

## Report of Analysis

|                    |                             |                 |          |
|--------------------|-----------------------------|-----------------|----------|
| Client:            | PSEG                        | Date Collected: | 03/24/25 |
| Project:           | Whitehorse 230-69kV Upgrade | Date Received:  | 03/24/25 |
| Client Sample ID:  | WC-3-EPH                    | SDG No.:        | Q1636    |
| Lab Sample ID:     | Q1636-10                    | Matrix:         | Solid    |
| Analytical Method: | NJEPH                       | % Solid:        | 90.4     |
| Sample Wt/Vol:     | 30.06                       | Units:          | g        |
| Soil Aliquot Vol:  |                             | Final Vol:      | 2000 uL  |
| Prep Method :      |                             | Test:           | EPH_NF   |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 03/26/25 09:45 | 03/26/25 19:33  | PB167323      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |            |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |            |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 1.92  | J         | 1        | 1.30 | 2.21       | mg/kg             | FE052989.D |
| Aliphatic C9-C28   | Aliphatic C9-C28   | 2.23  | J         | 1        | 1.00 | 4.41       | mg/kg             | FE052989.D |
| Total AliphaticEPH | Total AliphaticEPH | 4.15  | J         |          | 2.31 | 6.62       | mg/kg             |            |
| Total EPH          | Total EPH          | 4.15  | J         |          | 2.31 | 6.62       | 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:  | WC-3-EPH                    | SDG No.:        | Q1636                |
| Lab Sample ID:     | Q1636-10                    | Matrix:         | Solid                |
| Analytical Method: | NJEPH                       | % Solid:        | 90.4                 |
| 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 |
| FE052989.D | 1         | 03/26/25    | 03/26/25        | PB167323      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aliphatic C9-C28  | Aliphatic C9-C28          | 2.23  | J         | 1.00     | 4.41       | mg/kg   |
| Aliphatic C28-C40 | Aliphatic C28-C40         | 1.92  | J         | 1.30     | 2.21       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 3383-33-2         | 1-chlorooctadecane (SURR) | 36.7  |           | 40 - 140 | 73%        | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 35.0  |           | 40 - 140 | 70%        | SPK: 50 |

## Quantitation Report For Aliphatic EPH Range.

|                   |            |                    |                   |
|-------------------|------------|--------------------|-------------------|
| Lab Sample ID:    | Q1636-10   | Acq On:            | 26 Mar 2025 19:33 |
| Client Sample ID: | WC-3-EPH   | Operator:          | YP\AJ             |
| Data file:        | FE052989.D | Misc:              |                   |
| Instrument:       | FID_E      | ALS Vial:          | 22                |
| Dilution Factor:  | 1          | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response | Conc   | highest_standard | Units |
|---------------------------|--------|--------|----------|--------|------------------|-------|
| Aliphatic C9-C12          | 3.147  | 6.791  | 2040942  | 13.087 | 300              | ug/ml |
| Aliphatic C12-C16         | 6.792  | 10.245 | 695073   | 4.57   | 200              | ug/ml |
| Aliphatic C16-C21         | 10.246 | 13.624 | 559144   | 3.815  | 300              | ug/ml |
| Aliphatic C21-C28         | 13.625 | 17.297 | 1256468  | 8.82   | 400              | ug/ml |
| Aliphatic C28-C40         | 17.298 | 22.217 | 3333095  | 26.124 | 600              | ug/ml |
| Aliphatic EPH             | 3.147  | 22.217 | 7884722  | 56.417 |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.902 | 11.902 | 5901180  | 35     |                  | ug/ml |
| 1-chlorooctadecane (SURR) | 13.347 | 13.347 | 4451635  | 36.66  |                  | ug/ml |
| Aliphatic C9-C28          | 3.147  | 17.297 | 4551627  | 30.292 | 1200             | ug/ml |