SDG COVER PAGE

Alliance Technical Group, LLC Lab Name: Contract: 68HERH20D0011 Lab Code: Case No.: 51879 MA No.: SDG No.: MBHM70 SOW No. : SFAM01.1 Analysis Method Lab Sample Id ICP-AES EPA Sample No. ICP-MS Mercury Cyanide MBHM70 P5124-01 Χ P5124-02 Χ MBHM71 MBHM72 P5124-03 Χ MBHM73 P5124-04 MBHM74 P5124-05 Χ MBHM75 P5124-06 Χ MBHM76 P5124-07 Χ P5124-08 MBHM77 Χ P5124-09 MBHM78 Χ MBHM79 P5124-10 Χ MBHM80 P5124-11 Χ MBHM81 P5124-12 Χ MBHM82 P5124-13 Χ Χ MBHM83 P5124-14 MBHM84 P5124-15 MBHM85 P5124-16 Χ MBHM86 P5124-17 Χ MBHM87 P5124-18 Χ MBHM88 P5124-19 Χ MBHM88D P5124-20 Χ MBHM88S P5124-21 Χ MBHM89 P5124-22 Χ 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.

Name:

Title:

Signature:

Date:

USEPA CLP COC (LAB COPY)

CarrierName: FedEx DateShipped: 12/4/2024 AirbilNo: 7704 9476 3037

CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 2

SDG # MBHM70

68HERH20D0011

Lab: Alliance Technical Group LLC No: 2-120424-102328-0047

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
P133-SB-06-Z00- 02	MBHM70	Soil/		ICP-AES(35)	1870 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-06-Z02- 06	MBHM71	Soil/		ICP-AES(35)	1871 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-06-Z06- 12	МВНМ72	Soil/		ICP-AES(35)	1872 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-06-Z12- 18	МВНМ73	Soil/		ICP-AES(35)	1873 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-06-Z18- 24	MBHM74	Soil/		ICP-AES(35)	1874 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-06-Z24- 30	MBHM75	Soil/		ICP-AES(35)	1875 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-06-Z30- 36	МВНМ76	Soil/		ICP-AES(35)	1876 (Wet ice < 6 C) (1)	P133-SB-06	11/26/2024 11:45	
P133-SB-07-Z00- 02	MBHM77	Soil/		ICP-AES(35)	1877 (Wet ice < 6 C) (1)	P133-SB-07	11/26/2024 11:50	
P133-SB-07-Z02- 06	МВНМ78	Soil/		ICP-AES(35)	1878 (Wet ice < 6 C) (1)	P133-SB-07	11/26/2024 11:50	
P133-SB-07-Z06- 12	МВНМ79	Soil/		ICP-AES(35)	1879 (Wet ice < 6 C) (1)	P133-SB-07	11/26/2024 11:50	

			S	Shipment for Case Complete? N	Complete? N
Special Instruction	Special Instructions: Samples MBHM88 and MBHM94 are MS/MSDs.	ģ,	જુ	amples Transferre	Samples Transferred From Chain of Custody #
Analysis Key: ICP	Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	09 Metals			
Items/Reason	Items/Reason Relinquished by (Signature and Organization) Date/Time	Date/Time	Received by (Signature and Organization)	Date/Time	Date/Time Sample Condition Upon Receipt
-	Miss.	12/04/24		(010)	
-	111111111111111111111111111111111111111	1000000			1

codes

16:00

12-5-24 (010)

68HERH20D0011

USEPA CLP COC (LAB COPY)

