

## Report of Analysis

|                    |                                                |                 |              |
|--------------------|------------------------------------------------|-----------------|--------------|
| Client:            | PSEG                                           | Date Collected: | 04/02/25     |
| Project:           | Plainfield Gas and Appliance Service MA0006789 | Date Received:  | 04/02/25     |
| Client Sample ID:  | PL-02-040225-E2                                | SDG No.:        | Q1706        |
| Lab Sample ID:     | Q1706-04                                       | Matrix:         | Solid        |
| Analytical Method: | NJEPH                                          | % Solid:        | 88.6         |
| Sample Wt/Vol:     | 30.06      Units: g                            | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                                             | Test:           | EPH_NF       |
| Prep Method :      |                                                |                 |              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 04/03/25 10:09 | 04/04/25 11:05  | PB167440      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 92.4  |           | 5        | 6.65 | 11.3       | mg/kg FE053187.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 115   |           | 5        | 5.13 | 22.5       | mg/kg FE053187.D  |
| Total AliphaticEPH | Total AliphaticEPH | 208   |           |          | 11.8 | 33.8       | mg/kg             |
| Total EPH          | Total EPH          | 208   |           |          | 11.8 | 33.8       | 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: | 04/02/25             |
| Project:           | Plainfield Gas and Appliance Service MA0006789 | Date Received:  | 04/02/25             |
| Client Sample ID:  | PL-02-040225-E2                                | SDG No.:        | Q1706                |
| Lab Sample ID:     | Q1706-04                                       | Matrix:         | Solid                |
| Analytical Method: | NJEPH                                          | % Solid:        | 88.6                 |
| Sample Wt/Vol:     | 30.06      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 |
| FE053176.D | 1         | 04/03/25    | 04/03/25        | PB167440      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 108   | E         | 1.02     | 4.51       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 78.0  | E         | 1.33     | 2.25       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 36.0  |           | 40 - 140 | 72%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 31.0  |           | 40 - 140 | 62%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |                 |                    |                   |
|-------------------|-----------------|--------------------|-------------------|
| Lab Sample ID:    | Q1706-04        | Acq On:            | 03 Apr 2025 22:27 |
| Client Sample ID: | PL-02-040225-E2 | Operator:          | YP\AJ             |
| Data file:        | FE053176.D      | Misc:              |                   |
| Instrument:       | FID_E           | ALS Vial:          | 26                |
| Dilution Factor:  | 1               | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.138  | 6.779  | 18385779  | 117.833 | 300              | ug/ml |
| Aliphatic C12-C16         | 6.780  | 10.229 | 78571699  | 511.43  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.230 | 13.605 | 74401448  | 515.47  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.606 | 17.275 | 38966019  | 290.039 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.276 | 22.175 | 129001016 | 1040    | 600              | ug/ml |
| Aliphatic EPH             | 3.138  | 22.175 | 339325961 | 2470    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.896 | 11.896 | 5049886   | 31      |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.340 | 13.340 | 4316071   | 35.95   |                  | ug/ml |
| Aliphatic C9-C28          | 3.138  | 17.275 | 210324945 | 1430    | 1200             | ug/ml |