SDG COVER PAGE

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

Lab Code: ACE Case No.: 51874 MA No.: SDG No.: GCP96

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
GCP96	P4787-01		X		
GCP96D	P4787-02		X		
GCP96S	P4787-03		X		
GCP97	P4787-04		X		
GCP98	P4787-05		X		
GCP99	P4787-06		X		
GCPA0	P4787-07		X		
GCPA1	P4787-08		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 # GCP96

USEPA CLP Inorganics COC (LAB COPY)
DateShipped: 11/7/2024
CarrierName: FedEx
AirbillNo: 817610444038

Region 7 SCRIBE COC Record
Case #: 51874
Project Code: BE07LT03/2400500

No: 7-110724-162454-0000
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
2400500-01	GCP96	Water/TT/	Grab	WaterMetsMS(7)	2400500001 (HNO3) (1)	13475 (inside, unpurged)	11/01/2024 16:57	
2400500-02	GCP97	Water/TT/	Grab	WaterMetsMS(7)	2400500002 (HNO3) (1)	13475 (inside, purged 10 min)	11/01/2024 15:07	
2400500-03	GCP98	Water/TT/	Grab	WaterMetsMS(7)	2400500003 (HNO3) (1)	13475 (outside, unpurged)	11/01/2024 15:09	
2400500-04	GCP99	Water/TT/	Grab	WaterMetsMS(7)	2400500004 (HNO3) (1)	13475 (outside, purged 10 min)	11/01/2024 15:19	
2400500-05	GCPA0	Water/TT/	Grab	WaterMetsMS(7)	2400500005 (HNO3) (1)	Field Blank	11/01/2024 16:00	
2400500-06	GCPA1	Water metals PT/TT/	Water Metals PT	WaterMetsMS(7)	2400500006 (HNO3) (1)	Water Metals PT	11/06/2024 16:20	

Special Instructions: See scheduling with concerns or questions. Water Metals by ICPMS QC=MS/MSDs as noted above, containers provided (1L plastic) will be enough for all analyses and the designated QC=MS/MSDs at full volumes. Region 7 is requesting that only Al, As, Co, Cu, Fe, Mn, Pb, V, Zn be analyzed/reported by metals ICPMS on all water samples in this case. The water CLP Metals by ICPMS PT sample, with instructions, is included with the samples. The PT ID = R06042402-28

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: WaterMetsMS=Water Metals by ICPMS

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: 2024.11.07 16:35:17 -06'00'			11-8-24 0950	2-1°C ICE/GUN #1
					custody seals intact
					TEMP BLK present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page 1 of 1
Received By (Print Name) Grace Vegliox	Log-in Date **11/8/2024**
Received By (Signature)	
Case Number 51874 / SDG No. GCP96	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.	817610444038 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 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	11/08/2024
12.Time Received	09:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	GCP96	1.6	2400500001	P4787-01	Intact
2	GCP96D	1.6	2400500001	P4787-02	Intact
3	GCP96S	1.6	2400500001	P4787-03	Intact
4	GCP97	1.6	2400500002	P4787-04	Intact
5	GCP98	1.6	2400500003	P4787-05	Intact
6	GCP99	1.6	2400500004	P4787-06	Intact
7	GCPA0	1.6	2400500005	P4787-07	Intact
8	GCPA1	N/A	2400500006	P4787-08	Intact
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
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	11/8/24	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.	**51874**	SDG NO.	**GCP96**
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	9	✓	
6 . Communication Logs	10	11	✓	
7 . Percent Solids Log	NA	NA	✓	
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	NA	NA	✓	
9 . Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	NA	NA	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	12	17	✓	
18 . Instrument raw data by instrument in analysis order	18	1046	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	1047	1186	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1187	1188	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1189	1200	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	1201	1201	✓	

	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)	1202	1202	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1203	1203	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1204	1204	✓	
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 # GCP96
CASE # 51874
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4787

A. Number of Samples and Date of Receipt

06 Water samples were delivered to the laboratory intact on 11/08/2024

B. Parameter

Test requested for Metals CLP MS-CLP12= Aluminum, Arsenic, Cobalt, Copper, Iron, Lead, Manganese, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence
Cooler: 2.1^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue: A Laboratory QC sample was not listed on the COC. The laboratory would like to use sample GCP96 for Laboratory QC. The laboratory has confirmed that the sample is not a PE or blank.

E. Corrective Action taken for above:

Resolution: Per SFAM01.1 Exhibit A, Section 5.5.4.1, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

F. Analytical Techniques:

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

G. Calculation:

Calculation for ICP-MS Water Sample:

284 Sheffield Street
Mountainside, NJ 07092

Concentration or Result (µg/L) = C x $\frac{Vf}{Vi}$ x DF

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample GCP96 For Arsenic:

If C = 0.21 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

Concentration or Result (µg/L) = $0.21 \times \frac{50}{50} \times 1$

= 0.21 µg/L

= 0.21 µg/L (Reported Result with Signification)

H. 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 except for Manganese. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Arsenic	89Y
Cobalt	45Sc

284 Sheffield Street
Mountainside, NJ 07092

Copper	45Sc
Iron	45Sc
Lead	209Bi
Manganese	45Sc
Vanadium	45Sc
Zinc	45Sc

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

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Friday, November 08, 2024 1:55 PM
To: Sohil Jodhani; Mohammad Ahmed; Deepak Parmar
Cc: roblez.nicole@epa.gov; Evans.Barry@epa.gov; ortgies.katelyn@epa.gov; claycamp.alisha@epa.gov; Wilson.Sarah@epa.gov; Britz, Helen; Moody, Brett; Gambrah, Derrick; Patel, Bhavita; vargas.magda@epa.gov; Johnson, Matthew; Bauer, Heather E
Subject: Region 07 | Case 51874 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL
Attachments: SKM_95824110811300.pdf

Good afternoon,

Please see the resolution below.

Issue: A Laboratory QC sample was not listed on the COC. The laboratory would like to use sample GCP96 for Laboratory QC. The laboratory has confirmed that the sample is not a PE or blank.
Resolution: Per SFAM01.1 Exhibit A, Section 5.5.4.1, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue

Thanks,
Miles Hairston
Associate Environmental Analyst
Under contract to EPA
QSS Coordinator – EPA Regions 1, 8, 7, and 9

Work Phone: +1 571-454-0346
Miles.Hairston@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: 11/11/2024

GENERAL DYNAMICS
information technology

email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Friday, November 8, 2024 11:44 AM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 07 | Case 51874 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC/QC

Good Morning,

Sample received for Case 51874 with 11/08/2024 shipment has below discrepancies.

Issue 1: Qc sample not mentioned on COC lab will use sample GCP96 for lab QC. the laboratory has confirmed that the samples are not PE or blanks.

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com