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Lab Name: Al	liance Technical Group, LLC	Contrac	t: 68HERH201	00011	
Lab Code: AC	E Case No.: 51772	MA No.:	3225.1,3226	5.1	SDG No.: MYDA19
SOW No. : SF	AM01.1				
EPA Sample Nc	. Lab Sample Id	ICP-AES	Analysis ICP-MS	Method Mercury	Cyanide
MYDA19	P4294-01	X	X		
MYDA20	P4294-02	X	Х		
MYDA21	P4294-03	X	Х		
MYDA22	P4294-04	X	Х		
MYDA23	P4294-05	X	Х		
MYDA24	P4294-06	X	Х		
MYDA25	P4294-07	X	Х		
MYDA26	P4294-08	X	Х		
MYDA27	P4294-09	X	Х		
MYDA28	P4294-10	X	X		
MYDA29	P4294-11	X	Х		
MYDA30	P4294-12	X	Х		
MYDA31	P4294-13	X	X		
MYDA32	P4294-14	X	Х		
MYDA33	P4294-15	X	Х		
MYDA34	P4294-16	X	X		
MYDA35	P4294-17	X	Х		
MYDA36	P4294-18	X	X		
MYDA37	P4294-19	X	Х		
MYDA42	P4294-20	X	Х		
MYDA42D	P4294-21	X	X		
MYDA42S	P4294-22	X	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:

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SDG # MYDA19

Page 2 of 3 USEPA CLP COC (LAB COPY)

DateShipped: 10/3/2024 CarrierName: FedEx

CHAIN OF CUSTODY RECORD

Case #: 51772 Cooler #: 51772-072

No: 9-061924-140930-0072 Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

5	06/18/2024 14:28	90376-F-0001	9-4994 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA36	90376-F-0001-01
	06/18/2024 16:14	90376-C-0011	9-4993 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA35	90376-C-0011-01
<	06/18/2024 16:43	90376-E-0002	9-4992 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA34	90376-E-0002-01
5	06/18/2024 16:09	90376-C-0010	9-4991 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA33	90376-C-0010-01
5	06/18/2024 16:08	90376-C-0009	9-4990 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA32	90376-C-0009-02
?	06/18/2024 16:07	90376-C-0009	9-4989 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA31	90376-C-0009-01
•	06/18/2024 15:52	90376-B-0007	9-4988 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA30	90376-B-0007-01
1	06/18/2024 15:52	90376-B-0001	9-4987 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA29	90376-B-0001-01
<	06/18/2024 15:50	90376-B-0011	9-4986 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA28	90376-B-0011-01
1	06/18/2024 16:19	90376-C-0001	9-4985 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA27	90376-C-0001-01
<	06/18/2024 16:50	90376-E-0009	9-4984 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA26	90376-E-0009-01
٢	06/18/2024 14:22	90376-F-0004	9-4983 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA25	90376-F-0004-01
(06/18/2024 14:20	90376-F-0006	9-4982 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA24	90376-F-0006-01
1	06/18/2024 14:19	90376-F-0010	9-4981 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA23	90376-F-0010-01
1	06/18/2024 14:17	90376-F-0002	9-4980 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA22	90376-F-0002-01
1	06/18/2024 17:12	90376-E-0004	9-4979 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA21	90376-E-0004-01
1	06/18/2024 17:10	90376-E-0010	9-4978 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA20	90376-E-0010-01
1	06/18/2024 17:09	90376-E-0007	9-4977 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA19	90376-E-0007-01
	06/18/2024 16:39	90376-B-0003	9-4976 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDA18	90376-B-0003-01
Only	Date/Time	Focauon	l ag/Preservative/Dottes	Analysis/ i urnaround (Days)	Method	Matrix/Sampier	CLP Sample No.	Sample Identifier

		C V V	Sine TO XIX Wessond 10/2/24 & Medandy	Items/Reason Relinquished by (Signature and Organization) Date/Time Received by (Signature and Organization)
		J	lehander 10/4/24 9:39	
NO TEM/ NO ICE	Cushdy sed intact	IR Gon #1 22.6		Sample Condition Upon Receipt

