SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51921 MA No.: SDG No.: GCPH6

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
GCPH6	Q1042-01	X			
GCPH7	Q1042-02	X			
GCPH8	Q1042-03	X			
GCPH9	Q1042-04	X			
GCPH9D	Q1042-05	X			
GCPH9S	Q1042-06	X			
GCPJ0	Q1042-07	X			
GCPJ1	Q1042-08	X			
GCPJ2	Q1042-09	X			
GCPJ3	Q1042-10	X			
GCPJ4	Q1042-11	X			
GCPJ5	Q1042-12	X			
GCPJ6	Q1042-13	X			
GCPJ7	Q1042-14	X			
GCPJ8	Q1042-15	X			
GCPJ9	Q1042-16	X			
GCPK0	Q1042-17	X			
GCPK1	Q1042-18	X			
GCPK2	Q1042-19	X			
GCPK3	Q1042-20	X			
GCPK4	Q1042-21	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 # GCPH6

USEPA CLP Inorganics COC (LAB COPY)
DateShipped: 1/8/2025
CarrierName: FedEx
AirbillNo: 8176 1044 3362

Region 7 SCRIBE COC Record
Case #: 51921
Project Code: KMA7K201/2500007

No: 7-010725-131535-0000
Lab: Alliance Technical Group LLC (ACE)
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
2500007-39	GCPH6	Soil/SET/	Grab	SoilMetsAES(21)	2500007039 (4°C) (1)	5327-C7	11/18/2024 14:07	
2500007-40	GCPH7	Soil/SET/	Grab	SoilMetsAES(21)	2500007040 (4°C) (1)	5327-DW	11/18/2024 14:09	
2500007-41	GCPH8	Soil/SET/	Grab	SoilMetsAES(21)	2500007041 (4°C) (1)	5327-DZ	11/18/2024 14:11	
2500007-42	GCPH9	Soil/SET/	Grab	SoilMetsAES(21)	2500007042 (4°C) (1)	5327-PA	11/18/2024 14:13	
2500007-43	GCPJ0	Soil/SET/	Grab	SoilMetsAES(21)	2500007043 (4°C) (1)	5327-RE	11/18/2024 14:15	
2500007-44	GCPJ1	Soil/SET/	Grab	SoilMetsAES(21)	2500007044 (4°C) (1)	5433-C1	11/20/2024 11:55	
2500007-45	GCPJ2	Soil/SET/	Grab	SoilMetsAES(21)	2500007045 (4°C) (1)	5433-C2	11/20/2024 11:57	
2500007-46	GCPJ3	Soil/SET/	Grab	SoilMetsAES(21)	2500007046 (4°C) (1)	5433-C3	11/20/2024 11:59	
2500007-47	GCPJ4	Soil/SET/	Grab	SoilMetsAES(21)	2500007047 (4°C) (1)	5433-C4	11/20/2024 12:01	
2500007-48	GCPJ5	Soil/SET/	Grab	SoilMetsAES(21)	2500007048 (4°C) (1)	5433-DW1	11/20/2024 12:03	
2500007-49	GCPJ6	Soil/SET/	Grab	SoilMetsAES(21)	2500007049 (4°C) (1)	5433-DW2	11/20/2024 12:05	
2500007-50	GCPJ7	Soil/SET/	Grab	SoilMetsAES(21)	2500007050 (4°C) (1)	5433-DZ	11/20/2024 12:09	
2500007-51	GCPJ8	Soil/SET/	Grab	SoilMetsAES(21)	2500007051 (4°C) (1)	5433-PA	11/20/2024 12:07	
2500007-52	GCPJ9	Soil/SET/	Grab	SoilMetsAES(21)	2500007052 (4°C) (1)	5537-C1	11/18/2024 10:15	
2500007-53	GCPK0	Soil/SET/	Grab	SoilMetsAES(21)	2500007053 (4°C) (1)	5537-C2	11/18/2024 10:17	
2500007-54	GCPK1	Soil/SET/	Grab	SoilMetsAES(21)	2500007054 (4°C) (1)	5537-C3	11/18/2024 10:19	
2500007-55	GCPK2	Soil/SET/	Grab	SoilMetsAES(21)	2500007055 (4°C) (1)	5537-C4	11/18/2024 10:21	
2500007-56	GCPK3	Soil/SET/	Grab	SoilMetsAES(21)	2500007056 (4°C) (1)	5537-LS1	11/18/2024 10:23	
2500007-57	GCPK4	Soil/SET/	Grab	SoilMetsAES(21)	2500007057 (4°C) (1)	5537-LS2	11/18/2024 10:25	

Sample(s) to be used for Lab QC: 2500007-42 Tag 2500007042 - 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 analytes 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.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: SoilMetsAES=SoilMetsbyICPAES

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
CLP Shipping & Analysis	KATELYN ORTGIES Digitally signed by KATELYN ORTGIES Date: 2025.01.08 07:55:00 -06'00'			1-9-25 0940	IR Gun # 1 Temp 5.8°C
					Cu Custody Seal intact
					Temp blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) George Nesmon		Log-in Date **1/9/2025**
Received By (Signature)		
Case Number 51921	SDG No. GCPH6	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	817610443362 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	5.8 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	01/09/2025
12.Time Received	09:40

