



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Aqua Survey, Inc.

Project Name: South Brooklyn Marine Terminal 43-043

Project # N/A

Chemtech Project # P1539

Test Name: SPLP BNA

A. Number of Samples and Date of Receipt:

8 Water samples were received on 02/20/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: EPH, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP Hexavalent Chromium, SPLP ICP Metals, SPLP Mercury, SPLP MetalGroup3, SPLP PCB, SPLP PestGroup1, SPLP Pesticide, SPLP VOA, SPLP VOA GROUP1, SPLP ZHE Ext and Trivalent Chromium. This data package contains results for SPLP BNA.

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 SPLP BNA 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 {P1539-07MS} with File ID: BF137416.D recoveries met the requirements for all compounds except for 1,2,4,5-Tetrachlorobenzene[84%], 1,4-Dioxane[37%], 2,3,4,6-Tetrachlorophenol[78%], bis(2-Ethylhexyl)phthalate[162%], Di-n-octyl phthalate[160%] and Hexachlorocyclopentadiene[0%], due to Matrix interference therefore no corrective action is required .

The MSD {P1539-08MSD} with File ID: BF137417.D recoveries met the acceptable requirements except for 2,3,4,6-Tetrachlorophenol[88%], 3,3-Dichlorobenzidine[122%], bis(2-Ethylhexyl)phthalate[182%], Butylbenzylphthalate[158%], Di-n-octyl phthalate[175%] and Hexachlorocyclopentadiene[0%], due to Matrix interference therefore no corrective action is required .

The RPD met criteria .

The Blank Spike for {PB159259BS} with File ID: BF137401.D met requirements for all samples except for bis(2-Ethylhexyl)phthalate[140%], Butylbenzylphthalate[136%] and



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Di-n-octyl phthalate[134%], biased high but The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike Duplicate 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 (Method 8270-BF022324.M) for 2,4-Dinitrophenol, 4-Nitrophenol, 2,4-Dinitrotoluene, 4-Nitroaniline, 3,3'-Dichlorobenzidine, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, these compounds are passing on Linear Regression and Butylbenzylphthalate , Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate is passing on Quadratic regression

The Continuous Calibration File ID BF137399.D met the requirements except for 3,3-Dichlorobenzidine,Benzidine,Bis(2-ethylhexyl)phthalate,Butylbenzylphthalate,Di-n-butylphthalate and Di-n-octyl phthalate, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

This data Package has been revised due to parameter list changed 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.



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Signature_____