SDG COVER PAGE

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

Lab Code: ACE Case No.: 51921 MA No.: SDG No.: GCPK5

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
GCPK5	Q1043-01	X			
GCPK6	Q1043-02	X			
GCPK7	Q1043-03	X			
GCPK8	Q1043-04	X			
GCPK9	Q1043-05	X			
GCPL0	Q1043-06	X			
GCPL1	Q1043-07	X			
GCPL2	Q1043-08	X			
GCPL2D	Q1043-09	X			
GCPL2S	Q1043-10	X			
GCPL3	Q1043-11	X			
GCPL4	Q1043-12	X			
GCPL5	Q1043-13	X			
GCPL6	Q1043-14	X			
GCPL7	Q1043-15	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 # GCPK5

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
2500007-58	GCPK5	Soil/SET/	Grab	SoilMetsAES(21)	2500007058 (4°C) (1)	5537-FF	11/18/2024 10:27	
2500007-59	GCPK6	Soil/SET/	Grab	SoilMetsAES(21)	2500007059 (4°C) (1)	5537-RE	11/18/2024 10:29	
2500007-60	GCPK7	Soil/SET/	Grab	SoilMetsAES(21)	2500007060 (4°C) (1)	5566-C1	11/25/2024 12:05	
2500007-61	GCPK8	Soil/SET/	Grab	SoilMetsAES(21)	2500007061 (4°C) (1)	5566-C2	11/25/2024 12:07	
2500007-62	GCPK9	Soil/SET/	Grab	SoilMetsAES(21)	2500007062 (4°C) (1)	5566-C3	11/25/2024 12:09	
2500007-63	GCPL0	Soil/SET/	Grab	SoilMetsAES(21)	2500007063 (4°C) (1)	5566-C4	11/25/2024 12:11	
2500007-64	GCPL1	Soil/SET/	Grab	SoilMetsAES(21)	2500007064 (4°C) (1)	5566-C5	11/25/2024 12:13	
2500007-65	GCPL2	Soil/SET/	Grab	SoilMetsAES(21)	2500007065 (4°C) (1)	5566-C6	11/25/2024 12:15	
2500007-66	GCPL3	Soil/SET/	Grab	SoilMetsAES(21)	2500007066 (4°C) (1)	5566-C7	11/25/2024 12:17	
2500007-67	GCPL4	Soil/SET/	Grab	SoilMetsAES(21)	2500007067 (4°C) (1)	5566-DW	11/25/2024 12:19	
2500007-68	GCPL5	Soil/SET/	Grab	SoilMetsAES(21)	2500007068 (4°C) (1)	5566-DZ	11/25/2024 12:21	
2500007-69	GCPL6	Soil/SET/	Grab	SoilMetsAES(21)	2500007069 (4°C) (1)	5566-SP	11/25/2024 12:23	
2500007-70	GCPL7	Soil/SET/	Grab	SoilMetsAES(21)	2500007070 (4°C) (1)	CLP Soil PT	01/03/2025 12:19	QT

Sample(s) to be used for Lab QC: 2500007-65 Tag 2500007065 - 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 07:55:40 -06'00'			0940 1-9-25	FR Gun # 1 Temp 5.0°C
					Temp blank present
					Custody Seal intact

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) George Jesmon		Log-in Date **1/9/2025**
Received By (Signature)		
Case Number 51921	SDG No. GCPK5	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	GCPK5	N/A	2500007058	Q1043-01	Intact
2	GCPK6	N/A	2500007059	Q1043-02	Intact
3	GCPK7	N/A	2500007060	Q1043-03	Intact
4	GCPK8	N/A	2500007061	Q1043-04	Intact
5	GCPK9	N/A	2500007062	Q1043-05	Intact
6	GCPL0	N/A	2500007063	Q1043-06	Intact
7	GCPL1	N/A	2500007064	Q1043-07	Intact
8	GCPL2	N/A	2500007065	Q1043-08	Intact
9	GCPL2D	N/A	2500007065	Q1043-09	Intact
10	GCPL2S	N/A	2500007065	Q1043-10	Intact
11	GCPL3	N/A	2500007066	Q1043-11	Intact
12	GCPL4	N/A	2500007067	Q1043-12	Intact
13	GCPL5	N/A	2500007068	Q1043-13	Intact
14	GCPL6	N/A	2500007069	Q1043-14	Intact
15	GCPL7	N/A	2500007070	Q1043-15	Intact
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
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.	**GCPK5**
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	23	✓	
9 . Instrument raw data by instrument in analysis order	24	435	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	436	592	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	593	594	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	595	606	✓	
13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	607	607	✓	
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)	608	608	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	609	610	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	611	611	✓	
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 # GCPK5
CASE # 51921
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1043

A. Number of Samples and Date of Receipt

13 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 GCPK5 For Arsenic :

If C = 0.0969345 ppm
Vf = 100 ml
W = 1.30 g
S = 0.974 (97.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0969345 \times \frac{100}{1.30 \times 0.974} \times 1$$

$$= 7.655544 \text{ mg/kg}$$

$$= 7.7 \text{ mg/kg (Reported Result with Signification)}$$

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: 13:45
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: 07:48
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: LB134213

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
Q1043-01	GCPK5	1	1.15	8.43	9.58	9.36	97.4	
Q1043-02	GCPK6	2	1.17	8.47	9.64	9.41	97.3	
Q1043-03	GCPK7	3	1.16	8.40	9.56	9.35	97.5	
Q1043-04	GCPK8	4	1.14	8.75	9.89	9.6	96.7	
Q1043-05	GCPK9	5	1.18	8.43	9.61	9.42	97.7	
Q1043-06	GCPL0	6	1.15	8.43	9.58	9.41	98.0	
Q1043-07	GCPL1	7	1.19	8.51	9.7	9.57	98.5	
Q1043-08	GCPL2	8	1.18	8.67	9.85	9.41	94.9	
Q1043-09	GCPL2D	9	1.18	8.67	9.85	9.41	94.9	
Q1043-10	GCPL2S	10	1.18	8.67	9.85	9.41	94.9	
Q1043-11	GCPL3	11	1.15	8.71	9.86	9.67	97.8	
Q1043-12	GCPL4	12	1.15	5.92	7.07	6.97	98.3	
Q1043-13	GCPL5	13	1.15	8.79	9.94	9.74	97.7	
Q1043-14	GCPL6	14	1.16	8.67	9.83	9.51	96.3	
Q1043-15	GCPL7	15	1.00	1.00	2.00	2.00	100.0	P.T. SAMPLE

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

WORKLIST(Hardcopy Internal Chain)

VB 134213

WorkList Name : %Q1043 **WorkList ID :** 186837 **Department :** Wet-Chemistry **Date :** 01-09-2025 12:26:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1043-01	GCPK5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1043-02	GCPK6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/18/2024	Chemtech -SO
Q1043-03	GCPK7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-04	GCPK8	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-05	GCPK9	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-06	GCPL0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-07	GCPL1	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-08	GCPL2	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-09	GCPL2D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-10	GCPL2S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-11	GCPL3	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-12	GCPL4	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-13	GCPL5	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-14	GCPL6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/25/2024	Chemtech -SO
Q1043-15	GCPL7	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/03/2025	Chemtech -SO

Date/Time 01.09.25 13:00

Raw Sample Received by: ~~JB~~ (VOC)

Raw Sample Relinquished by: IT CSM

JB

Date/Time ~~01.~~ 01.09.25 13:50

Raw Sample Received by: IT CSM

Raw Sample Relinquished by: JB (VOC)