SDG NARRATIVE

LAB NAME: CHEMTECH CONSULTING GROUP
CASE: 49755
SDG: C0P61
CONTRACT: 68HERH20D0011
LAB CODE: CHM
CHEMTECH PROJECT: M4799
MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pH
M4799-01	C0P61	1.0
M4799-02	C0P62	1.0
M4799-03	C0P63	1.0

3 Water samples were delivered to the laboratory intact on 11/20/2021.

Test requested on the Chain of Custody was Volatile Organic by Method SFAM01.1.

Sample Tags were not received with the samples.

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.1 degree Celsius for the samples received on 11/20/2021.

Shipping Discrepancies and/or QC issues:

Issue 1: Sample tags were not received with samples at the laboratory. Sample tag numbers may or may not be listed on the TR/COC.

Resolutions 1: The laboratory will note the samples with the missing tags in the SDG Narrative and proceed with the analysis of the samples. The resolution will be applied to all samples received for this Case.

Low Volatiles:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI.
The analysis of VOC-SFAM was based on method SFAM01.1_LOW.

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
Instrument Performance Check met requirements.
The Retention Times were met for all samples.
The Internal Standards Areas met the acceptable requirements.
The Tuning criteria met requirements.
The Initial Calibration met the requirements.
The Continuing Calibration met the requirements.
The blank did not indicate the presence of lab contamination.

The storage blank did not indicate the presence of lab contamination.

See **Manual Integration report f**or the manual integration information at the end of the case narrative.

Calculation:
Low/Med Water Level Calculation

$$\text{Concentration in ug/L} = \frac{(Ax)\,(Is)\,(DF)}{(Ais)\,(RRF)\,(Vo)}$$

Where,
Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.
Amount of internal standard added in ng.
RRF = Mean Relative Response Factor from the initial calibration standard.
Vo = Total volume of water purged, in mL.
DF = Dilution Factor

Example Calculation for sample **C0P62** for **Carbon disulfide**

Ax= 24624
Is= 250
RRF= 0.660
DF= 1
Ais= 157339
Vo. = 5

$$\text{Concentration in ug/L} = \frac{(24624)\,(250)\,(1)}{(157339)(0.660)(5)}$$

Reported Result = 12ug/L

Relative Response Factor = **Dichlorodifluoromethane**: RUN **VX112221** for **5.0** ppb

$$RRF = \frac{\text{Area of compound}}{\text{Area of Internal Standard}} \times \frac{\text{Conc. of Internal Standard}}{\text{Conc. of Compound}}$$

$$RRF = \frac{5201}{175065} \times \frac{50}{5.0}$$

RRF= 0.297

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 _____ Name: Nimisha Pandya.

Date: _____ Title: Document Control Officer.