SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHM62

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHM62	P5122-01	X			
MBHM63	P5122-02	X			
MBHM64	P5122-03	X			
MBHM65	P5122-04	X			
MBHM66	P5122-05	X			
MBHM67	P5122-06	X			
MBHM68	P5122-07	X			
MBHM69	P5122-08	X			
MBHMC6	P5122-09	X			
MBHMC7	P5122-10	X			
MBHMC8	P5122-11	X			
MBHMC9	P5122-12	X			
MBHMC9D	P5122-13	X			
MBHMC9S	P5122-14	X			
MBHMD0	P5122-15	X			
MBHMD1	P5122-16	X			
MBHMD2	P5122-17	X			
MBHMD3	P5122-18	X			
MBHMD4	P5122-19	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

USEPA CLP COC (LAB COPY)

DateShipped: 12/4/2024
CarrierName: FedEx
AirbillNo: 7704 9476 2339

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 1

No: 2-120424-101122-0046
Lab: Alliance Technical Group LLC
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-08-Z30-36	MBHM62	Soil/		ICP-AES(35)	1880 (Wet ice < 6 C) (1)	P133-SB-08	11/26/2024 10:50	
P133-SB-10-Z00-02	MBHM63	Soil/		ICP-AES(35)	1888 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z02-06	MBHM64	Soil/		ICP-AES(35)	1889 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z06-12	MBHM65	Soil/		ICP-AES(35)	1950 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z12-18	MBHM66	Soil/		ICP-AES(35)	1951 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z18-24	MBHM67	Soil/		ICP-AES(35)	1952 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z24-30	MBHM68	Soil/		ICP-AES(35)	1953 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-10-Z30-36	MBHM69	Soil/		ICP-AES(35)	1954 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
P133-SB-12-Z00-02	MBHMC6	Soil/		ICP-AES(35)	5540 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z02-06	MBHMC7	Soil/		ICP-AES(35)	5541 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	

Special Instructions: Samples MBHM51 and MBHMC9 are MS/MSDs. Samples MBHM57 and MBHM49 have limited sample mass.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	[signature] USP	12/04/24 16:05	[signature]	1010 12.5.24	IR Gun #1 2.0°C
		N/A			Custody Seal Intact
		12/04/24			Temp Blank present

68HERH20D0011

SDG # MBHM62

USEPA CLP COC (LAB COPY)

DateShipped: 12/4/2024

CarrierName: FedEx

AirbillNo: 7704 9476 2339

CHAIN OF CUSTODY RECORD

Case #: 51879

Cooler #: 1

No: 2-120424-101122-0046

Lab: Alliance Technical Group LLC

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-12-Z06-12	MBHMC8	Soil/		ICP-AES(35)	5542 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z12-18	MBHMC9	Soil/		ICP-AES(35)	5543 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	Qe
P133-SB-12-Z18-24	MBHMD0	Soil/		ICP-AES(35)	5544 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z24-30	MBHMD1	Soil/		ICP-AES(35)	5545 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-12-Z30-36	MBHMD2	Soil/		ICP-AES(35)	5546 (Wet ice < 6 C) (1)	P133-SB-12	11/26/2024 12:30	
P133-SB-08-Z18-24-FD	MBHMD3	Soil/		ICP-AES(35)	5547 (Wet ice < 6 C) (1)	P133-SB-08	11/26/2024 10:50	
P133-SB-10-Z12-18-FD	MBHMD4	Soil/		ICP-AES(35)	5548 (Wet ice < 6 C) (1)	P133-SB-10	11/26/2024 12:11	
				N/A				
				12/04/24				

Sample(s) to be used for Lab QC: P133-SB-12-Z12-18 Tag 5543 - Special Instructions: Samples MBHM51 and MBHMC9 are MS/MSDs. Samples MBHM57 and MBHM49 have limited sample mass.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LSASD SOP C-109 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 Cooler	WSP	12/04/24 16:05		1010 12-5-24	FR Blank 1 2.0°C
		N/A			Custody Seal Intact
		12/04/24			Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name)		Log-in Date **12/5/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHM62	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.	770494762339 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.0 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	12/05/2024
12.Time Received	10:10

