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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | PSEG | Date Collected: | 04/29/25 |
| Project: | Galloping Hills Sub OP | Date Received: | 04/29/25 |
| Client Sample ID: | MH-E-EPH | SDG No.: | Q1912 |
| Lab Sample ID: | Q1912-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 92.3 |
| 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 |
|---|---|---|
| 04/30/25 09:20 | 04/30/25 17:43 | PB167797 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 14.0 | | 1 | 1.28 | 2.16 | mg/kg | FE053592.D |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 26.0 | | 1 | 0.98 | 4.32 | mg/kg | FE053592.D |
| Total AliphaticEPH | Total AliphaticEPH | 40.0 | | | 2.26 | 6.48 | mg/kg | |
| Total EPH | Total EPH | 40.0 | | | 2.26 | 6.48 | 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: | 04/29/25 |
| Project: | Galloping Hills Sub OP | Date Received: | 04/29/25 |
| Client Sample ID: | MH-E-EPH | SDG No.: | Q1912 |
| Lab Sample ID: | Q1912-02 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 92.3 |
| 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 |
|---|---|---|---|---|
| FE053592.D | 1 | 04/30/25 | 04/30/25 | PB167797 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C28 | Aliphatic C9-C28 | 26.0 | | 0.98 | 4.32 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 14.0 | | 1.28 | 2.16 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 45.1 | | 40 - 140 | 90% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 40.5 | | 40 - 140 | 81% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q1912-02 | Acq On: | 30 Apr 2025 17:43 |
| Client Sample ID: | MH-E-EPH | Operator: | YP\AJ |
| Data file: | FE053592.D | Misc: | |
| Instrument: | FID_E | ALS Vial: | 19 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.114 | 6.756 | 466020 | 3.363 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.757 | 10.205 | 4407049 | 31.078 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.206 | 13.580 | 18356431 | 126.279 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.581 | 17.248 | 28341280 | 199.341 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.249 | 22.137 | 25117633 | 194.636 | 600 | ug/ml |
| Aliphatic EPH | 3.114 | 22.137 | 76688413 | 554.698 | | ug/ml |
| ortho-Terphenyl (SURR) | 11.870 | 11.870 | 7309573 | 40.53 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.314 | 13.314 | 6102631 | 45.15 | | ug/ml |
| Aliphatic C9-C28 | 3.114 | 17.248 | 51570780 | 360.061 | 1200 | ug/ml |