

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51921 MA No.: _____ SDG No.: GCPD8
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
GCPD8	Q1039-01	X			
GCPD9	Q1039-02	X			
GCPE0	Q1039-03	X			
GCPE0D	Q1039-04	X			
GCPE0S	Q1039-05	X			
GCPE1	Q1039-06	X			
GCPE2	Q1039-07	X			
GCPE3	Q1039-08	X			
GCPE4	Q1039-09	X			
GCPE5	Q1039-10	X			
GCPE6	Q1039-11	X			
GCPE7	Q1039-12	X			
GCPE8	Q1039-13	X			
GCPE9	Q1039-14	X			
GCPF0	Q1039-15	X			
GCPF1	Q1039-16	X			
GCPF2	Q1039-17	X			
GCPF3	Q1039-18	X			
GCPF4	Q1039-19	X			
GCPF5	Q1039-20	X			
GCPF6	Q1039-21	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____
 Date: _____ Title: _____

68HERH20D0011

SDG # GCPD8

USEPA CLP Inorganics COC (LAB COPY)

Region 7 SCRIBE COC Record

No: 7-010725-131535-0000

Date Shipped: 1/8/2025

Case #: 51921

Lab: Alliance Technical Group LLC (ACE)

Carrier Name: FedEx

Airbill No: 8176 1044 3362

Project Code: KMA7K2012500007

Lab Contact: Sample Receipt
Lab Phone: (908) 789-8900

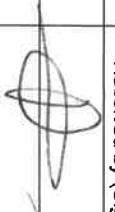
Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
2500007-01	GCPD8	Soil/SET/	Grab	SoilMeisAES(21)	2500007001 (4°C) (1)	3932-C1	10/31/2024 10:47	
2500007-02	GCPD9	Soil/SET/	Grab	SoilMeisAES(21)	2500007002 (4°C) (1)	3932-C2	10/31/2024 10:34	
2500007-03	GCPD0	Soil/SET/	Grab	SoilMeisAES(21)	2500007003 (4°C) (1)	3932-C3	10/31/2024 10:36	
2500007-04	GCPD1	Soil/SET/	Grab	SoilMeisAES(21)	2500007004 (4°C) (1)	3932-C4	10/31/2024 10:38	
2500007-05	GCPD2	Soil/SET/	Grab	SoilMeisAES(21)	2500007005 (4°C) (1)	3932-C5	10/31/2024 10:49	
2500007-06	GCPD3	Soil/SET/	Grab	SoilMeisAES(21)	2500007006 (4°C) (1)	3932-C6	10/31/2024 10:51	
2500007-07	GCPD4	Soil/SET/	Grab	SoilMeisAES(21)	2500007007 (4°C) (1)	3932-C7	10/31/2024 10:53	
2500007-08	GCPD5	Soil/SET/	Grab	SoilMeisAES(21)	2500007008 (4°C) (1)	3932-DW	10/31/2024 10:55	
2500007-09	GCPD6	Soil/SET/	Grab	SoilMeisAES(21)	2500007009 (4°C) (1)	3932-DZ	10/31/2024 10:57	
2500007-10	GCPD7	Soil/SET/	Grab	SoilMeisAES(21)	2500007010 (4°C) (1)	4565-C1	11/22/2024 09:31	
2500007-11	GCPD8	Soil/SET/	Grab	SoilMeisAES(21)	2500007011 (4°C) (1)	4565-C2	11/22/2024 09:29	
2500007-12	GCPD9	Soil/SET/	Grab	SoilMeisAES(21)	2500007012 (4°C) (1)	4565-C3	11/22/2024 09:27	
2500007-13	GCPD0	Soil/SET/	Grab	SoilMeisAES(21)	2500007013 (4°C) (1)	4565-C4	11/22/2024 09:25	
2500007-14	GCPD1	Soil/SET/	Grab	SoilMeisAES(21)	2500007014 (4°C) (1)	4565-C5	11/22/2024 09:23	
2500007-15	GCPD2	Soil/SET/	Grab	SoilMeisAES(21)	2500007015 (4°C) (1)	4565-C6	11/22/2024 09:21	
2500007-16	GCPD3	Soil/SET/	Grab	SoilMeisAES(21)	2500007016 (4°C) (1)	4565-C7	11/22/2024 09:19	
2500007-17	GCPD4	Soil/SET/	Grab	SoilMeisAES(21)	2500007017 (4°C) (1)	4565-DW1	11/22/2024 09:17	
2500007-18	GCPD5	Soil/SET/	Grab	SoilMeisAES(21)	2500007018 (4°C) (1)	4565-DW2	11/22/2024 09:15	
2500007-19	GCPD6	Soil/SET/	Grab	SoilMeisAES(21)	2500007019 (4°C) (1)	4565-FF	11/22/2024 09:13	