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHM62	N/A	1880	P5122-01	Intact
2	MBHM63	N/A	1888	P5122-02	Intact
3	MBHM64	N/A	1889	P5122-03	Intact
4	MBHM65	N/A	1950	P5122-04	Intact
5	MBHM66	N/A	1951	P5122-05	Intact
6	MBHM67	N/A	1952	P5122-06	Intact
7	MBHM68	N/A	1953	P5122-07	Intact
8	MBHM69	N/A	1954	P5122-08	Intact
9	MBHMC6	N/A	5540	P5122-09	Intact
10	MBHMC7	N/A	5541	P5122-10	Intact
11	MBHMC8	N/A	5542	P5122-11	Intact
12	MBHMC9	N/A	5543	P5122-12	Intact
13	MBHMC9D	N/A	5543	P5122-13	Intact
14	MBHMC9S	N/A	5543	P5122-14	Intact
15	MBHMD0	N/A	5544	P5122-15	Intact
16	MBHMD1	N/A	5545	P5122-16	Intact
17	MBHMD2	N/A	5546	P5122-17	Intact
18	MBHMD3	N/A	5547	P5122-18	Intact
19	MBHMD4	N/A	5548	P5122-19	Intact
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	12/5/24	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.	**51879**	SDG NO.	**MBHM62**
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	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	12	✓	
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	13	29	✓	
9 . Instrument raw data by instrument in analysis order	30	599	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	600	737	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	738	739	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	740	756	✓	
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)	757	757	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	758	759	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	760	760	✓	
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 # MBHM62
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5122

A. Number of Samples and Date of Receipt

17 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: 2.0^{o}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):

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

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 MBHM62 For Antimony:

If C = 0.0335539 ppm
Vf = 100 ml
W = 1.24 g
S = 0.872(87.2/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0335539 \times \frac{100}{1.24 \times 0.872} \times 1$$

$$= 3.103164 \text{ mg/kg}$$

= 3.1 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 Silver, Thallium. 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: 14:25
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: 08:00
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: LB133789

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
P5122-01	MBHM62	1	1.15	8.83	9.98	8.85	87.2	
P5122-02	MBHM63	2	1.16	8.41	9.57	6.5	63.5	
P5122-03	MBHM64	3	1.16	8.68	9.84	7.00	67.3	
P5122-04	MBHM65	4	1.16	8.70	9.86	7.71	75.3	
P5122-05	MBHM66	5	1.15	8.60	9.75	7.54	74.3	
P5122-06	MBHM67	6	1.16	8.46	9.62	7.38	73.5	
P5122-07	MBHM68	7	1.11	8.68	9.79	8.52	85.4	
P5122-08	MBHM69	8	1.13	8.45	9.58	8.65	89.0	
P5122-09	MBHMC6	9	1.15	8.57	9.72	6.91	67.2	
P5122-10	MBHMC7	10	1.15	8.64	9.79	7.58	74.4	
P5122-11	MBHMC8	11	1.16	8.64	9.8	7.93	78.4	
P5122-12	MBHMC9	12	1.17	8.44	9.61	8.05	81.5	
P5122-13	MBHMC9D	13	1.17	8.44	9.61	8.05	81.5	
P5122-14	MBHMC9S	14	1.17	8.44	9.61	8.05	81.5	
P5122-15	MBHMD0	15	1.15	8.80	9.95	7.81	75.7	
P5122-16	MBHMD1	16	1.17	8.81	9.98	8.96	88.4	
P5122-17	MBHMD2	17	1.16	8.64	9.8	4.38	37.3	
P5122-18	MBHMD3	18	1.15	8.50	9.65	7.91	79.5	
P5122-19	MBHMD4	19	1.16	8.62	9.78	7.48	73.3	

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

WORKLIST(Hardcopy Internal Chain)

VB1337F89

WorkList Name : %1-p5122 **WorkList ID :** 186073 **Department :** Wet-Chemistry **Date :** 12-06-2024 13:01:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5122-01	MBHM62	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-02	MBHM63	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-03	MBHM64	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-04	MBHM65	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-05	MBHM66	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-06	MBHM67	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-07	MBHM68	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-08	MBHM69	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-09	MBHMC6	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-10	MBHMC7	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-11	MBHMC8	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-12	MBHMC9	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-13	MBHMC9D	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-14	MBHMC9S	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-15	MBHMD0	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-16	MBHMD1	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-17	MBHMD2	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-18	MBHMD3	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5122-19	MBHMD4	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO

Date/Time 12/06/24 13:45

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]

Date/Time 12/06/24 14:30

Raw Sample Received by: [illegible]

Raw Sample Relinquished by: [illegible]