | 46% | SPK: 100 |
| 118-79-6   | 2,4,6-Tribromophenol | 73.3 |  | 10 - 116 | 49% | SPK: 150 |
| 1718-51-0  | Terphenyl-d14        | 46.4 |  | 10 - 105 | 46% | SPK: 100 |

### INTERNAL STANDARDS

|            |                        |        |        |
|------------|------------------------|--------|--------|
| 3855-82-1  | 1,4-Dichlorobenzene-d4 | 91600  | 6.798  |
| 1146-65-2  | Naphthalene-d8         | 278000 | 8.081  |
| 15067-26-2 | Acenaphthene-d10       | 143000 | 9.834  |
| 1517-22-2  | Phenanthrene-d10       | 272000 | 11.322 |
| 1719-03-5  | Chrysene-d12           | 206000 | 13.969 |
| 1520-96-3  | Perylene-d12           | 161000 | 15.427 |

### TENTATIVE IDENTIFIED COMPOUNDS

|             |                                |      |   |      |       |
|-------------|--------------------------------|------|---|------|-------|
| 000124-18-5 | Decane                         | 1500 | J | 6.64 | ug/Kg |
|             | unknown7.075                   | 580  | J | 7.08 | ug/Kg |
| 001758-88-9 | Benzene, 2-ethyl-1,4-dimethyl- | 490  | J | 7.12 | ug/Kg |
| 000544-76-3 | Hexadecane                     | 360  | J | 7.14 | ug/Kg |
| 013151-34-3 | Decane, 3-methyl-              | 620  | J | 7.19 | ug/Kg |
| 061141-72-8 | Dodecane, 4,6-dimethyl-        | 300  | J | 8.50 | ug/Kg |
| 000629-50-5 | Tridecane                      | 760  | J | 8.68 | ug/Kg |

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| Client Sample ID:  | EO-02-01302025                              | SDG No.:        | Q1244                        |
| Lab Sample ID:     | Q1244-01                                    | Matrix:         | SOIL                         |
| Analytical Method: | SW8270                                      | % Solid:        | 93.9                         |
| Sample Wt/Vol:     | 50.06      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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| BF141358.D        | 2         | 01/31/25 10:20 | 02/01/25 03:11 | PB166418      |

| CAS Number   | Parameter                          | Conc. | Qualifier | MDL | LOQ / CRQL | Units(Dry Weight) |
|--------------|------------------------------------|-------|-----------|-----|------------|-------------------|
| 000593-49-7  | Heptacosane                        | 550   | J         |     | 9.04       | ug/Kg             |
| 017312-57-1  | Dodecane, 3-methyl-                | 320   | J         |     | 9.08       | ug/Kg             |
| 074645-98-0  | Dodecane, 2,7,10-trimethyl-        | 1100  | J         |     | 9.10       | ug/Kg             |
| 000629-59-4  | Tetradecane                        | 3400  | J         |     | 9.24       | ug/Kg             |
| 019218-94-1  | Tetradecane, 1-iodo-               | 1000  | J         |     | 9.56       | ug/Kg             |
|              | unknown9.616                       | 290   | J         |     | 9.62       | ug/Kg             |
| 000629-62-9  | Pentadecane                        | 2100  | J         |     | 9.78       | ug/Kg             |
| 1000309-18-4 | Sulfurous acid, butyl heptadecyl e | 300   | J         |     | 10.1       | ug/Kg             |
| 000629-78-7  | Heptadecane                        | 1300  | J         |     | 10.3       | ug/Kg             |
| 003892-00-0  | Pentadecane, 2,6,10-trimethyl-     | 420   | J         |     | 10.5       | ug/Kg             |
| 000629-92-5  | Nonadecane                         | 990   | J         |     | 10.7       | ug/Kg             |
| 000593-45-3  | Octadecane                         | 340   | J         |     | 11.2       | ug/Kg             |
| 000112-62-9  | 9-Octadecenoic acid (Z)-, methyl e | 380   | J         |     | 12.4       | 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