CarrierName: FedEx DateShipped: 12/4/2024 AirbillNo: 7704 9476 3037

CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 2

SDG # MBHM70

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed No: 2-120424-102328-0047 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
P133-SB-07-Z12- 18	MBHM80	Soil/		ICP-AES(35)	1940 (Wet ice < 6 C) (1)	P133-SB-07	11/26/2024 11:50	
P133-SB-07-Z18- 24	MBHM81	Soil/		ICP-AES(35)	1941 (Wet ice < 6 C) (1)	P133-SB-07	11/26/2024 11:50	
P133-SB-07-Z24- 30	MBHM82	Soil/		ICP-AES(35)	1942 (Wet ice < 6 C) (1)	P133-SB-07	11/26/2024 11:50	
P133-SB-07-Z30- 36	МВНМ83	Soil/		ICP-AES(35)	1943 (Wet ice < 6 C) (1)	P133-SB-07	11/26/2024 11:50	
P133-SB-02-Z00- 02	MBHM84	Soil/		ICP-AES(35)	1922 (Wet ice < 6 C) (1)	P133-SB-02	11/26/2024 10:29	
P133-SB-02-Z02- 06	МВНМ85	Soil/		ICP-AES(35)	1923 (Wet ice < 6 C) (1)	P133-SB-02	11/26/2024 10:29	
P133-SB-02-Z06- 12	MBHM86	Soil/		ICP-AES(35)	1924 (Wet ice < 6 C) (1)	P133-SB-02	11/26/2024 10:29	
P133-SB-02-Z12- 18	MBHM87	Soil/		ICP-AES(35)	1925 (Wet ice < 6 C) (1)	P133-SB-02	11/26/2024 10:29	
P133-SB-02-Z18- 24	MBHM88	Soil/		ICP-AES(35)	1926 (Wet ice < 6 C) (1)	P133-SB-02	11/26/2024 10:29	2
P133-SB-02-Z24- 30	мвнм89	Soil/		ICP-AES(35)	1927 (Wet ice < 6 C) (1)	P133-SB-02	11/26/2024 10:29	

Special Instructions: Samples MBHM88 and MBHM94 are MS/MSDs.	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals	

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group	, LLC	Page 1 of 3
Received By (Print Name)	va Keña	Log-in Date 12/5/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHM70	MA No. N/A

D. I	
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.	770494763037 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	40 (07 (000)
Lab	12/05/2024

			Correspon	ding	Remarks:
		Aqueous	ł		Condition of Sample
	EPA	Water Sample	Sample	Assigned	1
	Sample #	pH	Tag #	Lab #	etc.
1	мвнм70	N/A	1870	P5124-01	Intact
2	МВНМ71	N/A	1871	P5124-02	Intact
3	мвнм72	N/A	1872	P5124-03	Intact
4	МВНМ73	N/A	1873	P5124-04	Intact
5	МВНМ74	N/A	1874	P5124-05	Intact
6	мвнм75	N/A	1875	P5124-06	Intact
7	мвнм76	N/A	1876	P5124-07	Intact
8	МВНМ77	N/A	1877	P5124-08	Intact
9	МВНМ78	N/A	1878	P5124-09	Intact
10	МВНМ79	N/A	1879	P5124-10	Intact
11	мвнм80	N/A	1940	P5124-11	Intact
12	МВНМ81	N/A	1941	P5124-12	Intact
13	МВНМ82	N/A	1942	P5124-13	Intact
14	мвнм83	N/A	1943	P5124-14	Intact
15	МВНМ84	N/A	1922	P5124-15	Intact
16	МВНМ85	N/A	1923	P5124-16	Intact
17	мвнм86	N/A	1924	P5124-17	Intact
18	мвнм87	N/A	1925	P5124-18	Intact
19	мвнм88	N/A	1926	P5124-19	Intact
20	мвнм88D	N/A	1926	P5124-20	Intact
21	MBHM88S	N/A	1926	P5124-21	Intact
22	МВНМ89	N/A	1927	P5124-22	Intact
23	N/A	N/A I	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A	
Date	12/124	Logbook Page No.	N/A	

