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CASE NARRATIVE

Portal Partners Tri-Venture
Project Name: Amtrak Sawtooth Bridges 2024
Project # N/A
Chemtech Project # P4718
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 11/05/2024.
2 Water samples were received on 11/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, EPH, EPH, Hexavalent Chromium, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, PCB, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {P4718-02MS} with File ID: BF140272.D recoveries met the requirements for all compounds except for Atrazine[143%], Hexachlorocyclopentadiene[198%] these compounds did not meet the NJDKQP criteria and in-house criteria, due to matrix interference.

The MSD {P4718-02MSD} with File ID: BF140273.D recoveries met the acceptable requirements except for Atrazine[138%], Hexachlorocyclopentadiene[188%] due to matrix interference.

The RPD for {PB164846BSD} with File ID: BF140447.D met criteria except for 3,3-Dichlorobenzidine[22%], 4-Chloroaniline[37%], Atrazine[33%] and Benzaldehyde[200%] due to difference in results of BS and BSD.

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The Blank Spike for {PB164702BS} with File ID: BF140263.D met requirements for all samples except for 3-Nitroaniline[56%], 4-Chloroaniline[43%], Benzaldehyde[19%] these compounds did not meet the NJDKQP criteria but met the in-house criteria , while Hexachlorocyclopentadiene [200%] this compound did not meet the NJDKQP criteria and in-house criteria, are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {PB164846BS} with File ID: BF140446.D met requirements for all samples except for 3-Nitroaniline[67%], 4-Chloroaniline[65%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene [170%] this compound did not meet the NJDKQP criteria and in-house criteria, failing high but no positive hit in associate sample therefore no corrective action taken and Benzaldehyde [0%] this compound did not meet the NJDKQP criteria and in-house criteria, failing low but associate CCAL passing therefore no corrective action taken.

The Blank Spike Duplicate for {PB164846BSD} with File ID: BF140447.D met requirements for all samples except for 3,3-Dichlorobenzidine[62%], 3-Nitroaniline[57%], 4-Chloroaniline[45%], Benzaldehyde[14%] these compounds did not meet the NJDKQP criteria but met the in-house criteria while Hexachlorocyclopentadiene [180%] this compound did not meet the NJDKQP criteria and in-house criteria, failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The % RSD is greater than 20% in the Initial Calibration (8270-BF110524.M) for 2,4-Dinitrophenol, this compound is passing on Linear Regression.

The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____