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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Portal Partners Tri-Venture | Date Collected: | 04/05/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 04/07/25 |
| Client Sample ID: | B-158-SB02 | SDG No.: | Q1744 |
| Lab Sample ID: | Q1744-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 56 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|
| 04/08/25 10:10 | 04/11/25 0:05 | PB167513 |

| CAS Number | Parameter | Conc. | Qualifier | Dilution | MDL | LOQ / CRQL | Units(Dry Weight) | Datafile |
|---|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.51 | J | 1 | 0.25 | 1.78 | mg/kg | FC068564.D |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 2.96 | | 1 | 0.20 | 1.19 | mg/kg | FC068564.D |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 1.32 | J | 1 | 0.23 | 1.78 | mg/kg | FC068564.D |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.95 | U | 1 | 0.95 | 2.38 | mg/kg | FC068564.D |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.60 | J | 1 | 2.10 | 3.57 | mg/kg | FC068564.D |
| Aromatic C10-C12 | Aromatic C10-C12 | 0.70 | J | 1 | 0.21 | 1.19 | mg/kg | FD049273.D |
| Aromatic C12-C16 | Aromatic C12-C16 | 0.69 | J | 1 | 0.41 | 1.78 | mg/kg | FD049273.D |
| Aromatic C16-C21 | Aromatic C16-C21 | 4.67 | | 1 | 0.71 | 2.97 | mg/kg | FD049273.D |
| Aromatic C21-C36 | Aromatic C21-C36 | 3.40 | J | 1 | 2.12 | 4.75 | mg/kg | FD049273.D |
| Total AliphaticEPH | Total AliphaticEPH | 7.39 | J | | 3.72 | 10.7 | mg/kg | |
| Total AromaticEPH | Total AromaticEPH | 9.46 | J | | 3.46 | 10.7 | mg/kg | |
| Total EPH | Total EPH | 16.8 | J | | 7.18 | 21.4 | mg/kg | |

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: | Portal Partners Tri-Venture | Date Collected: | 04/05/25 |
| Project: | Amtrak Sawtooth Bridges 2025 | Date Received: | 04/07/25 |
| Client Sample ID: | B-158-SB02 | SDG No.: | Q1744 |
| Lab Sample ID: | Q1744-03 | Matrix: | Solid |
| Analytical Method: | NJEPH | % Solid: | 56 |
| Sample Wt/Vol: | 30.05 Units: g | Final Vol: | 2000 uL |
| Soil Aliquot Vol: | uL | Test: | EPH |
| Prep Method : | | | |

| File ID : | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
|---|---|---|---|---|
| FC068564.D | 1 | 04/08/25 | 04/11/25 | PB167513 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| Aliphatic C9-C12 | Aliphatic C9-C12 | 0.51 | J | 0.25 | 1.78 | mg/kg |
| Aliphatic C12-C16 | Aliphatic C12-C16 | 2.96 | | 0.20 | 1.19 | mg/kg |
| Aliphatic C16-C21 | Aliphatic C16-C21 | 1.32 | J | 0.23 | 1.78 | mg/kg |
| Aliphatic C21-C28 | Aliphatic C21-C28 | 0.95 | U | 0.95 | 2.38 | mg/kg |
| Aliphatic C28-C40 | Aliphatic C28-C40 | 2.60 | J | 2.10 | 3.57 | mg/kg |
| **SURROGATES** | | | | | | |
| 3383-33-2 | 1-chlorooctadecane (SURR) | 31.5 | | 40 - 140 | 63% | SPK: 50 |
| 84-15-1 | ortho-Terphenyl (SURR) | 0.00 | | 40 - 140 | 0% | SPK: 50 |

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# Quantitation Report For Aliphatic EPH Range.

| | | | |
|---|---|---|---|
| Lab Sample ID: | Q1744-03 | Acq On: | 11 Apr 2025 00:05 |
| Client Sample ID: | B-158-SB02 | Operator: | YP/AJ |
| Data file: | FC068564.D | Misc: | |
| Instrument: | FID_C | ALS Vial: | 23 |
| Dilution Factor: | 1 | Sample Multiplier: | 1.00 |

| Compound | R.T. | | Response | Conc | highest_standard | Units |
|---|---|---|---|---|---|---|
| Aliphatic C9-C12 | 3.345 | 6.644 | 451147 | 4.285 | 300 | ug/ml |
| Aliphatic C12-C16 | 6.645 | 10.043 | 2545930 | 24.881 | 200 | ug/ml |
| Aliphatic C16-C21 | 10.044 | 13.409 | 1097643 | 11.108 | 300 | ug/ml |
| Aliphatic C21-C28 | 13.410 | 17.073 | 427193 | 4.536 | 400 | ug/ml |
| Aliphatic C28-C40 | 17.074 | 22.075 | 1965755 | 21.87 | 600 | ug/ml |
| Aliphatic EPH | 3.345 | 22.075 | 6487668 | 66.68 | | ug/ml |
| ortho-Terphenyl (SURR) | 0.000 | 0.000 | 0 | 0 | | ug/ml |
| 1-chlorooctadecane (SURR) | 13.144 | 13.144 | 2927619 | 31.52 | | ug/ml |
| Aliphatic C9-C28 | 3.345 | 17.073 | 4521913 | 44.81 | 1200 | ug/ml |