



SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC

CASE: 51929 SDG: F7J16

CONTRACT: 68HERH20D0011

LAB CODE: ACE

LAB ORDER ID: P5252

MODIFICATION REF. NUMBER: NA

| Sample ID | EPA Sample ID | pН |
|-------------|----------------------|-----|
| P5252-01 | F7J16 | 1.0 |
| P5252-02 | F7J17 | 1.0 |
| P5252-03 | F7J18 | 1.0 |
| P5252-04 | F7J19 | 1.0 |
| P5252-05 | F7J20 | 1.0 |
| P5252-06MS | F7J20MS | 1.0 |
| P5252-07MSD | F7J20MSD | 1.0 |
| P5252-08 | F7J21 | 1.0 |
| P5252-09 | F7J22 | 1.0 |
| P5252-10 | F7J23 | 1.0 |
| P5252-11 | F7J49 | 1.0 |
| P5252-12 | F7J50 | 1.0 |
| P5252-13 | F7J52 | 1.0 |

13 Soil samples were delivered to the laboratory intact on 12/11/2024.

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 2.8 degree Celsius for the samples received on 12/11/2024.

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.

Holding Times were met requirement.

The Surrogate recoveries met the acceptable criteria except for,





F7J18 [Toluene-d8 - 76%],

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 met requirements.

The Tuning criteria met requirements.

The MS {F7J20MS} recovery met the requirements for all compounds.

The MSD {F7J20MSD} recovery met the requirements for all compounds.

The RPD {F7J20MSD} RPD met the requirements for all compounds.

The Initial Calibration met the requirements.

The Continuing Calibration Calibration met the requirements.

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

The Storage blank analysis did not indicate the presence of lab contamination.

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

Calculation:

Low/Med Water Level Calculation

Concentration in ug/L =
$$(Ax) (Is) (DF)$$

(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 of **F7J16** for **Trichloroethene**:

Ax = 59837Is = 250

RRF=0.415

DF=1

Ais= 179733

Vo. = 5





(59837) (250) (1) Concentration in ug/L = (179733)(0.415)(5)Reported Result = 40.11 ug/LFinal Reported Result = 40 ug/L Relative Response Factor = **Dichlorodifluoromethane**: RUN **VX120524** for **5.0** ppb RRF= Area of compound X Conc. of Internal Standard Area of Internal Standard Conc. of Compound RRF= <u>8793 X</u> <u>50</u> 234557 5.0 RRF= 0.375 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.