SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHNC3

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHNC3	P5210-01	X			
MBHNC4	P5210-02	X			
MBHNC5	P5210-03	X			
MBHNC6	P5210-04	X			
MBHNC7	P5210-05	X			
MBHNC8	P5210-06	X			
MBHNH8	P5210-07	X			
MBHNH9	P5210-08	X			
MBHNJ0	P5210-09	X			
MBHNJ0D	P5210-10	X			
MBHNJ0S	P5210-11	X			
MBHNJ1	P5210-12	X			
MBHNJ2	P5210-13	X			
MBHNL0	P5210-14	X			
MBHNL1	P5210-15	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 # MBHNC3

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-120624-160448-0058

DateShipped: 12/6/2024

CarrierName: FedEx

AirbillNo: 7705 5866 1595

Case #: 51879

Cooler #: 5

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
P161-SB-01-Z02-06	MBHNC3	Soil/		ICP-AES(35)	3304 (Wet ice < 6 C) (1)	P161-SB-01	11/19/2024 11:00	
P161-SB-01-Z06-12	MBHNC4	Soil/		ICP-AES(35)	3305 (Wet ice < 6 C) (1)	P161-SB-01	11/19/2024 11:00	
P161-SB-01-Z12-18	MBHNC5	Soil/		ICP-AES(35)	3306 (Wet ice < 6 C) (1)	P161-SB-01	11/19/2024 11:00	
P161-SB-01-Z18-24	MBHNC6	Soil/		ICP-AES(35)	3307 (Wet ice < 6 C) (1)	P161-SB-01	11/19/2024 11:00	
P161-SB-01-Z24-30	MBHNC7	Soil/		ICP-AES(35)	3308 (Wet ice < 6 C) (1)	P161-SB-01	11/19/2024 11:00	
P161-SB-01-Z30-36	MBHNC8	Soil/		ICP-AES(35)	3309 (Wet ice < 6 C) (1)	P161-SB-01	11/19/2024 11:00	
P179-SB-13-Z00-02	MBHNH8	Soil/		ICP-AES(35)	5577 (Wet ice < 6 C) (1)	179-SB-13	11/22/2024 11:55	
P179-SB-13-Z02-06	MBHNH9	Soil/		ICP-AES(35)	5578 (Wet ice < 6 C) (1)	179-SB-13	11/22/2024 11:55	
P179-SB-13-Z06-12	MBHNJ0	Soil/		ICP-AES(35)	5579 (Wet ice < 6 C) (1)	179-SB-13	11/22/2024 11:55	
P179-SB-13-Z12-18	MBHNJ1	Soil/		ICP-AES(35)	5580 (Wet ice < 6 C) (1)	179-SB-13	11/22/2024 11:55	

Sample(s) to be used for Lab QC: P179-SB-13-Z06-12 Tag 5579 - Special Instructions: Samples MBHNJ0 and MBHN81 are MS/MSDs. Samples MBHNJ2, MBHMZ5, MBHNL1, MBHNC2, MBHNC3, MBHNC5, MBHNC7, MBHNL0 MBHN96 and MBHNE0.

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 1715	[signature]	12/7/24	2.3°
			UA [signature] 12/06/24	9:55	Temp blank

68HERH20D0011

SDG # MBHNC3

USEPA CLP COC (LAB COPY)

DateShipped: 12/6/2024
CarrierName: FedEx
AirbillNo: 7705 5866 1595

CHAIN OF CUSTODY RECORD

Case #: 51879
Cooler #: 5

No: 2-120624-160448-0058

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
P179-SB-13-Z18-24	MBHNJ2	Soil/		ICP-AES(35)	5581 (Wet ice < 6 C) (1)	179-SB-13	11/22/2024 11:55	
P161-SB-01-Z24-30-FD	MBHNL0	Soil/		ICP-AES(35)	5592 (Wet ice < 6 C) (1)	P161-SB-01	11/19/2024 11:00	
P171-SB-08-Z12-18-FD	MBHNL1	Soil/		ICP-AES(35)	5593 (Wet ice < 6 C) (1)	P171-SB-08	11/20/2024 13:20	

N/A 12/06/24

Special Instructions: Samples MBHNJ0 and MBHN81 are MS/MSDs. Samples MBHNJ2, MBHMZ5, MBHNL1, MBHNC2, MBHNC3, MBHNC5, MBHNC7, MBHNL0 MBHN96 and MBHNE0.

