

## Report of Analysis

|                    |                     |                 |          |
|--------------------|---------------------|-----------------|----------|
| Client:            | PSEG                | Date Collected: | 03/05/25 |
| Project:           | Waldwick Substation | Date Received:  | 03/05/25 |
| Client Sample ID:  | SOIL-COMP           | SDG No.:        | Q1494    |
| Lab Sample ID:     | Q1494-07            | Matrix:         | Solid    |
| Analytical Method: | NJEPH               | % Solid:        | 93.6     |
| Sample Wt/Vol:     | 30.07               | Units:          | g        |
| Soil Aliquot Vol:  |                     |                 | uL       |
| Prep Method :      |                     | Final Vol:      | 2000     |
|                    |                     | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 03/06/25 09:40 | 03/06/25 17:49  | PB167013      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 8.12  |           | 1        | 1.92 | 2.13       | mg/kg             | FE052665.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 1100  |           | 25       | 45.8 | 107        | mg/kg             | FE052674.D |
| Total AliphaticEPH | Total AliphaticEPH | 1110  |           |          | 47.7 | 109        | mg/kg             |            |
| Total EPH          | Total EPH          | 1110  |           |          | 47.7 | 109        | 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

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| Lab Sample ID:     | Q1494-07               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 93.6                 |
| Sample Wt/Vol:     | 30.07      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 |
| FE052665.D | 1         | 03/06/25    | 03/06/25        | PB167013      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 954   | E         | 1.83     | 4.27       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 8.12  |           | 1.92     | 2.13       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 36.2  |           | 40 - 140 | 72%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 40.2  |           | 40 - 140 | 80%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1494-07   | Acq On:            | 06 Mar 2025 17:49 |
| Client Sample ID: | SOIL-COMP  | Operator:          | YP\AJ             |
| Data file:        | FE052665.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 19                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response   | Conc    | highest_standard | Units |
|---------------------------|--------|--------|------------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.153  | 6.798  | 819659     | 5.256   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.799  | 10.252 | 300545613  | 1980    | 200              | ug/ml |
| Aliphatic C16-C21         | 10.253 | 13.632 | 1223157183 | 8350    | 300              | ug/ml |
| Aliphatic C21-C28         | 13.633 | 17.306 | 443608025  | 3110    | 400              | ug/ml |
| Aliphatic C28-C40         | 17.307 | 22.230 | 14582354   | 114.292 | 600              | ug/ml |
| Aliphatic EPH             | 3.153  | 22.230 | 1982712834 | 13600   |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.932 | 11.932 | 6777606    | 40.2    |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.378 | 13.378 | 4395107    | 36.2    |                  | ug/ml |
| Aliphatic C9-C28          | 3.153  | 17.306 | 1968130480 | 13400   | 1200             | ug/ml |