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Special Instructions: ICP-AES 11+Metals:Ag,Al,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-AES 11+Metals

68HERH20D0011

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

Cooler #: 51772-072 Case #: 51772

No: 9-061924-140930-0072

SDG # MYDA19

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

S			00httpm					
	Sample No.	; ; ; ; ; ;	Cont	ICP_AES 11/21)	9-4995 (None) (1)	90376-C-0012	06/18/2024 16:22	5
-	MYDA37	Soll REAC	Grap		9-4996 (None) (1)	90376-C-0008	06/18/2024 16:24	
	MYDA38	Soll REAC	Grap		9-4997 (None) (1)	90376-A-0006	06/18/2024 15:25	
90376-A-0006-01	MYDA39	SOIN REAC	Glab		9-4998 (None) (1)	90376-A-0012	06/18/2024 15:27	
90376-A-0012-01	MYDA40	Soil/ REAC	Grab		0 1000 (None) (1)	90376-A-0005	06/18/2024 15:28	
	MYDA41	Soil/ REAC	Grab	ICP-AES 11(21)		00376-E-0011	06/18/2024 14:25	S
	MYDA42	Soil/ REAC	Grab	ICP-AES 11(21)		0001010000		1
						Shipment for Case Complete? N	se Complete? N	
Sample(s) to be used 11+Metals:Ag,Al,As,B	for Lab QC: 3a,Be,Ca,Cd V Zn	90376-F-0011-03 T ,Co,Cr,Cu,Fe,K,Mg,I	ag 9-5000 - : Mn,Na,Ni,Pb,S	Special Instructions: ICP-AES 3b,Se,TI,V,Zn ICP-MS 11+ Met	Sample(s) to be used for Lab QC: 90376-F-0011-03 Tag 9-5000 - Special Instructions: ICP-AES 11+Metals:Ag,Al,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, Co. Min De Se Se TU V Zn	Samples Transfe	Samples Transferred From Chain of Custody #	f Custody #

Itome/Reason	Itoms/Reason Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)		
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Page 3 of 3

