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CASE NARRATIVE

Portal Partners Tri-Venture

Project Name: Amtrak Sawtooth Bridges 2025

Project # N/A

Chemtech Project # Q1488

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

12 Solid samples were received on 03/04/2025.

3 Water samples were received on 03/04/2025.

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, 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 df The 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 except for PB166982BL [2,4,6-Tribromophenol - 115%], PB166982BS [2,4,6-Tribromophenol - 118%], PB166982BSD [2,4,6-Tribromophenol - 116%], ENV-102-GW01 [2,4,6-Tribromophenol - 116%], these compounds did not meet the NJDKQP criteria but met the in-house criteria, but ENV-104-GW01 [2,4,6-Tribromophenol - 140% and Nitro benzene-d5 - 134%], these compounds did not meet the NJDKQP criteria and in-house criteria but as per method two surrogates are allowed to failed, therefore no corrective action was taken. The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1487-01MS} with File ID: BF141844.D recoveries met the requirements for all compounds except for 3-Nitroaniline[68%], 4-Chloroaniline[48%], Benzo(g,h,i)perylene [58%], Dibenz(a,h)anthracene[68%] and Indeno(1,2,3-

cd)pyrene[68%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The MSD {Q1487-01MSD} with File ID: BF141845.D recoveries met the acceptable requirements except for 4-Chloroaniline[50%], Benzo(g,h,i)perylene[58%] and Indeno(1,2,3-cd)pyrene[68%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The RPD met criteria .

The Blank Spike for {PB166984BS} with File ID: BF141860.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[65%], 3-Nitroaniline[50%] and 4-Chloroaniline[24%], these compounds did not meet the NJDKQP criteria but met the in-house criteria

The Blank Spike for {PB166982BS} with File ID: BF141862.D met requirements for all samples except for 3,3-Dichlorobenzidine[57%], 3-Nitroaniline[67%] and 4-Chloroaniline[39%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank Spike Duplicate for {PB166982BSD} with File ID: BF141863.D met requirements for all samples except for 3,3-Dichlorobenzidine[59%], 3-Nitroaniline[69%] and 4-Chloroaniline[40%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BF022725.M) for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and 2,4-Dinitrophenol, is passing on Quadratic regression.

The Continuous Calibration File ID BF141835.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline and 4-Nitrophenol , The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF141858.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitroaniline, 4-Nitrophenol, Benzo(g,h,i)perylene and Nitrobenzene-d5, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.



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E. Additional Comments:

The Sample ENV-102-SB01, ENV-104-SB01, have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

Sample # ENV-102-GW01, ENV-104-GW01, was received with limited volume.

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

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.

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_____