### SDG COVER PAGE

Lab Name:	Alliance	Technical Grou	p, LLC	Contract:	68HERH20D	0011	
Lab Code:	ACE	Case No.: 5	51879	MA No.:			SDG No.: MBHKX5
SOW No. :	SFAM01.1						
EPA Sample	No.	Lab Sample I	d ICF	P-AES	Analysis ICP-MS	Method Mercury	Cyanide
MBHKX5		P5071-01		X			
MBHKX5D		P5071-02		X			
MBHKX5S		P5071-03	<u></u>	Х			
contract, b in the SDG of the data submitted h	oth techni Narrative. contained as been au	lata package is cally and for All edits and in this hardouthorized by the wing signature	completeness d manual inte copy Complete ne Laboratory	, for othe grations h SDG File	er than the lave been p and in the	e conditions peer-reviewed e electronic	detailed d. Release data
Signature:				Name:			
Date:				Title	·		

# USEPA CLP COC (LAB COPY)

DateShipped: 12/2/2024 CarrierName: FedEx AirbillNo: 7704 1901 2650

# CHAIN OF CUSTODY RECORD

Case #: 51879 Cooler #: 2

No: 2-120224-112207-0035

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
P176-SB-07-Z30- 36	MBHKX1	Soil/		ICP-AES(35)	4913 (Wet ice < 6 C) (1)	P176-SB-07	11/21/2024 10:20	
P176-SB-05-Z00- 02	MBHKX2	Soil/		ICP-AES(35)	4893 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	
P176-SB-05-Z02 06	<b>МВНКХЗ</b>	Soil		ICP-AES(35)	4894 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	
P176-SB-05-Z06- 12	МВНКХ4	Soil/		ICP-AES(35)	4895 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	
P176-SB-05-Z12- 18	мвнкх5	Soil/		ICP-AES(35)	4896 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	0
P176-SB-05-Z18- 24	мвнкх6	Soil/		ICP-AES(35)	4897 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	
P176-SB-05-Z24- 30	MBHKX7	Soil/		ICP-AES(35)	4898 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	
P176-SB-05-Z30- 36	МВНКХВ	Soil/		ICP-AES(35)	4899 (Wet ice < 6 C) (1)	P176-SB-05	11/21/2024 10:05	
P176-SB-08-Z30- 36-FD	MBHL58	Soil/		ICP-AES(35)	5515 (Wet ice < 6 C) (1)	P176-SB-08	11/21/2024 10:18	
P176-SB-07-Z06- 12-FD	MBHL59	Soil/		ICP-AES(35)	5516 (Wet ice < 6 C) (1)	P176-SB-07	11/21/2024 10:20	

Sample(s) to be used for Lab QC: P176-SB-05-Z12-18 Tag 4896 - Special Instructions: Samples MBHKT3 and MBHKX5 are MS/MSDs. Samples MBHKW7 and MBHKX3 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

		2 Copler	Items/Reason
		Son shows	Items/Reason Relinquished by (Signature and Organization)
		12/02/24	Date/Time
halan	MA STA	2	Received by (Signature and Organization)
	000	12-3-24	Date/Time
Tens and pussent	Custably goods white		Sample Condition Upon Receipt

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

Lab Name : Alliance Technical Group, LLC	Page 1 of )
Received By (Print Name) GONSI DESUD	Log-in Date 12/3/2024
Received By (Signature)	•
Case Number 51879 SDG No. MBHKX5	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.	770419012650 1
Shipping Container     Temperature     Indicator Bottle	Present
7. Shipping Container Temperature	2.1 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	12/03/2024
12.Time Received	09:50

			Correspo	onding	Domonico
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	мвнкх5	N/A	4896	P5071-01	Intact
2	MBHKX5D	N/A	4896	P5071-02	Intact
3	MBHKX5S	N/A	4896	P5071-03	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	12/3/24	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.	мвнкх5	
MA NO.		SOW NO.	SFAM01.1	
				<del></del>

