SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHNE9

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHNE9	P5202-01	X			
MBHNF7	P5202-02	X			
MBHNF8	P5202-03	X			
MBHNF9	P5202-04	X			
MBHNG0	P5202-05	X			
MBHNG1	P5202-06	X			
MBHNG2	P5202-07	X			
MBHNG3	P5202-08	X			
MBHNG4	P5202-09	X			
MBHNG5	P5202-10	X			
MBHNG5D	P5202-11	X			
MBHNG5S	P5202-12	X			
MBHNG6	P5202-13	X			
MBHNG7	P5202-14	X			
MBHNG8	P5202-15	X			
MBHNG9	P5202-16	X			
MBHNH0	P5202-17	X			
MBHNJ5	P5202-18	X			
MBHNJ6	P5202-19	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 SDG # MBHNE9

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-120624-103230-0054

DateShipped: 12/6/2024
CarrierName: FedEx
AirbillNo: 7705 5866 0485

Case #: 51879
Cooler #: 1

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
P160-SB-06-Z30-36	MBHNE9	Soil/		ICP-AES(35)	3302 (Wet ice < 6 C) (1)	P160-SB-06	11/19/2024 09:15	
P169-SB-04-Z00-02	MBHNF7	Soil/		ICP-AES(35)	4068 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
P169-SB-04-Z02-06	MBHNF8	Soil/		ICP-AES(35)	4069 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
P169-SB-04-Z06-12	MBHNF9	Soil/		ICP-AES(35)	4010 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
P169-SB-04-Z12-18	MBHNG0	Soil/		ICP-AES(35)	4011 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
P169-SB-04-Z18-24	MBHNG1	Soil/		ICP-AES(35)	4012 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
P169-SB-04-Z24-30	MBHNG2	Soil/		ICP-AES(35)	4013 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
P169-SB-04-Z30-36	MBHNG3	Soil/		ICP-AES(35)	4014 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
P157-SB-01-Z00-02	MBHNG4	Soil/		ICP-AES(35)	3208 (Wet ice < 6 C) (1)	P157-SB-01	11/19/2024 09:20	
P157-SB-01-Z02-06	MBHNG5	Soil/		ICP-AES(35)	3209 (Wet ice < 6 C) (1)	P157-SB-01	11/19/2024 09:20	•

Sample(s) to be used for Lab QC: P157-SB-01-Z02-06 Tag 3209 - Special Instructions: Samples MBHNG5 and MBHNE7 are MS/MSDs. Sample MBHNE4 has 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	12/06/24 16:45	Dem	12/7/24 9:55	1.3° IR ... Temp blank ... Custody seal ...
			N/A [signature] 12/06/24		

68HERH20D0011

SDG # MBHNE9

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-120624-103230-0054

DateShipped: 12/6/2024
CarrierName: FedEx
AirbillNo: 7705 5866 0485

Case #: 51879
Cooler #: 1

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
P157-SB-01-Z06-12	MBHNG6	Soil/		ICP-AES(35)	3170 (Wet ice < 6 C) (1)	P157-SB-01	11/19/2024 09:20	
P157-SB-01-Z12-18	MBHNG7	Soil/		ICP-AES(35)	3171 (Wet ice < 6 C) (1)	P157-SB-01	11/19/2024 09:20	
P157-SB-01-Z18-24	MBHNG8	Soil/		ICP-AES(35)	3172 (Wet ice < 6 C) (1)	P157-SB-01	11/19/2024 09:20	
P157-SB-01-Z24-30	MBHNG9	Soil/		ICP-AES(35)	3173 (Wet ice < 6 C) (1)	P157-SB-01	11/19/2024 09:20	
P157-SB-01-Z30-36	MBHNH0	Soil/		ICP-AES(35)	3174 (Wet ice < 6 C) (1)	P157-SB-01	11/19/2024 09:20	
P173-SB-16-Z06-12-FD	MBHNJ5	Soil/		ICP-AES(35)	5584 (Wet ice < 6 C) (1)	P173-SB-16	11/26/2024 10:15	
P169-SB-04-Z18-24-FD	MBHNJ6	Soil/		ICP-AES(35)	5585 (Wet ice < 6 C) (1)	P169-SB-04	11/19/2024 14:15	
					N/A [signature] 12/06/24			

Special Instructions	
Special Instructions: Samples MBHNG5 and MBHNE7 are MS/MSDs. Sample MBHNE4 has 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] WSP	12/06/24 16:45	[signature]	12/7/24 9:55	1.3° IR [illegible]
					[illegible]
			N/A [signature] 12/06/24		[illegible]

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Cassanova Rona		Log-in Date **12/7/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHNE9	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.	770558604 ~~2-120624-103230-005~~ 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.3 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	12/07/2024
12. Time Received	09:55

