

## Report of Analysis

|                    |                                |                 |              |
|--------------------|--------------------------------|-----------------|--------------|
| Client:            | PSEG                           | Date Collected: | 05/07/25     |
| Project:           | OR-636 Oradell and New Milford | Date Received:  | 05/08/25     |
| Client Sample ID:  | OR-636-26                      | SDG No.:        | Q1983        |
| Lab Sample ID:     | Q1983-52                       | Matrix:         | Solid        |
| Analytical Method: | NJEPH                          | % Solid:        | 86.5         |
| Sample Wt/Vol:     | 30.09      Units: g            | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                             | Test:           | EPH_NF       |
| Prep Method :      |                                |                 |              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 05/12/25 08:30 | 05/12/25 17:06  | PB167945      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 3.70  |           | 1        | 1.36 | 2.31       | mg/kg             | FE053771.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 5.63  |           | 1        | 1.05 | 4.61       | mg/kg             | FE053771.D |
| Total AliphaticEPH | Total AliphaticEPH | 9.33  |           |          | 2.41 | 6.92       | mg/kg             |            |
| Total EPH          | Total EPH          | 9.33  |           |          | 2.41 | 6.92       | 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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| Soil Aliquot Vol:  | uL                             | Test:           | EPH_NF       |
| Prep Method :      |                                |                 |              |

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|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 3.70  |           | 1        | 1.36 | 2.31       | mg/kg             | FE053771.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 5.63  |           | 1        | 1.05 | 4.61       | mg/kg             | FE053771.D |
| Total AliphaticEPH | Total AliphaticEPH | 9.33  |           |          | 2.41 | 6.92       | mg/kg             |            |
| Total EPH          | Total EPH          | 9.33  |           |          | 2.41 | 6.92       | 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.

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| Project:           | OR-636 Oradell and New Milford | Date Received:  | 05/08/25             |
| Client Sample ID:  | OR-636-26                      | SDG No.:        | Q1983                |
| Lab Sample ID:     | Q1983-52                       | Matrix:         | Solid                |
| Analytical Method: | NJEPH                          | % Solid:        | 86.5                 |
| Sample Wt/Vol:     | 30.09      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 |
| FE053771.D | 1         | 05/12/25    | 05/12/25        | PB167945      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 5.63  |           | 1.05     | 4.61       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 3.70  |           | 1.36     | 2.31       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 46.8  |           | 40 - 140 | 94%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 43.9  |           | 40 - 140 | 88%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1983-52   | Acq On:            | 12 May 2025 17:06 |
| Client Sample ID: | OR-636-26  | Operator:          | YP\AJ             |
| Data file:        | FE053771.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 16                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.103  | 6.745  | 391876   | 2.828   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.746  | 10.194 | 1720861  | 12.135  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.195 | 13.568 | 7110619  | 48.916  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.569 | 17.237 | 1338435  | 9.414   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.238 | 22.126 | 6209920  | 48.121  | 600              | ug/ml |
| Aliphatic EPH             | 3.103  | 22.126 | 16771711 | 121.414 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.857 | 11.857 | 7919252  | 43.91   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.303 | 13.303 | 6330035  | 46.83   |                  | ug/ml |
| Aliphatic C9-C28          | 3.103  | 17.237 | 10561791 | 73.293  | 1200             | ug/ml |