

## Report of Analysis

|                    |                         |                 |          |
|--------------------|-------------------------|-----------------|----------|
| Client:            | PSEG                    | Date Collected: | 03/20/25 |
| Project:           | Port St- Newark Project | Date Received:  | 03/20/25 |
| Client Sample ID:  | TP-2                    | SDG No.:        | Q1619    |
| Lab Sample ID:     | Q1619-07                | Matrix:         | Solid    |
| Analytical Method: | NJEPH                   | % Solid:        | 86       |
| Sample Wt/Vol:     | 30.07                   | Units:          | g        |
| Soil Aliquot Vol:  |                         | Final Vol:      | 2000 uL  |
| Prep Method :      |                         | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 03/21/25 09:40 | 03/21/25 16:18  | PB167255      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 2.17  | J         | 1        | 1.37 | 2.32       | mg/kg             | FE052914.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 5.31  |           | 1        | 1.06 | 4.64       | mg/kg             | FE052914.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.48  |           |          | 2.43 | 6.96       | mg/kg             |            |
| Total EPH          | Total EPH          | 7.48  |           |          | 2.43 | 6.96       | 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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| Lab Sample ID:     | Q1619-07                | Matrix:         | Solid                |
| Analytical Method: | NJEPH                   | % Solid:        | 86                   |
| 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 |
| FE052914.D | 1         | 03/21/25    | 03/21/25        | PB167255      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 5.31  |           | 1.06     | 4.64       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 2.17  | J         | 1.37     | 2.32       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 36.2  |           | 40 - 140 | 72%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 35.0  |           | 40 - 140 | 70%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1619-07   | Acq On:            | 21 Mar 2025 16:18 |
| Client Sample ID: | TP-2       | Operator:          | YP\AJ             |
| Data file:        | FE052914.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 16                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc   | highest_standard | Units |
|---------------------------|--------|--------|----------|--------|------------------|-------|
| Aliphatic C9-C12          | 3.144  | 6.788  | 1404909  | 9.009  | 300              | ug/ml |
| Aliphatic C12-C16         | 6.789  | 10.240 | 1168712  | 7.684  | 200              | ug/ml |
| Aliphatic C16-C21         | 10.241 | 13.619 | 4428475  | 30.219 | 300              | ug/ml |
| Aliphatic C21-C28         | 13.620 | 17.290 | 3097056  | 21.741 | 400              | ug/ml |
| Aliphatic C28-C40         | 17.291 | 22.206 | 3572193  | 27.998 | 600              | ug/ml |
| Aliphatic EPH             | 3.144  | 22.206 | 13671345 | 96.65  |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.906 | 11.906 | 5906899  | 35.04  |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.350 | 13.350 | 4399343  | 36.23  |                  | ug/ml |
| Aliphatic C9-C28          | 3.144  | 17.290 | 10099152 | 68.653 | 1200             | ug/ml |