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHNE9	N/A	3302	P5202-01	Intact
2	MBHNF7	N/A	4068	P5202-02	Intact
3	MBHNF8	N/A	4069	P5202-03	Intact
4	MBHNF9	N/A	4010	P5202-04	Intact
5	MBHNG0	N/A	4011	P5202-05	Intact
6	MBHNG1	N/A	4012	P5202-06	Intact
7	MBHNG2	N/A	4013	P5202-07	Intact
8	MBHNG3	N/A	4014	P5202-08	Intact
9	MBHNG4	N/A	3208	P5202-09	Intact
10	MBHNG5	N/A	3209	P5202-10	Intact
11	MBHNG5D	N/A	3209	P5202-11	Intact
12	MBHNG5S	N/A	3209	P5202-12	Intact
13	MBHNG6	N/A	3170	P5202-13	Intact
14	MBHNG7	N/A	3171	P5202-14	Intact
15	MBHNG8	N/A	3172	P5202-15	Intact
16	MBHNG9	N/A	3173	P5202-16	Intact
17	MBHNH0	N/A	3174	P5202-17	Intact
18	MBHNJ5	N/A	5584	P5202-18	Intact
19	MBHNJ6	N/A	5585	P5202-19	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	12/9/24	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.	**MBHNE9**
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	383	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	384	520	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	521	522	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	523	531	✓	
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)	532	532	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	533	534	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	535	535	✓	
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 # MBHNE9
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5202

A. Number of Samples and Date of Receipt

17 Soil samples were delivered to the laboratory intact on 12/07/2024.

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: 1.3^{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 MBHNE9 For Arsenic:

If C = 0.0942256 ppm
Vf = 100 ml
W = 1.24 g
S = 0.804(80.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0942256 \times \frac{100}{1.24 \times 0.804} \times 1$$

= 9.45129 mg/kg

= 9.5 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 Silver and 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: 12/12/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:20
In Date: 12/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 12/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133892

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
P5202-01	MBHNE9	1	1.15	8.69	9.84	8.14	80.4	
P5202-02	MBHNF7	2	1.16	8.50	9.66	7.57	75.4	
P5202-03	MBHNF8	3	1.19	8.48	9.67	7.97	80.0	
P5202-04	MBHNF9	4	1.16	8.80	9.96	8.69	85.6	
P5202-05	MBHNG0	5	1.17	8.56	9.73	8.68	87.7	
P5202-06	MBHNG1	6	1.17	8.81	9.98	8.59	84.2	
P5202-07	MBHNG2	7	1.18	8.72	9.9	8.73	86.6	
P5202-08	MBHNG3	8	1.12	8.71	9.83	8.87	89.0	
P5202-09	MBHNG4	9	1.15	8.40	9.55	7.78	78.9	
P5202-10	MBHNG5	10	1.12	8.77	9.89	8.17	80.4	
P5202-11	MBHNG5D	11	1.12	8.77	9.89	8.17	80.4	
P5202-12	MBHNG5S	12	1.12	8.77	9.89	8.17	80.4	
P5202-13	MBHNG6	13	1.16	8.67	9.83	8.28	82.1	
P5202-14	MBHNG7	14	1.17	8.58	9.75	8.54	85.9	
P5202-15	MBHNG8	15	1.17	8.81	9.98	8.67	85.1	
P5202-16	MBHNG9	16	1.18	8.50	9.68	8.08	81.2	
P5202-17	MBHNH0	17	1.14	8.63	9.77	8.19	81.7	
P5202-18	MBHNJ5	18	1.13	8.45	9.58	7.67	77.4	
P5202-19	MBHNJ6	19	1.15	8.50	9.65	8.27	83.8	

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

WORKLIST(Hardcopy Internal Chain)

VB 133892

WorkList Name : %1-p5202 **WorkList ID :** 186235 **Department :** Wet-Chemistry **Date :** 12-11-2024 13:49:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5202-01	MBHNE9	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-02	MBHNF7	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-03	MBHNF8	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-04	MBHNF9	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-05	MBHNG0	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-06	MBHNG1	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-07	MBHNG2	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-08	MBHNG3	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-09	MBHNG4	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-10	MBHNG5	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-11	MBHNG5D	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-12	MBHNG5S	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-13	MBHNG6	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-14	MBHNG7	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-15	MBHNG8	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-16	MBHNG9	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-17	MBHNH0	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-18	MBHNJ5	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/19/2024	Chemtech -SO
P5202-19	MBHNJ6	Solid	Percent Solids	Cool 4 deg C	USEP01	C63	11/26/2024	Chemtech -SO

Date/Time 12-11-24 14:30

Raw Sample Received by: WC

Raw Sample Relinquished by: SM

Date/Time 12-11-24 15:25

Raw Sample Received by: SM

Raw Sample Relinquished by: WC