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

LAB NAME	Alliance Tech	nical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51879	SDG NO.	мвнм70	
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:	СН	ECK
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	√	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	10	√	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	11	13	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	14	33	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	34	677	✓	
Other Data				
10. Standard and Reagent Preparation Logs	678	816	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	817	818	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	819	835		
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	NA	NA		
or sample analysis, laboratory QC as applicable 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	NA	NA	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
<pre>Instrument Logbooks 22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions</pre>	NA	NA	✓	

	PAGE 1	NOs:	СН	ECK
	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	NA	NA		
or sample analysis, laboratory QC as applicable 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	NA	NA		
Instrument Logbooks 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 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	NA	NA	✓	
or sample analysis, laboratory QC as applicable 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	NA	NA	✓	
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA_	NA	✓	
Instructions 41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	✓	·
43 . Raw Florisil Data	NA	NA	✓	

			PAGE NOs:		CHECK	
			FROM	TO	LAB	REGION
Additional						
44. EPA Shipp	ing/Receiving Documents					
Airbill (No. of Shipments)		836	836	✓	
Sample Ta	gs		NA	NA	✓	
Sample Lo	g-In Sheet (Lab)		837	838	✓	
45. Misc. Shi	pping/Receiving Records(list all individ	dual records)				•
			NA	NA		
	Lab Sample Transfer Records and Tracking	Sheets				
(describe	or list)		839	840	,	
		,			√	-
	ords and related Communication Logs or list)					
(NA	NA	✓	
40 0						
48. Comments:						
Completed by:	:					
(CLP Lab)		Nimisha Pandya, Docume	nt Control	Officer	<u> </u>	
Audited by: (EPA)	(Signature)	(Print Name & Title)			(Da	te)
, ,	(Signature)	(Print Name & Title)			(Da	te)



SDG NARRATIVE

USEPA
SDG # MBHM70
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5124

A. Number of Samples and Date of Receipt

20 Soil sample were delivered to the laboratory intact on 12/05/2024.

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: 2.1°C

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

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

E. Corrective Action taken for above:

Resolution: 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.

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.



284 Sheffield Street Mountainside, NJ 07092

G. Calculation:

Calculation for ICP-AES Soil Sample:

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

Concentration (mg/kg) =
$$C \times Vf \times VF$$

W x S

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 MBHM70 For Antimony:

If C = 0.0399910 ppm

Vf = 100 ml

W = 1.26 g

S = 0.704(70.4/100)

DF = 1

Concentration (mg/kg) = $0.0399910 \text{ x} \frac{100}{1.26 \text{ x } 0.704} \text{ x } 1$

=4.5083 mg/kg

= 4.5 mg/kg (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 except for Manganese, Selenium, Silver, Thallium, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Cobalt.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.



284 Sheffield Street Mountainside, NJ 07092

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: 12/9/2024

OVENTEMP IN Celsius(°C): 107

Time IN: 15:15

In Date: 12/06/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103

Time OUT: 08:11

Out Date: 12/07/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Qc:LB133791

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Sample	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P5124-01	мвнм70	1	1.15	8.83	9.98	7.37	70.4	
P5124-02	мвнм71	2	1.15	8.67	9.82	7.85	77.3	
P5124-03	мвнм72	3	1.18	8.44	9.62	7.58	75.8	
P5124-04	мвнм73	4	1.15	8.50	9.65	7.08	69.8	
P5124-05	мвнм74	5	1.15	8.82	9.97	7.31	69.8	
P5124-06	мвнм75	6	1.16	8.46	9.62	7.24	71.9	
P5124-07	мвнм76	7	1.17	8.36	9.53	7.38	74.3	
P5124-08	мвнм77	8	1.15	8.76	9.91	6.51	61.2	
P5124-09	мвнм78	9	1.15	8.53	9.68	7.1	69.8	
P5124-10	мвнм79	10	1.15	8.38	9.53	7.36	74.1	
P5124-11	мвнм80	11	1.16	8.57	9.73	7.82	77.7	
P5124-12	мвнм81	12	1.15	8.64	9.79	7.86	77.7	
P5124-13	мвнм82	13	1.18	8.80	9.98	7.78	75.0	
P5124-14	мвнм83	14	1.16	8.82	9.98	8.93	88.1	
P5124-15	мвнм84	15	1.16	8.78	9.94	7.57	73.0	
P5124-16	мвнм85	16	1.14	8.83	9.97	8.08	78.6	
P5124-17	мвнм86	17	1.17	8.73	9.9	8.36	82.4	
P5124-18	мвнм87	18	1.16	8.53	9.69	8.18	82.3	
P5124-19	мвнм88	19	1.16	8.67	9.83	8.07	79.7	
P5124-20	MBHM88D	20	1.16	8.67	9.83	8.07	79.7	
P5124-21	MBHM88S	21	1.16	8.67	9.83	8.07	79.7	
P5124-22	мвнм89	22	1.16	8.61	9.77	8.36	83.6	

