Lab Name:	Alliance	Technical Group, LLC	Contract	68HERH2	0D0011	
Lab Code:	ACE	Case No.: 51879	MA No.:			SDG No.: MBHKD6
SOW No. :	SFAM01.1					
				Analysi	ls Method	
EPA Sample	e No.	Lab Sample Id	ICP-AES	ICP-MS	Mercury	Cyanide
MBHKD6		P5040-01	X			
MBHKD6D		P5040-02	X			
MBHKD6S		P5040-03	X			

SDG COVER PAGE

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:

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SDG # MBHKD6

Page 2 of 3

USEPA CLP COC (LAB COPY) DateShipped: 11/26/2024

CarrierName: FedEx AirbillNo: 7702 6139 3270

Case #: 51879

CHAIN OF CUSTODY RECORD

Cooler #: 2

No: 2-112624-102130-0027 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
P175-SB-21-Z12- 18	MBHKD5	Soil/		ICP-AES(35)	4830 (Wet ice < 6 C) (1)	P175-SB-21	11/20/2024 14:45	
P175-SB-21-Z18- 24	MBHKD6	Soil/		ICP-AES(35)	4831 (Wet ice < 6 C) (1)	P175-SB-21	11/20/2024 14:45	ae
P175-SB-21-Z24- 30	MBHKD7	Soil/		ICP-AES(35)	4832 (Wet ice < 6 C) (1)	P175-SB-21	11/20/2024 14:45	
P175-SB-21-Z30- 36	MBHKD8	Soil/		ICP-AES(35)	4833 (Wet ice < 6 C) (1)	P175-SB-21	11/20/2024 14:45	
P175-SB-22-Z00- 02	MBHKD9	Soil/		ICP-AES(35)	4834 (Wet ice < 6 C) (1)	P175-SB-22	11/20/2024 14:45	
P175-SB-22-Z02- 06	MBHKEO	Soil/		ICP-AES(35)	4835 (Wet ice < 6 C) (1)	P175-SB-22	11/20/2024 14:45	
P175-SB-22-Z06- 12	MBHKE1	Soil/		ICP-AES(35)	4836 (Wet ice < 6 C) (1)	P175-SB-22	11/20/2024 14:45	
P175-SB-22-Z12- 18	MBHKE2	Soil/		ICP-AES(35)	4837 (Wet ice < 6 C) (1)	P175-SB-22	11/20/2024 14:45	
P175-SB-22-Z18- 24	MBHKE3	Soil/		ICP-AES(35)	4838 (Wet ice < 6 C) (1)	P175-SB-22	11/20/2024 14:45	
P175-SB-22-Z24- 30	MBHKE4	Soil		ICP-AES(35)	4839 (Wet ice < 6 C) (1)	P175-SB-22	11/20/2024 14:45	

c			I Cooler	Items/Reason
			A Str - WS P	Items/Reason Relinquished by (Signature and Organization)
		NIA	11/26/24	Date/Time
		Acx	Che .	Received by (Signature and Organization)
	11/20/24		11-27-24	Date/Time
-	the Blut nes	Custedy Seal Intert	IR Conte (2.8	Sample Condition Upon Receipt

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

Sample(s) to be used for Lab QC: P175-SB-21-Z18-24 Tag 4831 - Special Instructions: Samples MBHK40 and MBHKD6 are MS/MSDs.

Samples Transferred From Chain of Custody #

Shipment for Case Complete? N

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Allia	ance Technical Group	, LLC	Ω			Page 1_of	1	
Received By (Pr	int Name	40-	Keic			Log-in Date	e 11/27/2	2024
Received By (Sig	Stating of the Augusting of the Augusting on the Augusting of the Augustin	v	pra					
Case Number	51879	SDG	No. MBHI	KD6		MA No. N	/A	
Remarks:						Correspondi	าต	
1. Custody Seal (s)	Present, Intact			Aqueous				Remarks: Condition
2. Custody Seal Nos.	<u>n/a</u>		EPA Sample #	Water Sample pH	Sam Tag		Assigned	of Sample Shipment, etc.
3. Traffic Reports/Chain Of	Present	1	MBHKD6	N/A	4831		P5040-01	Intact
Custody Records		2	MBHKD6D	N/A	4831		P5040-02	Intact
4. Airbill	Present	3	MBHKD6S	N/A	4831		P5040-03	Intact
	Present	4	N/A	N/A	N/A		N/A	N/A
5. Airbill No. and	770261393270	5	N/A	N/A	N/A		N/A	N/A
Shipping Container ID No.	1	6	N/A	N/A	N/A		N/A	N/A
6. Shipping Container		7	N/A	N/A	N/A		N/A	N/A
Temperature	Present	8	N/A	N/A	N/A		N/A	N/A
Indicator Bottle		9	N/A	N/A	N/A		N/A	N/A
7. Shipping Container	2.8 Degree C	10	N/A	N/A	N/A		N/A	N/A
Temperature		11	N/A	N/A	N/A		N/A	N/A
8. Sample	Intact	12	N/A	N/A	N/A		N/A	N/A
Condition		13	N/A	N/A	N/A		N/A	N/A
		14	N/A	N/A	N/A		N/A	N/A
9. Sample Tags Sample Tag	Absent	15	N/A	N/A	N/A		N/A	N/A
Numbers	Listed on Traffic	16	N/A	N/A	N/A		N/A	N/A
	Report	17	N/A	N/A	N/A		N/A	N/A
10. Does information on Traffic	Yes	18	N/A	N/A	N/A		N/A	N/A
Reports/Chain of Custody Records		19	N/A	N/A	N/A		N/A	N/A
and Sample Tags		20	N/A	N/A	N/A		N/A	N/A
agree ?		21	N/A	N/A	N/A		N/A	N/A
11. Date Received at Lab	11/27/2024	22	N/A	N/A	N/A		N/A	N/A
		23	N/A	N/A	N/A		N/A	N/A
12.Time Received	10:05							

* Contact SMO and attach record of resolution

Reviewed By	CK.	Logbook No.	N/A	
Date	11/27/24	Logbook Page No.	N/A	

FORM DC-2 COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME	Alliance Techni	.cal Group, LLC	
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51879	SDG NO.	MBHKD6
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 FROM	<u>NOs:</u> TO	<u>CH</u> LAB	I <u>ECK</u> REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	2	✓	·
3. Sample Log-In Sheet (DC-1)	3	3	✓	·
4. CSF Inventory Sheet (DC-2)	4	6	✓	·
5. SDG Narrative	7	9	✓	·
6. Communication Logs	NA	NA	✓	·
7. Percent Solids Log	10	11	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	12	12		
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	13	366	✓	
Other Data				
10. Standard and Reagent Preparation Logs	367	527	~	
11. Original Preparation and Cleanup forms or copies of Preparation and	528	529	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	530	547	✓	
 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	NA	NA	~	
or sample analysis, laboratory QC as applicable 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	✓	

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		NA	NA		
43. Raw Florisil Data NA NA 🖌	42. Raw GPC Data	NA	NA	✓	
	43. Raw Florisil Data	NA	NA	✓	

		PAGE NOS:		CH	CHECK	
		FROM	TO	LAB	REGION	
Additional 44. EPA Shipping/Receiving Documents						
Airbill (No. of Shipments)		548	548	✓		
Sample Tags		NA	NA	✓		
Sample Log-In Sheet (Lab)		549	549	✓		
45. Misc. Shipping/Receiving Records(list all individual	records)	NA	NA	✓		
46. Internal Lab Sample Transfer Records and Tracking Sh (describe or list)	eets					
		550	550	_ ✓		
47. Other Records and related Communication Logs (describe or list)						
		NA	NA	<u>√</u>		
48. Comments:						
	misha Pandya, Documer	t Control	Officer			
(Signature) Audited by: (EPA)	Print Name & Title)			(Da	te)	
(Signature)	Print Name & Title)			(Da	te)	



284 Sheffield Street Mountainside, NJ 07092

SDG NARRATIVE

USEPA SDG # MBHKD6 CASE # 51879 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P5040

A. Number of Samples and Date of Receipt

01 Soil samples were delivered to the laboratory intact on 11/27/2024.

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: 2.8°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.



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) =
$$C \times \frac{Vf}{W \times S} \times DF$$

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 MBHKD6 For Arsenic:

If C = 0.0247386 ppm Vf = 100 ml W = 1.34 g S = 0.884(88.4/100) DF = 1 Concentration (mg/kg) = $0.0247386 \times \frac{100}{1.34 \times 0.884} \times 1$ = 2.0884 mg/kg = 2.1 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 requirements except for Selenium. 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: rubina Analyst: jignesh Date: 12/4/2024

OVENTEMP IN Celsius (°C): 107 Time IN: 12:35 In Date: 12/03/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 OVENTEMP OUT Celsius (°C): 103 Time OUT: 07:45 Out Date: 12/04/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

QC:LB133707

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
P5040-01	MBHKD6	1	1.17	8.55	9.72	8.73	88.4	
P5040-02	MBHKD6D	2	1.17	8.55	9.72	8.73	88.4	
P5040-03	MBHKD6S	3	1.17	8.55	9.72	8.73	88.4	
P5041-01	МВНК78	4	1.15	8.44	9.59	8.49	87.0	
P5041-02	MBHK78D	5	1.15	8.44	9.59	8.49	87.0	
P5041-03	MBHK78S	6	1.15	8.44	9.59	8.49	87.0	
P5042-01	МВНКВ0	7	1.16	8.72	9.88	8.16	80.3	
P5042-02	MBHKB0D	8	1.16	8.72	9.88	8.16	80.3	
P5042-03	MBHKBOS	9	1.16	8.72	9.88	8.16	80.3	
P5043-01	МВНКМ2	10	1.17	8.49	9.66	8.41	85.3	
P5043-02	MBHKM2D	11	1.17	8.49	9.66	8.41	85.3	
P5043-03	MBHKM2S	12	1.17	8.49	9.66	8.41	85.3	

$\$$ Solid = $\frac{(C-A) * 100}{2}$
(B-A)

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