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CASE NARRATIVE

Louis Berger U.S., Inc., A WSP Company

Project Name: NYCDDC Phase II SCI Arthur Kill Road CEQR

Project # N/A

Chemtech Project # O1233

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 01/19/2023.

1 Water sample was received on 01/19/2023.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-PAH, SVOC-TCL BNA -20, TCLP Extraction, TCLP ICP Metals, TCLP Mercury, TCLP METALS, 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 samples were analyzed on instrument BNA_G using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The samples were analyzed on instrument BNA_P using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. 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.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

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

The % RSD is greater than 15% in the Initial Calibration (Method 8270-BF011923.M) for 2-Nitrophenol , Benzoic acid, 2-Nitroaniline , 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Butylbenzylphthalate , Bis(2-ethylhexyl)phthalate, Indeno(1,2,3-cd)pyrene,



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Benzo(g,h,i)perylene, these compounds are passing on Linear Regression and Di-n-octyl phthalate is passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration (8270-BP012323.M) for Hexachlorocyclopentadiene, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 4-Nitrophenol, 2,4-Dinitrotoluene, 4-Nitroaniline, Pentachlorophenol these compounds are passing on Linear Regression and 2-Nitrophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol passing on Quadratic regression.

The Continuous Calibration File ID BF132164.D met the requirements except for 2,4-Dinitrotoluene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BP013571.D met the requirements except for 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Nitrophenol and 4,6-Dinitro-2-methylphenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

The Tuning criteria met requirements.

Sample B-P38C was diluted due to high concentration.

E. Additional Comments:

This data Package has been revised to correct the Client ID of sample # 08 as per client request.

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 <15% 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 > 15% 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_____