

## Report of Analysis

|                    |                            |                 |          |
|--------------------|----------------------------|-----------------|----------|
| Client:            | PSEG                       | Date Collected: | 08/27/25 |
| Project:           | Locust Street 69kV Breaker | Date Received:  | 08/27/25 |
| Client Sample ID:  | TP11-B                     | SDG No.:        | Q2970    |
| Lab Sample ID:     | Q2970-09                   | Matrix:         | Solid    |
| Analytical Method: | NJEPH                      | % Solid:        | 92.4     |
| Sample Wt/Vol:     | 30.06                      | Units:          | g        |
| Soil Aliquot Vol:  |                            | Final Vol:      | 2000 uL  |
| Prep Method :      |                            | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 08/28/25 10:00 | 08/29/25 6:45   | PB169430      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 4.59  |           | 1        | 1.27 | 2.16       | mg/kg             | FE055583.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2.21  | J         | 1        | 0.98 | 4.32       | mg/kg             | FE055583.D |
| Total AliphaticEPH | Total AliphaticEPH | 6.80  |           |          | 2.25 | 6.48       | mg/kg             |            |
| Total EPH          | Total EPH          | 6.80  |           |          | 2.25 | 6.48       | 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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| Client Sample ID:  | TP11-B                     | SDG No.:        | Q2970                |
| Lab Sample ID:     | Q2970-09                   | Matrix:         | Solid                |
| Analytical Method: | NJEPH                      | % Solid:        | 92.4                 |
| Sample Wt/Vol:     | 30.06      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 |
| FE055583.D | 1         | 08/28/25    | 08/29/25        | PB169430      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2.21  | J         | 0.98     | 4.32       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 4.59  |           | 1.27     | 2.16       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 32.5  |           | 40 - 140 | 65%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 30.9  |           | 40 - 140 | 62%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q2970-09   | Acq On:            | 29 Aug 2025 06:45 |
| Client Sample ID: | TP11-B     | Operator:          | YP\AJ             |
| Data file:        | FE055583.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 39                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc   | highest_standard | Units |
|---------------------------|--------|--------|----------|--------|------------------|-------|
| Aliphatic C9-C12          | 3.314  | 6.948  | 549344   | 4.278  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.949  | 10.400 | 951784   | 7.045  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.401 | 13.779 | 1054348  | 7.311  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.780 | 17.450 | 1722456  | 12.025 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.451 | 22.465 | 8772220  | 63.696 | 600              | ug/ml |
| Aliphatic EPH             | 3.314  | 22.465 | 13050152 | 94.356 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 12.076 | 12.076 | 5085145  | 30.95  |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.512 | 13.512 | 4067598  | 32.53  |                  | ug/ml |
| Aliphatic C9-C28          | 3.314  | 17.450 | 4277932  | 30.659 | 1200             | ug/ml |