SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHLR0

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHLR0	P5084-01	X			
MBHLW6	P5084-02	X			
MBHLW7	P5084-03	X			
MBHLW8	P5084-04	X			
MBHLW9	P5084-05	X			
MBHLX0	P5084-06	X			
MBHLX1	P5084-07	X			
MBHLX2	P5084-08	X			
MBHLX3	P5084-09	X			
MBHLX4	P5084-10	X			
MBHLX5	P5084-11	X			
MBHLX6	P5084-12	X			
MBHLX7	P5084-13	X			
MBHLX7D	P5084-14	X			
MBHLX7S	P5084-15	X			
MBHLX8	P5084-16	X			
MBHLX9	P5084-17	X			
MBHM32	P5084-18	X			
MBHM33	P5084-19	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 # MBHLR0

USEPA CLP COC (LAB COPY)

DateShipped: 12/3/2024

CarrierName: FedEx

AirbillNo: 7704 5937 9489

CHAIN OF CUSTODY RECORD

Case #: 51879

Cooler #: 3

No: 2-120324-105006-0042

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
P178-SB-03-Z30-36	MBHLR0	Soil/		ICP-AES(35)	5067 (Wet ice < 6 C) (1)	P178-SB-03	11/21/2024 14:05	
P174-SB-06-Z00-02	MBHLW6	Soil/		ICP-AES(35)	4636 (Wet ice < 6 C) (1)	P174-SB-06	11/20/2024 10:55	
P174-SB-06-Z02-06	MBHLW7	Soil/		ICP-AES(35)	4637 (Wet ice < 6 C) (1)	P174-SB-06	11/20/2024 10:55	
P174-SB-06-Z06-12	MBHLW8	Soil/		ICP-AES(35)	4638 (Wet ice < 6 C) (1)	P174-SB-06	11/20/2024 10:55	
P174-SB-06-Z12-18	MBHLW9	Soil/		ICP-AES(35)	4639 (Wet ice < 6 C) (1)	P174-SB-06	11/20/2024 10:55	
P174-SB-06-Z18-24	MBHLX0	Soil/		ICP-AES(35)	4590 (Wet ice < 6 C) (1)	P174-SB-06	11/20/2024 10:55	
P174-SB-06-Z24-30	MBHLX1	Soil/		ICP-AES(35)	4591 (Wet ice < 6 C) (1)	P174-SB-06	11/20/2024 10:55	
P174-SB-06-Z30-36	MBHLX2	Soil/		ICP-AES(35)	4592 (Wet ice < 6 C) (1)	P174-SB-06	11/20/2024 10:55	
P177-SB-14-Z00-02	MBHLX3	Soil/		ICP-AES(35)	5040 (Wet ice < 6 C) (1)	P177-SB-14	11/22/2024 08:40	
P177-SB-14-Z02-06	MBHLX4	Soil/		ICP-AES(35)	5041 (Wet ice < 6 C) (1)	P177-SB-14	11/22/2024 08:40	

Special Instructions: Samples MBHLK0 and MBHLX7 are MS/MSDs. Samples MBHLM1, MBHLM2, MBHLM3 and MBHLM5 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] WSP	12/03/24 1605	[signature]	1020 12-4-24	TR-Gun #1 1.9°C
		N/A	[signature]		Custody Seal Intact
		12/03/24			Temp Blk present

68HERH20D0011

SDG # MBHLR0

USEPA CLP COC (LAB COPY)

DateShipped: 12/3/2024

CarrierName: FedEx

AirbillNo: 7704 5937 9489

CHAIN OF CUSTODY RECORD

Case #: 51879

Cooler #: 3

No: 2-120324-105006-0042

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
P177-SB-14-Z06-12	MBHLX5	Soil/		ICP-AES(35)	5042 (Wet ice < 6 C) (1)	P177-SB-14	11/22/2024 08:40	
P177-SB-14-Z12-18	MBHLX6	Soil/		ICP-AES(35)	5043 (Wet ice < 6 C) (1)	P177-SB-14	11/22/2024 08:40	
P177-SB-14-Z18-24	MBHLX7	Soil/		ICP-AES(35)	5044 (Wet ice < 6 C) (1)	P177-SB-14	11/22/2024 08:40	QC
P177-SB-14-Z24-30	MBHLX8	Soil/		ICP-AES(35)	5045 (Wet ice < 6 C) (1)	P177-SB-14	11/22/2024 08:40	
P177-SB-14-Z30-36	MBHLX9	Soil/		ICP-AES(35)	5046 (Wet ice < 6 C) (1)	P177-SB-14	11/22/2024 08:40	
P174-SB-06-Z18-24-FD	MBHM32	Soil/		ICP-AES(35)	5531 (Wet ice < 6 C) (1)	P174-SB-06	11/26/2024 09:15	
P178-SB-03-Z00-02-FD	MBHM33	Soil/		ICP-AES(35)	5532 (Wet ice < 6 C) (1)	P178-SB-03	11/21/2024 14:05	
				N/A	1 Cooler	12/03/24		

Sample(s) to be used for Lab QC: P177-SB-14-Z18-24 Tag 5044 - Special Instructions: Samples MBHLK0 and MBHLX7 are MS/MSDs. Samples MBHLM1, MBHLM2, MBHLM3 and MBHLM5 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	12/03/24 1605		1020 12-4-24	IR-Gun #1 1.9°C
		N/A			Custody Seal Intact
			12/03/24		Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Cassandra Rivera		Log-in Date 12/4/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHLR0	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.	770459379489 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.9 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	12/04/2024
12.Time Received	10:20

