SDG	COVER	PAGE
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Lab Name: A	lliance Technical Group, LLC	Contract	68HERH201	0011	
Lab Code: AC	CE Case No.: 51779	MA No.:	3225.1,3226	.1	SDG No.: MYCZK9
SOW No. : SI	FAM01.1				
EPA Sample N	o. Lab Sample Id	ICP-AES	Analysis ICP-MS	Method Mercury	Cyanide
MYCZK9	P5190-01	Х	X		
MYCZL0	P5190-02	Х	X		
MYCZL1	P5190-03	Х	X		
MYCZL2	P5190-04	Х	Х		
MYCZL3	P5190-05	Х	X		
MYCZL4	P5190-06	Х	X		
MYCZL5	P5190-07	Х	X		
MYCZL6	P5190-08	Х	X		
MYCZL7	P5190-09	Х	X		
MYCZL8	P5190-10	Х	X		
MYCZL9	P5190-11	Х	X		
MYCZM0	P5190-12	Х	Х		
MYCZM1	P5190-13	Х	X		
MYCZM2	P5190-14	Х	X		
MYCZM3	P5190-15	Х	Х		
MYCZM4	P5190-16	Х	Х		
MYCZM5	P5190-17	Х	X		
MYCZM6	P5190-18	Х	Х		
MYCZM7	P5190-19	Х	Х		
MYCZM8	P5190-20	X	Х		
MYCZM8D	P5190-21	Х	Х		
MYCZM8S	P5190-22	Х	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:	 Name:	

Date:

Title:

68HERH20D0011

SDG # MYCZK9

Page 4 of 5

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

CHAIN OF CUSTODY RECORD

Cooler #: 51779-118 Case #: 51779

Lab: Alliance Technical Group LLC No: 9-091824-120515-0118 Lab Phone: 601-264-2854 Lab Contact: Max Bonner

	e Complete? N	Shipment for Case Complete? N	d select samples for Lab QC.	Special Instructions: Percent solids required for every sample. Use MAs 3225 and 3226. Lab should select samples for Lab QC.	ample, Use M	required for every s	Percent solids	necial Instructions:
	09/18/2024 15:46	241-A-0002	9-7317 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL8	241-A-0002-01
	09/18/2024 15:47	241-A-0005	9-7316 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL7	241-A-0005-01
	09/18/2024 15:21	2330-A-005	9-7315 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL6	2330-A-005-01
	09/18/2024 15:23	2330-A-003	9-7314 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL5	2330-A-003-01
	09/18/2024 15:24	2330-A-003	9-7313 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL4	2330-A-003-02
	09/18/2024 15:25	2330-A-004	9-7312 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL3	2330-A-004-01
	09/18/2024 15:27	2330-A-001	9-7311 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL2	2330-A-001-01
	09/18/2024 15:28	2330-A-002	9-7310 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL1	2330-A-002-01
	09/18/2024 15:02	2314-A-005	9-7309 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZLO	2314-A-005-01
	09/18/2024 15:03	2314-A-001	9-7308 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZK9	2314-A-001-03
For Lab Use Only	Collection Date/Time	Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier

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Custody Seal Totact-					
IR. C. # (4.8	12-6.24		13 60	C I S F Z	100
	1010		12/05/224	Carroliner Curacino 12/05/22	A AMA
Sample Condition Upon Receipt	ne	Received by (Signature and Organization)	Date/Time	Relinquished by (Signature and Organization)	Items/Reason

Special Instructions: Percent solids required for every sample, Use MAs 3225 and 3226. Lab should select samples for Lab QC. ICP-AES 11+Metals:Ag,AI,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,NI,Pb,Sb,Se,TI,V,Zn ICP-MS 11+ Metals: Ag, As, Ba,Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se,TI, V, Zn

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES 11 ICP-MS 11=CLP ICP-AES 11 Metals and ICP-MS 11 Metals

68HERH20D0011

Page 5 of 5 USEPA CLP COC (LAB COPY)

CarrierName: FedEx DateShipped: 12/5/2024

Case #: 51779

Cooler #: 51779-118

CHAIN OF CUSTODY RECORD

SDG # MYCZK9

No: 9-091824-120515-0118

Lab: Alliance Technical Group LLC Lab Phone: 601-264-2854 Lab Contact: Max Bonner

