

## Report of Analysis

|                    |                       |                 |          |
|--------------------|-----------------------|-----------------|----------|
| Client:            | PSEG                  | Date Collected: | 03/26/25 |
| Project:           | NYE Avenue Substation | Date Received:  | 03/26/25 |
| Client Sample ID:  | TP-6                  | SDG No.:        | Q1662    |
| Lab Sample ID:     | Q1662-01              | Matrix:         | Solid    |
| Analytical Method: | NJEPH                 | % Solid:        | 89.7     |
| 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 |
| 03/27/25 09:55 | 03/27/25 19:53  | PB167350      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 4.85  |           | 1        | 1.31 | 2.23       | mg/kg             | FE053027.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 3.89  | J         | 1        | 1.01 | 4.44       | mg/kg             | FE053027.D |
| Total AliphaticEPH | Total AliphaticEPH | 8.74  |           |          | 2.32 | 6.67       | mg/kg             |            |
| Total EPH          | Total EPH          | 8.74  |           |          | 2.32 | 6.67       | 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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|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FE053027.D | 1         | 03/27/25    | 03/27/25        | PB167350      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 3.89  | J         | 1.01     | 4.44       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 4.85  |           | 1.31     | 2.23       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 34.3  |           | 40 - 140 | 68%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 32.2  |           | 40 - 140 | 64%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1662-01   | Acq On:            | 27 Mar 2025 19:53 |
| Client Sample ID: | TP-6       | Operator:          | YP\AJ             |
| Data file:        | FE053027.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          | 3.143  | 6.785  | 1018872  | 6.533   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.786  | 10.236 | 814686   | 5.356   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.237 | 13.612 | 4722703  | 32.226  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.613 | 17.282 | 1184032  | 8.312   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.283 | 22.191 | 8341512  | 65.378  | 600              | ug/ml |
| Aliphatic EPH             | 3.143  | 22.191 | 16081805 | 117.806 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.898 | 11.898 | 5425432  | 32.18   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.343 | 13.343 | 4159359  | 34.25   |                  | ug/ml |
| Aliphatic C9-C28          | 3.143  | 17.282 | 7740293  | 52.427  | 1200             | ug/ml |