#### SDG COVER PAGE

MA No.: _	Analysis ICP-MS	Method Mercury	Cyanide
X X X X X X X X X X X X X X X X X X X			Cyanide
X X X X X X X X X X X X X X X X X X X			Cyanide
X X X X X X X X			
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USEPA CLP COC (LAB COPY)

DateShipped: 12/5/2024

CarrierName: FedEx
AirbillNo: 7705 5865 9768

# CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 1

SDG # MBHMN6

68HERH20D0011

No: 2-120524-094314-0052

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-09-Z00- 02	MBHMN6	Soil/		ICP-AES(35)	5189 (Wet ice < 6 C) (1)	P179-SB-09	11/22/2024 10:05	
P179-SB-09-Z02- 06	MBHMN7	Soil/		ICP-AES(35)	5120 (Wet ice < 6 C) (1)	P179-SB-09	11/22/2024 10:05	
P179-SB-09-Z06- 12	MBHMN8	Soil/		ICP-AES(35)	5121 (Wet ice < 6 C) (1)	P179-SB-09	11/22/2024 10:05	
P179-SB-09-Z12- 18	MBHMN9	Soil/		ICP-AES(35)	5122 (Wet ice < 6 C) (1)	P179-SB-09	11/22/2024 10:05	
P179-SB-09-Z18- 24	МВНМРО	Soil/		ICP-AES(35)	5123 (Wet ice < 6 C) (1)	P179-SB-09	11/22/2024 10:05	•
P179-SB-09-Z24- 30	MBHMP1	Soil/		ICP-AES(35)	5124 (Wet ice < 6 C) (1)	P179-SB-09	11/22/2024 10:05	
P179-SB-09-Z30- 36	МВНМР2	Soil/		ICP-AES(35)	5125 (Wet ice < 6 C) (1)	P179-SB-09	11/22/2024 10:05	
P179-SB-02-Z00- 02	МВНМР3	Soil/		ICP-AES(35)	5090 (Wet ice < 6 C) (1)	P179-SB-02	11/22/2024 10:50	
P179-SB-02-Z02- 06	MBHMP4	Soil/		ICP-AES(35)	5091 (Wet ice < 6 C) (1)	P179-SB-02	11/22/2024 10:50	
P179-SB-02-Z06- 12	MBHMP5	Soil/		ICP-AES(35)	5092 (Wet ice < 6 C) (1)	P179-SB-02	11/22/2024 10:50	

Sample(s) to be used for Lab QC: P179-SB-09-Z18-24 Tag 5123 - Special Instructions: Samples MBHMQ9 and MBHMP0 are MS/MSDs. Samples MBHMR1, MBHMT8 and MBHMW3 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

		h2/90121			
What Som In		If stage	2		×
Tep bleve Benn	77:6				
1.8" IRem #	12/7/24)	Dem	12106124	Sour was	2 Cooler
Sample Condition Upon Receipt	Date/Time	Received by (Signature and Organization)	Date/Time	Items/Reason Relinquished by (Signature and Organization) Date/Time	Items/Reason