Custody #	Samples Transferred From Chain of Custody #	Samples Transfei	S 11+ Metals: Ag, As, Ba,Be,	Special institutions, reicent some require or our period of the physics, set TI,V,Zn ICP-MS 11+ Metals: Ag, As, Ba,Be, ICP-AES 11+Metals; Ag,AI,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,TI,V,Zn ICP-MS 11+ Metals: Ag, As, Ba,Be, Cd, Co, Cr, Cu, Ni bh, Sh, Se TI V, Zn	⁻ e,K,Mg,Mn,N	e,Ca,Cd,Co,Cr,Cu,F / Zn	: Ag,Al,As,Ba,B	Cd Co Cr Cri Ni Ph Sh Se TI V Zn
	e Complete? N	Shipment for Case Complete? N	d select samples for Lab QC.	As 3225 and 3226. Lab shou	ample. Use N	required for every s	Domant enlide	
20	U9/10/2024 09.33	3011_3012-C- 0007	9-7327 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM8	3011_3012-C- 0007-01
	00/10/2024 00.01	9000 	9-/326 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM7	3011_3012-C- 0006-01
	00/18/2024 02.20	3011_3012-C- 0002	9-7325 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM6	3011_3012-C- 0002-01
	001/00/2027 00.20	0004	9-/324 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM5	3011_3012-C- 0004-01
	03/10/2024 03.27	0005 0005	9-/323 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM4	3011_3012-C- 0005-01
	00/10/2027 00:20	0003	9-7322 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM3	3011_3012-C- 0003-01
	09/18/2024 13.39	3011_3012-8- S0004	9-7321 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM2	3011_3012-B- S0004-01
	09/18/2024 10:40	241-A-0004	9-7320 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZM1	241-A-0004-01
	09/18/2024 13:43	241-A-0001	9-7319 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZMO	241-A-0001-03
	U9/18/2024 13.44	241-A-0003	9-7318 (None) (1)	ICP-AES 11 ICP-MS 11(21)	Grab	Soil/ REAC	MYCZL9	241-A-0003-01
Only	Date/Time	Location	Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coll. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier

	is a particular of the second se	Date/Time	Received by (Signature and Organization)	and Organization)	Date/Time	Sample Condition Upon Receipt
240	Carolina Cutano 12/08/2024	2108/2024	22		3	10 2 th a o
(ah	Lestex	13:00		1	12-6-24	44. (0-2 1 1.0) 44
						Custody Seal Intad-
						-
						no ten BLL note

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alli	ance Technical Group	, LLC	\bigcirc			Page 1 of	1	
Received By (Pr	rint Name	s.r.	Cena_			Log-in Date	e 12/6/20)24
Received By (Si			- Cran					
Case Number	51779	SDG	No. MYCZ	ZK9		MA No. 32	225.1,3226.1	
	1							
Remarks:						Correspondir	ng	
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	MYCZK9	N/A	9-7308		P5190-01	Intact
Custody Records		2	MYCZL0	N/A	9-7309		P5190-02	Intact
4. Airbill	Drecent	3	MYCZL1	N/A	9-7310		P5190-03	Intact
	Present	4	MYCZL2	N/A	9-7311		P5190-04	Intact
5. Airbill No. and	770494781117	5	MYCZL3	N/A	9-7312		P5190-05	Intact
Shipping Container ID No.	1	6	MYCZL4	N/A	9-7313		P5190-06	Intact
6. Shipping Container		7	MYCZL5	N/A	9-7314		P5190-07	Intact
Temperature	Absent	8	MYCZL6	N/A	9-7315		P5190-08	Intact
Indicator Bottle		9	MYCZL7	N/A	9-7316		P5190-09	Intact
7. Shipping Container	9.8 Degree C	10	MYCZL8	N/A	9-7317		P5190-10	Intact
Temperature		11	MYCZL9	N/A	9-7318		P5190-11	Intact
8. Sample	Intact	12	MYCZM0	N/A	9-7319		P5190-12	Intact
Condition		13	MYCZM1	N/A	9-7320		P5190-13	Intact
		14	MYCZM2	N/A	9-7321		P5190-14	Intact
9. Sample Tags Sample Tag	Absent	15	МҮСΖМЗ	N/A	9-7322		P5190-15	Intact
Numbers	Listed on Traffic	16	MYCZM4	N/A	9-7323		P5190-16	Intact
10.75	Report	17	MYCZM5	N/A	9-7324		P5190-17	Intact
10. Does information on Traffic	Yes	18	MYCZM6	N/A	9-7325		P5190-18	Intact
Reports/Chain of Custody Records		19	MYCZM7	N/A	9-7326		P5190-19	Intact
and Sample Tags		20	MYCZM8	N/A	9-7327		P5190-20	Intact
agree ?		21	MYCZM8D	N/A	9-7327		P5190-21	Intact
 Date Received at Lab 	12/06/2024	22	MYCZM85	N/A	9-7327		P5190-22	Intact
12.Time Received		23	N/A	N/A	N/A		N/A	N/A
12. Hine Received	10:10							

