SDG COVER PAGE

Lab Name:	Alliance	Technical Group, LLC	Contract	: 68HERH20)D0011	
Lab Code:	ACE	Case No.: 51779	MA No.:			SDG No.: MYCPM3
SOW No. :	SFAM01.1					
				Analysi	s Method	
EPA Sample	e No.	Lab Sample Id	ICP-AES	ICP-MS	Mercury	Cyanide
МҮСРМЗ		P5187-01		Х		
MYCPM7		P5187-02		Х		
MYCPN6		P5187-03		Х		
MYD034		P5187-04		Х		
MYD037		P5187-05		Х		

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:	Na	Jame:
Date:	Ti	Title:

Inter Curr Method Cont. (Days) 22 MYCPM3 Water (Blanks Only)/ REAC Grab CLP ICP-MS-11+(21) 33 MYCPM4 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 36 MYCPN4 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 37 MYCPN4 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 38 MYD034 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 39 MYD037 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 39 MYD037 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 39 MYD037 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 30 MYD037 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 31 MYD037 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 32 MYD037 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 33 MYD037 Water (Blanks Only) REAC Grab CLP ICP-MS-11+(21) 34 MYD037 Thetals: Ag, Ai, As, Ba,Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Ch, Ju, Su, Ju Mm 35 MYD037 Thetals: Ag, Ai, As, Ba,Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Ju <th>V</th> <th></th> <th></th> <th></th> <th>2</th> <th></th> <th></th> <th></th> <th></th>	V				2				
Analysis/Tumaround Tag/Preservative/Bottles Location C CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1) IKM Staging 08/0 CLP ICP-MS-11+(21) 9-8910 (HNO3 pH<2) (1) IKM Staging 08/0 CLP ICP-MS-11+(21) 9-8911 (HNO3 pH<2) (1) IKM Staging 08/0 CLP ICP-MS-11+(21) 9-7478 (HNO3 pH<2) (1) IKM Staging 08/0 CLP ICP-MS-11+(21) 9-7478 (HNO3 pH<2) (1) IKM Staging 09/1 CLP ICP-MS-11+(21) 9-7481 (HNO3 pH<2) (1) IKM Staging 09/1 CLP ICP-MS-11+(21) 9-7481 (HNO3 pH<2) (1) IKM Staging 09/1 Area 09/1 9-7481 (HNO3 pH<2) (1) IKM Staging 09/1 CLP ICP-MS-11+(21) 9-7481 (HNO3 pH<2) (1) IKM Staging 09/1 Area 09/1 9-7481 (HNO3 pH<2) (1) IKM Staging 09/1 CLP ICP-MS-11+(21) 9-7481 (HNO3 pH<2) (1) IKM Staging 09/1 Area 09/1 10-1 IKM Staging 09/1 Item Stage 10-1 Item Item Item	1 Intact	Custery Sea						2	
Analysis/Tumaround (Days) Tag/Preservative/Bottles Location Composition CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1)	1.8.0	The Conti	12.6.24	X	10/2/24			Join the	5 Analysia
Analysis/Tumaround (Days) Tag/Preservative/Bottles Location (Days) Location Curve/December (Days) CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1)	Upon Receipt	Sample Condition L	Date/Time	by (Signature and Organization)	+	anization)	(Signature and Org	elinquished by	ms/Reason
Analysis/Tumaround (Days) Tag/Preservative/Bottles Location C CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1)	-134642-0	4-092024.	<		ō				
es Location Collection 1) IKM Staging 08/02/2024 14:44 Area 08/05/2024 15:25 1) IKM Staging 08/05/2024 15:25 1) IKM Staging 08/05/2024 15:25 Area 09/16/2024 15:25 Area 09/16/2024 15:25 IKM Staging 09/16/2024 15:25 Area 09/19/2024 15:25 JIKM Staging 09/19/2024 15:25 Area 09/19/2024 15:25 JIKM Staging 09/19/2024 17:15 Area 09/19/2024 17:15 Area 09/19/2024 17:15 Shipment for Case Complete? N	-121825-0/1	ed From Chain of Cu	amples Transfern		Ca, Cd, Co, Cr, Cu, Fe, K, Mg,	l, As, Ba,Be, (5 11+ Metais: Ag, A	P-MS-11+=CLF	pecial Instructions: nalvsis Kev: CLP IC