Sample(s) to be used for Lab QC: 2500007-03 Tag 2500007003 - Special Instructions: Soil metals by ICPAES will be collected in 1 whirlpak or ziplock baggie for each sample, and will be enough for all analyses and the designated QCs=MS/MSDs at full volumes. EPA - Region 7 requesting that only As, Ba, Cd, Cr, Co & Pb soil metals by ICPAES analyses be analyzed/reported on all samples for this CASE and that %solids needed/required on all samples for this CASE. oil metals by ICPAES PT sample (with instructions & PT ID R03272403-24) will be included/packed/shipped with the above field samples. This case is shipped with case 51925 and will not include ice. The CLP lab should note the temperature on the case narrative and proceed with analysis.

Analysis Key: SoilMeisAES=SoilMeisbyICPAES

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
CLP Shipping & Analysis	KATELYN ORTIGIES Digitally signed by KATELYN ORTIGIES Date: 2025.01.08 07:03:02Z-0600			1-9-25 AM	IR Gun #1
				9:40	Temp 5.8°C Temp blank present Custody seal intact

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>Gorge Weslow</u>		Log-in Date 1/9/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51921	SDG No. GCPD8	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>817610443362</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>5.8</u> Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	<u>01/09/2025</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	GCPD8	N/A	2500007001	Q1039-01	Intact
2	GCPD9	N/A	2500007002	Q1039-02	Intact
3	GCPE0	N/A	2500007003	Q1039-03	Intact
4	GCPE0D	N/A	2500007003	Q1039-04	Intact
5	GCPE0S	N/A	2500007003	Q1039-05	Intact
6	GCPE1	N/A	2500007004	Q1039-06	Intact
7	GCPE2	N/A	2500007005	Q1039-07	Intact
8	GCPE3	N/A	2500007006	Q1039-08	Intact
9	GCPE4	N/A	2500007007	Q1039-09	Intact
10	GCPE5	N/A	2500007008	Q1039-10	Intact
11	GCPE6	N/A	2500007009	Q1039-11	Intact
12	GCPE7	N/A	2500007010	Q1039-12	Intact
13	GCPE8	N/A	2500007011	Q1039-13	Intact
14	GCPE9	N/A	2500007012	Q1039-14	Intact
15	GCPF0	N/A	2500007013	Q1039-15	Intact
16	GCPF1	N/A	2500007014	Q1039-16	Intact
17	GCPF2	N/A	2500007015	Q1039-17	Intact
18	GCPF3	N/A	2500007016	Q1039-18	Intact
19	GCPF4	N/A	2500007017	Q1039-19	Intact
20	GCPF5	N/A	2500007018	Q1039-20	Intact
21	GCPF6	N/A	2500007019	Q1039-21	Intact
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>1/9/25</u>	Logbook Page No. N/A

FORM DC-2
COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	Alliance Technical Group, LLC		
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51921	SDG NO.	GCPD8
MA NO.		SOW NO.	SFAM01.1

All documents delivered in the Complete SDG File must be original documents where possible.
(Reference - Exhibit B Section 2.4)

	PAGE NOS:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	2	✓	
3. Sample Log-In Sheet (DC-1)	3	3	✓	
4. CSF Inventory Sheet (DC-2)	4	6	✓	
5. SDG Narrative	7	8	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	9	10	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	11	29	✓	
9. Instrument raw data by instrument in analysis order	30	621	✓	
Other Data				
10. Standard and Reagent Preparation Logs	622	778	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	779	780	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	781	801	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
18. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOS:		CHECK	
	FROM	TO	LAB	REGION
23 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
24 . Raw GPC Data	NA	NA	✓	
25 . Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (Mercury)

26 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
27 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

28 . Standard and Reagent Preparation Logs	NA	NA	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
33 . Raw GPC Data	NA	NA	✓	
34 . Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (Cyanide)

35 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

37 . Standard and Reagent Preparation Logs	NA	NA	✓	
38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	✓	
43 . Raw Florisil Data	NA	NA	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)Audited by:
(EPA)

Nimisha Pandya, Document Control Officer

(Signature)

(Print Name & Title)

(Date)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
802	802	✓	
NA	NA	✓	
803	804	✓	
NA	NA	✓	
805	805	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # GCPD8

CASE # 51921

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # Q1039

A. Number of Samples and Date of Receipt

19 Soil samples were delivered to the laboratory intact on 01/09/2025.

B. Parameters

Test requested for Metals CLP12 = Arsenic, Barium, Cadmium, Chromium, Cobalt, Lead.

