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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PSEG | Date Collected: | 12/06/24 |
| Project: | Bergen Point 69kV - 4KV-13KV Conversion Project OP | Date Received: | 12/06/24 |
| Client Sample ID: | MH-761-EPH | SDG No.: | P5196 |
| Lab Sample ID: | P5196-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 89.4 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH_NF |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 12/09/24 09:15 | 12/09/24 14:58 | PB165478 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 15.9 | | 1 | 2.01 | 2.23 | mg/kg | FE051590.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 2.56 | J | 1 | 1.92 | 4.47 | mg/kg | FE051590.D |
| Total AliphaticEPH | Total AliphaticEPH | 18.5 | | | 3.93 | 6.70 | mg/kg | |
| Total EPH | Total EPH | 18.5 | | | 3.93 | 6.70 | 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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| Sample Wt/Vol: | 30.05 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 |
|---|---|---|---|---|
| FE051590.D | 1 | 12/09/24 | 12/09/24 | PB165478 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | | 2.56 | J | 1.92 | 4.47 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 15.9 | | 2.01 | 2.23 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 55.3 | | 40 - 140 | 111% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 51.8 | | 40 - 140 | 104% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | P5196-02 | Acq On: | 09 Dec 2024 14:58 |
| Client Sample ID: | MH-761-EPH | Operator: | YP\AJ |
| Data file: | FE051590.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 14 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.117 | 6.731 | 348157 | 2.462 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.732 | 10.162 | 935480 | 6.647 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.163 | 13.521 | 1855037 | 13.336 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.522 | 17.175 | 1876805 | 14.348 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.176 | 22.007 | 22848244 | 213.336 | 600 | ug/ml |
| Aliphatic EPH | 3.117 | 22.007 | 27863723 | 250.129 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.827 | 11.827 | 7831850 | 51.83 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.260 | 13.260 | 6180729 | 55.31 | | ug/ml |
| Aliphatic C9-C28 | 3.117 | 17.175 | 5015479 | 36.793 | 1200 | ug/ml |