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 1715	[signature]	12/7/24 9:55	2.3°C IR Unit #1 Temp blank present Cust. seal present
			N/A 12/06/24		

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) Casanova Lena		Log-in Date **12/7/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHNC3	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.	770558661595 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	MBHNC3	N/A	3304	P5210-01	Intact
2	MBHNC4	N/A	3305	P5210-02	Intact
3	MBHNC5	N/A	3306	P5210-03	Intact
4	MBHNC6	N/A	3307	P5210-04	Intact
5	MBHNC7	N/A	3308	P5210-05	Intact
6	MBHNC8	N/A	3309	P5210-06	Intact
7	MBHNH8	N/A	5577	P5210-07	Intact
8	MBHNH9	N/A	5578	P5210-08	Intact
9	MBHNJ0	N/A	5579	P5210-09	Intact
10	MBHNJ0D	N/A	5579	P5210-10	Intact
11	MBHNJ0S	N/A	5579	P5210-11	Intact
12	MBHNJ1	N/A	5580	P5210-12	Intact
13	MBHNJ2	N/A	5581	P5210-13	Intact
14	MBHNL0	N/A	5592	P5210-14	Intact
15	MBHNL1	N/A	5593	P5210-15	Intact
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	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.	**MBHNC3**
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	25	✓	
9 . Instrument raw data by instrument in analysis order	26	637	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	638	777	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	778	779	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	780	797	✓	
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)	798	798	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	799	800	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	801	801	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab)

(Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	(Date)

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # MBHNC3
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5210

A. Number of Samples and Date of Receipt

13 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: 2.3^{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 MBHNC3 For Arsenic:

If C = 0.0993577 ppm
Vf = 100 ml
W = 1.18 g
S = 0.82(82.0/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0993577 \times \frac{100}{1.18 \times 0.82} \times 1$$

= 10.268468 mg/kg

= 10 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 Antimony, Arsenic, Barium, Copper, Selenium, and Silver. Duplicate sample did meet requirements except for Aluminum, Arsenic, Calcium, Iron, Magnesium, and Manganese. Serial Dilution did meet requirements.

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: 12/13/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:50
In Date: 12/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:33
Out Date: 12/13/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC: LB133913

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
P5210-01	MBHNC3	1	1.17	8.63	9.8	8.25	82.0	
P5210-02	MBHNC4	2	1.16	8.45	9.61	8.4	85.7	
P5210-03	MBHNC5	3	1.15	8.66	9.81	8.57	85.7	
P5210-04	MBHNC6	4	1.14	8.64	9.78	8.82	88.9	
P5210-05	MBHNC7	5	1.17	8.35	9.52	7.99	81.7	
P5210-06	MBHNC8	6	1.14	8.64	9.78	8.23	82.1	
P5210-07	MBHNH8	7	1.16	8.56	9.72	7.48	73.8	
P5210-08	MBHNH9	8	1.19	8.56	9.75	8.06	80.3	
P5210-09	MBHNJ0	9	1.17	8.69	9.86	8.57	85.2	
P5210-10	MBHNJ0D	10	1.17	8.69	9.86	8.57	85.2	
P5210-11	MBHNJ0S	11	1.17	8.69	9.86	8.57	85.2	
P5210-12	MBHNJ1	12	1.19	8.42	9.61	8.21	83.4	
P5210-13	MBHNJ2	13	1.16	8.36	9.52	8.17	83.9	
P5210-14	MBHNL0	14	1.16	8.54	9.7	8.3	83.6	
P5210-15	MBHNL1	15	1.14	8.64	9.78	8.66	87.0	

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

WORKLIST(Hardcopy Internal Chain)

VM 133913

WorkList Name : %1-p5210 **WorkList ID :** 186277 **Department :** Wet-Chemistry **Date :** 12-12-2024 10:41:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5210-01	MBHNC3	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
P5210-02	MBHNC4	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
P5210-03	MBHNC5	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
P5210-04	MBHNC6	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
P5210-05	MBHNC7	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
P5210-06	MBHNC8	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
P5210-07	MBHNH8	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
P5210-08	MBHNH9	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5210-09	MBHNJ0	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5210-10	MBHNJ0D	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5210-11	MBHNJ0S	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5210-12	MBHNJ1	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5210-13	MBHNJ2	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5210-14	MBHNL0	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/22/2024	Chemtech -SO
P5210-15	MBHNL1	Solid	Percent Solids	Cool 4 deg C	USEP01	C41	11/19/2024	Chemtech -SO
							11/20/2024	Chemtech -SO

Date/Time 12-12-24 13:25

Raw Sample Received by: TB WPL

Raw Sample Relinquished by: SM

Date/Time 12-12-24 14:00

Raw Sample Received by: SM

Raw Sample Relinquished by: TB WPL