SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC
CASE: 51834
SDG: E27L5
CONTRACT: 68HERH20D0011
LAB CODE: ACE
LAB ORDER ID: P4784
MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pH
P4784-01	E27L5	
P4784-02	E27N0	
P4784-03	E27N1	
P4784-04	E27N2	
P4784-05	E27N3	
P4784-06	E27N7	
P4784-07	E27N8	
P4784-08	E27N9	
P4784-09	E27P0	
P4784-10	E27P1	
P4784-11	E27P3	
P4784-12	E27P5	
P4784-13MS	E27P5MS	
P4784-14MSD	E27P5MSD	
P4784-15	E27P7	
P4784-16	E27P2	
P4784-17	E27P4	
P4784-18	E27P6	
P4784-19	E27P8	

05 Water samples were delivered to the laboratory intact on 11/08/2024.
14 Water samples were delivered to the laboratory intact on 11/09/2024.

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

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.4 degree Celsius for the samples received on 11/08/2024, 1.3, 2.4, 1.3 degree Celsius for the samples received on 11/09/2024

Semivolatiles:

The samples were analyzed on instrument BNA_G 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.

The samples were analyzed on instrument BNA_P 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 11/13/2024 and 11/14/2024, The analysis of SVOC-SFAM was based on method SFAM01.1_SVOC.

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for,
E27N7 [1,4-Dioxane-d8 - 476%] and
E27N8 [1,4-Dioxane-d8 - 422%].
E27P5MSD [Pyrene-d10 - 133%]. As per method four surrogates are allowed to fail. Therefore no further corrective action was taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS {E27P5MS} recovery met the requirements for all compounds.
The MSD {E27P5MSD} recovery met the requirements for all compounds.
The RPD {E27P5MSD} RPD met the requirements for all compounds.
The Blank Spike for {PB164957BS} recoveries met the requirements for all compounds.
The Blank Spike for {PB164958BS} recoveries met the requirements for all compounds.
The Blank Spike for {PB164976BS} recoveries met the requirements for all compounds.
The Blank Spike for {PB164977BS} recoveries met the requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Tuning criteria met the requirements.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.

Samples E27P1 and E27P8 have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

Concentration of Water Sample:

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

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 = Volume of extract collected after GPC cleanup.

No positive target compounds were detected in the samples.

RRF Calculation of standard 20 ppb for **Naphthalene** with G instrument for method 11/06/2024.

RRF= Area of compound / Area of Internal Standard X Conc. of Internal Standard / Conc. of Compound

= 267121/252685 X 20/20

= 1.057 (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.