

CASE NARRATIVE

JPCL Engineering

Project Name: Trenton Youth Wrestling

Project # N/A

Chemtech Project # P4768

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

7 Solid samples were received on 11/07/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: EPH, Mercury, Metals ICP-RCRA, METALS RCRA, PCB, Pesticide-TCL, SVOC-TCL BNA -20 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 3541.

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 except for B-6-2-Due to high concentration of compounds, this sample required dilution. Therefore, sample was reanalyzed with dilution and reported, For B-3-1, BP-B4MS and BP-B4MSD due to matrix interference.

The Retention Times were acceptable for all samples.

The MS {P4756-01MS} with File ID: BF140307.D recoveries met the requirements for all compounds except for 1,1-Biphenyl[118%], 2,4,6-Trichlorophenol[118%], 2-Chlorophenol[109%], 3,3-Dichlorobenzidine[127%], 3-Nitroaniline[100%], 4-Chlorophenyl-phenylether[109%], Atrazine[145%], Benzo(a)anthracene[118%], Butylbenzylphthalate[127%], Dimethylphthalate[118%] and Fluoranthene[127%] due to matrix interference.

The MSD {P4756-01MSD} with File ID: BF140308.D recoveries met the acceptable requirements except for 2,3,4,6-Tetrachlorophenol[118%], 2,4,6-Trichlorophenol[118%], 2-Chlorophenol[109%], 3,3-Dichlorobenzidine[127%], 3-Nitroaniline[100%], 4-Chlorophenyl-phenylether[109%], Atrazine[145%], Benzo(a)anthracene[118%] and Dimethylphthalate[118%] due to matrix interference.

The RPD for {P4756-01MSD} with File ID: BF140308.D met criteria except for 2,4-Dinitrophenol[34%], 4,6-Dinitro-2-methylphenol[40%] due to difference in MS and MSD concentrations.



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The Blank Spike met requirements for all samples .

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 File ID BF140463.D met the requirements except for Benzaldehyde . But associated samples have not positive hit for this compound therefore no corrective action was taken.

The Continuous Calibration File ID BF140501.D met the requirements except for Benzaldehyde . But associated samples have not positive hit for this compound therefore no corrective action was taken.

The Tuning criteria met requirements.

Sample B-6-2 was diluted due to high concentration.

E. Additional Comments:

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.

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_____