### AirbillNo: 7705 5865 9768 CarrierName: FedEx

# CHAIN OF CUSTODY RECORD

## SDG # MBHMN6

68HERH20D0011

Lab: Alliance Technical Group LLC No: 2-120524-094314-0052

Lab Contact: Mohammad Ahmed Lab Phone: 908-789-8900

Case #: 51879 Cooler #: 1

Sample Identifier	P179-SB-11-Z06- 12	P179-SB-11-Z12- 18	P179-SB-11-Z18- 24	P179-SB-11-Z24- 30	P179-SB-11-Z30- 36	P179-SB-02-Z00- 02-FD	P179-SB-03-Z06- 12-FD			
CLP Sample No.	MBHMWO	MBHMW1	MBHMW2	MBHMW3	MBHWW4	мвнмwв	MBHWW9			
Matrix/Sampler	Soil/									
Coll. Method										
Analysis/Turnaround (Days)	ICP-AES(35)		104							
Tag/Preservative/Bottles	5195 (Wet ice < 6 C) (1)	5196 (Wet ice < 6 C) (1)	5197 (Wet ice < 6 C) (1)	5198 (Wet ice < 6 C) (1)	5199 (Wet ice < 6 C) (1)	5566 (Wet ice < 6 C) (1)	5567 (Wet ice < 6 C) (1)	À	X	12/06/24
Location	P179-SB-11	P179-SB-11	P179-SB-11	P179-SB-11	P179-SB-11	P179-SB-02	P179-SB-03		, ux	
Collection Date/Time	11/22/2024 12:05	11/22/2024 12:05	11/22/2024 12:05	11/22/2024 12:05	11/22/2024 12:05	11/22/2024 10:50	11/22/2024 09:40			
For Lab Use Only										

Special Instructions: Samples MBHMQ9 and MBHMP0 are MS/MSDs. Samples MBHMR1, MBHMT8 and MBHMW3 have limited sample mass.

Samples Transferred From Chain of Custody # Shipment for Case Complete? N

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

(my Bun )		10014	13		
Ten blen Ban	9:57				
1.8" IREM +	12/7/24	De-	12106124	Shiph wish	1 Couler
Date/Time Sample Condition Upon Receipt	Date/Time	Received by (Signature and Organization)	Date/Time	Items/Reason Relinquished by (Signature and Organization)	Items/Reason

#### FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Grou	p, LLC	Page_1_of_1_
Received By (Print Name)	nava Rina	Log-in Date 12/7/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHMN6	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.	770558659768 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.8 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

	1				
			Correspondi	ng	
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	мвнми6	N/A	5189	P5198-01	Intact
2	мвнми7	N/A	5120	P5198-02	Intact
3	мвнми8	N/A	5121	P5198-03	Intact
4	мвнми9	N/A	5122	P5198-04	Intact
5	МВНМРО	N/A	5123	P5198-05	Intact
6	MBHMP0D	N/A	5123	P5198-06	Intact
7	мвнмроѕ	N/A	5123	P5198-07	Intact
8	МВНМР1	N/A	5124	P5198-08	intact
9	МВНМР2	N/A	5125	P5198-09	Intact
10	мвнмрз	N/A	5090	P5198-10	Intact
11	МВНМР4	N/A	5091	P5198-11	Intact
12	мвнмр5	N/A	5092	P5198-12	Intact
13	мвнмwо	N/A	5195	P5198-13	Intact
14	MBHMW1	N/A	5196	P5198-14	Intact
15	MBHMW2	N/A	5197	P5198-15	Intact
16	мвнмwз	N/A	5198	P5198-16	Intact
17	MBHMW4	N/A	5199	P5198-17	Intact
18	MBHMW8	N/A	5566	P5198-18	Intact
19	мвнмw9	N/A	5567	P5198-19	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 Tech	nical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51879	SDG NO.	мвнми6	
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 1	NOs:	СН	ECK
		FROM	TO	LAB	REGION
1.	SDG Cover Page	1	1	✓	
2.	Traffic Report/Chain of Custody Record(s)	2	3	<b>✓</b>	
3.	Sample Log-In Sheet (DC-1)	4	4	<b>✓</b>	
4.	CSF Inventory Sheet (DC-2)	5	7	<b>✓</b>	
5.	SDG Narrative	8	10	✓	
6.	Communication Logs	NA	NA	✓	
7.	Percent Solids Log	11	12	✓	
Ana:	lysis Forms and Data (ICP-AES)				
8.	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	13	29	✓	
9.	or sample analysis, laboratory QC as applicable Instrument raw data by instrument in analysis order	30	414	✓	
Othe	er Data				
10.	Standard and Reagent Preparation Logs	415	553	✓	
11.	Original Preparation and Cleanup forms or copies of Preparation and	554	555	✓	
12.	Cleanup Logbooks Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	556	566		·
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		
Ana	lysis Forms and Data (ICP-MS)				
17.	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	✓	
18.	or sample analysis, laboratory QC as applicable Instrument raw data by instrument in analysis order	NA	NA	✓	
Othe	er Data				
	Standard and Reagent Preparation Logs	NA	NA	✓	
20.	Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
21.	Cleanup Logbooks 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 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	<b>✓</b>	
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	<b>√</b>	
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	<b>✓</b>	
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	<b>✓</b>	·
43 . Raw Florisil Data	NA	NA	✓	

