

## Report of Analysis

|                    |                            |                 |          |
|--------------------|----------------------------|-----------------|----------|
| Client:            | PSEG                       | Date Collected: | 11/18/24 |
| Project:           | PSEG 14th-Harts Tice LN UG | Date Received:  | 11/19/24 |
| Client Sample ID:  | TP-1-EPH                   | SDG No.:        | P4916    |
| Lab Sample ID:     | P4916-02                   | Matrix:         | Solid    |
| Analytical Method: | NJEPH                      | % Solid:        | 94       |
| Sample Wt/Vol:     | 30.03                      | Units:          | g        |
| Soil Aliquot Vol:  |                            | Final Vol:      | 2000 uL  |
| Prep Method :      |                            | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 11/20/24 10:10 | 11/20/24 14:56  | PB165131      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 5.21  |           | 1        | 1.91 | 2.13       | mg/kg             | FE051362.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 4.25  | U         | 1        | 1.83 | 4.25       | mg/kg             | FE051362.D |
| Total AliphaticEPH | Total AliphaticEPH | 5.21  | J         |          | 3.74 | 6.38       | mg/kg             |            |
| Total EPH          | Total EPH          | 5.21  | J         |          | 3.74 | 6.38       | 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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| Analytical Method: | NJEPH                      | % Solid:        | 94                   |
| 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 |
| FE051362.D | 1         | 11/20/24    | 11/20/24        | PB165131      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 0.000 | U         | 1.83     | 4.25       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 5.21  |           | 1.91     | 2.13       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 38.9  |           | 40 - 140 | 78%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 37.5  |           | 40 - 140 | 75%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | P4916-02   | Acq On:            | 20 Nov 2024 14:56 |
| Client Sample ID: | TP-1-EPH   | Operator:          | YP\AJ             |
| Data file:        | FE051362.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 12                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc   | highest_standard | Units |
|---------------------------|--------|--------|----------|--------|------------------|-------|
| Aliphatic C9-C12          | 3.133  | 6.748  | 224100   | 1.602  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.749  | 10.181 | 678275   | 4.823  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.182 | 13.541 | 1094292  | 7.943  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.542 | 17.196 | 1314570  | 9.814  | 400              | ug/ml |
| Aliphatic C28-C40         | 17.197 | 22.039 | 9467155  | 73.532 | 600              | ug/ml |
| Aliphatic EPH             | 3.133  | 22.039 | 12778392 | 97.714 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.845 | 11.845 | 5625753  | 37.48  |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.278 | 13.278 | 4418908  | 38.92  |                  | ug/ml |
| Aliphatic C9-C28          | 3.133  | 17.196 | 3311237  | 24.182 | 1200             | ug/ml |