SDG COVER PAGE

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

Lab Code: ACE Case No.: 51974 MA No.: SDG No.: MBHH96

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHH96	Q1181-01	X			
MBHH97	Q1181-02	X			
MBHH98	Q1181-03	X			
MBHH99	Q1181-04	X			
MBHH99D	Q1181-05	X			
MBHH99S	Q1181-06	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 # MBHH96

USEPA CLP COC (LAB COPY)

DateShipped: 1/23/2025
CarrierName: FedEx
AirbillNo: 771600629736

CHAIN OF CUSTODY RECORD

Case #: 51974
Cooler #: 1

No: 3-012225-082545-0005

Lab: Alliance Technical Group LLS
Lab Contact: Mohammad Ahmed
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
SQ-Headwall-1-012125	MBHH96	Soil/ Jon King	Composite	ICP-AES(14), TCLP ICP-AES(14)	1071 (None), 1072 (None) (2)	SQ-Headwall	01/21/2025 13:00	
SQ-Headwall-2-012125	MBHH97	Soil/ Jon King	Composite	ICP-AES(14), TCLP ICP-AES(14)	1078 (None), 1079 (None) (2)	SQ-Headwall	01/21/2025 13:10	
SQ-S-GRUB-E-012125	MBHH98	Soil/ Jon King	Composite	ICP-AES(14), TCLP ICP-AES(14)	1085 (None), 1086 (None) (2)	SQ-S-Grub	01/21/2025 13:30	
SQ-S-GRUB-W-012125	MBHH99	Soil/ Jon King	Composite	ICP-AES(14), TCLP ICP-AES(14)	1092 (None), 1093 (None) (2)	SQ-S-Grub	01/21/2025 13:50	

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP ICP AES 11+ Metals, TCLP ICP-AES=CLP TCLP ICP-AES Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	(Soveresn)	1/23/25 12:00		0938 1-24-25	IR Gun #1
					Temp 2.6°C
					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) Cassandra Lee		Log-in Date 1/24/2025
Received By (Signature)		
Case Number 51974	SDG No. MBHH96	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.	771600629736 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.6 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	01/24/2025
12.Time Received	09:38

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHH96	N/A	1071	Q1181-01	Intact
2	MBHH97	N/A	1078	Q1181-02	Intact
3	MBHH98	N/A	1085	Q1181-03	Intact
4	MBHH99	N/A	1092	Q1181-04	Intact
5	MBHH99D	N/A	1092	Q1181-05	Intact
6	MBHH99S	N/A	1092	Q1181-06	Intact
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
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	1/24/25	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.	**51974**	SDG NO.	**MBHH96**
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	12	✓	
7 . Percent Solids Log	13	14	✓	
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	15	18	✓	
9 . Instrument raw data by instrument in analysis order	19	200	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	201	342	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	343	344	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	345	348	✓	
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)	349	349	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	350	350	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	351	351	✓	
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 # MBHH96
CASE # 51974
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1181

A. Number of Samples and Date of Receipt

04 Soil samples were delivered to the laboratory intact on 01/24/2025.

B. Parameters

Test requested for Metals CLP FULL = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.6^{o}C

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

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: Laboratory QC is scheduled for soil ICP-AES and TCLP ICP-AES analyses; however, no sample was designated on the COC for QC analysis. The laboratory would like to use sample MBHH99 for ICP-AES and TCLP ICP-AES Laboratory QC. These samples are not blanks, rinsates or PE samples.

E. Corrective Action taken for above:

Resolution 1: To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per SOW 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.