		PAGE	NOs:	CH	HECK
		FROM	TO	LAB	REGION
Additional					
44. EPA Shipping/Receiving Documents					
Airbill (No. of Shipments1)		567	567		_
Sample Tags		NA	NA	✓	_
Sample Log-In Sheet (Lab)		568	569	<b>√</b>	
45. Misc. Shipping/Receiving Records(list all individua	al records)				-
		NA	NA		
_					
46. Internal Lab Sample Transfer Records and Tracking S	Sheets				
(describe or list)					
		570	570		
47. Other Records and related Communication Logs					
(describe or list)		NA	NA		
48. Comments:					
Completed by: (CLP Lab)	Nimisha Pandya, Docum	ont Control	Officer		
(Signature)	(Print Name & Title)		OTTICEL	(Da	te)
Audited by:					
(EPA) (Signature)	(Print Name & Title)			(Da	te)
(019140410)	//			(Da	/



#### **SDG NARRATIVE**

USEPA
SDG # MBHMN6
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5198

#### A. Number of Samples and Date of Receipt

17 Soil sample 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: 1.8°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 MBHMN6 For Arsenic:**

If C = 
$$0.2087736$$
 ppm  
Vf =  $100$  ml  
W =  $1.28$  g  
S =  $0.713(71.3/100)$   
DF =  $1$ 

Concentration (mg/kg) = 
$$0.2087736 \times \frac{100}{1.28 \times 0.713} \times 1$$

= 22.87578 mg/kg

= 23 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, Selenium, Silver, and Thallium. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Aluminum, Barium, Calcium, Chromium, Iron, Magnesium, Manganese and Zinc.

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: 12/11/2024

OVENTEMP OUT Celsius(°C): 103

Time OUT: 08:15

Out Date: 12/11/2024

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

Thermometer ID: % SOLID- OVEN

OVENTEMP IN Celsius(°C): 107

Time IN: 16:05

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

OvenID: M OVEN#1

In Date: 12/10/2024

Qc:LB133869

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
P5198-01	мвнми6	1	1.12	8.49	9.61	7.17	71.3	
P5198-02	MBHMN7	2	1.14	8.50	9.64	7.2	71.3	
P5198-03	MBHMN8	3	1.13	8.59	9.72	7.68	76.3	
P5198-04	мвнми9	4	1.15	8.54	9.69	7.96	79.7	
P5198-05	мвнмр0	5	1.15	8.57	9.72	7.94	79.2	
P5198-06	МВНМР0D	6	1.15	8.57	9.72	7.94	79.2	
P5198-07	мвнмр0s	7	1.15	8.57	9.72	7.94	79.2	
P5198-08	МВНМР1	8	1.15	8.84	9.99	8.64	84.7	
P5198-09	МВНМР2	9	1.14	8.36	9.5	8.59	89.1	
P5198-10	мвнмр3	10	1.14	8.50	9.64	7.12	70.4	
P5198-11	МВНМР4	11	1.15	8.59	9.74	7.66	75.8	
P5198-12	МВНМР5	12	1.15	8.83	9.98	8.38	81.9	
P5198-13	MBHMW0	13	1.15	8.37	9.52	7.52	76.1	
P5198-14	MBHMW1	14	1.15	8.71	9.86	8.12	80.0	
P5198-15	MBHMW2	15	1.15	8.57	9.72	8.18	82.0	
P5198-16	мвниw3	16	1.16	8.52	9.68	8.2	82.6	
P5198-17	MBHMW4	17	1.14	8.58	9.72	8.84	89.7	
P5198-18	MBHMW8	18	1.14	8.49	9.63	6.93	68.2	
P5198-19	мвниw9	19	1.14	8.83	9.97	8.48	83.1	

