SDG COVER PAGE

Alliance Technical Group, LLC Lab Name: Contract: 68HERH20D0011 Lab Code: Case No.: 51879 MA No.: SDG No.: MBHJ70 SOW No. : SFAM01.1 Analysis Method ICP-AES EPA Sample No. Lab Sample Id ICP-MS Mercury Cyanide MBHJ70 P4980-01 Χ P4980-02 Χ MBHJ71 MBHJ72 P4980-03 Χ MBHJ73 P4980-04 MBHJ74 P4980-05 Χ MBHJ75 P4980-06 Χ MBHJ76 P4980-07 Χ P4980-08 MBHJ84 Χ MBHJ85 P4980-09 Χ P4980-10 Χ MBHJ86 MBHJ87 P4980-11 Χ MBHJ88 P4980-12 Χ MBHJ88D P4980-13 Χ Χ MBHJ88S P4980-14 MBHJ89 P4980-15 MBHJ90 P4980-16 Χ MBHJB0 P4980-17 Χ мвн дв1 P4980-18 Χ MBHJB2 P4980-19 Χ MBHJB3 P4980-20 Χ MBHJB4 P4980-21 Χ MBHJB5 P4980-22 Χ 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:

Title:

Date:

68HERH20D0011

SDG # MBHJ70

USEPA CLP COC (LAB COPY)

AirbillNo: 7701 5925 2172 CarrierName: FedEx DateShipped: 11/22/2024

CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 3

No: 2-112224-110104-0016

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
P143-SB-15-Z00- 02	MBHJ70	Soil/		ICP-AES(35)	2075 (Wet ice < 6 C) (1)	P143-SB-15	11/18/2024 13:50	
P143-SB-15-Z02- 06	MBHJ71	Soil/		ICP-AES(35)	2076 (Wet ice < 6 C) (1)	P143-SB-15	11/18/2024 13:50	
P143-SB-15-Z06- 12	MBHJ72	Soil/		ICP-AES(35)	2077 (Wet ice < 6 C) (1)	P143-SB-15	11/18/2024 13:50	
P143-SB-15-Z12-	MBHJ73	Soil/		ICP-AES(35)	2078 (Wet ice < 6 C) (1)	P143-SB-15	11/18/2024 13:50	

Special instructions: Sample MBHJ88 is a MS/MSD. Samples MBHJB0, MBHJB1, MBHJB2, MBHJB3, MBHJB4, MBHJB5, MBHJB6, MBHJ84, MBHJ85, MBHJ86, MBHJ86, MBHJ86, MBHJ86, MBHJ86, MBHJ87, MBHJ70, MBHJ70, MBHJ71, MBHJ72, MBHJ73, MBHJ74, MBHJ76 and MBHJE7 have limited sample mass.

P143-SB-14-Z06-P143-SB-14-Z02-06

MBHJ86

Soil

ICP-AES(35)

2070 (Wet ice < 6 C) (1)

P143-SB-14

11/18/2024 14:15

2139 (Wet ice < 6 C) (1)

P143-SB-14

11/18/2024 14:15

2138 (Wet ice < 6 C) (1)

P143-SB-14

11/18/2024 14:15

2141 (Wet ice < 6 C) (1)

P143-SB-15

11/18/2024 13:50

2140 (Wet ice < 6 C) (1)

P143-SB-15

11/18/2024 13:50

2079 (Wet ice < 6 C) (1)

P143-SB-15

11/18/2024 13:50

ICP-AES(35)

ICP-AES(35)

ICP-AES(35)

KP-AES(35)

ICP-AES(35)