* Contact SMO and attach record of resolution

Reviewed By	(X)	Logbook No.	N/A
Date	12/6/24	Logbook Page No.	N/A

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

Alliance Technical	l Group, LLC	
ACE		
68HERH20D0011		
51779	SDG NO.	MYCZK9
3225.1,3226.1	SOW NO.	SFAM01.1
	ACE 68HERH20D0011 51779	68HERH20D0011 51779 SDG NO.

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	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	17	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	18	20	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	21	40	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	41	451	✓	
Other Data				
10. Standard and Reagent Preparation Logs	452	589	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	590	591	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or	592	609	1	
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	✓	
16. Raw Florisil Data	NA	NA	1	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	610	629		
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	630	1691	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1692	1822	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and	1823	1824	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1825	1833	✓	
Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA		. <u> </u>

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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26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA NA V 27. Instrument raw data by instrument in analysis order NA NA NA V Other Data 28. Standard and Reagent Preparation Logs NA NA V 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA V 30. Original Preparation (PE)/Proficiency Testing (PT) Sample Instrument Logbooks NA NA V 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructione Gas of TCLP and SPLP NA NA V 32. Extraction Logs for TCLP and SPLP NA NA V NA 33. Raw GPC Data NA NA V NA V 34. Raw Florisil Data NA NA V NA NA V 35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA V NA V 36. Instrument raw data by instrument in analysis order NA NA V NA V NA V NA V <t< td=""><td>25. Raw Florisil Data</td><td>NA</td><td>NA</td><td>✓</td><td></td></t<>	25. Raw Florisil Data	NA	NA	✓	
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29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA<	Other Data				
Cleanup Logbooks NA NA NA 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA NA NA 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions 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 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 37. Standard and Reagent Preparation Logs NA NA ✓ 37. Standard and Reagent Preparation Logs NA NA ✓ 38. 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 Instructions NA NA ✓ <td>28. Standard and Reagent Preparation Logs</td> <td>NA</td> <td>NA</td> <td>✓</td> <td></td>	28. Standard and Reagent Preparation Logs	NA	NA	✓	
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) Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA 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 30. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA NA 41. Extraction Logs for TCLP and SPLP NA NA 42. Raw GPC Dat	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	✓	·
34. Raw Florisil Data NA 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 NA ✓ 36. Instrument raw data by instrument in analysis order NA NA ✓		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 36. Instrument raw data by instrument in analysis order NA NA Other Data 37. Standard and Reagent Preparation Logs NA 38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA 39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA 41. Extraction Logs for TCLP and SPLP NA 42. Raw GPC Data NA	33. Raw GPC Data	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 ✓ 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 ✓	34. Raw Florisil Data	NA	NA	✓	
or sample analysis, laboratory QC as applicable 36. Instrument raw data by instrument in analysis order NA NA V Other Data 37. Standard and Reagent Preparation Logs NA NA V 38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions 41. Extraction Logs for TCLP and SPLP 42. Raw GPC Data NA NA V	Analysis Forms and Data (Cyanide)				
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 ✓		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 ✓		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				
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions 41. Extraction Logs for TCLP and SPLP 42. Raw GPC Data		NA	NA	✓	
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	ECK
				FROM	TO	LAB	REGION
Additi 44. EB		ng/Receiving Documents					
Ai	irbill (No	o. of Shipments)		1834	1834	✓	
Sa	ample Tag	5		NA	NA	✓	
Sa	ample Log	-In Sheet (Lab)		1835	1837	✓	
45. Mi	isc. Shipp	ping/Receiving Records(list all indi	vidual records)	NA	NA	_	
_							
	nternal La describe (ab Sample Transfer Records and Track. or list)	ing Sheets	1838	1841		
	ther Reco describe o	rds and related Communication Logs or list)		NA	NA		. <u> </u>
48. Cc	omments:						·
Compl (CLP	eted by: Lab)	(Cimpetune)	Nimisha Pandya, Docu		Officer		
Audit (EPA)	ed by:	(Signature)	(Print Name & Title			(Dat	
		(,11110 1.0100 0 11010	- /		(Du	/



SDG NARRATIVE

USEPA SDG # MYCZK9 CASE # 51779 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P5190 MODIFIED ANALYSIS #3225.1, 3226.1

A. Number of Samples and Date of Receipt

20 Soil samples was delivered to the laboratory intact on 12/06/2024

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.

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

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 9.8°C

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

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

E. Corrective Action taken for above:

Resolution 1 : 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.

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) = $C \times \frac{Vf}{W \times S} \times DF$

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 MYCZK9 For Antimony :

= 3.63505 mg/kg

= 3.6 mg/kg (Reported Result with Signification)

Calculation for ICP-MS Soil Sample:

Conversion of Results from $\mu g / L$ 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 MYCZK9 For Antimony:

If C = 0.37 ppb Vf = 500 ml W = 1.32 g S = 0.985(98.5/100) DF = 1 Concentration (mg/kg) = 0.37 x 500 1.32×0.985 = 0.142285 mg/kg

= 0.14 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. AES Spike sample did meet requirements except for Silver. MS Spike sample (MYCZM8S) did meet requirements except for Arsenic, Barium, Beryllium, Chromium, Cobalt, Copper, Lead, Nickel, Silver, Vanadium, Zinc . Duplicate sample did meet requirements except for Nickel. 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.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc

Internal Standard Association for ICP-MS analysis.



Cobalt	45Sc
Copper	45Sc
Lead	209Bi
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_____ Nam

Name: Nimisha Pandya

Date _____

Title: Document Control Officer

	MA: 3225.1	Title: ICP-MS with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC
Method Source: SFAM01.1	Method: ICP-MS	
Matrix: Soil/Sediment		
Summary of Modification		
with additional modified LCS and Unless specifically modified by th	Matrix Spikes and ar is modification, all ar	mples by EPA Draft Method 3050C (see below) nalyze for the scheduled target analytes by ICP-MS. nalyses, Quality Control (QC), and reporting ent EPA agreement remain unchanged and in full
I. Analyte Modifications		Not applicable
II. Calibration and QC Requirem	ents	Not applicable
Recovery limits do NOT aPrepare a Matrix Spike sp	dditional Laboratory pply to this LCS and r piked at three times t	Control Sample (LCS) spiked at the CRQL. Percent no corrective actions are required. the levels specified in the SOW.
for this Modified AnalysisPost-Digestion Spike requPost-Digestion Spike corr	s (i.e., 15x the levels suirements apply to the	ne 5x Matrix Spike only.
Post-Digestion Spike requ	s (i.e., 15x the levels s uirements apply to th ective actions apply t	specified in the SOW). ne 5x Matrix Spike only.

IV. Special Reporting Requirements

The Laboratory shall:

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the resolution or corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses and/or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analyses, including a copy of the approved modification form with the SDG Narrative.
- Initial analysis data are reported with a dilution factor of 1.0 and a final volume of 500 mL, per the SOW.
- Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory_Control_Sample_Duplicate".
- Report the additional Matrix Spike with an "SRE" suffix in the raw data and EDD.
- Report any Post-Digestion Spike of the additional 5x Matrix Spike with an "ARE" suffix.

Date: 09/11/2024	MA: 3226.1	Title: ICP-AES with Modified Preparation Method and Analysis of Soils with Additional
		Laboratory QC
Method Source: SFAM01.1	Method: ICP-AES	
Matrix: Soil/Sediment		
Summary of Modification		
with additional modified LCS a AES. Unless specifically modified	nd Matrix Spikes and a ed by this modificatior	amples by EPA Draft Method 3050C (see below) analyze for the scheduled target analytes by ICP- n, all analyses, Quality Control (QC), and reporting rent EPA agreement remain unchanged and in full
I. Analyte Modifications		Not applicable 🔀
II. Calibration and QC Require	ements	Not applicable
 for Draft Method 3050 Prepare and analyze and Recovery limits do NO Prepare a Matrix Spike Post-Digestion Spike recovery 	C. n additional Laborator T apply to this LCS and spiked at two times t equirements apply to t	•
Post-Digestion Spike co	· · ·	
III. Preparation and Method N The Laboratory shall:	lodifications	Not applicable
 Mix sample the Add 10 mL 1:1 minutes. Add 5 mL conc digestion complete 	oroughly and transfer HNO ₃ and 5 mL 1:1 H centrated HNO ₃ and re	t Method 3050C as follows: 1.00 – 1.50 g to a digestion vessel. Cl, heat the sample at 95°C (±3°C) and reflux 10 -15 flux for 30 minutes at 95°C (±3°C), repeat until

• Method Blanks, both LCS, and all instrument QC are to be analyzed undiluted.

IV. Special Reporting Requirements

The Laboratory shall:

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the resolution or corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses and/or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analyses, including a copy of the approved modification form with the SDG Narrative.
- Initial analysis data are reported with a dilution factor of 2.0 and a final volume of 100 mL, per the SOW.
- Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory_Control_Sample_Duplicate".
- Ensure that up-to-date Interelement Correction Factors (IECs) are provided with the data package.

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	K2	Calc-in-fit
	As 189.042 {479}	\boxtimes	1	Fe	-0.000064	0.000000	No
	TI 190.856 {477}	X	5	Мо	-0.002450	0.000000	No
				Co	0.002248	0.000000	No
			····	Ti	-0.000500	0.000000	No
				Mn	0.000370	0.000000	No
				V	-0.012340	0.000000	No
	Pb 220.353 {453}	M	6	Мо	-0.001480	0.000000	No
				Al	-0.000075	0.000000	No
				Cu	0.001400	0.000000	No
				Fe	0.000030	0.000000	No
				Mn	0.000340	0.000000	No
				Ni	0.000630	0.000000	No
	Se 196.090 {472}		3	Fe	-0.000308	0.000000	No
			-	Mn	0.000470	0.000000	No
			•	Co	-0.000630	0.000000	No
	Sb 206.833 {463}	\boxtimes	4	Cr	0.010700	0.000000	No
	00 200:000 [100]	<u> </u>		V	-0.001168	0.000000	No
				Mo	-0.002850	0.000000	No
				Ni	-0.002850		
	AI 396.152 { 85}		4	å		0.000000	No
	Ba 493.409 { 68}		Nono	Мо	0.037230	0.000000	No
	Be 234.861 {144}	H	None	Ma	0.000000	0.000000	. NI-
	De 234.001 {144}	X	3	Mo	-0.000320	0.000000	No
		******		Fe	0.000010	0.000000	No
	CH 214 420 (457)	57	4	Mn	-0.000047	0.000000	No
****	Cd 214.438 {457}	<u> </u>	1	Fe	0.000040	0.000000	No
	Ca 373.690 { 90}		None				
****	Cr 267.716 {126}	<u> </u>	1	Mn	0.000160	0.000000	No
	Co 228.616 {448}		2	Ti	0.001840	0.000000	No
į				Мо	-0.001230	0.000000	No
	Cu 324.754 {104}		4	Co	-0.000796	0.000000	No
ļ				Fe	-0.000100	0.000000	No
ļ				Mn	0.000345	0.000000	No
				Ni	0.000895	0.000000	No
	Fe 259.837 {130}		None				
ļ	Vn 257.610 {131}		1	Ni	0.000897	0.000000	No
*****	Vg 279.079 {121}		None				
	Ni 231.604 {446}		None				
1	Ag 328.068 {103}	\boxtimes	3	Fe	-0.000100	0.000000	No
1				Mn	0.000146	0.000000	No
				V	-0.000889	0.000000	No
1	Na 818.326 { 41}		None			1	<u> </u>
1	/ 292.402 {115}	\boxtimes	2	Мо	-0.008480	0.000000	No
Ī				Cr	-0.002220	0.000000	No
Z	n 206.200 {464}		None				*·····
Z	n 213.856 {158}		1 1	Ni	0.007280	0.000000	No
K	(769.896 { 44 }		None				·····
	177.495 {490}		2	Ni	0.001640	0.000000	No
1	· · · · · · · · · · · · · · · · · · ·	¥		Cu	-0.012530	0.000000	No
İВ	249.678 {135}		3	Co	0.002880	0.000000	No
Ť		KN		V	-0.002000	0.000000	No
<u>†</u>		İ	<u> </u>	Fe	-0.001360	0.000000	No
Ň	lo 202.030 {467}		None	10	-0.001000	0.00000	110
					+		
	182.034 {485}		2	Мо	-0.008000	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
	Si 251.611 {134}		2	Мо	0.010520	0.000000	No
				Ti	0.005650	0.000000	No
	Sn 189.989 {478}		None		<u> </u>		
	Ti 336.121 {100}		1	Ni	-0.001000	0.000000	No
	Li 670.784 { 50}		None		1	1	110
	Y 224.306 {450}*		None				
I	Y 360.073 { 94}*		None				
Î	Y 371.030 { 91}*		None				
Ī	Y 224.306 {150}*		None				<u> </u>
	In 230.606 {446}*		None				
	Sr 407.771 { 83}		None				[[

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PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 12/11/2024

OVENTEMP IN Celsius (°C): 107 Time IN: 14:35 In Date: 12/10/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 OVENTEMP OUT Celsius(°C): 103 Time OUT: 07:50 Out Date: 12/11/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

QC:LB133861

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
P5190-01	MYCZK9	1	1.17	8.52	9.69	9.56	98.5	
P5190-02	MYCZL0	2	1.18	8.46	9.64	9.51	98.5	
P5190-03	MYCZL1	3	1.17	8.46	9.63	9.52	98.7	
P5190-04	MYCZL2	4	1.18	8.50	9.68	9.44	97.2	
P5190-05	MYCZL3	5	1.13	8.43	9.56	9.41	98.2	
P5190-06	MYCZL4	6	1.13	8.60	9.73	9.51	97.4	
P5190-07	MYCZL5	7	1.15	8.39	9.54	9.32	97.4	
P5190-08	MYCZL6	8	1.12	8.42	9.54	9.35	97.7	
P5190-09	MYCZL7	9	1.17	8.35	9.52	9.28	97.1	
P5190-10	MYCZL8	10	1.15	8.59	9.74	9.43	96.4	
P5190-11	MYCZL9	11	1.15	8.56	9.71	9.22	94.3	
P5190-12	МҮСИМО	12	1.13	8.49	9.62	9.34	96.7	
P5190-13	MYCZM1	13	1.15	8.42	9.57	9.31	96.9	
P5190-14	МҮСZM2	14	1.17	8.34	9.51	9.37	98.3	
P5190-15	МҮСZM3	15	1.14	8.40	9.54	9.44	98.8	
P5190-16	MYCZM4	16	1.17	8.44	9.61	9.51	98.8	
P5190-17	МҮСZM5	17	1.13	8.73	9.86	9.73	98.5	
P5190-18	MYCZM6	18	1.15	8.57	9.72	9.56	98.1	
P5190-19	MYCZM7	19	1.14	8.40	9.54	9.41	98.5	
P5190-20	МҮСZM8	20	1.14	8.48	9.62	9.5	98.6	
P5190-21	MYCZM8D	21	1.14	8.48	9.62	9.5	98.6	
P5190-22	MYCZM8S	22	1.14	8.48	9.62	9.5	98.6	

