

## Report of Analysis

|                    |                             |                 |                      |
|--------------------|-----------------------------|-----------------|----------------------|
| Client:            | PSEG                        | Date Collected: | 09/25/25             |
| Project:           | PSEG Essex Street - Milburn | Date Received:  | 09/25/25             |
| Client Sample ID:  | SU-ESM-04                   | SDG No.:        | Q3208                |
| Lab Sample ID:     | Q3208-09                    | Matrix:         | Solid                |
| Analytical Method: | NJEPH                       | % Solid:        | 90.4                 |
| Sample Wt/Vol:     | 30.03      Units:    g      | Final Vol:      | 2000              uL |
| Soil Aliquot Vol:  | uL                          | Test:           | EPH_NF               |
| Prep Method :      |                             |                 |                      |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 09/26/25 09:35 | 09/29/25 17:35  | PB169859      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 54.1  |           | 5        | 6.52 | 11.1       | mg/kg FC069868.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 15.0  |           | 1        | 1.01 | 4.43       | mg/kg FC069863.D  |
| Total AliphaticEPH | Total AliphaticEPH | 69.1  |           |          | 7.53 | 15.5       | mg/kg             |
| Total EPH          | Total EPH          | 69.1  |           |          | 7.53 | 15.5       | 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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| Client Sample ID:  | SU-ESM-04                   | SDG No.:        | Q3208                |
| Lab Sample ID:     | Q3208-09                    | Matrix:         | Solid                |
| Analytical Method: | NJEPM                       | % Solid:        | 90.4                 |
| 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 |
| FC069863.D | 1         | 09/26/25    | 09/29/25        | PB169859      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 15.0  |           | 1.01     | 4.43       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 56.5  | E         | 1.30     | 2.21       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 32.0  |           | 40 - 140 | 64%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 31.8  |           | 40 - 140 | 64%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q3208-09   | Acq On:            | 29 Sep 2025 11:00 |
| Client Sample ID: | SU-ESM-04  | Operator:          | YP/AJ             |
| Data file:        | FC069863.D | Misc:              |                   |
| Instrument:       | FID_C      | ALS Vial:          | 12                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.282  | 6.575  | 616805    | 4.619   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.576  | 9.977  | 1480943   | 9.452   | 200              | ug/ml |
| Aliphatic C16-C21         | 9.978  | 13.343 | 15736861  | 87.647  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.344 | 17.007 | 18311701  | 101.202 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.008 | 21.960 | 98644971  | 766.609 | 600              | ug/ml |
| Aliphatic EPH             | 3.282  | 21.960 | 134791281 | 969.53  |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.645 | 11.645 | 5947670   | 31.75   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.081 | 13.081 | 5046866   | 31.96   |                  | ug/ml |
| Aliphatic C9-C28          | 3.282  | 17.007 | 36146310  | 202.92  | 1200             | ug/ml |