SDG COVER PAGE

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

Lab Code: ACE Case No.: 51879 MA No.: SDG No.: MBHKD6

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBHKD6	P5040-01	X			
MBHKD6D	P5040-02	X			
MBHKD6S	P5040-03	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 # MBHKD6

USEPA CLP COC (LAB COPY)

DateShipped: 11/26/2024
CarrierName: FedEx
AirbillNo: 7702 6139 3270

CHAIN OF CUSTODY RECORD

Case #: 51879
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	QC (1)
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	MBHKE0	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	

Sample(s) to be used for Lab QC: P175-SB-21-Z18-24 Tag 4831 - Special Instructions: Samples MBHK40 and MBHKD6 are MS/MSDs.	**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	11/26/24 1645	[signature]	1005 11-27-24	IR-Gun #1 2.8
		N/A	[signature]	11/26/24	Custody Seal Intact
					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 Rice		Log-in Date **11/27/2024**
Received By (Signature)		
Case Number 51879	SDG No. MBHKD6	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.	770261393270 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.8 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	11/27/2024
12.Time Received	10:05

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBHKD6	N/A	4831	P5040-01	Intact
2	MBHKD6D	N/A	4831	P5040-02	Intact
3	MBHKD6S	N/A	4831	P5040-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
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	11/27/24	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.	**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 NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK 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 or sample analysis, laboratory QC as applicable	12	12	✓	
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 Cleanup Logbooks	528	529	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	530	547	✓	
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)	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 Sheets (describe or list)				
	550	550	✓	
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 # 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^{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 MBHKD6 For Arsenic:

If C = 0.0247386 ppm
Vf = 100 ml
W = 1.34 g
S = 0.884(88.4/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.0247386 \times \frac{100}{1.34 \times 0.884} \times 1$$

$$= 2.0884 \text{ mg/kg}$$

$$= 2.1 \text{ mg/kg (Reported Result with Signification}$$

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	MBHK78	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	MBHKB0	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	MBHKB0S	9	1.16	8.72	9.88	8.16	80.3	
P5043-01	MBHKM2	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	

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

WORKLIST(Hardcopy Internal Chain)

UB 133707

WorkList Name : %1-p5040 **WorkList ID :** 185925 **Department :** Wet-Chemistry **Date :** 12-03-2024 11:53:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5040-01	MBHKD6	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
P5040-02	MBHKD6D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
P5040-03	MBHKD6S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
P5041-01	MBHK78	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/20/2024	Chemtech -SO
P5041-02	MBHK78D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/21/2024	Chemtech -SO
P5041-03	MBHK78S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/21/2024	Chemtech -SO
P5042-01	MBHKB0	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	11/21/2024	Chemtech -SO
P5042-02	MBHKB0D	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/20/2024	Chemtech -SO
P5042-03	MBHKB0S	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/20/2024	Chemtech -SO
P5043-01	MBHKM2	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	11/20/2024	Chemtech -SO
P5043-02	MBHKM2D	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/20/2024	Chemtech -SO
P5043-03	MBHKM2S	Solid	Percent Solids	Cool 4 deg C	USEP01	C12	11/20/2024	Chemtech -SO

Date/Time 12/03/24 12:00
Raw Sample Received by: JB (WSC)
Raw Sample Relinquished by: JD (SM)

Date/Time 12/03/24 12:40
Raw Sample Received by: JD (SM)
Raw Sample Relinquished by: JB WSC