

CASE NARRATIVE

R3M Engineering, Inc.

Project Name: MC054.36 23-8-1 LM - Landing Lane New Brunswick

Project # N/A

Chemtech Project # P5093

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

3 Water samples were received on 12/04/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Cyanide, Mercury, Metals ICP-TAL, PCB, Pesticide-TCL, SVOC-TCL BNA -20, TCL+30/TAL, TOC 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 RPD met criteria .

The Blank Spike for {PB165432BS} with File ID: BF140785.D met requirements for all samples except for 3,3-Dichlorobenzidine[68%], 3-Nitroaniline[63%] and 4-Chloroaniline[54%] . These compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank Spike Duplicate for {PB165432BSD} with File ID: BF140786.D met requirements for all samples except for 3-Nitroaniline[62%], 4-Chloroaniline[49%] .

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-BF112124.M) for Benzoic acid, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, these compounds are passing on Linear Regression

The Continuous Calibration File ID BF140760.D met the requirements except for 2,4-Dinitrophenol,4,6-Dinitro-2-methylphenol and 4-Nitrophenol . But associated samples have not positive hit for these compounds therefore no corrective action was taken.



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The Continuous Calibration File ID BF140783.D met the requirements except for 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and 4-Nitrophenol. But associated samples have not positive hit for these compounds therefore no corrective action was taken. The Tuning criteria met requirements.

E. Additional Comments:

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_____