

## Report of Analysis

|                    |                              |                 |              |
|--------------------|------------------------------|-----------------|--------------|
| Client:            | Portal Partners Tri-Venture  | Date Collected: |              |
| Project:           | Amtrak Sawtooth Bridges 2025 | Date Received:  |              |
| Client Sample ID:  | PB166218BSD                  | SDG No.:        | Q1194        |
| Lab Sample ID:     | PB166218BSD                  | Matrix:         | Solid        |
| Analytical Method: | NJEPH                        | % Solid:        | 100          |
| Sample Wt/Vol:     | 30.01      Units: g          | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                           | Test:           | EPH          |
| Prep Method :      |                              |                 |              |

|                |                 |               |
|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 01/28/25 08:30 | 01/28/25 16:49  | PB166218      |

Datafile

| CAS Number         | Parameter          | Conc. | Qualifier | Dilution | MDL  | LOQ / CRQL | Units(Dry Weight) |
|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C9-C12   | Aliphatic C9-C12   | 7.22  |           | 1        | 0.38 | 1.00       | mg/kg FG015185.D  |
| Aliphatic C12-C16  | Aliphatic C12-C16  | 6.61  |           | 1        | 0.24 | 0.67       | mg/kg FG015185.D  |
| Aliphatic C16-C21  | Aliphatic C16-C21  | 12.1  |           | 1        | 0.30 | 1.00       | mg/kg FG015185.D  |
| Aliphatic C21-C28  | Aliphatic C21-C28  | 16.3  |           | 1        | 0.80 | 1.33       | mg/kg FG015185.D  |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 27.7  |           | 1        | 1.80 | 2.00       | mg/kg FG015185.D  |
| Aromatic C10-C12   | Aromatic C10-C12   | 6.32  |           | 1        | 0.30 | 0.67       | mg/kg FF015328.D  |
| Aromatic C12-C16   | Aromatic C12-C16   | 11.8  |           | 1        | 0.34 | 1.00       | mg/kg FF015328.D  |
| Aromatic C16-C21   | Aromatic C16-C21   | 22.8  |           | 1        | 0.96 | 1.67       | mg/kg FF015328.D  |
| Aromatic C21-C36   | Aromatic C21-C36   | 35.7  |           | 1        | 2.00 | 2.67       | mg/kg FF015328.D  |
| Total AliphaticEPH | Total AliphaticEPH | 69.9  |           |          | 3.52 | 6.00       | mg/kg             |
| Total AromaticEPH  | Total AromaticEPH  | 76.6  |           |          | 3.60 | 6.01       | mg/kg             |
| Total EPH          | Total EPH          | 147   |           |          | 7.12 | 12.0       | 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

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| Soil Aliquot Vol:  | uL                           | Test:           | EPH          |
| Prep Method :      |                              |                 |              |

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| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C9-C12   | Aliphatic C9-C12   | 7.22  |           | 1        | 0.38 | 1.00       | mg/kg FG015185.D  |
| Aliphatic C12-C16  | Aliphatic C12-C16  | 6.61  |           | 1        | 0.24 | 0.67       | mg/kg FG015185.D  |
| Aliphatic C16-C21  | Aliphatic C16-C21  | 12.1  |           | 1        | 0.30 | 1.00       | mg/kg FG015185.D  |
| Aliphatic C21-C28  | Aliphatic C21-C28  | 16.3  |           | 1        | 0.80 | 1.33       | mg/kg FG015185.D  |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 27.7  |           | 1        | 1.80 | 2.00       | mg/kg FG015185.D  |
| Aromatic C10-C12   | Aromatic C10-C12   | 6.32  |           | 1        | 0.30 | 0.67       | mg/kg FF015328.D  |
| Aromatic C12-C16   | Aromatic C12-C16   | 11.8  |           | 1        | 0.34 | 1.00       | mg/kg FF015328.D  |
| Aromatic C16-C21   | Aromatic C16-C21   | 22.8  |           | 1        | 0.96 | 1.67       | mg/kg FF015328.D  |
| Aromatic C21-C36   | Aromatic C21-C36   | 35.7  |           | 1        | 2.00 | 2.67       | mg/kg FF015328.D  |
| Total AliphaticEPH | Total AliphaticEPH | 69.9  |           |          | 3.52 | 6.00       | mg/kg             |
| Total AromaticEPH  | Total AromaticEPH  | 76.6  |           |          | 3.60 | 6.01       | mg/kg             |
| Total EPH          | Total EPH          | 147   |           |          | 7.12 | 12.0       | mg/kg             |

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| Project:           | Amtrak Sawtooth Bridges 2025 | Date Received:  |              |
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| Lab Sample ID:     | PB166218BSD                  | Matrix:         | Solid        |
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| Sample Wt/Vol:     | 30.01      Units: g          | Final Vol:      | 2000      uL |
| Soil Aliquot Vol:  | uL                           | Test:           | EPH          |
| Prep Method :      |                              |                 |              |

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|----------------|-----------------|---------------|
| Prep Date :    | Date Analyzed : | Prep Batch ID |
| 01/28/25 08:30 | 01/28/25 16:49  | PB166218      |

