



SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC

CASE: 51933

SDG: E2AT0

CONTRACT: 68HERH20D0011

LAB CODE: ACE

LAB ORDER ID: P5229

MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pH
P5228-01	E29R7	
P5228-03	E2AT0	
P5228-04	E2AT4	
P5228-11	E2AT1	
P5228-12	E2AT5	
P5228-13	E29R6	
P5228-14	E29S9	

04 Water samples were delivered to the laboratory intact on 12/10/2024.

09 Water samples were delivered to the laboratory intact on 12/12/2024.

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

The temperature of the samples was measured using an I R Gun. The samples temperature was 1.9, 1.9, 1.8, 1.7 degree Celsius for the samples received on 12/10/2024, 2.0, 2.1, 2.4, 2.5, 2.8 degree Celsius for the samples received on 12/12/2024.

Shipping Discrepancies and/or QC issues:

Issue 01: SDGs E29R7 and E2AT0 for water samples require Laboratory QC but no sample was designated on the COC. There is no extra volume for water samples and the laboratory would like to proceed without Laboratory QC for water samples.

Resolution 01: Per Region 5, the laboratory will note the issue in the SDG Narrative and proceed without Laboratory QC.

Semivolatiles SIM:

The samples were analyzed on instrument BNA_M using GC Column ZB-GR Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA.



Semis volatile Organic sample for Water sample was extracted by Method SFAM01.1 on 12/11/2024 and 12/12/2024. The analysis of SVOCMS Group3 was based on method SFAM01.1_SVOC.

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 Blank Spike for {PB165611BS} recoveries met the requirements for all compounds.

The Blank Spike for {PB165614BS} recoveries met the requirements for all compounds.

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

The Tuning criteria met requirements.

The Initial Calibration met requirements.

The Continuous Calibration met requirements.

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

Concentration of Water Sample:

$$\text{Concentration ug/L} = \frac{(A_x) (I_s) (V_t) (DF) (GPC)}{(A_{is}) (\overline{RRF}) (V_o) (V_i)}$$

Where,

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

A_{is} = Area of the characteristic ion for the internal standard.

I_s = Amount of internal standard injected in ng.

V_o = Volume of water extracted in mL.

V_i = Volume of extract injected in uL.

V_t = Volume of the concentrated extract in uL

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

GPC = $\frac{V_{in}}{V_{out}}$ = GPC factor (If no GPC is performed, GPC=1)

No positive target compounds were detected in the samples.

RRF Calculation of standard 0.4 ppb for **1,4-Dioxane** with M instrument for method 12/09/2024.

$$\begin{aligned} \text{RRF} &= \frac{\text{Area of compound}}{\text{Area of Internal Standard}} \times \frac{\text{Conc. of Internal Standard}}{\text{Conc. of Compound}} \\ &= 2264/3702 \times 0.4/0.4 \end{aligned}$$



= 0.612 (Reported RRF)

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.