



## **CASE NARRATIVE**

Weston Solutions, Inc. Project Name: RFP 905

Project # N/A

Chemtech Project # Q1421 Test Name: SPLP BNA

# A. Number of Samples and Date of Receipt:

10 Solid samples were received on 02/24/2025.

#### **B.** Parameters

According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. 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 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-GGAThe 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 recoveries met the requirements for all compounds.

The MSD {Q1421-06MSD} with File ID: BP024122.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[120%], due to matrix interference therefore no corrective action is required.

The RPD met criteria.

The Blank Spike for {PB166894BS} with File ID: BP024118.D met requirements for all samples except for Atrazine[131%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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, this compound is passing on Linear Regression and 2,4-Dinitrophenol, is passing on Quadratic regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BP021725.M) for Caprolactam, 2,4-Dinitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression.

The Continuous Calibration File ID BF141804.D met the requirements except for 4-Nitroaniline, marginally high therefore no corrective action was taken.

The Tuning criteria met requirements.

#### E. Additional Comments:

## **Concentration of Water Sample:**

Concentration ug/L = (Ax) (Is) (Vt) (DF) (GPC)

Where.

Ax = Area of the characteristic ion for the compound to be measured.

Ais = Area of the characteristic ion for the internal standard.

Is = Amount of internal standard injected in ng.

Vo = Volume of water extracted in mL.

Vi = Volume of extract injected in uL.

Vt = Volume of the concentrated extract in uL

RRF = Mean Relative Response Factor determined from the initial calibration standard.

GPC = Vin = GPC factor (If no GPC is performed, GPC=1)
Vout

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	<b>;</b>		