Datafile

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|--------------------|--------------------|-------|-----------|----------|------|------------|-------------------|
| <b>TARGETS</b>     |                    |       |           |          |      |            |                   |
| Aliphatic C9-C12   | Aliphatic C9-C12   | 7.22  |           | 1        | 0.38 | 1.00       | mg/kg FG015185.D  |
| Aliphatic C12-C16  | Aliphatic C12-C16  | 6.61  |           | 1        | 0.24 | 0.67       | mg/kg FG015185.D  |
| Aliphatic C16-C21  | Aliphatic C16-C21  | 12.1  |           | 1        | 0.30 | 1.00       | mg/kg FG015185.D  |
| Aliphatic C21-C28  | Aliphatic C21-C28  | 16.3  |           | 1        | 0.80 | 1.33       | mg/kg FG015185.D  |
| Aliphatic C28-C40  | Aliphatic C28-C40  | 27.7  |           | 1        | 1.80 | 2.00       | mg/kg FG015185.D  |
| Aromatic C10-C12   | Aromatic C10-C12   | 6.32  |           | 1        | 0.30 | 0.67       | mg/kg FF015328.D  |
| Aromatic C12-C16   | Aromatic C12-C16   | 11.8  |           | 1        | 0.34 | 1.00       | mg/kg FF015328.D  |
| Aromatic C16-C21   | Aromatic C16-C21   | 22.8  |           | 1        | 0.96 | 1.67       | mg/kg FF015328.D  |
| Aromatic C21-C36   | Aromatic C21-C36   | 35.7  |           | 1        | 2.00 | 2.67       | mg/kg FF015328.D  |
| Total AliphaticEPH | Total AliphaticEPH | 69.9  |           |          | 3.52 | 6.00       | mg/kg             |
| Total AromaticEPH  | Total AromaticEPH  | 76.6  |           |          | 3.60 | 6.01       | mg/kg             |
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| Project:           | Amtrak Sawtooth Bridges 2025 | Date Received:  |                      |
| Client Sample ID:  | PB166218BSD                  | SDG No.:        | Q1194                |
| Lab Sample ID:     | PB166218BSD                  | Matrix:         | Solid                |
| Analytical Method: | NJEPH                        | % Solid:        | 100                  |
| Sample Wt/Vol:     | 30.01      Units:    g       | Final Vol:      | 2000              uL |
| Soil Aliquot Vol:  | uL                           | Test:           | EPH                  |
| Prep Method :      |                              |                 |                      |

|            |           |             |                 |               |
|------------|-----------|-------------|-----------------|---------------|
| File ID :  | Dilution: | Prep Date : | Date Analyzed : | Prep Batch ID |
| FF015328.D | 1         | 01/28/25    | 01/28/25        | PB166218      |

| CAS Number        | Parameter                 | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|---------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                           |       |           |          |            |         |
| Aromatic C10-C12  | Aromatic C10-C12          | 6.32  |           | 0.30     | 0.67       | mg/kg   |
| Aromatic C12-C16  | Aromatic C12-C16          | 11.8  |           | 0.34     | 1.00       | mg/kg   |
| Aromatic C16-C21  | Aromatic C16-C21          | 22.8  |           | 0.96     | 1.67       | mg/kg   |
| Aromatic C21-C36  | Aromatic C21-C36          | 35.7  |           | 2.00     | 2.67       | mg/kg   |
| <b>SURROGATES</b> |                           |       |           |          |            |         |
| 580-13-2          | 2-Bromonaphthalene (SURR) | 67.4  |           | 40 - 140 | 135%       | SPK: 50 |
| 321-60-8          | 2-Fluorobiphenyl (SURR)   | 59.7  |           | 40 - 140 | 119%       | SPK: 50 |
| 84-15-1           | ortho-Terphenyl (SURR)    | 50.6  |           | 40 - 140 | 101%       | SPK: 50 |

## Quantitation Report For Aromatic EPH Range.

|                   |             |                    |                   |
|-------------------|-------------|--------------------|-------------------|
| Lab Sample ID:    | PB166218BSD | Acq On:            | 28 Jan 2025 16:49 |
| Client Sample ID: | PB166218BSD | Operator:          | YP\AJ             |
| Data file:        | FF015328.D  | Misc:              |                   |
| Instrument:       | FID_F       | ALS Vial:          | 65                |
| Dilution Factor:  | 1           | Sample Multiplier: | 1.00              |

| Compound                  | R.T.   |        | Response  | Conc    | highest_standard | Units |
|---------------------------|--------|--------|-----------|---------|------------------|-------|
| Aromatic C10-C12          | 4.485  | 6.355  | 15213196  | 94.864  | 200              | ug/ml |
| Aromatic C12-C16          | 6.356  | 9.053  | 28427662  | 177.311 | 300              | ug/ml |
| Aromatic C16-C21          | 9.054  | 13.372 | 53542946  | 341.723 | 500              | ug/ml |
| Aromatic C21-C36          | 13.373 | 18.824 | 78100409  | 536.424 | 800              | ug/ml |
| Aromatic EPH              | 4.485  | 18.824 | 175284213 | 1150    |                  | ug/ml |
| 2-Bromonaphthalene (SURR) | 7.993  | 7.993  | 8894035   | 67.38   |                  | ug/ml |
| 2-Fluorobiphenyl (SURR)   | 8.866  | 8.866  | 5036514   | 59.67   |                  | ug/ml |
| ortho-Terphenyl (SURR)    | 11.931 | 11.931 | 8717752   | 50.64   |                  | ug/ml |