

SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC CASE: 51887 SDG: F7H70 CONTRACT: 68HERH20D0011 LAB CODE: ACE LAB ORDER ID: P4942 MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pН
P4942-01	F7H70	
P4942-02	F7H71	
P4942-03	F7H72	
P4942-04	F7H73	
P4942-05	F7H74	
P4942-06	F7H75	
P4942-07	F7H76	
P4942-08	F7H77	
P4942-09	F7H78	
P4942-10	F7H79	
P4942-11	F7H80	

11 Soil samples were delivered to the laboratory intact on 11/21/2024.

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

The temperature of the samples was measured using an I R Gun. The samples temperature was 2.3 degree Celsius for the samples received on 11/21/2024.

Low Volatiles:

The analysis performed on instrument MSVOA_W were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.

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 except for F7H70 [1,2-Dichlorobenzene-d4 - 70%],



2 of 3 F7H71 [1,2-Dichlorobenzene-d4 - 69%, 1,2-Dichloroethane-d4 - 68%, 1,2-Dichloropropane-d6 -69%], F7H75 [1,2-Dichlorobenzene-d4 - 74%], F7H77 [1,1,2,2-Tetrachloroethane-d2 - 121%], F7H79 [1,2-Dichlorobenzene-d4 - 46%], F7H80 [1 and2-Dichlorobenzene-d4 - 75%], As per method, up to three surrogates are allowed to fail. No corrective action was taken.

The Internal Standards Areas met the acceptable requirements. Instrument Performance Check met requirements. The Retention Times were met for all samples. The Tuning criteria met requirements. The initial Calibration criteria met requirements. The Continuing Calibration criteria met requirements. The blank analysis did not indicated the presence of lab Contamination. The Storage blank analysis did not indicated 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 Level Soil/Sediment Calculation

Concentration in ug/Kg dry Weight basis) = $\frac{(Ax)(Is)(Df)}{(Ais)(RRF)(Ws)(D)}$ Where, Ax = Area for the compound to be measured Ais = Area for the specific internal standard Is = Amount of internal standard added in Nano grams (ng) RRF = Relative response factor of the calibration standard. Df = Dilution factor Ws= Weight of sample

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

Example Calculation for sample: F7H72 for Tetrachloroethene:

Ax= 24691 Is= 250 RRF= 0.347 DF=1 Ais= 379164 Ws= 8.8



D=0.846

Concentration in ug/KG = (24691)(250)(1)(379164) (0.347) (8.8) (0.846)

= 6.3 ug//Kg

Final Reported Results = 6.3 ug/Kg

Relative Response Factor = **Dichlorodifluoromethane**: RUN **VW112024** for **5.0** ppb

 RRF=
 Area of compound
 X
 Conc. of Internal Standard

 Area of Internal Standard
 Conc. of Compound
 Conc. of Compound

 $RRF= \begin{array}{c} 23856 \text{ X} \\ 401480 \end{array} \begin{array}{c} 25 \\ 5.0 \end{array}$

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.

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RRF= 0.297