Sample No. Matrix/Sample No. Coll. (Days (Cal) Analysis/Turnaround (Days) Tag/Preservative/Bottles Location Collection Date/Time (Days) MYCPM3 Water (Blanks Only/ REAC Grab CLP ICP-MS-11+(21) 9-8909 (HNO3 pH-2) (1) IKM Slaging 08/02/2024 14:44 MYCPM7 Water (Blanks Grab CLP ICP-MS-11+(21) 9-8910 (HNO3 pH-2) (1) IKM Slaging 08/02/2024 14:44 MYCPM6 Water (Blanks Grab CLP ICP-MS-11+(21) 9-8910 (HNO3 pH-2) (1) IKM Slaging 08/03/2024 14:25 MYD034 Water (Blanks Grab CLP ICP-MS-11+(21) 9-7478 (HNO3 pH-2) (1) IKM Slaging 08/05/2024 16:26 MYD037 Water (Blanks Grab CLP ICP-MS-11+(21) 9-7478 (HNO3 pH-2) (1) IKM Slaging 09/16/2024 16:46 MYD037 Water (Blanks Grab CLP ICP-MS-11+(21) 9-7481 (HNO3 pH-2) (1) IKM Slaging 09/19/2024 17:15 MYD034 Water (Blanks Grab CLP ICP-MS-11+(21) 9-7481 (HNO3 pH-2) (1) IKM Slaging 09/19/2024 17:15 Area Grab CLP ICP-MS-11+(21) 9-7481 (HNO3		Complete? N	hipment for Case						
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Sample No.Matrix/Sample No.MethodColl. (Days)Tag/Preservative/BottlesLocationCollection Date/TimeMYCPM3Water (BlanksGrabCLP ICP-MS-11+(21)9-8909 (HNO3 pH<2) (1)									2
Sample No.Matrix/SamplerColl.Analysis/TumaroundTag/Preservative/BottlesLocationCollectionMYCPM3Water (BlanksGrabCLP ICP-MS-11+(21)9-8809 (HNO3 pH<2) (1)									
Sample No.Matrix/Sample RColl. (Days)Analysis/Lumaround (Days)Tag/Preservative/BottlesLocationCollection Date/TimeMYCPM3Water (Blanks Only/ REACGrabCLP ICP-MS-11+(21)9-8909 (HINO3 pH<2) (1)									
Sample No. Matrix/Sample Ro. Matrix/Sample Ro. Coll. Analysis/Lumaround (Days) Tag/Preservative/Bottles Location Collection MYCPM3 Water (Blanks Only)/ REAC Grab CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1)		09/19/2024 17:15	IKM Staging Area	9-7481 (HNO3 pH<2) (1)	CLP ICP-MS-11+(21)	Grab	Water (Blanks Only)/ REAC	MPUUY/	RB-20240919
Sample No. Matrix/Sample r Coll. Analysis/Lumaround Tag/Preservative/Bottles Location Collection MYCPM3 Water (Blanks Grab CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1)		09/16/2024 16:46	IKM Staging Area	9-7478 (HNO3 pH<2) (1)	CLP ICP-MS-11+(21)	Grab	Water (Blanks Only)/ REAC	MYD034	RB-20240916
Sample No. Matrix/Sampler Coll. Analysis/Lumaround Tag/Preservative/Bottles Location Collection MYCPM3 Water (Blanks Grab CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1)		08/05/2024 15:25	IKM Staging Area	9-8911 (HNO3 pH<2) (1)	CLP iCP-MS-11+(21)	Grab	Water (Blanks Only)/ REAC	MYCPN6	RB-20240805
CLP Matrix/Sampler Coll. Analysis/Lumaround Tag/Preservative/Bottles Location Collection Sample No. Method (Days) Tag/Preservative/Bottles Location Date/Time MYCPM3 Water (Blanks Grab CLP ICP-MS-11+(21) 9-8909 (HNO3 pH<2) (1)		08/03/2024 11:01	IKM Staging Area	9-8910 (HNO3 pH<2) (1)	CLP ICP-MS-11+(21)	Grab	Water (Blanks Only)/ REAC	MYCPM7	RB-20240803
Sample No. Method (Days) Location Date/Time	1	08/02/2024 14:44	IKM Staging Area	9-8909 (HNO3 pH<2) (1)	CLP ICP-MS-11+(21)	Grab	Water (Blanks Only)/ REAC	мүсрмз	RB-20240802
	For Lab Use Only		Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier
	I ah Phone: 008-798-3454	Lab Contact: Monammad Anmed		9-113	Cooler #: 51779-113			8786	AirbillNo: 7704 9161 8786

CHAIN OF CUSTODY RECORD

Case #: 51779

No: 9-080824-121825-0113

Lab: Alliance Technical Group LLC

68HERH20D0011

SDG # MYCPM3

DateShipped: 12/5/2024 CarrierName: FedEx USEPA CLP COC (LAB COPY)

Page 1 of 1

FORM DC-1

SAMPLE LOG-IN SHEET

							AN	
	ance Technical Group	, LLC	0			Page <u>1</u> of_	7	
Received By (Pr	Cappane	aver	Kene			Log-in Date	e 12/6/20)24
Received By (Si	gnature)							
Case Number	51779	SDG	No. MYC	РМ3		MA No. N/	A	
								1
Remarks:						Correspondir	ng	
1. Custody Seal (s)	Present, Intact						Remarks: Condition	
2. Custody Seal Nos.	<u>n/a</u>		Wat		Aqueous/ Water Sample Sam pH Tag		· · · · · ·	
3. Traffic Reports/Chain Of	Present		МҮСРМЗ	1.9	9-8909		P5187-01	etc.
Custody Records		2	MYCPM7	1.9	9-8910		P5187-01	Intact
4. Airbill		3	MYCPN6	1.9	9-8911		P5187-03	Intact
4. Anom	Present	4	MYD034	1.9	9-7478		P5187-04	Intact
5. Airbill No. and	770491618786	5	MYD037	1.9	9-7481		P5187-05	Intact
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	1.8 Degree C	10	N/A	N/A	N/A		N/A	N/A
Temperature	<u>1.0</u> Dog.000	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	Absent	15	N/A	N/A	N/A		N/A	N/A
Sample Tag 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		19	N/A	N/A	N/A		N/A	N/A
Custody Records 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	12/06/2024	22	N/A	N/A	N/A		N/A	N/A
Lab		23	N/A	N/A	N/A		N/A	N/A
12.Time Received	10:10							

* Contact SMO and attach record of resolution

Reviewed By	Q,	Logbook No.	N/A	
Date	12/6/24	Logbook Page No.	N/A	

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

LAB NAME	Alliance Techr	nical Group, LLC	
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51779	SDG NO.	мусрмз
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	NOs: TO	CH LAB	ECK 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	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	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
Cleanup Logbooks 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	✓	
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	10	14	1	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	15	1001	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1002	1139	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and	1140	1141	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1142	1150		
 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	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V Instructions NA NA NA NA NA 32. Extraction Logs for TCLP and SPLP NA NA NA NA NA 33. Raw GPC Data NA NA NA NA NA NA 34. Raw Florisil Data NA NA NA NA NA NA Analysis Forms and Data (Cyanide) S Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA NA 36. Instrument raw data by instrument in analysis order NA NA NA Other Data 39. Original Analysis or Instrument Run 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 31. Extraction Logs for TCLP and SPLP NA NA 34. Raw GPC Data NA NA 34. Raw GPC Data NA	30. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	_	·
32. Extraction Logs for TCLP and SPLP NA NA NA 33. Raw GPC Data NA NA NA NA 34. Raw Florisil Data NA NA NA NA Analysis Forms and Data (Cyanide) NA NA NA NA 35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA NA 36. Instrument raw data by instrument in analysis order NA NA NA ✓ Other Data 37. Standard and Reagent Preparation Logs 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 ✓ ✓ <td< td=""><td>31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample</td><td>NA</td><td>NA</td><td>✓</td><td>·</td></td<>	31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	·
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	43. Raw Florisil Data	NA	NA	✓	·

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			FROM	TO	LAB	REGION
Additional 44. EPA Shipp	bing/Receiving Documents					
Airbill	(No. of Shipments <u>1</u>)		1151	1151	✓	
Sample Ta	ags		NA	NA	✓	
Sample Lo	og-In Sheet (Lab)		1152	1152	✓	
45. Misc. Shi	pping/Receiving Records(list all individ	ual records)	NA	NA	_ ✓	
	Lab Sample Transfer Records and Tracking e or list)	Sheets	1153	1153		
	cords and related Communication Logs e or list)		NA	NA		
48. Comments:						
Completed by (CLP Lab)	:	Nimisha Pandya, Docum	nent Control	L Officer		
Audited by: (EPA)	(Signature)	(Print Name & Title)			(Da	te)
	(Signature)	(Print Name & Title)	1		(Da	te)



284 Sheffield Street Mountainside, NJ 07092

SDG NARRATIVE

USEPA SDG # MYCPM3 CASE # 51779 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P5187

A. Number of Samples and Date of Receipt

05 Water samples were delivered to the laboratory intact on 12/06/2024.

B. Parameters

Test requested for Metals CLP MS = 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: 1.8°C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue: The COC lists the Case number 51701 and the sample containers list Case number 51880.

E. Corrective Action taken for above:

Resolution: Per Region 5, The correct Case number is 51880 and a revised COC has been provided. Please 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.



284 Sheffield Street Mountainside, NJ 07092 G. Calculation:

Calculation for ICP-MS Water Sample:

Concentration or Result ($\mu g/L$) = C x Vf Vf DF Vi

Where,

 $\begin{array}{ll} C &= \mbox{Instrument value in ppb (The average of all replicate integrations)} \\ Vf = \mbox{Final digestion volume (mL)} \\ Vi = \mbox{Initial aliquot amount (mL) (Sample amount taken in prep)} \\ DF = \mbox{Dilution Factor} \end{array}$

Example Calculation For Sample MYCPM3 For Barium:

If C = 0.71 ppb Vf = 50 ml Vi = 50 ml DF = 1

Concentration or Result (μ g/L) = 0.71 x $\underline{50}$ x 1 $\underline{50}$

 $= 0.71 \, \mu g/L$

= $0.71 \,\mu\text{g/L}$ (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.

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.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y



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Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc
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