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHLR0	N/A	5067	P5084-01	Intact
2	MBHLW6	N/A	4636	P5084-02	Intact
3	MBHLW7	N/A	4637	P5084-03	Intact
4	MBHLW8	N/A	4638	P5084-04	Intact
5	MBHLW9	N/A	4639	P5084-05	Intact
6	MBHLX0	N/A	4590	P5084-06	Intact
7	MBHLX1	N/A	4591	P5084-07	Intact
8	MBHLX2	N/A	4592	P5084-08	Intact
9	MBHLX3	N/A	5040	P5084-09	Intact
10	MBHLX4	N/A	5041	P5084-10	Intact
11	MBHLX5	N/A	5042	P5084-11	Intact
12	MBHLX6	N/A	5043	P5084-12	Intact
13	MBHLX7	N/A	5044	P5084-13	Intact
14	MBHLX7D	N/A	5044	P5084-14	Intact
15	MBHLX7S	N/A	5044	P5084-15	Intact
16	MBHLX8	N/A	5045	P5084-16	Intact
17	MBHLX9	N/A	5046	P5084-17	Intact
18	MBHM32	N/A	5531	P5084-18	Intact
19	MBHM33	N/A	5532	P5084-19	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	12/4/24	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.	**MBHLR0**
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	1304	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	1305	1443	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1444	1445	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1446	1494	✓	
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)	1495	1495	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1496	1497	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1498	1498	✓	
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 # MBHLR0
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5084

A. Number of Samples and Date of Receipt

17 Soil samples were delivered to the laboratory intact on 12/04/2024.

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: 1.9^{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 MBHLR0 For Antimony:

If C = 0.0491053 ppm
Vf = 100 ml
W = 1.36 g
S = 0.872(87.2/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0491053 \times \frac{100}{1.36 \times 0.872} \times 1$$

$$= 4.14069 \text{ mg/kg}$$

= 4.1 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 requirement Antimony, Selenium, Silver, Thallium. Duplicate sample did meet requirements. Serial Dilution did meet requirements Cobalt, Copper.

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: 12/6/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 14:40
In Date: 12/05/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 12/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133763

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
P5084-01	MBHLR0	1	1.17	8.52	9.69	8.6	87.2	
P5084-02	MBHLW6	2	1.14	8.74	9.88	8.08	79.4	
P5084-03	MBHLW7	3	1.14	8.68	9.82	8.39	83.5	
P5084-04	MBHLW8	4	1.13	8.45	9.58	8.65	89.0	
P5084-05	MBHLW9	5	1.16	8.77	9.93	9.43	94.3	
P5084-06	MBHLX0	6	1.16	8.54	9.7	9.15	93.6	
P5084-07	MBHLX1	7	1.16	8.65	9.81	9.21	93.1	
P5084-08	MBHLX2	8	1.14	8.48	9.62	9.19	94.9	
P5084-09	MBHLX3	9	1.14	8.61	9.75	7.73	76.5	
P5084-10	MBHLX4	10	1.14	8.78	9.92	8.58	84.7	
P5084-11	MBHLX5	11	1.14	8.60	9.74	8.92	90.5	
P5084-12	MBHLX6	12	1.12	8.54	9.66	9.00	92.3	
P5084-13	MBHLX7	13	1.15	8.55	9.7	9.12	93.2	
P5084-14	MBHLX7D	14	1.15	8.55	9.7	9.12	93.2	
P5084-15	MBHLX7S	15	1.15	8.55	9.7	9.12	93.2	
P5084-16	MBHLX8	16	1.16	8.57	9.73	9.14	93.1	
P5084-17	MBHLX9	17	1.13	8.77	9.9	9.27	92.8	
P5084-18	MBHM32	18	1.12	8.42	9.54	9.02	93.8	
P5084-19	MBHM33	19	1.16	8.63	9.79	7.57	74.3	

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

WORKLIST(Hardcopy Internal Chain)

VB1337763

WorkList Name : %1-P5084 **WorkList ID :** 186015 **Department :** Wet-Chemistry **Date :** 12-05-2024 13:48:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5084-01	MBHLR0	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/21/2024	Chemtech -SO
P5084-02	MBHLW6	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-03	MBHLW7	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-04	MBHLW8	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-05	MBHLW9	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-06	MBHLX0	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-07	MBHLX1	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-08	MBHLX2	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-09	MBHLX3	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/20/2024	Chemtech -SO
P5084-10	MBHLX4	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-11	MBHLX5	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-12	MBHLX6	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-13	MBHLX7	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-14	MBHLX7D	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-15	MBHLX7S	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-16	MBHLX8	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-17	MBHLX9	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-18	MBHM32	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/22/2024	Chemtech -SO
P5084-19	MBHM33	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/26/2024	Chemtech -SO
P5084-20	MBHM34	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/21/2024	Chemtech -SO

Date/Time 12/05/24 14:15
Raw Sample Received by: TD WLC
Raw Sample Relinquished by: SM

Date/Time 12/05/24 14:45
Raw Sample Received by: SM
Raw Sample Relinquished by: TD WLC