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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | PSEG | | | Date Collected: | 01/22/25 |
| Project: | 9th Ave Pole Yard | | | Date Received: | 01/22/25 |
| Client Sample ID: | 281-E2 | | | SDG No.: | Q1156 |
| Lab Sample ID: | Q1156-02 | | | Matrix: | Solid |
| Analytical Method: | NJEPH | | | % Solid: | 90 |
| 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 |
|---|---|---|
| 01/23/25 09:20 | 01/23/25 17:05 | PB166186 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 8.33 | | 1 | 2.00 | 2.22 | mg/kg | FE052020.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 1.91 | U | 1 | 1.91 | 4.44 | mg/kg | FE052020.D |
| Total AliphaticEPH | Total AliphaticEPH | 8.33 | | | 3.91 | 6.66 | mg/kg | |
| Total EPH | Total EPH | 8.33 | | | 3.91 | 6.66 | 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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| Client: | PSEG | | Date Collected: | 01/22/25 | |
| Project: | 9th Ave Pole Yard | | Date Received: | 01/22/25 | |
| Client Sample ID: | 281-E2 | | SDG No.: | Q1156 | |
| Lab Sample ID: | Q1156-02 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 90 | |
| 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 |
|---|---|---|---|---|
| FE052020.D | 1 | 01/23/25 | 01/23/25 | PB166186 |

| CAS Number | Parameter | | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | | 0.000 | U | 1.91 | 4.44 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | | 8.33 | | 2.00 | 2.22 | mg/kg |
| **SURROGATES** | | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | | 20.7 | | 40 - 140 | 41% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | | 20.3 | | 40 - 140 | 41% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q1156-02 | Acq On: | 23 Jan 2025 17:05 |
| Client Sample ID: | 281-E2 | Operator: | YP\AJ |
| Data file: | FE052020.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 18 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.586 | 7.140 | 429001 | 3.912 | 300 | ug/ml |
| Aliphatic C12-C16 | 7.141 | 10.539 | 732025 | 6.039 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.540 | 13.882 | 897701 | 6.843 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.883 | 17.526 | 1588149 | 12.026 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.527 | 22.550 | 12079237 | 112.583 | 600 | ug/ml |
| Aliphatic EPH | 3.586 | 22.550 | 15726113 | 141.403 | | ug/ml |
| ortho-Terphenyl (SURR) | 12.201 | 12.201 | 2895267 | 20.26 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.616 | 13.616 | 2378733 | 20.74 | | ug/ml |
| Aliphatic C9-C28 | 3.586 | 17.526 | 3646876 | 28.82 | 1200 | ug/ml |