



SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC

CASE: 51798 SDG: A0BD7

CONTRACT: 68HERH20D0011

LAB CODE: ACE

CHEMTECH PROJECT: P4416

MODIFICATION REF. NUMBER: 3147.0

Sample ID	EPA Sample ID	pН
P4416-01	A0BD7	
P4416-02	A0BD8	
P4416-03MS	A0BD8MS	
P4416-04MSD	A0BD8MSD	

04 Soil samples were delivered to the laboratory intact on 10/16/2024.

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

The temperature of the samples was measured using an I R Gun. The samples temperature was 4.3 degree Celsius for the samples received on 10/16/2024.

Aroclors:

The analyses were performed on instrument GC ECD_Q. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.

The sample was analyzed on a single injection dual column system. To distinguish the second column analysis from the first column a -2 suffix was added to the file id on the form 1. These refer to forms were both columns are reported. Form 1s for the IBLK and ALCS are referenced as IBLK(1)/IBLK(2), MS(1)/MS(2), MSD(1)/MSD(2) and ALCSO1(1)/ALCSO1(2) respectively.

Aroclor sample was extracted by Method SFAM01.1 on 10/21/2024 and analyzed on 10/23/2024 All the samples were subjected to a Sulfuric acid cleanup. The sample was extracted and analyzed within contractual holding time.

The Surrogate recoveries met the acceptable criteria except for

A0BD8 [Decachlorobiphenyl(1) -29%],

The SOW allows one surrogate to fail to meet the criteria per column. ((Please See Section 11.3.6 of Exhibit D Aroclor Analysis).

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A0BD8MS met the requirements.

A0BD8MSD met the requirements.

The RPD met the requirements.

The Laboratory Control Sample met requirements.

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

The Initial Calibration met the requirements.

The Continuing Calibrations met the requirements.

The Retention Times were acceptable for all samples.

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

Calculation for Concentration in Soil samples:

Concentration ug/Kg (Dry weight basis) =
$$\underline{(Ax) (Vt) (DF) (GPC)}$$

(CF) (Vi) (Ws) (D)

Where,

Ax = Response (peak area or height) of the compound to be measured.

CF = Mean Calibration Factor from the initial calibration (area/ng).

Vt = Volume of the concentrated extract in uL

Vi = Volume of extract injected (uL). (If a single injection is made onto two columns, use $\frac{1}{2}$ the volume in the syringe as the volume injected onto each column).

Ws = Weight of sample extracted (g).

D = % dry weight or 100 - % Moisture

100

 $GPC = \underline{Vin} = GPC \text{ factor (If no GPC is performed, GPC=1)}$

Von

DF = Dilution Factor

Example of AR1260 calculation for Peak 1

Calibration factor Peak 1 100ppb ISTD= <u>peak area</u>
Column1 <u>peak area</u>
Mass injected ng

 $= \frac{52273157}{0.100}$

= 522731570 calibration factor for Peak 1 100ppb

Average of 5 peaks = 488893157

Sample A0BD7

Ax = 210808199

CF = 488893157





 $Vt = 10000 \\ Vi = 1.0 \\ Ws = 30.1 \\ D = 0.846 \\ GPC = 1.0 \\ DF = 1.0$

Concentration ug/Kg (Dry weight basis) = (\underline{Ax}) (Vt) (DF) (GPC) (CF) (Vi) (Ws) (D) = $(\underline{210808199})$ (10000) (1.0) (1.0) (48893157) (1.0) (30.1) (0.846)

Peak 1 = 169.33

Average of 5 peaks = 148.80

Reported results = 150 ug/kg

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.