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FORM DC-1

SAMPLE LOG-IN SHEET

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int Name)	na		Qú			Log-in Date	10/4/20	24
gnature)	_		Pere					
51772	SD)G N	No. MYDA	19		MA No. 32	25.1,3226.1	
	1 Г					Correspondin		
Present, Intact				Aqueous		correspondin		Remarks: Condition
n/a			EPA Sample #	Water Sample	Sam	•	Assigned Lab #	of Sample Shipment, etc.
Present		1	MYDA19	N/A	9-4977		P4294-01	Intact
		2	MYDA20	N/A	9-4978		P4294-02	Intact
Drecent	1 [3	MYDA21	N/A	9-4979		P4294-03	Intact
Present		4	MYDA22	N/A	9-4980		P4294-04	Intact
779000573804	1 [5	MYDA23	N/A	9-4981		P4294-05	Intact
1		6	MYDA24	N/A	9-4982		P4294-06	Intact
	łĿ	7	MYDA25	N/A	9-4983		P4294-07	Intact
Absent		8	MYDA26	N/A	9-4984		P4294-08	Intact
	9	9	MYDA27	N/A	9-4985		P4294-09	Intact
22.1 Degree C	1 L	10	MYDA28	N/A	9-4986		P4294-10	Intact
		11	MYDA29	N/A	9-4987		P4294-11	Intact
Intact		12	MYDA30	N/A	9-4988		P4294-12	Intact
		13	MYDA31	N/A	9-4989		P4294-13	Intact
		14	MYDA32	N/A	9-4990		P4294-14	Intact
Absent		15	MYDA33	N/A	9-4991		P4294-15	Intact
Listed on Traffic		16	MYDA34	N/A	9-4992		P4294-16	Intact
Report		17	MYDA35	N/A	9-4993		P4294-17	Intact
Yes		18	MYDA36	N/A	9-4994		P4294-18	Intact
		19	MYDA37	N/A	9-4995		P4294-19	Intact
		20	MYDA42	N/A	9-5000		P4294-20	Intact
		21	MYDA42D	N/A	9-5000		P4294-21	Intact
10/04/2024] [2	22	MYDA42S	Ņ/A	9-5000		P4294-22	Intact
D		23	N/A	N/A	N/A		N/A	N/A
	int Name) gnature) 51772 Present, Intact n/a Present Present Present 22.1 Degree C Intact Absent Listed on Traffic Report	int Name) gnature) 51772 SE Present, Intact n/a Present Present 779000573804 1 Absent 22.1 Degree C Intact Absent Listed on Traffic Report Yes 10/04/2024	gnature) SDG N 51772 SDG N Present, Intact 1 n/a 1 Present 1 Present 1 779000573804 6 1 7 Absent 8 22.1 Degree C 10 11 12 13 14 15 15 16 17 Yes 18 19 20 21 10/04/2024 23	int Name) Summer gnature) SDG No. MYDA 51772 SDG No. MYDA Present, Intact EPA Sample # n/a EPA Sample # Present 1 MYDA20 3 Present 1 MYDA21 4 Present 4 MYDA22 5 779000573804 5 MYDA23 6 1 MYDA25 8 MYDA26 9 Absent 9 MYDA27 10 MYDA28 1 11 MYDA28 1 12 MYDA30 1 12 MYDA30 13 MYDA31 14 MYDA32 Absent 15 MYDA33 16 MYDA34 17 MYDA35 Yes 18 MYDA37 20 MYDA42 21 MYDA42D 22 MYDA42D 22 MYDA42S 23 N/A	int Name)SDG No.MYDA1951772SDG No.MYDA19Present, IntactAqueous Water Sample PHAqueous Water Sample PHPresent1MYDA19N/APresent1MYDA20N/A779000573804 13MYDA21N/A779000573804 15MYDA23N/A779000573804 16MYDA23N/A6MYDA23N/A5779000573804 17MYDA25N/A7MYDA25N/A610MYDA25N/A11MYDA26N/A12MYDA27N/A10MYDA28N/A11MYDA30N/A12MYDA30N/A13MYDA31N/A14MYDA32N/A15MYDA33N/A16MYDA34N/A17MYDA35N/A18MYDA37N/A20MYDA42DN/A21MYDA42DN/A22MYDA42SN/A	Int Name) Summary And the second	Int Name) Log-in Date gnature) SDG No. MYDA19 MA No. 32 51772 SDG No. MYDA19 MA No. 32 Present, Intact Aqueous Water Sample Sample Present I MYDA19 N/A 9-4977 2 Present I MYDA20 N/A 9-4978 3 Absent MYDA22 N/A 9-4980 5 779000573804 5 MYDA23 N/A 9-4981 6 MYDA25 N/A 9-4982 7 7 MYDA25 N/A 9-4981 6 1 MYDA27 N/A 9-4982 7 1 MYDA28 N/A 9-4985 10 10 MYDA28 N/A 9-4986 11 11 MYDA30 N/A 9-4986 11 12 MYDA30 N/A 9-4986 11 13 MYDA31 N/A 9-4	Int Name) Log-in Date 10/4/20 gnature) SDG No. MYDA19 MA No. 3225.1.3226.1 Present, Intact Aqueous Aqueous Water Sample Assigned Present 1 MYDA19 N/A 9-4977 P4294-01 2 MY0A20 N/A 9-4977 P4294-02 3 MYDA21 N/A 9-4978 P4294-02 7 MYDA20 N/A 9-4978 P4294-03 4 MYDA21 N/A 9-4979 P4294-05 1 MYDA22 N/A 9-4980 P4294-06 7 MYDA23 N/A 9-4981 P4294-05 1 MYDA24 N/A 9-4982 P4294-06 4 MYDA25 N/A 9-4981 P4294-05 1 7 MYDA26 N/A 9-4982 P4294-06 4 MYDA27 N/A 9-4985 P4294-08 P4294-08 22.1 Degree C 10 <t< td=""></t<>

* Contact SMO and attach record of resolution

Reviewed By	Che ,	Logbook No.	N/A	
Date	10/4/24	Logbook Page No.	N/A	

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

Alliance Technical	Group, LLC	
ACE		
68HERH20D0011		
51772	SDG NO.	MYDA19
3225.1,3226.1	SOW NO.	SFAM01.1
	ACE 68HERH20D0011 51772	68HERH20D0011 51772 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	ECK 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	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 sam	ple 21	40	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	41	721	✓	
Other Data				
10. Standard and Reagent Preparation Logs	722	876		
11. Original Preparation and Cleanup forms or copies of Preparation Cleanup Logbooks	and 877	878	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis	or 879	896	✓	
Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 14. Extraction Logs for TCLP and SPLP	NA	NA	1	
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 sam	ple 897	916	✓	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	917	1948		
Other Data				
19. Standard and Reagent Preparation Logs	1949	2088		
20. Original Preparation and Cleanup forms or copies of Preparation Cleanup Logbooks	and 2089	2090	✓	
 Original Analysis or Instrument Run forms or copies of Analysis Instrument Logbooks 	or 2091	2107		
 Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions 	NA	NA	✓	

23. Extraction Logs for TCLF and SPLP TO LAB REGION 24. Raw GPC Data NA NA NA NA NA 25. Raw Florisil Data NA NA NA V		PAGE N	10s:	CH	IECK
24. Raw GPC Data NA NA YA 25. Raw Florisil Data NA NA YA 26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable NA NA YA 27. Instrument raw data by instrument in analysis order NA NA YA YA 28. Standard and Reagent Preparation logs NA NA Y YA 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA Y 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA NA Y 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA NA Y 32. Extraction Logs for TCLP and SPLE NA NA Y 33. Raw GPC Data NA NA Y 34. Raw Florisil Data NA NA Y 35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 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 Y 36. Instrument raw data by instrument in analysi		FROM	TO	LAB	REGION
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or sample analysis, laboratory QC as applicable NA NA NA NA NA V 27. Instrument raw data by instrument in analysis order NA NA NA V 28. Standard and Reagent Preparation Logs NA NA V V 29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks NA NA V 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks NA NA V 31. Performance Evaluation (PB)/Proficiency Testing (PT) Sample Instructions NA NA V 32. Extraction Logs for TCLP and SPLP NA NA V NA NA V 33. Raw GPC Data NA NA V NA NA V 34. Raw Florisil Data NA NA V NA NA V 35. Sample Analysis Data Forms (IA-OR, IB-OR, and I-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 NA V 37. Standard and Reagent Preparation Logs NA	Analysis Forms and Data (Mercury)				
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30. Original Analysis or Instrument Run forms or copies of Analysis or NA NA<		NA	NA	✓	
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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 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	✓	
40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ 1. 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	IECK
			FROM	TO	LAB	REGION
Additional 44. EPA Shipp	ing/Receiving Documents					
Airbill (No. of Shipments)		2108	2108	✓	
Sample Ta	gs		NA	NA	✓	
Sample Lo	g-In Sheet (Lab)		2109	2111	✓	
45. Misc. Shi	pping/Receiving Records(list all indivi	dual records)	NA	NA	_	
	Lab Sample Transfer Records and Trackir e or list)	ng Sheets	2112	2115	_ ✓	
	ords and related Communication Logs e or list)		NA	NA		
						·
48. Comments:						
Completed by (CLP Lab)		Nimisha Pandya, Docume	ent Control	l Officer		
Audited by: (EPA)	(Signature)	(Print Name & Title)			(Dat	ce)
	(Signature)	(Print Name & Title)			(Dat	te)



284 Sheffield Street Mountainside, NJ 07092

SDG NARRATIVE

USEPA SDG # MYDA19 CASE # 51772 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P4294 MODIFIED ANALYSIS #3225.1, 3226.1

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 10/04/2024.

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.

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: 22.1°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.