WORKLIST(Hardcopy Internal Chain)

Department: Wet-Chemistry

M3 793391)

Date: 12-06-2024 14:41:40

WorkList ID: 186074

%1-P5124

WorkList Name:

Chemtech -SO 11/26/2024 Chemtech -SO Chemtech -SO Chemtech -SO 11/26/2024 Chemtech -SO Chemtech -SO 11/26/2024 Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO 11/26/2024 Chemtech -SO Chemtech -SO Chemtech -SO 11/26/2024 Chemtech -SO Chemtech -SO Collect Date Method 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 11/26/2024 Raw Sample Location Storage **C32** C32 **C32** C32 C32 **C32** C32 **C32 C32** C32 C32 **C32 C32** C32 C32 **C32 C32** Customer USEP01 Cool 4 deg C Preservative Percent Solids Test Matrix Solid Customer Sample MBHM70 MBHM72 MBHM74 MBHM79 MBHM71 MBHM73 MBHM75 MBHM76 MBHM80 MBHM78 MBHM77 MBHM84 MBHM83 MBHM82 MBHM85 MBHM81 MBHM86 MBHM87 P5124-01 P5124-02 P5124-03 P5124-04 P5124-05 P5124-06 P5124-08 P5124-09 P5124-07 P5124-10 P5124-12 P5124-15 Sample P5124-11 P5124-13 P5124-14 P5124-16 P5124-17 P5124-18

The well 141.50 Raw Sample Relinquished by: 1206124 Raw Sample Received by:

Page 1 of 2

Raw Sample Received by:

12106124

Date/Time

Raw Sample Relinquished by:

15,20 Julsan)

Chemtech -SO

11/26/2024

11/26/2024 Chemtech -SO 11/26/2024 Chemtech -SO 11/26/2024 Chemtech -SO

C32 C32

USEP01 USEP01 USEP01 USEP01

Cool 4 deg C

Percent Solids

Solid Solid Solid

Percent Solids Percent Solids

MBHM88S

Date/Time

MBHM88D

MBHM88

P5124-19 P5124-20 P5124-21

Cool 4 deg C Cool 4 deg C

WORKLIST(Hardcopy Internal Chain)

Date: 12-06-2024 14:41:40 Collect Date Method Raw Sample Storage Location Customer Department: Wet-Chemistry Preservative WorkList ID: 186074 Test Matrix **Customer Sample** MBHM89 %1-P5124 WorkList Name: P5124-22 Sample

11/26/2024 Chemtech -SO

C32

USEP01

Cool 4 deg C

Percent Solids

Solid

US 133791

Date/Time $|\lambda\rangle \mathcal{O}6/\lambda$ Raw Sample Received by:

Raw Sample Relinquished by:

Page 2 of 2

Date/Time $[\lambda]\partial \delta |\lambda|$ $|\psi|_{L} \leq 0$

Raw Sample Received by:

Raw Sample Relinquished by: