

## Report of Analysis

|                    |                      |                 |          |
|--------------------|----------------------|-----------------|----------|
| Client:            | PSEG                 | Date Collected: | 08/22/25 |
| Project:           | North Ave Substation | Date Received:  | 08/22/25 |
| Client Sample ID:  | 235-E2               | SDG No.:        | Q2947    |
| Lab Sample ID:     | Q2947-04             | Matrix:         | Solid    |
| Analytical Method: | NJEPH                | % Solid:        | 98       |
| 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 |
| 08/25/25 08:20 | 08/26/25 12:24  | PB169369      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 157   |           | 10       | 12.0 | 20.4       | mg/kg FE055503.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2220  |           | 100      | 92.7 | 405        | mg/kg FE055504.D  |
| Total AliphaticEPH | Total AliphaticEPH | 2380  |           |          | 105  | 425        | mg/kg             |
| Total EPH          | Total EPH          | 2380  |           |          | 105  | 425        | 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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|--------------------|------------------------|-----------------|----------------------|
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| Lab Sample ID:     | Q2947-04               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 98                   |
| 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 |
| FE055486.D | 1         | 08/25/25    | 08/25/25        | PB169369      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2160  | E         | 0.93     | 4.08       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 158   | E         | 1.20     | 2.04       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 0.00  |           | 40 - 140 | 0%         | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q2947-04   | Acq On:            | 25 Aug 2025 16:49 |
| Client Sample ID: | 235-E2     | Operator:          | YP\AJ             |
| Data file:        | FE055486.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 23                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response   | Conc    | highest_standard | Units |
|---------------------------|--------|--------|------------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.318  | 6.954  | 2961450    | 25.359  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.955  | 10.408 | 116108974  | 927.188 | 200              | ug/ml |
| Aliphatic C16-C21         | 10.409 | 13.788 | 2316614115 | 18300   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.789 | 17.461 | 1509500871 | 12500   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.462 | 22.488 | 266478688  | 2340    | 600              | ug/ml |
| Aliphatic EPH             | 3.318  | 22.488 | 4211664098 | 34100   |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 0.000  | 0.000  | 0          | 0       |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 0.000  | 0.000  | 0          | 0       |                  | ug/ml |
| Aliphatic C9-C28          | 3.318  | 17.461 | 3945185410 | 31900   | 1200             | ug/ml |