

## Report of Analysis

|                    |                                              |                 |                      |
|--------------------|----------------------------------------------|-----------------|----------------------|
| Client:            | PSEG                                         | Date Collected: | 01/23/25             |
| Project:           | Oradell Gas and Appliance Service MA00006789 | Date Received:  | 01/23/25             |
| Client Sample ID:  | OR-03-01232025-E2                            | SDG No.:        | Q1170                |
| Lab Sample ID:     | Q1170-02                                     | Matrix:         | Solid                |
| Analytical Method: | NJEPH                                        | % Solid:        | 88.4                 |
| Sample Wt/Vol:     | 30.07      Units:    g                       | Final Vol:      | 2000              uL |
| Soil Aliquot Vol:  | uL                                           | Test:           | EPH_NF               |
| Prep Method :      |                                              |                 |                      |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 01/24/25 08:59 | 01/24/25 19:43  | PB166217      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 39.3  |           | 1        | 2.03 | 2.26       | mg/kg             | FC068121.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 21.9  |           | 1        | 1.94 | 4.51       | mg/kg             | FC068121.D |
| Total AliphaticEPH | Total AliphaticEPH | 61.2  |           |          | 3.97 | 6.77       | mg/kg             |            |
| Total EPH          | Total EPH          | 61.2  |           |          | 3.97 | 6.77       | 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:  | OR-03-01232025-E2                            | SDG No.:        | Q1170                |
| Lab Sample ID:     | Q1170-02                                     | Matrix:         | Solid                |
| Analytical Method: | NJEPH                                        | % Solid:        | 88.4                 |
| Sample Wt/Vol:     | 30.07      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 |
| FC068121.D | 1         | 01/24/25    | 01/24/25        | PB166217      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 21.9  |           | 1.94     | 4.51       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 39.3  |           | 2.03     | 2.26       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 61.4  |           | 40 - 140 | 123%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 26.0  |           | 40 - 140 | 52%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |                   |                    |                   |
|-------------------|-------------------|--------------------|-------------------|
| Lab Sample ID:    | Q1170-02          | Acq On:            | 24 Jan 2025 19:43 |
| Client Sample ID: | OR-03-01232025-E2 | Operator:          | YP/AJ             |
| Data file:        | FC068121.D        | Misc:              |                   |
| Instrument:       | FID_C             | ALS Vial:          | 31                |
| Dilution Factor:  | 1                 | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc    | highest_standard | Units |
|---------------------------|--------|--------|----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.133  | 6.399  | 2055219  | 14.84   | 300              | ug/ml |
| Aliphatic C12-C16         | 6.400  | 9.782  | 6496793  | 47.176  | 200              | ug/ml |
| Aliphatic C16-C21         | 9.783  | 13.135 | 20508520 | 151.893 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.136 | 16.786 | 9809118  | 77.111  | 400              | ug/ml |
| Aliphatic C28-C40         | 16.787 | 21.595 | 54180711 | 522.784 | 600              | ug/ml |
| Aliphatic EPH             | 3.133  | 21.595 | 93050361 | 813.805 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.427 | 11.427 | 4060926  | 25.99   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 12.865 | 12.865 | 7061935  | 61.41   |                  | ug/ml |
| Aliphatic C9-C28          | 3.133  | 16.786 | 38869650 | 291.02  | 1200             | ug/ml |