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

# Report of Analysis

| | | | | | |
|---|---|---|---|---|---|
| Client: | PSEG | | Date Collected: | 04/18/25 | |
| Project: | Kearny Switch | | Date Received: | 04/18/25 | |
| Client Sample ID: | VNJ-231 | | SDG No.: | Q1841 | |
| Lab Sample ID: | Q1841-02 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 88.6 | |
| Sample Wt/Vol: | 30.07 | Units: g | Final Vol: | 2000 | uL |
| Soil Aliquot Vol: | | uL | Test: | EPH_NF | |
| Prep Method : | | | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 04/21/25 08:20 | 04/21/25 16:07 | PB167658 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 14.1 | | 1 | 1.33 | 2.25 | mg/kg | FC068659.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 19.9 | | 1 | 1.02 | 4.51 | mg/kg | FC068659.D |
| Total AliphaticEPH | Total AliphaticEPH | 34.0 | | | 2.36 | 6.76 | mg/kg | |
| Total EPH | Total EPH | 34.0 | | | 2.36 | 6.76 | 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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# Report of Analysis

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| Client: | PSEG | | Date Collected: | 04/18/25 | |
| Project: | Kearny Switch | | Date Received: | 04/18/25 | |
| Client Sample ID: | VNJ-231 | | SDG No.: | Q1841 | |
| Lab Sample ID: | Q1841-02 | | Matrix: | Solid | |
| Analytical Method: | NJEPH | | % Solid: | 88.6 | |
| 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 |
|---|---|---|---|---|
| FC068659.D | 1 | 04/21/25 | 04/21/25 | PB167658 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 19.9 | | 1.02 | 4.51 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 14.1 | | 1.33 | 2.25 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 35.5 | | 40 - 140 | 71% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 31.4 | | 40 - 140 | 63% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q1841-02 | Acq On: | 21 Apr 2025 16:07 |
| Client Sample ID: | VNJ-231 | Operator: | YP/AJ |
| Data file: | FC068659.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 14 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.346 | 6.647 | 378331 | 3.594 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.648 | 10.048 | 1099618 | 10.747 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.049 | 13.416 | 8174488 | 82.724 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.417 | 17.083 | 15834930 | 168.125 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.084 | 22.092 | 16937360 | 188.438 | 600 | ug/ml |
| Aliphatic EPH | 3.346 | 22.092 | 42424727 | 453.627 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.718 | 11.718 | 3992154 | 31.35 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.152 | 13.152 | 3299022 | 35.51 | | ug/ml |
| Aliphatic C9-C28 | 3.346 | 17.083 | 25487367 | 265.19 | 1200 | ug/ml |