

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51879 MA No.: _____ SDG No.: MBHLL1
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
MBHLL1	P5082-01	X			
MBHLL2	P5082-02	X			
MBHLL3	P5082-03	X			
MBHLL4	P5082-04	X			
MBHLL5	P5082-05	X			
MBHLL6	P5082-06	X			
MBHLL6D	P5082-07	X			
MBHLL6S	P5082-08	X			
MBHLL7	P5082-09	X			
MBHLL8	P5082-10	X			
MBHLT9	P5082-11	X			
MBHLW0	P5082-12	X			
MBHLW1	P5082-13	X			
MBHLW2	P5082-14	X			
MBHLW3	P5082-15	X			
MBHLW4	P5082-16	X			
MBHLW5	P5082-17	X			
MBHM31	P5082-18	X			
MBHM41	P5082-19	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: _____

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-120324-103956-0041

Date Shipped: 12/3/2024

Lab: Alliance Technical Group LLC

Carrier/Name: FedEx

Case #: 51879

Lab Contact: Mohammad Ahmed

Airbill No: 7704 5937 7394

Cooler #: 2

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
P173-SB-13-Z30-36	MBHLL1	Soil		ICP-AES(35)	4493 (Wet ice < 6 C) (1)	P173-SB-13	11/26/2024 09:45	
P173-SB-09-Z00-02	MBHLL2	Soil		ICP-AES(35)	4479 (Wet ice < 6 C) (1)	P173-SB-09	11/26/2024 10:30	
P173-SB-09-Z02-06	MBHLL3	Soil		ICP-AES(35)	4440 (Wet ice < 6 C) (1)	P173-SB-09	11/26/2024 10:30	
P173-SB-09-Z06-12	MBHLL4	Soil		ICP-AES(35)	4441 (Wet ice < 6 C) (1)	P173-SB-09	11/26/2024 10:30	
P173-SB-09-Z12-18	MBHLL5	Soil		ICP-AES(35)	4442 (Wet ice < 6 C) (1)	P173-SB-09	11/26/2024 10:30	
P173-SB-09-Z18-24	MBHLL6	Soil		ICP-AES(35)	4443 (Wet ice < 6 C) (1)	P173-SB-09	11/26/2024 10:30	Q2
P173-SB-09-Z24-30	MBHLL7	Soil		ICP-AES(35)	4444 (Wet ice < 6 C) (1)	P173-SB-09	11/26/2024 10:30	
P173-SB-09-Z30-36	MBHLL8	Soil		ICP-AES(35)	4445 (Wet ice < 6 C) (1)	P173-SB-09	11/26/2024 10:30	
P177-SB-11-Z00-02	MBHLL9	Soil		ICP-AES(35)	5019 (Wet ice < 6 C) (1)	P177-SB-11	11/22/2024 08:15	
P177-SB-11-Z02-06	MBHLL0	Soil		ICP-AES(35)	5020 (Wet ice < 6 C) (1)	P177-SB-11	11/22/2024 08:15	

Sample(s) to be used for Lab QC: P173-SB-09-Z18-24 Tag 4443 - Special Instructions: Samples MBHLL4 and MBHLL6 are MS/MSDs. Samples MBHLL3 and MBHLL3 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	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
1 cooler	<i>[Signature]</i> WSP	12/03/24 16:00	<i>[Signature]</i> DP	12/03/24 10:20	IR Gun # 1 2.1
	N/A		<i>[Signature]</i> 12/03/24		Custody Seal Intact
					Temp Black print

CHAIN OF CUSTODY RECORD

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
P177-SB-11-Z06-12	MBHLW1	Soil/		ICP-AES(35)	5021 (Wet ice < 6 C) (1)	P177-SB-11	11/22/2024 08:15	
P177-SB-11-Z12-18	MBHLW2	Soil/		ICP-AES(35)	5022 (Wet ice < 6 C) (1)	P177-SB-11	11/22/2024 08:15	
P177-SB-11-Z18-24	MBHLW3	Soil/		ICP-AES(35)	5023 (Wet ice < 6 C) (1)	P177-SB-11	11/22/2024 08:15	
P177-SB-11-Z24-30	MBHLW4	Soil/		ICP-AES(35)	5024 (Wet ice < 6 C) (1)	P177-SB-11	11/22/2024 08:15	
P177-SB-11-Z30-36	MBHLW5	Soil/		ICP-AES(35)	5025 (Wet ice < 6 C) (1)	P177-SB-11	11/22/2024 08:15	
P173-SB-13-Z18-24-FD	MBHM31	Soil/		ICP-AES(35)	5529 (Wet ice < 6 C) (1)	P173-SB-13	11/26/2024 09:45	
P173-SB-06-Z30-36-FD	MBHM41	Soil/		ICP-AES(35)	5530 (Wet ice < 6 C) (1)	P173-SB-06	11/26/2024 09:15	
VFA MBH30 12/03/24								

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

Analysis Key: ICP-AES=CLP Routine - SFAM01.1/LASD 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	<i>[Signature]</i> WSP	12/03/24 16:00	<i>[Signature]</i>	1020 12-4-24	Ziploc #1 2.1.1
	<i>[Signature]</i> N/A	<i>[Signature]</i>	<i>[Signature]</i> 12/03/24		Custody Seal Intact
					Temp Black preserved

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>C. Spang</u>		Log-in Date 12/4/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51879	SDG No. MBHLL1	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>770459377394</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.1</u> 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	<u>12/04/2024</u>
12. Time Received	<u>10:20</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MBHLL1	N/A	4493	P5082-01	Intact
2	MBHLL2	N/A	4479	P5082-02	Intact
3	MBHLL3	N/A	4440	P5082-03	Intact
4	MBHLL4	N/A	4441	P5082-04	Intact
5	MBHLL5	N/A	4442	P5082-05	Intact
6	MBHLL6	N/A	4443	P5082-06	Intact
7	MBHLL6D	N/A	4443	P5082-07	Intact
8	MBHLL6S	N/A	4443	P5082-08	Intact
9	MBHLL7	N/A	4444	P5082-09	Intact
10	MBHLL8	N/A	4445	P5082-10	Intact
11	MBHLT9	N/A	5019	P5082-11	Intact
12	MBHLW0	N/A	5020	P5082-12	Intact
13	MBHLW1	N/A	5021	P5082-13	Intact
14	MBHLW2	N/A	5022	P5082-14	Intact
15	MBHLW3	N/A	5023	P5082-15	Intact
16	MBHLW4	N/A	5024	P5082-16	Intact
17	MBHLW5	N/A	5025	P5082-17	Intact
18	MBHM31	N/A	5529	P5082-18	Intact
19	MBHM41	N/A	5530	P5082-19	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>12/4/24</u>	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.	MBHLL1
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:		CHECK	
	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	12	✓	

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	13	29	✓	
9. Instrument raw data by instrument in analysis order	30	761	✓	

Other Data

10. Standard and Reagent Preparation Logs	762	900	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	901	902	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	903	931	✓	
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:		CHECK	
	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 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	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)

47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)

(Signature)

Nimisha Pandya, Document Control Officer

(Print Name & Title)

(Date)

Audited by:
(EPA)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
932	932	✓	
NA	NA	✓	
933	934	✓	
NA	NA	✓	
935	935	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MBHLL1

CASE # 51879

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P5082

A. Number of Samples and Date of Receipt

17 Soil sample were delivered to the laboratory intact on 12/04/2024.

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):

$$\text{Concentration (mg/kg)} = C \times \frac{V_f}{W \times S} \times DF$$

Where,

C = Instrument value in ppm (The average of all replicate exposures)

V_f = 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 MBHLL1 For Arsenic:

If C = 0.1282425 ppm

V_f = 100 ml

W = 1.33 g

S = 0.869(86.9/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.1282425 \times \frac{100}{1.33 \times 0.869} \times 1$$

$$= 11.09584 \text{ mg/kg}$$

$$= 11 \text{ mg/kg (Reported Result with Signification)}$$

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 Antimony, Arsenic, Silver, Thallium. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Cobalt, 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.



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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: 12/6/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 13:25
In Date: 12/05/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:05
Out Date: 12/06/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133756

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
P5082-01	MBHLL1	1	1.12	8.64	9.76	8.63	86.9	
P5082-02	MBHLL2	2	1.16	8.71	9.87	7.3	70.5	
P5082-03	MBHLL3	3	1.16	8.81	9.97	8.55	83.9	
P5082-04	MBHLL4	4	1.15	8.38	9.53	8.26	84.8	
P5082-05	MBHLL5	5	1.15	8.39	9.54	7.8	79.3	
P5082-06	MBHLL6	6	1.15	8.50	9.65	7.72	77.3	
P5082-07	MBHLL6D	7	1.15	8.50	9.65	7.72	77.3	
P5082-08	MBHLL6S	8	1.15	8.50	9.65	7.72	77.3	
P5082-09	MBHLL7	9	1.15	8.50	9.65	7.92	79.6	
P5082-10	MBHLL8	10	1.14	8.58	9.72	8.1	81.1	
P5082-11	MBHLT9	11	1.15	8.72	9.87	7.93	77.8	
P5082-12	MBHLW0	12	1.13	8.68	9.81	7.38	72.0	
P5082-13	MBHLW1	13	1.15	8.55	9.7	7.39	73.0	
P5082-14	MBHLW2	14	1.16	8.69	9.85	7.8	76.4	
P5082-15	MBHLW3	15	1.12	8.72	9.84	8.26	81.9	
P5082-16	MBHLW4	16	1.15	8.60	9.75	8.07	80.5	
P5082-17	MBHLW5	17	1.16	8.81	9.97	8.17	79.6	
P5082-18	MBHM31	18	1.12	8.67	9.79	8.78	88.4	
P5082-19	MBHM41	19	1.14	8.47	9.61	8.8	90.4	

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

WORKLIST(Hardcopy Internal Chain)

12133356

WorkList Name : %1-P5082

WorkList ID : 186006

Department : Wet-Chemistry

Date : 12-05-2024 10:48:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5082-01	MBHLL1	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-02	MBHLL2	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-03	MBHLL3	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-04	MBHLL4	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-05	MBHLL5	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-06	MBHLL6	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-07	MBHLL6D	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-08	MBHLL6S	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-09	MBHLL7	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-10	MBHLL8	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-11	MBHLT9	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-12	MBHLW0	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/22/2024	Chemtech -SO
P5082-13	MBHLW1	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/22/2024	Chemtech -SO
P5082-14	MBHLW2	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/22/2024	Chemtech -SO
P5082-15	MBHLW3	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/22/2024	Chemtech -SO
P5082-16	MBHLW4	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/22/2024	Chemtech -SO
P5082-17	MBHLW5	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/22/2024	Chemtech -SO
P5082-18	MBHM31	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO
P5082-19	MBHM41	Solid	Percent Solids	Cool 4 deg C	USEP01	C22	11/26/2024	Chemtech -SO

Date/Time 12/05/24 12:55

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Date/Time 12/05/24

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]