

## Report of Analysis

|                    |                   |                 |          |
|--------------------|-------------------|-----------------|----------|
| Client:            | PSEG              | Date Collected: | 03/11/25 |
| Project:           | OR-620 Hackensack | Date Received:  | 03/11/25 |
| Client Sample ID:  | OR-620-JB-01      | SDG No.:        | Q1547    |
| Lab Sample ID:     | Q1547-03          | Matrix:         | Solid    |
| Analytical Method: | NJEPH             | % Solid:        | 87.6     |
| Sample Wt/Vol:     | 30.03             | Units:          | g        |
| Soil Aliquot Vol:  |                   | Final Vol:      | 2000 uL  |
| Prep Method :      |                   | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 03/13/25 09:50 | 03/13/25 15:30  | PB167114      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 22.5  |           | 1        | 2.05 | 2.28       | mg/kg             | FE052778.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 4.56  | U         | 1        | 1.96 | 4.56       | mg/kg             | FE052778.D |
| Total AliphaticEPH | Total AliphaticEPH | 22.5  |           |          | 4.01 | 6.84       | mg/kg             |            |
| Total EPH          | Total EPH          | 22.5  |           |          | 4.01 | 6.84       | 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

## Report of Analysis

|                    |                        |                 |                      |
|--------------------|------------------------|-----------------|----------------------|
| Client:            | PSEG                   | Date Collected: | 03/11/25             |
| Project:           | OR-620 Hackensack      | Date Received:  | 03/11/25             |
| Client Sample ID:  | OR-620-JB-01           | SDG No.:        | Q1547                |
| Lab Sample ID:     | Q1547-03               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 87.6                 |
| Sample Wt/Vol:     | 30.03      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 |
| FE052778.D | 1         | 03/13/25    | 03/13/25        | PB167114      |

| CAS Number                | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|---------------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>            |                           |       |           |          |            |         |
| Aliphatic C9-C28          | Aliphatic C9-C28          | 0.000 | U         | 1.96     | 4.56       | mg/kg   |
| Aliphatic C28-C40         | Aliphatic C28-C40         | 22.5  |           | 2.05     | 2.28       | mg/kg   |
| <b>SURROGATES</b>         |                           |       |           |          |            |         |
| 1-chlorooctadecane (SURR) | 1-chlorooctadecane (SURR) | 29.7  |           | 40 - 140 | 59%        | SPK: 50 |
| ortho-Terphenyl (SURR)    | ortho-Terphenyl (SURR)    | 28.3  |           | 40 - 140 | 57%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |              |                    |                   |
|-------------------|--------------|--------------------|-------------------|
| Lab Sample ID:    | Q1547-03     | Acq On:            | 13 Mar 2025 15:30 |
| Client Sample ID: | OR-620-JB-01 | Operator:          | YP\AJ             |
| Data file:        | FE052778.D   | Misc:              |                   |
| Instrument:       | FID_E        | ALS Vial:          | 14                |
| Dilution Factor:  | 1            | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.150  | 6.794  | 1040412  | 6.672   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.795  | 10.247 | 647716   | 4.259   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.248 | 13.625 | 417178   | 2.847   | 300              | ug/ml |
| Aliphatic C21-C28         | 13.626 | 17.297 | 1061759  | 7.453   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.298 | 22.215 | 37782353 | 296.125 | 600              | ug/ml |
| Aliphatic EPH             | 3.150  | 22.215 | 40949418 | 317.355 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.909 | 11.909 | 4768112  | 28.28   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.354 | 13.354 | 3609060  | 29.72   |                  | ug/ml |
| Aliphatic C9-C28          | 3.150  | 17.297 | 3167065  | 21.231  | 1200             | ug/ml |