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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) = $C \times Vf = Vf$ 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 MYDA19 For Arsenic:

If C = 0.3717089 ppm Vf = 100 ml W = 1.14gS = 0.994(99.4/100)DF = 2

Concentration (mg/kg) = $0.3717089 \times \frac{100}{1.14 \times 0.994} \times 2$

= 65.6057 mg/kg

= 66 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)



284 Sheffield Street Mountainside, NJ 07092 DF = Dilution Factor

Example Calculation For Sample MYDA19 For Antimony :

If C = 20.24 ppb Vf = 500 ml W = 1.14 g S = 0.994(99.4/100) DF = 1 Concentration (mg/kg) = 20.24 x $\frac{500}{1.14 \text{ x } 0.994}$ x 1 / 1000 = 8.93077 mg/kg = 8.9 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, Copper Selenium, Zinc. 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.

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

Internal Standard Association for ICP-MS analysis.



284 Sheffield Street Mountainside, NJ 07092

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_____ Name: N

Name: Nimisha Pandya

Date _____

Title: Document Control Officer

	MA: 3225.0	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 t	Matrix Spikes and ana nis modification, all and	pples by EPA Draft Method 3050C (see below) alyze for the scheduled target analytes by ICP-MS. alyses, Quality Control (QC), and reporting nt EPA agreement remain unchanged and in full
I. Analyte Modifications		Not applicable 🔀
II. Calibration and QC Requirem	ients	Not applicable
 200.8) to report the resumption MDL study for Draft Met Prepare and analyze an a Recovery limits do NOT a Prepare a Matrix Spike s Prepare and analyze an a 	Ilts for these analyses. hod 3050C. additional Laboratory (apply to this LCS and n piked at three times th additional Matrix Spike	mined for routine soil analyses (i.e., Method The Laboratory is NOT required to perform an Control Sample (LCS) spiked at the CRQL. Percent o corrective actions are required. he levels specified in the SOW. e sample spiked at five times the levels specified
 Post-Digestion Spike req Post-Digestion Spike cor 	uirements apply to the	
Post-Digestion Spike req	uirements apply to the rective actions apply to	e 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.

	09/04/2024	MA: 3226.0	Title: ICP-AES with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC
Metho	od Source: SFAM01.1	Method: ICP-AES	· · ·
Matrix	«: Soil/Sediment	1	
Summ	ary of Modification		
with a AES. U requir	dditional modified LCS and Inless specifically modified	Matrix Spikes and ana by this modification, a	pples by EPA Draft Method 3050C (see below) alyze for the scheduled target analytes by ICP- all analyses, Quality Control (QC), and reporting nt EPA agreement remain unchanged and in full
I. Ana	alyte Modifications		Not applicable 🔀
II. Cal	ibration and QC Requireme	ents	Not applicable
•	Recovery limits do NOT a	pply to this LCS and no viked at two times the virements apply to the	•
	paration and Method Mod		
	paration and Method Mod	lifications	Not applicable
	 iboratory shall: Prepare and analyze the some sample thore Mix sample thore Add 10 mL 1:1 HM minutes. Add 5 mL concendigestion comple Concentrate sam Cool sample, add 1 mL aliquots of 3 Dilute to 100 mL 	lifications sample by EPA Draft N oughly and transfer 1.0 NO ₃ and 5 mL 1:1 HCl, trated HNO ₃ and reflu te. ple to 5 mL or reflux v 2mL water and 3 mL 30% H ₂ O ₂ until efferve with water, centrifuge s can also be used for	Not applicable Method 3050C as follows: 00 – 1.50 g to a digestion vessel. heat the sample at 95°C (±3°C) and reflux 10 -15 ux for 30 minutes at 95°C (±3°C), repeat until without boiling for 2 hours at 95°C (±3°C). 30% H ₂ O ₂ . Heat at 95°C (±3°C) and add additiona escence is minimal. e or filter as necessary prior to analysis. ICP-MS analysis. Separate Matrix Spikes and LCS

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.

v	Element, Vavelength and Order	Use?	# IECs	IEC	k1	K2	Calc-in-fit
A	s 189.042 {479}	\boxtimes	1	Fe	-0.000064	0.000000	No
TI	190.856 {477}		5	Мо	-0.002450	0.000000	No
Ī				Co	0.002248	0.000000	No
1			····	Ti	-0.000500	0.000000	No
Ť				Mn	0.000370	0.000000	No
Î				V	-0.012340	0.000000	No
Pt	220.353 {453}	M	6	Мо	-0.001480	0.000000	No
1				Al	-0.000075	0.000000	No
				Cu	0.001400	0.000000	No
1		••••••		Fe	0.000030	0.000000	No
1				Mn	0.000340	0.000000	No
				Ni	0.000630	0.000000	No
Se	196.090 {472}		3	Fe	-0.000308	0.000000	No
	1001000 (112)		1	Mn	0.000470	0.000000	No
			•	Co	-0.000630	0.000000	No
Sh	206.833 {463}	\boxtimes	4	Cr	0.010700	0.000000	No
	200.000 (100)			V	-0.001168	0.000000	No
				Mo	-0.002850	0.000000	No
				Ni	-0.002850		
Δ1	396.152 { 85}		4	å		0.000000	No
	493.409 { 68}		Nono	Мо	0.037230	0.000000	No
	234.861 {144}		None	Ma	0.000000	0.000000	
De	234.001 {144}	X	3	Mo	-0.000320	0.000000	No
				Fe	0.000010	0.000000	No
	214 420 (457)	57		Mn	-0.000047	0.000000	No
*********	214.438 {457}	<u> </u>	1	Fe	0.000040	0.000000	No
*****	373.690 { 90}		None				
****	267.716 {126}	<u>¤</u>	1	Mn	0.000160	0.000000	No
Co	228.616 {448}		2	Ti	0.001840	0.000000	No
				Мо	-0.001230	0.000000	No
Cu	324.754 {104}		4	Co	-0.000796	0.000000	No
				Fe	-0.000100	0.000000	No
				Mn	0.000345	0.000000	No
				Ni	0.000895	0.000000	No
	259.837 {130}		None]
Mn	257.610 {131}		1	Ni	0.000897	0.000000	No
	279.079 {121}		None		[
	31.604 {446}		None		I		
	328.068 {103}	\boxtimes	3	Fe	-0.000100	0.000000	No
	I			Mn	0.000146	0.000000	No
1				V	-0.000889	0.000000	No
Na 8	318.326 { 41}		None			1	Ī
V 29	2.402 {115}		2	Мо	-0.008480	0.000000	No
Î			1	Cr	-0.002220	0.000000	No
Zn 2	06.200 {464}		None		1		
	13.856 (158)		1	Ni	0.007280	0.000000	No
·	9.896 { 44 }		None			1	
	7.495 {490}		2	Ni	0.001640	0.000000	No
			_	Cu	-0.012530	0.000000	No
B 24	9.678 {135}		3	Co	0.002880	0.000000	No
1				V	-0.002000	0.000000	No
1			<u> </u>	Fe	-0.002000	0.000000	NO
Mo	202.030 {467}		None	16	-0.001300	0.000000	UNU
	2.034 {485}		None	Ma	0.000000	0.000000	Na
10 10	2.004 (400)		2	Mo	-0.008000	0.000000	No
1	1.5.5.2.1.1.1.2.2.2.2.2.2.2.2.2.2.2.2.2.			Mn	0.002700	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	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				1

~



PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 10/7/2024

OVENTEMP IN Celsius(°C): 107 Time IN: 13:50 In Date: 10/06/2024 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: 10/07/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

