

## Report of Analysis

|                    |              |                 |          |
|--------------------|--------------|-----------------|----------|
| Client:            | PSEG         | Date Collected: | 05/23/25 |
| Project:           | Hamilton M&R | Date Received:  | 05/23/25 |
| Client Sample ID:  | EPH-2-E      | SDG No.:        | Q2127    |
| Lab Sample ID:     | Q2127-16     | Matrix:         | Solid    |
| Analytical Method: | NJEPH        | % Solid:        | 88.2     |
| Sample Wt/Vol:     | 30.01        | Units:          | g        |
| Soil Aliquot Vol:  |              | Final Vol:      | 2000 uL  |
| Prep Method :      |              | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 05/27/25 08:50 | 05/27/25 20:52  | PB168161      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 19.8  |           | 1        | 1.34 | 2.27       | mg/kg FE054031.D  |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 21.0  |           | 1        | 1.03 | 4.53       | mg/kg FE054031.D  |
| Total AliphaticEPH | Total AliphaticEPH | 40.8  |           |          | 2.37 | 6.80       | mg/kg             |
| Total EPH          | Total EPH          | 40.8  |           |          | 2.37 | 6.80       | 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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| Project:           | Hamilton M&R           | Date Received:  | 05/23/25             |
| Client Sample ID:  | EPH-2-E                | SDG No.:        | Q2127                |
| Lab Sample ID:     | Q2127-16               | Matrix:         | Solid                |
| Analytical Method: | NJEPH                  | % Solid:        | 88.2                 |
| Sample Wt/Vol:     | 30.01      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 |
| FE054031.D | 1         | 05/27/25    | 05/27/25        | PB168161      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 21.0  |           | 1.03     | 4.53       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 19.8  |           | 1.34     | 2.27       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 58.3  |           | 40 - 140 | 117%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 51.6  |           | 40 - 140 | 103%       | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q2127-16   | Acq On:            | 27 May 2025 20:52 |
| Client Sample ID: | EPH-2-E    | Operator:          | YP\AJ             |
| Data file:        | FE054031.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          | 3.094  | 6.741  | 2140706  | 15.791  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.742  | 10.189 | 8890636  | 65.885  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.190 | 13.564 | 11896056 | 90.183  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.565 | 17.234 | 13172950 | 106.082 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.235 | 22.120 | 30301093 | 262.504 | 600              | ug/ml |
| Aliphatic EPH             | 3.094  | 22.120 | 66401441 | 540.445 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.848 | 11.848 | 8393289  | 51.65   |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.293 | 13.293 | 6916661  | 58.34   |                  | ug/ml |
| Aliphatic C9-C28          | 3.094  | 17.234 | 36100348 | 277.941 | 1200             | ug/ml |