MBHJ85

Soil

P143-SB-14-Z00-02

MBHJ84

Soil

P143-SB-15-Z30-P143-SB-15-Z24-30

MBHJ76

Soil

MBHJ75

Soil

P143-SB-15-Z18-24

MBHJ74

Soil

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

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

Items/Reason Relinquisi	2000/er 24			
Items/Reason Relinquished by (Signature and Organization)	1502 1150			
Date/Time	15:05	1)		
Received by (Signature and Organization)	Keen			Mrnal
Date/Time	11/23/24	10.00		
Date/Time Sample Condition Upon Receipt	1.5 Front	Tepblad Benn	(Mody Sea) Im	

68HERH20D0011

SDG # MBHJ70

USEPA CLP COC (LAB COPY)

DateShipped: 11/22/2024
CarrierName: FedEx
AirbillNo: 7701 5925 2172

CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 3

No: 2-112224-110104-0016

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
P143-SB-14-Z12- 18	MBHJ87	Soil/		ICP-AES(35)	2071 (Wet ice < 6 C) (1)	P143-SB-14	11/18/2024 14:15	
P143-SB-14-Z18- 24	мвну88	Soil/		ICP-AES(35)	2072 (Wet ice < 6 C) (1)	P143-SB-14	11/18/2024 14:15	20
P143-SB-14-Z24- 30	мвнл89	Soil/		ICP-AES(35)	2073 (Wet ice < 6 C) (1)	P143-SB-14	11/18/2024 14:15	
P143-SB-14-Z30- 36	WBHJ90	Soil/		ICP-AES(35)	2074 (Wet ice < 6 C) (1)	P143-SB-14	11/18/2024 14:15	
P143-SB-12-Z00- 02	мвнлво	Soil/		ICP-AES(35)	2064 (Wet ice < 6 C) (1)	P143-SB-12	11/18/2024 11:40	
P143-SB-12-Z02- 06	MBHJB1	Soil/		ICP-AES(35)	2065 (Wet ice < 6 C) (1)	P143-SB-12	11/18/2024 11:40	
P143-SB-12-Z06- 12	MBHJB2	Soil/		ICP-AES(35)	2066 (Wet ice < 6 C) (1)	P143-SB-12	11/18/2024 11:40	
P143-SB-12-Z12- 18	мвнувз	Soil/		ICP-AES(35)	2067 (Wet ice < 6 C) (1)	P143-SB-12	11/18/2024 11:40	
P143-SB-12-Z18- 24	МВНЈВ4	Soil		ICP-AES(35)	2068 (Wet ice < 6 C) (1)	P143-SB-12	11/18/2024 11:40	
P143-SB-12-Z24- 30	мвнлв5	Soil/		ICP-AES(35)	2069 (Wet ice < 6 C) (1)	P143-SB-12	11/18/2024 11:40	

Sample(s) to be used for Lab QC: P143-SB-14-Z18-24 Tag 2072 - Special Instructions: Sample MBHJ88 is a MS/MSD. Samples MBHJB0, MBHJB1, MBHJB2, MBHJB3, MBHJB4, MBHJB5, MBHJB6, MBHJ84, MBHJ85, MBHJ86, MBHJ87, MBHJ90, MBHJ70, MBHJ71, MBHJ72, MBHJ73, MBHJ74, MBHJ76 and MBHJE7 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	Items/Reason Relinquished by (Signature and Organization) Date/Time	Date/Time	Received by (Signature and Organization)	Date/Time	Date/Time Sample Condition Upon Receipt
1 Cooler	Standar with	15:05	Rem	11/23/24	1.5 TROWN #
		NA Z		10.00	Demo blade godina
10			123/12/18/28		Courtey Said The
		1,	112/24		

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group		Page_1_of_\
Received By (Print Name)	a a lezè	Log-in Date 11/23/2024
Received By (Signature)		
Case Number 51879	SDG No. MBHJ70	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.	770159252172 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	1.5 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	11/23/2024
12.Time Received	10:00