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Mountainside, NJ 07092

F. 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.

G. 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)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample MBHH96 For Antimony:

If C = 0.0279553 ppm
Vf = 100 ml
W = 1.16 g
S = 0.954 (95.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0279553 \times \frac{100}{1.16 \times 0.954} \times 1$$

$$= 2.52614 \text{ mg/kg}$$

= 2.5 mg/kg (Reported Result with Signification

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Mountainside, NJ 07092

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 except for Silver. 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

From: DeBerry, Eric <Eric.Deberry@gdit.com>
Sent: Friday, January 24, 2025 12:34 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: Bauer, Heather E; Johnson, Matthew; Burman, Jarmael; 'Moody, Brett'; Gambrah, Derrick; Patel, Bhavita; Vargas.Magda@epa.gov; Britz, Helen
Subject: Task Area SST | Region 03 | Case 51974 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Good afternoon Deepak,

Issue: Laboratory QC is scheduled for soil ICP-AES and TCLP ICP-AES analyses; however, no sample was designated on the COC for QC analysis. The laboratory would like to use sample MBHH99 for ICP-AES and TCLP ICP-AES Laboratory QC. These samples are not blanks, rinsates or PE samples.

Resolution: Per SOW 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 may contact the appropriate CLP PM should any defects need to be waived for this issue.

Thanks,

Eric DeBerry

Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166
Eric.DeBerry@GDIT.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

GENERAL DYNAMICS
information technology

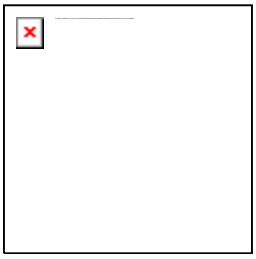
From: Bett, Daisy <Daisy.Bett@gdit.com>
Sent: Friday, January 24, 2025 11:38 AM
To: Deepak Parmar <Deepak.Parmar@AllianceTG.com>; DeBerry, Eric <Eric.Deberry@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: FW: Region 03 | Case 51974 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC/QC

Good morning Deepak,

Please note that Case 51974 is a Region 3 Case. I have included Eric DeBerry (Region 3 QSS Coordinator) on this email; he will report the issue to the Region.

Thank you,
Daisy Bett
Research Analyst Associate
GDIT Federal Civilian Division
EPA Region 2 CLP QSS Coordinator
Under contract to the EPA

T: 571.454.0186
daisy.bett@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com



GENERAL DYNAMICS
information technology

Leave alert: none

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Friday, January 24, 2025 11:22 AM
To: Bett, Daisy <Daisy.Bett@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 02 | Case 51974 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC/QC

Good morning,

Issue 1 : Two SDGs MBHH96 and MBHH97 is open without lab QC for soil samples. However, a sample was not designated for Laboratory QC. Lab like to use samples MBHH99 ICP-AES and TCLP ICP-AES. these samples are not blanks, rinsates or PE samples.

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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/27/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 15:25
In Date: 01/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 01/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134407

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
Q1181-01	MBHH96	1	1.15	8.52	9.67	9.28	95.4	
Q1181-02	MBHH97	2	1.15	8.36	9.51	8.72	90.6	
Q1181-03	MBHH98	3	1.16	8.67	9.83	8.34	82.8	
Q1181-04	MBHH99	4	1.17	8.60	9.77	7.53	74.0	
Q1181-05	MBHH99D	5	1.17	8.60	9.77	7.53	74.0	
Q1181-06	MBHH99S	6	1.17	8.60	9.77	7.53	74.0	

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

WORKLIST(Hardcopy Internal Chain)

B 134407

WorkList Name : %1-q1181 **WorkList ID :** 187144 **Department :** Wet-Chemistry **Date :** 01-24-2025 14:28:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1181-01	MBHH96	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/21/2025	Chemtech -SO
Q1181-02	MBHH97	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/21/2025	Chemtech -SO
Q1181-03	MBHH98	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/21/2025	Chemtech -SO
Q1181-04	MBHH99	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/21/2025	Chemtech -SO
Q1181-05	MBHH99D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/21/2025	Chemtech -SO
Q1181-06	MBHH99S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	01/21/2025	Chemtech -SO

Date/Time 01/24/25 14:35
Raw Sample Received by: JB (COC)
Raw Sample Relinquished by: IT (SM)

Date/Time 01/24/25 15:30
Raw Sample Received by: IT (SM)
Raw Sample Relinquished by: JB (COC)