# WORKLIST(Hardcopy Internal Chain)

N 133869

Department: Wet-Chemistry WorkList ID: 186194 WorkList Name: %1-p5198

Date: 12-10-2024 15:08:19

Samula							Date: 12-10-2(	12-10-2024 15:08:19
	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage	Collect Date	Method
P5198-01	MBHMNs	9				Location		
		Solid	Percent Solids	Cool 4 deg C				
P5198-02	MBHMN7	Solid	Doront Dollar	O Boston	USEP01	C23	11/22/2024	Chemtech -SO
P5198-03	MBHMN8	Tilou	Spilos missis	Cool 4 deg C	USEP01	C23	11/22/2024	Chemtech -So
P5198-04	MBHMN9	Pilos Pilos	rencent Solids	Cool 4 deg C	USEP01	C23	11/22/2024	Chemtech -SO
P5198-05	MBHMP0	200	rercent solids	Cool 4 deg C	USEP01	C23	11/22/2024	Chemtach - SO
P5198-06	МВНМВО	Diloc	Percent Solids	Cool 4 deg C	USEP01	C23	11/22/2024	o de la constante de la consta
P5198-07		Solid	Percent Solids	Cool 4 deg C	USEP01	C.23		Oc- Clenifection - 20
0000	MBHMP0S	Solid	Percent Solids	0 2000		020	11/22/2024	Chemtech -SO
P5198-08	MBHMP1	Solid	Percent Solide	Cool 4 deg C	USEP01	C23	11/22/2024	Chemtech -SO
P5198-09	MBHMP2	Solid	Percent College	Cool 4 deg C	USEP01	C23	11/22/2024	Chemtech -SO
P5198-10	MBHMP3		SDIIOS III SOLICA	Cool 4 deg C	USEP01	C23	11/22/2024	Chomody
2,00710		Solid	Percent Solids	Cool 4 deg C	I ISED04		120212211	Chemieca -SO
P5198-11	MBHMP4	Solid	Percent Solids	0 - 1 1 1000	0.000	C23	11/22/2024	Chemtech -SO
P5198-12	MBHMP5	Solid Control		Cool 4 deg C	USEP01	C23	11/22/2024	Chemtech -So
P5198-13	MBHMMO		rercent Solids	Cool 4 deg C	USEP01	C23	11/22/2024	
P5198-14		Solid	Percent Solids	Cool 4 deg C	USEP01	C23	44 100 100 1	Chemiech -SO
2000		Solid	Percent Solids	Cool 4 deg C	LISEDO1	670	11/22/2024	Chemtech -SO
C1-981CL	MBHMW2	Solid	Percent Solids	Cont A don C		573	11/22/2024	Chemtech -SO
P5198-16	MBHMW3	Solid	Percent Solida	O Gent	USEP01	C23	11/22/2024	Chemtech -SO
P5198-17	MBHMW4		Spilos in Spilos	Cool 4 deg C	USEP01	C23	11/22/2024	Chemtech -SO
P5198-18	MBHMW8		reicent Solids	Cool 4 deg C	USEP01	C23	11/22/2024	Chemtech SO
P5198-19			Percent Solids	Cool 4 deg C	USEP01	C23	1	Ohometon de
		Solid	Percent Solids	Cool 4 deg C	USEP01	C23	- 1	Chemited Chemited
							- 1	00-10011010

Date/Time Dar 10,21 Raw Sample Received by:

Raw Sample Relinquished by:

Page 1 of 1

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time (2-10.24 151.30