

## Report of Analysis

|                    |                                                    |                 |              |
|--------------------|----------------------------------------------------|-----------------|--------------|
| Client:            | PSEG                                               | Date Collected: | 01/07/25     |
| Project:           | Central (Harrison) Gas Division Service MA00006789 | Date Received:  | 01/07/25     |
| Client Sample ID:  | HR-01-01072025                                     | SDG No.:        | Q1029        |
| Lab Sample ID:     | Q1029-03                                           | Matrix:         | Solid        |
| Analytical Method: | NJEPH                                              | % Solid:        | 92.7         |
| 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 |
| 01/08/25 08:06 | 01/09/25 10:49  | PB165974      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 48.6  |           | 5        | 9.70 | 10.8       | mg/kg FE051889.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 174   |           | 5        | 9.27 | 21.6       | mg/kg FE051889.D  |
| Total AliphaticEPH | Total AliphaticEPH | 222   |           |          | 19.0 | 32.4       | mg/kg             |
| Total EPH          | Total EPH          | 222   |           |          | 19.0 | 32.4       | 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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|                    |                                                    |                 |                      |
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| Client Sample ID:  | HR-01-01072025                                     | SDG No.:        | Q1029                |
| Lab Sample ID:     | Q1029-03                                           | Matrix:         | Solid                |
| Analytical Method: | NJEPH                                              | % Solid:        | 92.7                 |
| 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 |
| FE051876.D | 1         | 01/08/25    | 01/08/25        | PB165974      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 161   | E         | 1.85     | 4.32       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 46.9  | E         | 1.94     | 2.16       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 24.8  |           | 40 - 140 | 50%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 26.3  |           | 40 - 140 | 53%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |                |                    |                   |
|-------------------|----------------|--------------------|-------------------|
| Lab Sample ID:    | Q1029-03       | Acq On:            | 08 Jan 2025 19:46 |
| Client Sample ID: | HR-01-01072025 | Operator:          | YP\AJ             |
| Data file:        | FE051876.D     | Misc:              |                   |
| Instrument:       | FID_E          | ALS Vial:          | 25                |
| Dilution Factor:  | 1              | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aliphatic C9-C12          | 3.428  | 7.024  | 23296519  | 204.546 | 300              | ug/ml |
| Aliphatic C12-C16         | 7.025  | 10.452 | 131144074 | 1060    | 200              | ug/ml |
| Aliphatic C16-C21         | 10.453 | 13.814 | 113468142 | 859.464 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.815 | 17.470 | 16383539  | 125.072 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.471 | 22.484 | 71218441  | 652.514 | 600              | ug/ml |
| Aliphatic EPH             | 3.428  | 22.484 | 355510715 | 2900    |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 12.150 | 12.150 | 3811993   | 26.3    |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.576 | 13.576 | 2848096   | 24.79   |                  | ug/ml |
| Aliphatic C9-C28          | 3.428  | 17.470 | 284292274 | 2250    | 1200             | ug/ml |