

## Report of Analysis

|                    |                              |                 |          |
|--------------------|------------------------------|-----------------|----------|
| Client:            | PSEG                         | Date Collected: | 04/07/25 |
| Project:           | Ironbound Substation - Emmet | Date Received:  | 04/07/25 |
| Client Sample ID:  | IB-6A-WC                     | SDG No.:        | Q1745    |
| Lab Sample ID:     | Q1745-01                     | Matrix:         | Solid    |
| Analytical Method: | NJEPH                        | % Solid:        | 85       |
| Sample Wt/Vol:     | 30.05                        | Units:          | g        |
| Soil Aliquot Vol:  |                              | Final Vol:      | 2000 uL  |
| Prep Method :      |                              | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/08/25 10:10 | 04/08/25 21:08  | PB167512      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 17.1  |           | 1        | 1.39 | 2.35       | mg/kg FE053247.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 20.7  |           | 1        | 1.07 | 4.69       | mg/kg FE053247.D  |
| Total AliphaticEPH | Total AliphaticEPH | 37.8  |           |          | 2.46 | 7.04       | mg/kg             |
| Total EPH          | Total EPH          | 37.8  |           |          | 2.46 | 7.04       | 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: | 04/07/25             |
| Project:           | Ironbound Substation - Emmet | Date Received:  | 04/07/25             |
| Client Sample ID:  | IB-6A-WC                     | SDG No.:        | Q1745                |
| Lab Sample ID:     | Q1745-01                     | Matrix:         | Solid                |
| Analytical Method: | NJEPH                        | % Solid:        | 85                   |
| Sample Wt/Vol:     | 30.05      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 |
| FE053247.D | 1         | 04/08/25    | 04/08/25        | PB167512      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 20.7  |           | 1.07     | 4.69       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 17.1  |           | 1.39     | 2.35       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 43.1  |           | 40 - 140 | 86%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 38.3  |           | 40 - 140 | 77%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1745-01   | Acq On:            | 08 Apr 2025 21:08 |
| Client Sample ID: | IB-6A-WC   | Operator:          | YP\AJ             |
| Data file:        | FE053247.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 20                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.139  | 6.782  | 1123021  | 7.197   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.783  | 10.234 | 3512604  | 22.864  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.235 | 13.613 | 12480631 | 86.469  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.614 | 17.285 | 19963593 | 148.597 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.286 | 22.199 | 27106595 | 218.15  | 600              | ug/ml |
| Aliphatic EPH             | 3.139  | 22.199 | 64186444 | 483.277 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.895 | 11.895 | 6244151  | 38.34   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.340 | 13.340 | 5169734  | 43.07   |                  | ug/ml |
| Aliphatic C9-C28          | 3.139  | 17.285 | 37079849 | 265.127 | 1200             | ug/ml |