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

	PAGE NOs:		СН	CHECK	
	FROM	TO	LAB	REGION	
1. SDG Cover Page	1	1	✓		
2. Traffic Report/Chain of Custody Record(s)	2	2	<b>√</b>		
3. Sample Log-In Sheet (DC-1)	3	3	<b>√</b>		
4. CSF Inventory Sheet (DC-2)	4	6	<b>√</b>		
5. SDG Narrative	7	9	<b>√</b>		
6. Communication Logs	NA	NA	<b>√</b>		
7. Percent Solids Log	10	12	✓		
Analysis Forms and Data (ICP-AES)					
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	13	13	✓		
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	14	569	✓		
Other Data					
10. Standard and Reagent Preparation Logs	570	708	✓		
11. Original Preparation and Cleanup forms or copies of Preparation and	709	710	✓		
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or	711	742	✓		
Instrument Logbooks  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	<b>✓</b>		
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	✓		
<pre>Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions</pre>	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:		HECK	
			FROM	TO	LAB	REGION
Additional						
44. EPA Ship	ping/Receiving Documents					
Airbill	(No. of Shipments)		743	743	✓	
Sample T	ags		NA	NA	✓	
Sample L	og-In Sheet (Lab)		744	744	<b>√</b>	
45. Misc. Sh	ipping/Receiving Records(list al	l individual records)				-
			NA	NA		
46. Internal	Lab Sample Transfer Records and	Tracking Sheets				-
(describ	e or list)					
			745	745		
	cords and related Communication	Logs				
(describ	e or list)		NA	NA		
						- —
						- —
						- ——
48. Comments	:					
Completed by (CLP Lab)	y:			0.551		
(CLF Lab)	(Signature)	Nimisha Pandya, Do (Print Name & Tit		Officer	(Da	te)
Audited by:	(- 3	, w 110	-,		, , , ,	/
(EPA)						
	(Signature)	(Print Name & Tit	ile)		(Da	te)



### **SDG NARRATIVE**

USEPA
SDG # MBHKX5
CASE # 51879
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5071

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

01 Soil sample was delivered to the laboratory intact on 12/03/2024.

### **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: 2.1°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 MBHKX5 For Antimony:**

If C = 0.0239615 ppm

Vf = 100 ml

W = 1.24 g

S = 0.918(91.8/100)

DF = 1

Concentration (mg/kg) =  $0.0239615 \text{ x} \frac{100}{1.24 \text{ x } 0.918} \text{ x } 1$ 

= 2.104988 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 Antimony, Copper, Selenium, Silver, Thallium, Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Chromium, Cobalt, Iron, Magnesium, Manganese, 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: 12/9/2024

OVENTEMP OUT Celsius(°C): 103

Time OUT: 08:11

Out Date: 12/08/2024

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: 15:25
In Date: 12/07/2024

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

OvenID: M OVEN#1

Qc:LB133817

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
P5071-01	МВНКХ5	1	1.15	8.37	9.52	8.83	91.8	
P5071-02	MBHKX5D	2	1.15	8.37	9.52	8.83	91.8	
P5071-03	MBHKX5S	3	1.15	8.37	9.52	8.83	91.8	
P5132-01	MBHME1	4	1.12	8.70	9.82	8.61	86.1	
P5132-02	мвнме2	5	1.15	8.47	9.62	8.26	83.9	
P5132-03	мвнме3	6	1.15	8.43	9.58	8.32	85.1	
P5132-04	MBHMG0	7	1.15	8.45	9.6	7.72	77.8	
P5132-05	MBHMG1	8	1.16	8.46	9.62	8.1	82.0	
P5132-06	MBHMG2	9	1.16	8.73	9.89	8.78	87.3	
P5132-07	мвнмн6	10	1.15	8.62	9.77	7.41	72.6	
P5132-08	мвнмн7	11	1.16	8.60	9.76	7.89	78.3	
P5132-09	мвнмн8	12	1.17	8.65	9.82	8.19	81.2	
P5132-10	мвнмн9	13	1.16	8.72	9.88	8.29	81.8	
P5132-11	мвнмј0	14	1.16	8.48	9.64	8.09	81.7	
P5132-12	MBHMJ1	15	1.16	8.82	9.98	7.9	76.4	
P5132-13	MBHMJ2	16	1.15	8.56	9.71	7.86	78.4	
P5132-14	мвнмј3	17	1.15	8.39	9.54	7.81	79.4	
P5132-15	MBHMJ4	18	1.15	8.48	9.63	7.81	78.5	
P5132-16	MBHMJ5	19	1.18	8.50	9.68	7.65	76.1	
P5132-17	мвнмј6	20	1.15	8.83	9.98	7.81	75.4	
P5132-18	мвнмј6р	21	1.15	8.83	9.98	7.81	75.4	
P5132-19	MBHMJ6S	22	1.15	8.83	9.98	7.81	75.4	
P5132-20	MBHMN4	23	1.19	8.34	9.53	7.99	81.5	