QC:LB132786

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
P4294-01	MYDA19	1	1.18	8.44	9.62	9.57	99.4	
P4294-02	MYDA20	2	1.17	8.57	9.74	9.7	99.5	
P4294-03	MYDA21	3	1.18	8.74	9.92	9.82	98.9	
P4294-04	MYDA22	4	1.18	8.57	9.75	9.71	99.5	
P4294-05	MYDA23	5	1.17	8.60	9.77	9.74	99.7	
P4294-06	MYDA24	6	1.14	8.83	9.97	9.87	98.9	
P4294-07	MYDA25	7	1.15	8.80	9.95	9.9	99.4	
P4294-08	MYDA26	8	1.18	8.40	9.58	9.35	97.3	
P4294-09	MYDA27	9	1.18	8.51	9.69	9.58	98.7	
P4294-10	MYDA28	10	1.19	8.47	9.66	9.55	98.7	
P4294-11	MYDA29	11	1.15	8.83	9.98	9.9	99.1	
P4294-12	MYDA30	12	1.17	8.61	9.78	9.73	99.4	
P4294-13	MYDA31	13	1.15	8.65	9.8	9.72	99.1	
P4294-14	MYDA32	14	1.17	8.60	9.77	9.68	99.0	
P4294-15	MYDA33	15	1.18	8.44	9.62	9.55	99.2	
P4294-16	MYDA34	16	1.18	8.64	9.82	9.77	99.4	
P4294-17	MYDA35	17	1.16	8.77	9.93	9.8	98.5	
P4294-18	MYDA36	18	1.19	8.63	9.82	9.8	99.8	
P4294-19	MYDA37	19	1.18	8.53	9.71	9.66	99.4	
P4294-20	MYDA42	20	1.16	8.60	9.76	9.66	98.8	
P4294-21	MYDA42D	21	1.16	8.60	9.76	9.66	98.8	
P4294-22	MYDA42S	22	1.16	8.60	9.76	9.66	98.8	

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

			WORKLIST(Hard	WORKLIST(Hardcopy Internal Chain)		W 132786	36	
WorkList Name :	%1-p4294	WorkList ID :): 184155	Department : Wet-	Wet-Chemistry	č	Date: 10-06-202	10-06-2024 08:38:27
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4294-01	MYDA19	Solid	Percent Solids	Cool 4 doc C				
P4294-02	MYDA20	Solid	Percent Solide		USEP01	A11	06/18/2024	Chemtech -SO
P4294-03	MYDA21	Solid Volid	Child Process		USEP01	A11	06/18/2024	Chemtech -SO
P4294-04	MYDA22	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
P4294-05	MYDA23	Solid	Percent Solids		USEP01	A11	06/18/2024	Chemtech -SO
P4294-06	MYDA24	Pilos		COOI 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
P4294-07	MYDA25			Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
P4294-08	MVDA26		Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
D4204 00	DAZO UNI	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
	MY UA2/	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
F4294-10	MYDA28	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
P4294-11	MYDA29	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech -SO
P4294-12	MYDA30	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech _SO
P4294-13	MYDA31	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chamtach _0
P4294-14	MYDA32	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech _SO
P4294-15	MYDA33	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chamter 1
P4294-16	MYDA34	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	
P4294-17	MYDA35	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chamtach CO
P4294-18	MYDA36	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chamtach CO
P4294-19	MYDA37	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chemtech SO
P4294-20	MYDA42	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/18/2024	Chomtech 50
P4294-21	MYD442D	Solid	Percent Solids	Cool 4 deg C	USEP01	A11		Chemtech -SO
Date/Time	0 0 6 (24 1 13 1. 30 eceived by: <u> </u>				Date/Time $\sqrt{0/0.000}$ Raw Sample Received hur	10/06/24 Received hv.	11	1. d O
Raw Sample Relinquished by:	uished by: CA SM	1	Page 1 of 2	of 2	Raw Sample R	Raw Sample Relinquished by:	2	60 aug

			WORKLIST(H [£]	WORKLIST(Hardcopy Internal Chain)	ain)	NP 132756	156	
WorkList Name: %1-p4294	%1-p4294	WorkList	WorkList ID: 184155	Department :	Department : Wet-Chemistry	Date :	Date: 10-06-2024 08:38:27	08:38:27
Sample	Customer Sample	Matrix Test	Test	Preservative	Customer	Raw Sample Storage Co Location	Collect Date Method	ethod
CC 1001D								
77-4074 1	MITUA425	Solid	Percent Solids	Cool 4 deg C	USEP01 A11		06/18/2024 Chemtech -SO	hemtech _SO

Date/Time $\sqrt{06/2}$ 31.30Raw Sample Received by: $\sqrt{0100}$ 1000Raw Sample Relinquished by: $\sqrt{0100}$

w 2075

Raw Sample Received by: Raw Sample Relinquished by:

Date/Time

Page 2 of 2