

## Report of Analysis

|                    |                 |                 |          |
|--------------------|-----------------|-----------------|----------|
| Client:            | PSEG            | Date Collected: | 04/16/25 |
| Project:           | PL-714 Watchung | Date Received:  | 04/17/25 |
| Client Sample ID:  | PL-714-01       | SDG No.:        | Q1832    |
| Lab Sample ID:     | Q1832-03        | Matrix:         | Solid    |
| Analytical Method: | NJEPH           | % Solid:        | 80.9     |
| Sample Wt/Vol:     | 30.04           | Units:          | g        |
| Soil Aliquot Vol:  |                 | Final Vol:      | 2000 uL  |
| Prep Method :      |                 | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/18/25 10:00 | 04/21/25 12:32  | PB167646      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 68.6  |           | 5        | 7.28 | 12.3       | mg/kg FC068653.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 164   |           | 5        | 5.62 | 24.7       | mg/kg FC068653.D  |
| Total AliphaticEPH | Total AliphaticEPH | 233   |           |          | 12.9 | 37.0       | mg/kg             |
| Total EPH          | Total EPH          | 233   |           |          | 12.9 | 37.0       | mg/kg             |

\* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

## Report of Analysis

|                    |                        |                 |                      |
|--------------------|------------------------|-----------------|----------------------|
| Client:            | PSEG                   | Date Collected: | 04/16/25             |
| Project:           | PL-714 Watchung        | Date Received:  | 04/17/25             |
| Client Sample ID:  | PL-714-01              | SDG No.:        | Q1832                |
| Lab Sample ID:     | Q1832-03               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 80.9                 |
| Sample Wt/Vol:     | 30.04      Units:    g | Final Vol:      | 2000              uL |
| Soil Aliquot Vol:  | uL                     | Test:           | EPH_NF               |
| Prep Method :      |                        |                 |                      |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FC068652.D | 1         | 04/18/25    | 04/21/25        | PB167646      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 174   | E         | 1.12     | 4.93       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 67.5  | E         | 1.46     | 2.47       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 59.1  |           | 40 - 140 | 118%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 35.9  |           | 40 - 140 | 72%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1832-03   | Acq On:            | 21 Apr 2025 11:56 |
| Client Sample ID: | PL-714-01  | Operator:          | YP/AJ             |
| Data file:        | FC068652.D | Misc:              |                   |
| Instrument:       | FID_C      | ALS Vial:          | 11                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.346  | 6.647  | 730079    | 6.935   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.648  | 10.048 | 8687326   | 84.901  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.049 | 13.416 | 92923516  | 940.364 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.417 | 17.083 | 101571165 | 1080    | 400              | ug/ml |
| Aliphatic C28-C40         | 17.084 | 22.092 | 73748701  | 820.498 | 600              | ug/ml |
| Aliphatic EPH             | 3.346  | 22.092 | 277660787 | 2930    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.721 | 11.721 | 4571728   | 35.9    |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.156 | 13.156 | 5486219   | 59.06   |                  | ug/ml |
| Aliphatic C9-C28          | 3.346  | 17.083 | 203912086 | 2110    | 1200             | ug/ml |