# WORKLIST(Hardcopy Internal Chain)

%1-P5071

WorkList Name:

NO 133817

Chemtech -SO Chemtech -SO Chemtech -SC Chemtech -SO 11/19/2024 Chemtech -SO Chemtech -SO Chemtech -SO 11/26/2024 Chemtech -SO Chemtech -SC Chemtech -SO Chemtech -SO Date: 12-07-2024 12:07:10 Collect Date Method 11/21/2024 11/21/2024 11/20/2024 11/20/2024 11/19/2024 11/26/2024 11/20/2024 11/21/2024 11/20/2024 11/19/2024 11/26/2024 11/20/2024 11/20/2024 11/20/2024 11/20/2024 Raw Sample Location Storage C11 5 C11 C42 C42 C42 C42 C42 C45 C42 C42 C42 C42 C42 C42 C42 USEP01 Customer USEP01 Department: Wet-Chemistry Cool 4 deg C Preservative Percent Solids WorkList ID: 186102 Test Matrix Solid Customer Sample MBHKX5D **MBHKX5S** MBHME1 **МВНМН8 MBHKX5 MBHME2 MBHME3** MBHMG0 MBHMG1 **MBHMG2 МВНМН6** MBHMH7 **МВНМН9 MBHMJ0 MBHMJ3** MBHMJ1 MBHM<sub>J2</sub> MBHMJ4 P5071-02 P5071-01 P5071-03 P5132-01 P5132-02 P5132-03 P5132-04 P5132-05 P5132-06 P5132-08 P5132-09 Sample P5132-07 P5132-10 P5132-12 P5132-13 P5132-14 P5132-15 P5132-16 P5132-11

Page 1 of 2

Raw Sample Relinquished by: Raw Sample Received by:

12107124

Date/Time

Cool 4 deg C

Chemtech -SO Chemtech -SO

11/20/2024

11/20/2024 Chemtech -SO 11/20/2024 Chemtech -SO

11/20/2024

C42 C42 C42

USEP01 USEP01 USEP01

Cool 4 deg C Cool 4 deg C

Percent Solids Percent Solids Percent Solids

Solid Solid Solid

MBHMJ5 **MBHMJ6** 

Raw Sample Received by:

Raw Sample Relinquished by:

141.40

12101126

Date/Time

**MBHMJ6D** 

P5132-18

P5132-17

# WORKLIST(Hardcopy Internal Chain)

WorkList ID: 186102 %1-P5071 WorkList Name:

Department: Wet-Chemistry

JB133817

11/20/2024 Chemtech -SO 11/20/2024 Chemtech -SO Date: 12-07-2024 12:07:10 Collect Date Method Raw Sample Location Storage C42 C42 USEP01 USEP01 Customer Cool 4 deg C Cool 4 deg C Preservative Percent Solids Percent Solids Test Matrix Solid Solid Customer Sample **MBHMJ6S** MBHMN4 P5132-19

P5132-20

Sample

Date/Time 12/0 HAL Raw Sample Received by:

Raw Sample Relinquished by:

Page 2 of 2

Date/Time (2) UHZh 141,40

Raw Sample Relinquished by: Raw Sample Received by: