SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC
CASE: 51933
SDG: E2AQ3
CONTRACT: 68HERH20D0011
LAB CODE: ACE
LAB ORDER ID: P5332
MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pH
P5331-01	E2AQ1	
P5331-02MS	E2AQ1MS	
P5331-03MSD	E2AQ1MSD	
P5331-05	E2AQ3	

04 Soil samples were delivered to the laboratory intact on 12/18/2024.

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 1.8, 1.6 degree Celsius for the samples received on 12/18/2024.

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 samples for Soil were extracted by Method SFAM01.1 on 12/19/2024.
The analysis of SVOCMS Group3 was based on method SFAM01.1_SIM.

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 {E2AQ1MS} recovery met the requirements for all compounds.
The MSD {E2AQ1MSD} recovery met the requirements for all compounds.
The RPD {E2AQ1MSD} RPD met the requirements for all compounds
The Blank Spike for {PB165752BS} 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 the requirements.
The Continues Calibration met the requirements.

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

Concentration of SOIL Sample:

Concentration ug/Kg,

$$\text{(dry weight basis)} = \frac{(Ax)\,(Is)\,(Vt)\,(DF)\,(GPC)}{(Ais)\,(RRF)\,(Vi)\,(Wt)\,(D)}$$

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.
Vi = Volume of extract injected in microliters (uL)
Vt = Volume of concentrated extract in microliters (uL)
Wt = Weight of the original sample extracted in g
Df = Dilution factor
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.

$$D = \frac{100 - \%\text{moisture}}{100}$$

No positive target compounds were detected in the samples.

RRF Calculation of standard 0.4 ppb **1,4-Dioxane** with instrument M for method 12/18/2024.

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

Area of Internal Standard Conc. of Compound

= 3185/4849 X 0.4/0.4

= 0.657 (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.