284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PSEG | Date Collected: | 01/28/25 |
| Project: | PSEG Springfield - Front Poles - Roselle Park | Date Received: | 01/28/25 |
| Client Sample ID: | WC-5-EPH | SDG No.: | Q1209 |
| Lab Sample ID: | Q1209-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 83.8 |
| Sample Wt/Vol: | 30.06 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 01/29/25 09:41 | 01/29/25 19:56 | PB166336 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.23 | J | 1 | 2.14 | 2.38 | mg/kg | FE052129.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 4.76 | U | 1 | 2.05 | 4.76 | mg/kg | FE052129.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.14 | U | | 4.19 | 7.14 | mg/kg | |
| Total EPH | Total EPH | 7.14 | U | | 4.19 | 7.14 | 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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| Project: | PSEG Springfield - Front Poles - Roselle Park | Date Received: | 01/28/25 |
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| Lab Sample ID: | Q1209-06 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 83.8 |
| 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 |
|---|---|---|---|---|
| FE052129.D | 1 | 01/29/25 | 01/29/25 | PB166336 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 0.000 | U | 2.05 | 4.76 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.23 | J | 2.14 | 2.38 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 23.6 | | 40 - 140 | 47% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 22.6 | | 40 - 140 | 45% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q1209-06 | Acq On: | 29 Jan 2025 19:56 |
| Client Sample ID: | WC-5-EPH | Operator: | YP\AJ |
| Data file: | FE052129.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 21 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.576 | 7.131 | 400142 | 3.649 | 300 | ug/ml |
| Aliphatic C12-C16 | 7.132 | 10.531 | 613174 | 5.059 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.532 | 13.874 | 652413 | 4.973 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.875 | 17.518 | 784575 | 5.941 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.519 | 22.537 | 3012025 | 28.073 | 600 | ug/ml |
| Aliphatic EPH | 3.576 | 22.537 | 5462329 | 47.695 | | ug/ml |
| ortho-Terphenyl (SURR) | 12.193 | 12.193 | 3231787 | 22.61 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.608 | 13.608 | 2710961 | 23.63 | | ug/ml |
| Aliphatic C9-C28 | 3.576 | 17.518 | 2450304 | 19.622 | 1200 | ug/ml |