C. Cooler Temp

Indicator Bottle: **Presence**/Absence

Cooler: 5.8°C

D. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

E. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

$$\text{Concentration (mg/kg)} = C \times \frac{V_f}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)

Vf = Final digestion volume (mL)



**284 Sheffield Street
Mountainside, NJ 07092**

W = Initial aliquot amount (g) (Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

Example Calculation For Sample GCPD8 For Arsenic :

If C = 0.0823601 ppm

Vf = 100 ml

W = 1.12 g

S = 0.966(96.6/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.0823601 \times \frac{100}{1.12 \times 0.966} \times 1$$

$$= 7.61240 \text{ mg/kg}$$

$$= 7.6 \text{ mg/kg (Reported Result with Signification)}$$

F. QA/ QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature _____

Name: Nimisha Pandya

Date _____

Title: Document Control Officer

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/10/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 12:35
In Date: 01/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:35
Out Date: 01/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134210

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1039-01	GCPD8	1	1.15	8.61	9.76	9.47	96.6	
Q1039-02	GCPD9	2	1.15	8.68	9.83	9.53	96.5	
Q1039-03	GCPE0	3	1.18	8.49	9.67	9.38	96.6	
Q1039-04	GCPE0D	4	1.18	8.49	9.67	9.38	96.6	
Q1039-05	GCPE0S	5	1.18	8.49	9.67	9.38	96.6	
Q1039-06	GCPE1	6	1.16	8.37	9.53	9.29	97.1	
Q1039-07	GCPE2	7	1.12	8.70	9.82	9.55	96.9	
Q1039-08	GCPE3	8	1.16	8.61	9.77	9.5	96.9	
Q1039-09	GCPE4	9	1.15	8.73	9.88	9.58	96.6	
Q1039-10	GCPE5	10	1.15	8.37	9.52	9.45	99.2	
Q1039-11	GCPE6	11	1.16	8.41	9.57	9.27	96.4	
Q1039-12	GCPE7	12	1.15	8.58	9.73	9.36	95.7	
Q1039-13	GCPE8	13	1.15	8.43	9.58	9.16	95.0	
Q1039-14	GCPE9	14	1.15	8.37	9.52	9.17	95.8	
Q1039-15	GCPF0	15	1.16	8.65	9.81	9.23	93.3	
Q1039-16	GCPF1	16	1.14	8.49	9.63	9.28	95.9	
Q1039-17	GCPF2	17	1.15	8.40	9.55	9.29	96.9	
Q1039-18	GCPF3	18	1.14	8.76	9.9	9.52	95.7	
Q1039-19	GCPF4	19	1.16	8.49	9.65	9.47	97.9	
Q1039-20	GCPF5	20	1.14	8.45	9.59	9.34	97.0	
Q1039-21	GCPF6	21	1.15	8.54	9.69	9.52	98.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

134210

WorkList Name : %Q1039

WorkList ID : 186834

Department : Wet-Chemistry

Date : 01-09-2025 11:40:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1039-01	GCPD8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-02	GCPD9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-03	GCPE0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-04	GCPE0D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-05	GCPE0S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-06	GCPE1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-07	GCPE2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-08	GCPE3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-09	GCPE4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-10	GCPE5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-11	GCPE6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-12	GCPE7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/31/2024	Chemtech -SO
Q1039-13	GCPE8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-14	GCPE9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-15	GCPF0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-16	GCPF1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-17	GCPF2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-18	GCPF3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-19	GCPF4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-20	GCPF5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO
Q1039-21	GCPF6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/22/2024	Chemtech -SO

Date/Time 01-09-25 12:00

Raw Sample Received by: RB (wpc)

Raw Sample Relinquished by: JTCm

Date/Time 01-09-25

Raw Sample Received by: JTCm

Raw Sample Relinquished by: JTCm