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	GCPH6	N/A	2500007039	Q1042-01	Intact
2	GCPH7	N/A	2500007040	Q1042-02	Intact
3	GCPH8	N/A	2500007041	Q1042-03	Intact
4	GCPH9	N/A	2500007042	Q1042-04	Intact
5	GCPH9D	N/A	2500007042	Q1042-05	Intact
6	GCPH9S	N/A	2500007042	Q1042-06	Intact
7	GCPJ0	N/A	2500007043	Q1042-07	Intact
8	GCPJ1	N/A	2500007044	Q1042-08	Intact
9	GCPJ2	N/A	2500007045	Q1042-09	Intact
10	GCPJ3	N/A	2500007046	Q1042-10	Intact
11	GCPJ4	N/A	2500007047	Q1042-11	Intact
12	GCPJ5	N/A	2500007048	Q1042-12	Intact
13	GCPJ6	N/A	2500007049	Q1042-13	Intact
14	GCPJ7	N/A	2500007050	Q1042-14	Intact
15	GCPJ8	N/A	2500007051	Q1042-15	Intact
16	GCPJ9	N/A	2500007052	Q1042-16	Intact
17	GCPK0	N/A	2500007053	Q1042-17	Intact
18	GCPK1	N/A	2500007054	Q1042-18	Intact
19	GCPK2	N/A	2500007055	Q1042-19	Intact
20	GCPK3	N/A	2500007056	Q1042-20	Intact
21	GCPK4	N/A	2500007057	Q1042-21	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		Logbook No.	N/A
Date	1/9/25	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.	**GCPH6**
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: FROM	PAGE NOs: TO	CHECK LAB	CHECK 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	501	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	502	658	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	659	660	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	661	681	✓	
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: FROM	TO	CHECK 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	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	682	682	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	683	684	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	685	685	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)		Nimisha Pandya, Document Control Officer	
	(Signature)	(Print Name & Title)	(Date)
Audited by: (EPA)			
	(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # GCPH6
CASE # 51921
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1042

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^{o}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):

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

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 GCPH6 For Arsenic:

If C = 0.0714840 ppm
Vf = 100 ml
W = 1.40 g
S = 0.979(97.9/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0714840 \times \frac{100}{1.40 \times 0.979} \times 1$$

$$= 5.2155 \text{ mg/kg}$$

= 5.2 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: 1/27/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 13:25
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: 07:44
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: LB134212

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
Q1042-01	GCPH6	1	1.14	8.42	9.56	9.38	97.9	
Q1042-02	GCPH7	2	1.15	8.62	9.77	9.74	99.7	
Q1042-03	GCPH8	3	1.16	8.76	9.92	9.72	97.7	
Q1042-04	GCPH9	4	1.15	8.75	9.9	9.7	97.7	
Q1042-05	GCPH9D	5	1.15	8.75	9.9	9.7	97.7	
Q1042-06	GCPH9S	6	1.15	8.75	9.9	9.7	97.7	
Q1042-07	GCPJ0	7	1.16	8.81	9.97	9.74	97.4	
Q1042-08	GCPJ1	8	1.17	8.65	9.82	9.62	97.7	
Q1042-09	GCPJ2	9	1.19	8.43	9.62	9.36	96.9	
Q1042-10	GCPJ3	10	1.15	8.43	9.58	9.44	98.3	
Q1042-11	GCPJ4	11	1.19	8.44	9.63	9.34	96.6	
Q1042-12	GCPJ5	12	1.16	8.81	9.97	9.75	97.5	
Q1042-13	GCPJ6	13	1.18	8.80	9.98	9.85	98.5	
Q1042-14	GCPJ7	14	1.18	8.66	9.84	9.57	96.9	
Q1042-15	GCPJ8	15	1.16	8.74	9.9	9.68	97.5	
Q1042-16	GCPJ9	16	1.17	8.75	9.92	9.7	97.5	
Q1042-17	GCPK0	17	1.18	8.62	9.8	9.55	97.1	
Q1042-18	GCPK1	18	1.12	8.65	9.77	9.56	97.6	
Q1042-19	GCPK2	19	1.19	8.63	9.82	9.55	96.9	
Q1042-20	GCPK3	20	1.15	4.36	5.51	5.39	97.2	
Q1042-21	GCPK4	21	1.19	8.54	9.73	9.41	96.3	

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

WORKLIST(Hardcopy Internal Chain)

VB 134212

WorkList Name : %Q1042 **WorkList ID :** 186839 **Department :** Wet-Chemistry **Date :** 01-09-2025 12:30:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1042-01	GCPH6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-02	GCPH7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-03	GCPH8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-04	GCPH9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-05	GCPH9D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-06	GCPH9S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-07	GCPJ0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-08	GCPJ1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-09	GCPJ2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
Q1042-10	GCPJ3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
Q1042-11	GCPJ4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
Q1042-12	GCPJ5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
Q1042-13	GCPJ6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
Q1042-14	GCPJ7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
Q1042-15	GCPJ8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
Q1042-16	GCPJ9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-17	GCPK0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-18	GCPK1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-19	GCPK2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-20	GCPK3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1042-21	GCPK4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO

Date/Time 01.09.25 12:47

Raw Sample Received by: JB (C)

Raw Sample Relinquished by: JT (Sm)

Date/Time 01.09.25 13:30

Raw Sample Received by: JT (Sm)

Raw Sample Relinquished by: JB (COC)