77	+		1		
	1		Correspond	ling	Damada
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	мвнј70	N/A	2075	P4980-01	Intact
2	мвнј71	N/A	2076	P4980-02	Intact
3	МВНЈ72	N/A	2077	P4980-03	Intact
4	МВНЈ73	N/A	2078	P4980-04	Intact
5	МВНЈ74	N/A	2079	P4980-05	Intact
6	МВНЈ75	N/A	2140	P4980-06	Intact
7	МВНЈ76	N/A	2141	P4980-07	Intact
8	МВНЈ84	N/A	2138	P4980-08	Intact
9	мвнј85	N/A	2139	P4980-09	Intact
10	мвнј86	N/A	2070	P4980-10	Intact
11	МВНЈ87	N/A	2071	P4980-11	Intact
12	мвнј88	N/A	2072	P4980-12	Intact
13	мвнј880	N/A	2072	P4980-13	Intact
14	MBHJ885	N/A	2072	P4980-14	Intact
15	МВНЈ89	N/A	2073	P4980-15	Intact
16	мвнэ90	N/A	2074	P4980-16	Intact
17	мвнуво	N/A	2064	P4980-17	Intact
18	мвнув1	N/A	2065	P4980-18	Intact
19	МВНЈВ2	N/A	2066	P4980-19	Intact
20	мвнјвз	N/A	2067	P4980-20	Intact
21	МВНЈВ4	N/A	2068	P4980-21	Intact
22	МВНЈВ5	N/A	2069	P4980-22	Intact
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	11/25/24	Logbook Page No.	N/A

LAB NAME	Alliance Tech	nical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51879	SDG NO.	мвнј70	
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)

(Neterence Exhibit B Section 2.4)				
	PAGE	NOs:	СН	ECK
	FROM	TO	LAB	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	13	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	14	33	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	34	1283	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	1284	1440	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	1441	1442	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1443	1503	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA		
14. Extraction Logs for TCLP and SPLP	NA	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	NA	NA	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks 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	✓	
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	√	
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	✓	
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	✓	·
43 . Raw Florisil Data	NA	NA	✓	

			PAGE	NOs:	CH	IECK
			FROM	TO	LAB	REGION
Additional						
44. EPA Ship	ping/Receiving Documents					
Airbill	(No. of Shipments)		1504	1504	✓	
Sample Ta	ags		NA	NA	✓	
Sample L	og-In Sheet (Lab)		1505	1506	✓	
45. Misc. Sh	ipping/Receiving Records(list all :	individual records)				
			NA	NA		
46. Internal	Lab Sample Transfer Records and T:	racking Sheets				
(describe	e or list)					
-			<u> 1507</u>	1508		
	cords and related Communication Loc	gs				
(describe	e or list)		NA	NA		
			INT			
					-	<u> </u>
48. Comments	:					
Completed by (CLP Lab)	7:					
(CLF Lab)	(Signature)	Nimisha Pandya, Do (Print Name & Tit		Officer	(Da	te)
Audited by:	(125:140410)	(111110 1.0110 0 1110	,		, Σα	/
(EPA)						
	(Signature)	(Print Name & Tit	:le)		(Da	te)



SDG NARRATIVE

USEPA
SDG # MBHJ70
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4980

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 11/23/2024.

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: 1.5°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1: A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1: 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 MBHJ70 For Arsenic:

If C = 0.0470875 ppm

Vf = 100 ml

W = 1.10 g

S = 0.864 (86.4/100)

DF = 1

Concentration (mg/kg) = $0.0470875 \text{ x} \frac{100}{1.10 \text{ x} 0.864} \text{ x 1}$

= 4.95449 mg/kg

= 5.0 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, Selenium, Silver, 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: 11/26/2024