% Solid = (C-A) * 100 (B-A)

			WORKLIST(Hard	WORKLIST(Hardcopy Internal Chain)		(9864) 4.		
WorkList Name :	%1-p5190	WorkList ID :	D: 186185	Department : We	Wet-Chemistry	Dat	Date : 12-10-202	12-10-2024 12-10-55
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	_ 	Method
P5190-01	MYCZK9	Solid	Dornout Calla					
P5190-02	MYCZLO	Collect	Spilos in a	Cool 4 deg C	USEP01	C31	09/18/2024	Chemtech -SO
P5190-03	MYCZL 1		Percent Solids	Cool 4 deg C	USEP01	C31	09/18/2024	Chemtech co
P5190-04	MVC71 D	DIIOC	Percent Solids	Cool 4 deg C	USEP01	C31	00/18/100	
P5190-05	MVC71 5	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	00/10/2024	Chemtech -SO
P5190-06	MVC714	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	00/18/2024	Chemtech -SO
P5190-07	MUCZI E	Solid	Percent Solids	Cool 4 deg C	USEP01	C31		Criemiech -SO
DE100.00		Solid	Percent Solids	Cool 4 deg C	USEP01	121		Unemtech -SO
130-00	MYCZL6	Solid	Percent Solids	Cool 4 dea C			- 1	Chemtech -SO
60-061c4	MYCZL7	Solid	Percent Solids	Cool 4 dea C		121	09/18/2024	Chemtech -SO
P5190-10	MYCZL8	Solid	Percent Solide		USEP01	C31	09/18/2024	Chemtech -SO
P5190-11	MYCZL9	Colisi Colisi		Cool 4 deg C	USEP01	C31	09/18/2024	Chemtech -SO
P5190-12	MYCZM0		Percent Solids	Cool 4 deg C	USEP01	C31	1	Chemtech _SO
P5190-13	MYC2M1		rercent Solids	Cool 4 deg C	USEP01	C31	1	Chamteob CO
P5190-14	MYCZM2		Percent Solids	Cool 4 deg C	USEP01	C31		Chamtach 20
P5190-15	MYCZM3		Percent Solids	Cool 4 deg C	USEP01	C31		Chemtech _SO
P5190-16	MYCZM4		Percent Solids	Cool 4 deg C	USEP01	C31	1	Chemtach co
P5190-17	MYCZMK		Percent Solids	Cool 4 deg C	USEP01	C31		Chamber - 50
P5190-18	MYCZM6		Percent Solids	Cool 4 deg C	USEP01	C31		Chemtook 50
P5190-19	MYCZM7		Percent Solids	Cool 4 deg C	USEP01	C31		Chemtech - 50
P5190-20	MVC7M0		Percent Solids	Cool 4 deg C	USEP01	C31		
D6400 24		Solid	Percent Solids	Cool 4 deg C	USEP01	231	1	Chemtech -SO
12-0610-1	MYCZM8D	Solid F	Percent Solids	Cool 4 dea C			- 1	Chemtech -SO
Date/Time 12-10-24	141 141 UC			0	USEPUI	C31	09/18/2024 C	Chemtech -SO
Raw Sample Received by:	id by: 76 CUPCI				Date/Time	12-10-24	14440]_
Raw Sample Relinquished by:	ished by:	$\left \right\rangle$	Page 1 of 2	N	Raw Sample Received by: Raw Sample Relinquished by:	ived by: quished by:	A 80	
							0	

(9846) (9)	Date: 12-10-2024 12-10-56	Raw Sample Storage Collect Date Method Location		C31 09/18/2024 Chemtech _SO	
iain)	Department : Wet-Chemistry	Customer		USEP01	
WORKLIST(Hardcopy Internal Chain)	Department :	Preservative		Cool 4 deg C	
WORKLIST(H	WorkList ID: 186185	Matrix Test			
	%1-p5190	Customer Sample	MYCZM8S		
	WorkList Name :	Sample	P5190-22		

Date/Time 12-10-24 19 14 0 Bate/ I Ime Raw Sample Relinquished by:

a a 14140 z Raw Sample Relinquished by: Date/Time Raw Sample Received by:

Page 2 of 2