

SDG NARRATIVE

LAB NAME: Alliance Technical Group, LLC CASE: 51963 SDG: DCZH0 CONTRACT: 68HERH20D0011 LAB CODE: ACE LAB ORDER ID: Q1139 MODIFICATION REF. NUMBER: NA

Sample ID	EPA Sample ID	pН
Q1139-01	DCZH0	
Q1139-01DL	DCZH0DL	
Q1139-02	DCZH1	
Q1139-02DL	DCZH1DL	
Q1139-03	DCZH2	
Q1139-04MS	DCZH2MS	
Q1139-05MSD	DCZH2MSD	
Q1139-06	DCZH3	
Q1139-06DL	DCZH3DL	
Q1139-06DL2	DCZH3DL2	
Q1139-06ME	DCZH3ME	
Q1139-06MEDL	DCZH3MEDL	
Q1139-07	DCZH4	
Q1139-07DL	DCZH4DL	
Q1139-07DL2	DCZH4DL2	
Q1139-07ME	DCZH4ME	
Q1139-07MEDL	DCZH4MEDL	
Q1139-08	DCZH5	
Q1139-08DL	DCZH5DL	
Q1139-08DL2	DCZH5DL2	
Q1139-08ME	DCZH5ME	
Q1139-09	DCZH6	
Q1139-09DL	DCZH6DL	
Q1139-09DL2	DCZH6DL2	
Q1139-10	DCZH7	
Q1139-10DL	DCZH7DL	
Q1139-10DL2	DCZH7DL2	
Q1139-11	DCZH8	
Q1139-11DL	DCZH8DL	



Q1139-12	DCZH9	
Q1139-12DL	DCZH9DL	
Q1139-12DL2	DCZH9DL2	
Q1139-12ME	DCZH9ME	
Q1139-12MEDL	DCZH9MEDL	
Q1139-13	DCZJ0	
Q1139-13DL	DCZJ0DL	
Q1139-14	DCZJ1	
Q1139-15	DCZJ2	
Q1139-16	DCZJ3	
Q1139-17	DCZJ4	
Q1139-18	DCZJ5	
Q1139-19	DCZJ6	
Q1139-19DL	DCZJ6DL	
Q1139-20	DCZJ7	
Q1139-21	DCZJ8	
Q1139-22	DCZJ9	

20 Soil samples were delivered to the laboratory intact on 01/21/2025. 02 Soil samples were delivered to the laboratory intact on 01/21/2025.

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 2.1 degree Celsius for the samples received on 01/21/2025.

Shipping Discrepancies and/or QC issues:

Issue 1: "Lab has received soil samples for SVOA-PAH full scan analysis. Lab has analyzed undiluted SVOA analysis and samples found positive with high concentration of target analytes detected as you can see attached form-1 with quant reports. Due to very high concentrations of target analytes, samples have one of the internal standards recoveries outside the QC limits therefore lab would like to confirm that lab will report undiluted SVOA analysis with internal standard failure and further dilution analysis for final electronic deliverables.

Resolution 1: "The Region concurs with the lab's approach."

Semivolatiles:

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.

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3 of 5 Semis volatile Organic for water sample was extracted by Method SFAM01.1 on 01/21/2025, for soil sample was extracted by Method SFAM01.1 on 01/21/2025, 01/24/2025, The analysis of SVOC-PAH-SFAM was based on method SFAM01.1_SVOC.

The Holding Times were met for all analysis The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for,

Sample DCZH4, DCZH6. Lab has analyzed undiluted SVOA analysis and samples found positive with high concentration of target analytes detected. Due to very high concentrations of target analytes, samples have one of the internal standards recoveries outside the QC limits therefore lab has reported undiluted SVOA analysis with internal standard failure and further dilution analysis for final Hardcopy.

The Retention Times were acceptable for all samples.

The MS {DCZH2MS} recovery met the requirements for all compounds.

The MSD {DCZH2MSD} recovery met the requirements for all compounds.

The MSD {DCZH2MSD} RPD met the requirements for all compounds

The Blank Spike for {PB166160BS} recoveries met the requirements for all compounds.

The Blank Spike for {PB166161BS} recoveries met the requirements for all compounds.

The Blank Spike for {PB166231BS} 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 DCZH0, DCZH1, DCZH3, DCZH3DL, DCZH3ME, DCZH4, DCZH4DL, DCZH4ME, DCZH5, DCZH5DL, DCZH6, DCZH6DL, DCZH7, DCZH7DL, DCZH8, DCZH9, DCZH9DL, DCZH9ME, DCZJ0 and DCZJ6 were diluted due to high concentrations.

The Sample DCZH3, DCZH4, DCZH9 per method analyzed at 1 GM at Medium analysis. Undiluted analysis and medium level analysis reported for the hardcopy and SEDD for this sample.

The Sample DCZH4, DCZH4DL2, DCZH4ME, DCZH4MEDL, DCZH5DL, DCZH5ME and DCZH6DL2 have the concentration of target compound below method detection limits; therefore it is not reported as Hit in Form1.

Concentration of Water Sample:

Concentration ug/L = (Ax) (Is) (Vt) (DF) (GPC)

(Ais) (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 = \underline{Vin} = GPC factor (If no GPC is performed, GPC=1) Vout = Volume of extract collected after GPC cleanup.

Concentration of SOIL Sample:

Concentration ug/Kg,

(dry weight basis) = (Ax) (Is) (Vt) (DF) (GPC)

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=100 - % moisture

100

Example calculation of DCZH0 for Naphthalene:

Ax = 1548621 Ais = 899448 Is = 20 Vi = 1 Vt = 500 Wt = 30.1 Df = 1 RRF = 1.061 GPC = 2 D = 0.826

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Concentration

(dry weight basis) ug/Kg = (1548621) (20) (500) (1) (2)

(899448) (1.061) (1) (30.1) (0.826)

= 1300 ug/Kg

RRF Calculation of standard 20 ppb for Naphthalene with M instrument for method 01/13/2025.

- RRF= Area of compound / X Conc. of Internal Standard / Area of Internal Standard Conc. of Compound
 - = 1234861/1048568 X 20/20
 - = 1.178 (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.

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