OVENTEMP IN Celsius(°C): 107

Time IN: 14:30

In Date: 11/25/2024

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: 11/26/2024

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

Thermometer ID: % SOLID- OVEN

Qc:LB133609

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
P4980-01	мвнј70	1	1.15	6.93	8.08	7.14	86.4	
P4980-02	МВНЈ71	2	1.18	8.51	9.69	9.19	94.1	
P4980-03	МВНЈ72	3	1.14	8.63	9.77	9.28	94.3	
P4980-04	мвнј73	4	1.14	8.82	9.96	8.56	84.1	
P4980-05	МВНЈ74	5	1.11	8.78	9.89	8.43	83.4	
P4980-06	МВНЈ75	6	1.15	8.82	9.97	8.38	82.0	
P4980-07	мвнј76	7	1.13	8.81	9.94	8.46	83.2	
P4980-08	МВНЈ84	8	1.16	8.51	9.67	7.44	73.8	
P4980-09	МВНЈ85	9	1.13	8.71	9.84	8.1	80.0	
P4980-10	MBHJ86	10	1.17	8.80	9.97	9.47	94.3	
P4980-11	МВНЈ87	11	1.16	8.81	9.97	8.85	87.3	
P4980-12	МВНЈ88	12	1.17	8.55	9.72	8.32	83.6	
P4980-13	MBHJ88D	13	1.17	8.55	9.72	8.32	83.6	
P4980-14	MBHJ88S	14	1.17	8.55	9.72	8.32	83.6	
P4980-15	МВНЈ89	15	1.16	8.57	9.73	8.35	83.9	
P4980-16	мвнј90	16	1.16	8.63	9.79	9.00	90.8	
P4980-17	МВНЈВО	17	1.16	8.40	9.56	9.04	93.8	
P4980-18	MBHJB1	18	1.1	8.79	9.89	9.2	92.2	
P4980-19	МВНЈВ2	19	1.17	8.60	9.77	8.52	85.5	
P4980-20	мвнув3	20	1.15	8.70	9.85	8.64	86.1	
P4980-21	MBHJB4	21	1.14	8.70	9.84	8.36	83.0	
P4980-22	МВНЈВ5	22	1.16	8.78	9.94	8.17	79.8	

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 185761

%1-P4980

WorkList Name:

Chemtech -SO 11/18/2024 Chemtech -SO 15:40 75.40 76 Wh 1936 0 9 Date: 11-25-2024 13:03:32 Collect Date Method 11/18/2024 Raw Sample Storage Location 11.25.24 **C31** 531 **C31** C31 C31 331 **C31 C31** C31 C31 **C31 C31** 31 531 31 33 331 531 C31 3 **C31** Customer USEP01 Department: Wet-Chemistry Cool 4 deg C Preservative Percent Solids Test Matrix Solid 1125.24 141.00 **Customer Sample** MBHJ88S MBHJ88D MBHJ75 MBHJ73 MBHJ76 **MBHJ84** MBHJ85 MBHJ88 MBHJB0 MBHJ70 MBHJ71 MBHJ72 MBHJ74 MBHJ86 MBHJB1 **MBHJB3** MBHJ87 MBHJ89 MBHJB₂ MBHJ90 MBHJB4 P4980-03 P4980-06 P4980-01 P4980-02 P4980-04 P4980-05 P4980-12 P4980-08 P4980-09 P4980-15 P4980-07 P4980-10 P4980-13 P4980-14 P4980-16 P4980-18 P4980-11 P4980-17 P4980-19 P4980-20 P4980-21 Sample Date/Time

Page 1 of 2

Raw Sample Relinquished by: Raw Sample Received by:

Raw Sample Relinquished by:

Raw Sample Received by:

Date/Time

to Celo

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 185761 %1-P4980 WorkList Name:

Department: Wet-Chemistry

609EE1 A

Date: 11-25-2024 13:03:32

Collect Date Method

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

11/18/2024 Chemtech -SO

င္သ

USEP01

Cool 4 deg C

Percent Solids

Solid

MBHJB5

P4980-22

Date/Time [],25:24

Raw Sample Received by:

Raw Sample Relinquished by:

Page 2 of 2

Date/Time 122/34 14400

Raw Sample Relinquished by:

Raw Sample Received by: