SDG COVER PAGE

Lab Name:	Alliance	Technical Group, LI	LC Contrac	t: <u>68HERH2</u>	0D0011		
Lab Code:	ACE	Case No.: 51822	MA No.:	3105.0		SDG No.: 1	MH2GX1
SOW No. :	SFAM01.1						
				_	s Method		
EPA Sample	e No.	Lab Sample Id	ICP-AES	ICP-MS	Mercury	Cyanide	
MH2GX1		Q1179-01		X			
MH2GX1D		Q1179-02		X			
MH2GX1S		Q1179-03		X			
MH2H17		Q1179-04		X			
MH2H18		Q1179-05		X			
MH2H19		Q1179-06		X			
MH2H20		Q1179-07		X			
MH2H21		Q1179-08		X			
MH2H22		Q1179-09		X			
MH2H23		Q1179-10		X			
MH2H24		Q1179-11		X			
MH2H25		Q1179-12		X			
MH2H26		Q1179-13		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:

Analysis Key: ICP/MS=CLP TAL Total Metals ICP/MS Sample(s) to be used for Lab QC: S-LABQC-2024-705 Tag 24476, S-LABQC-2024-706 Tag 24477, S-LABQC-2024-707 Tag 24478 - Special Instructions: Analyze per MA3105 S2427-ED-0612-S2427-ED-0106-S2427-ED-0001-S2427-ED-1218-AirbillNo: 8184 7188 9747 CarrierName: FedEx DateShipped: 1/23/2025 **USEPA CLP Inorganics COC (LAB COPY)** Items/Reason Sample Identifier S2427-ED-0612-01 S2427-ED-0106-S2427-ED-0001-01 S-LABQC-2024-707 S-LABQC-2024-706 S-LABQC-2024umples 3 20 22 2 Relinquished by (Signature and Organization) Sample No. MH2GX8 MH2GX7 MH2GX6 MH2GX5 MH2GX4 MH2GW9 MH2GX3 MH2GX2 MH2GX1 MH2GX0 CLP Matrix/Sampler Soil/ LP, SH Composite Composite Composite Composite Subsample Composite Composite Composite Subsample Subsample Coll. Method "123/25 Date/Time Analysis/Turnaround 1500 ICP/MS(14) ICP/MS(14) ICP/MS(14) ICP/MS(14) ICP/MS(14) ICP/MS(14) ICP/MS(14) ICP/MS(14) ICP/MS(14) CHAIN OF CUSTODY RECORD ICP/MS(14) (Days) Case #: 51822 Cooler #: 4 Received by (Signature and Organization) **Tag/Preservative/Bottles** 24485 (None) (1) 24484 (None) (1) 24483 (None) (1) 24482 (None) (1) 24481 (None) (1) 24480 (None) (1) 24479 (None) (1) 24478 (None) (3) 24477 (None) (3) 24476 (None) (3) Samples Transferred From Chain of Custody # Shipment for Case Complete? N ED-2427 1-24-25 ED-2427 ED-2427 ED-2427 ED-2427 ED-2427 ED-2427 Location Date/Time 0735 × X × 12/18/2024 12:40 12/18/2024 12:42 12/18/2024 12:38 12/18/2024 12:36 12/18/2024 12:34 12/18/2024 12:32 12/18/2024 12:30 01/16/2025 11:08 12/18/2024 11:15 12/18/2024 12:12 Lab: Alliance Technical Group LLC custody seeks hotely 1.2.0 Sample Condition Upon Receipt No: 8-012325-144017-0603 ころうな TEMP AR pussent Collection Date/Time Lab Contact: Sohil Jodhani Lab Phone: 908-789-8900 For Lab Use Only ; 9 ų,

Page 1 of 6

68HERH20D0011

SDG # MH2GX1

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4	こで ちょう 年/	1-24-25	R	1/23/25 1505	Twi	T Z	there	Sumples C
1 Upon Receipt	Sample Condition Upon Receipt		Received by (Signature and Organization)	Date/Time Receivec	ganization)	Relinquished by (Signature and Organization)	Relinquished by	Items/Reason F
						tal Metals ICP/MS	S=CLP TAL Tot	Analysis Key: ICP/MS=CLP TAL Total Metals ICP/MS
Sustody #	3d From Chain of C	Samples Transferred From Chain of Custody #				43105	Analyze per MA	Special Instructions: Analyze per MA3105
	Complete? N	Shipment for Case Complete? N						
2	12/18/2024 10:35	VL-2430	24533 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H26	S2430-VL-0612- 31
19	12/18/2024 10:30	VL-2430	24532 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H25	S2430-VL-0106- 31
م	12/18/2024 10:25	VL-2430	24531 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H24	S2430-VL-0001- 31
٢	12/14/2024 15:06	APE-2431	24530 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H23	S2431-APE-1218- 01
Ŷ	12/14/2024 15:04	APE-2431	24529 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H22	S2431-APE-0612- 01
C	12/14/2024 15:02	APE-2431	24528 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H21	S2431-APE-0106- 01
5	12/14/2024 15:00	APE-2431	24527 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H20	S2431-APE-0001- 01
2		APS-2431	24526 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H19	S2431-APS-1218- 01
27	12/14/2024 14:56	APS-2431	24525 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H18	S2431-APS-0612- 01
٢	12/14/2024 14:54	APS-2431	24524 (None) (1)	ICP/MS(14)	Composite	Soil/ LP, SH	MH2H17	S2431-APS-0106- 01
For Lab Use Only	Collection Date/Time	Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier
Lab Contact: Sohil Jodhani Lab Phone: 908-789-8900	Lab Contac Lab Phone		¢ 22	Case #: 51822 Cooler #: 4			× 9747	CarrierName: FedEx AirbillNo: 8184 7188 9747
144017-0603 ical Group LLC	No: 8-012325-144017-0603 Lab: Alliance Technical Group LLC		Y RECORD	CHAIN OF CUSTODY RECORD		в сорү)	anics COC (LAI 2025	USEPA CLP Inorganics COC (LAB COPY) DateShipped: 1/23/2025
	SDG # MH2GX1	S	68HERH20D0011					rage o o o

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alli	Lab Name : Alliance Technical Group, LLC Page 1 of 1								
Received By (Pr	rint Namer assault	-				Log-in Date 1/24/2025			
Received By (Si	ignature)		-						
Case Number	51822	SDG	No. MH20	GX1		MA No. 3	105.0		
		· · · · · · · · · · · · · · · · · · ·	,						
Remarks:						Correspondi	na		
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	MH2GX1	N/A	24478		Q1179-01	Intact	
Custody Records		2	MH2GX1D	N/A	24478		Q1179-02	Intact	
4. Airbill	Drogent	3	MH2GX1S	N/A	24478		Q1179-03	Intact	
	Present	4	MH2H17	N/A	24524		Q1179-04	Intact	
5. Airbill No. and	819871889747	5	MH2H18	N/A	24525		Q1179-05	Intact	
Shipping Container ID No.	1	6	MH2H19	N/A	24526		Q1179-06	Intact	
6. Shipping Container	Descent	7	MH2H20	N/A	24527		Q1179-07	Intact	
Temperature	Present	8	MH2H21	N/A	24528		Q1179-08	Intact	
Indicator Bottle		9	MH2H22	N/A	24529		Q1179-09	Intact	
7. Shipping Container	1.2 Degree C	10	MH2H23	N/A	24530		Q1179-10	Intact	
Temperature		11	MH2H24	N/A	24531		Q1179-11	Intact	
8. Sample Condition	Intact	12	MH2H25	N/A	24532		Q1179-12	Intact	
Condition		13	MH2H26	N/A	24533		Q1179-13	Intact	
		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	
10 D 10 11	Report	17	N/A	N/A	N/A		N/A	N/A	
 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	01/24/2025	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	07:35								

* Contact SMO and attach record of resolution

Reviewed By	CX.	Logbook No. N/A
Date	1/24/25	Logbook Page No. N/A

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

Alliance Technic	al Group, LLC		
ACE			
68HERH20D0011			
51822	SDG NO.	MH2GX1	
3105.0	SOW NO.	SFAM01.1	
	ACE 68HERH20D0011 51822	68HERH20D0011 51822 SDG NO.	ACE 68HERH20D0011 51822 SDG NO. MH2GX1

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	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	11	~	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	NA	NA		
				·
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	<u> </u>	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA		
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
 Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions 	NA	NA	√	
14. Extraction Logs for TCLP and SPLP	NA	NA	1	
15. Raw GPC Data	NA	NA	1	
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	12	22	✓	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	23	566		
Other Data				
19. Standard and Reagent Preparation Logs	567	699	1	
20. Original Preparation and Cleanup forms or copies of Preparation and	700	701	✓	·
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	702	706	✓	·
Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

23. Extraction Logs for TCLP and SPLP NA NA V 24. Raw GPC Data NA NA V 25. Raw Florisil Data NA NA V 26. Sample Analysis Data Forms (1A-OR, 12-OR, and 1-TN) for each sample or sample analysis, laboratory QC as applicable NA NA V 27. Instrument raw data by instrument in analysis order NA NA V V 28. Standard and Reagent Preparation Logs NA NA V V 28. Standard and Reagent Preparation Logs NA NA V V 29. Original Analysis or Instrument Run forms or copies of Analysis or NA NA V V 29. Extraction Logs for TCLP and SPLP NA NA V V V 31. Instrument logical Construment (PD//Proficiency Testing (PT) Sample NA NA V V 32. Extraction Logs for TCLP and SPLP NA NA V V V 33. Raw GPC Data NA NA V V V V 34. Raw Florisil Data NA NA V V V V 35. Sample Analysis Data Export (L		PAGE N	NOs:	CH	IECK
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29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA<	Other Data				
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30. Original Analysis or Instrument Run forms or copies of Analysis or NA NA<		NA	NA	✓	
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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 ✓		NA	NA	✓	
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 ✓	Other Data				
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39. Original Analysis or Instrument Run forms or copies of Analysis or NA NA ✓ 1. Structions NA NA ✓ ✓ 41. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓		NA	NA	✓	
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 ✓	39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
41. Extraction Logs for TCLP and SPLP NA NA ✓ 42. Raw GPC Data NA NA ✓	40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA		
		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 <u>1</u>)	707	707	- ✓	_	
Sample Tags	NA	NA	✓		
Sample Log-In Sheet (Lab)	708	709	✓		
45. Misc. Shipping/Receiving Records(list all individual records)	NA	NA	✓		
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)	710	710	✓		
47. Other Records and related Communication Logs (describe or list)	 NA	NA			
48. Comments:					
Completed by:					
(CLP Lab) Nimisha Pandya, Docur (Signature) (Print Name & Title		Officer	(Da	te)	
Audited by: (EPA) (Signature) (Print Name & Title)		(Da	te)	



284 Sheffield Street Mountainside, NJ 07092

SDG NARRATIVE

USEPA SDG # MH2GX1 CASE # 51822 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # Q1179 MODIFIED ANALYSIS # 3105.0

A. Number of Samples and Date of Receipt

11 Soil samples were delivered to the laboratory intact on 01/24/2025.

B. Parameters

Test requested for Metals CLP MS FULL = Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 1.2°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.



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G. Calculation:

Calculation for ICP-MS Soil Sample:

Conversion of Results from μg /L or ppb to mg/kg :

Concentration (mg/kg) = $C \times Vf = Vf + 1000$ W x S

Where,

C = Instrument value in ppb (The average of all replicate integrations)
 Vf = Final digestion volume (mL)
 W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)
 S = % Solids / 100 (Fraction of Percent Solids)
 DF = Dilution Factor

Example Calculation For Sample MH2GX1 For Arsenic :

If C = 245.13 ppb
Vf = 500 ml
W = 2.17 g
S = 1.0 (100/100)
DF = 1
Concentration (mg/kg) = 245.13 x
$$\frac{500}{2.17 \text{ x } 1.0}$$
 x 1 / 1000
= 56.4815 mg/kg
= 57 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.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.



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Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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

Date: 06/25/2021	MA: 3105.0	Title: ICP-MS Analysis with Increased Sample Mass
Method Source: SFAM01.1	Method: ICP-MS	
Matrix: Soil/Sediment		
Summary of Modification		
by ICP-MS (processed by Incr	emental Sampling ality Control (QC),	vze dried, composited, and sieved soil/sediment samples Methodology). Unless specifically modified by this and reporting requirements specified in the SOW listed in and in full force and effect.
I. Analyte Modifications		Not applicable 🔀
II. Calibration and QC Requi	rements	Not applicable 🔀
III. Preparation and Method	Modifications	Not applicable
The Laboratory shall:		
 Receive the composition samples will be received. The aliquots show the same set of the solution. Remove and weigh the solution set of the s	ted samples dried a ved in plastic baggi all not be re-combi ount of acid reagen ambient temperation he entire content w	Solids for the samples. and sieved prior to shipment to the Laboratory. The ies as individual aliquots with approximately 2 grams ined and/or subsampled at the Laboratory. Ints added to the sample to account for the increase in the from the time of receipt until preparation. Do not within each baggie followed by digesting the entire sample Duplicates if additional aliquots were provided for these
IV. Special Reporting Require	ements	Not applicable
administrative proble include interference preparations perforn	Narrative is update ems encountered a problems encounte ned, and problems	ed as stated in the SOW, including any technical and and the corrective action taken. These problems may ered during analysis, dilutions, re-analyses or re- with the analysis of samples. Also include a discussion of copy of the approved modification with the SDG