

## Report of Analysis

|                    |                      |                 |              |
|--------------------|----------------------|-----------------|--------------|
| Client:            | PSEG                 | Date Collected: | 02/24/25     |
| Project:           | PSEG 278 Oraton Pkwy | Date Received:  | 02/24/25     |
| Client Sample ID:  | TP-1-WC-EPH          | SDG No.:        | Q1420        |
| Lab Sample ID:     | Q1420-02             | Matrix:         | Solid        |
| Analytical Method: | NJEPH                | % Solid:        | 89.5         |
| Sample Wt/Vol:     | 30.01      Units: g  | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                   | Test:           | EPH_NF       |
| Prep Method :      |                      |                 |              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 02/25/25 08:35 | 02/25/25 18:49  | PB166852      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 14.2  |           | 1        | 2.01 | 2.23       | mg/kg             | FE052498.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2.98  | J         | 1        | 1.92 | 4.47       | mg/kg             | FE052498.D |
| Total AliphaticEPH | Total AliphaticEPH | 17.2  |           |          | 3.93 | 6.71       | mg/kg             |            |
| Total EPH          | Total EPH          | 17.2  |           |          | 3.93 | 6.71       | 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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| Project:           | PSEG 278 Oraton Pkwy   | Date Received:  | 02/24/25             |
| Client Sample ID:  | TP-1-WC-EPH            | SDG No.:        | Q1420                |
| Lab Sample ID:     | Q1420-02               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 89.5                 |
| Sample Wt/Vol:     | 30.01      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 |
| FE052498.D | 1         | 02/25/25    | 02/25/25        | PB166852      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2.98  | J         | 1.92     | 4.47       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 14.2  |           | 2.01     | 2.23       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 32.0  |           | 40 - 140 | 64%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 29.6  |           | 40 - 140 | 59%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |             |                    |                   |
|-------------------|-------------|--------------------|-------------------|
| Lab Sample ID:    | Q1420-02    | Acq On:            | 25 Feb 2025 18:49 |
| Client Sample ID: | TP-1-WC-EPH | Operator:          | YP\AJ             |
| Data file:        | FE052498.D  | Misc:              |                   |
| Instrument:       | FID_E       | ALS Vial:          | 22                |
| Dilution Factor:  | 1           | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.155  | 6.800  | 977851   | 6.275   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.801  | 10.255 | 1223806  | 7.626   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.256 | 13.635 | 1786994  | 11.133  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.636 | 17.309 | 2332618  | 15.01   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.310 | 22.233 | 24892538 | 190.042 | 600              | ug/ml |
| Aliphatic EPH             | 3.155  | 22.233 | 31213807 | 230.085 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.921 | 11.921 | 5539710  | 29.63   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.366 | 13.366 | 4445706  | 31.98   |                  | ug/ml |
| Aliphatic C9-C28          | 3.155  | 17.309 | 6321269  | 40.044  | 1200             | ug/ml |