SDG COVER PAGE

Alliance Technical Group, LLC Lab Name: Contract: 68HERH20D0011 Lab Code: Case No.: 51817 MA No.: 3225.1,3226.1 SDG No.: MYE531 SOW No. : SFAM01.1 Analysis Method EPA Sample No. Lab Sample Id ICP-AES ICP-MS Mercury Cyanide MYE531 P4570-01 Χ Χ MYE531D P4570-02 Χ Χ MYE531S P4570-03 Χ Χ **MYE537** P4570-04 Χ MYE538 P4570-05 Χ Χ MYE539 P4570-06 Χ Χ MYE540 P4570-07 Χ Χ MYE541 P4570-08 Χ Χ P4570-09 MYE542 Χ Χ MYE563 P4570-10 Χ Χ MYE564 P4570-11 Χ Χ MYE565 P4570-12 Χ Χ MYE566 P4570-13 Χ Χ Χ Χ MYE567 P4570-14 MYE568 P4570-15 Χ Χ MYE569 P4570-16 Χ Χ MYE570 P4570-17 Χ Χ MYE571 P4570-18 Χ Χ MYE572 P4570-19 Χ Χ MYE573 P4570-20 Χ Χ MYE574 P4570-21 Χ Χ P4570-22 Χ Χ MYE575 I certify that this data package is in compliance with the terms and conditions of the

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:	N	Name:	
Date:	Т	Title:	

68HERH20D0011

SDG#MYE531

Page 2 of 2

USEPA CLP COC (LAB COPY)
DateShipped: 10/24/2024
CarrierName: FedEx
AirbillNo: 7793 0503 8463

CHAIN OF CUSTODY RECORD

Case #: 51817 Cooler #: EPA Cooler 08 No: 9-101424-084531-0143 Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Us Only
90029-J-0004-01	MYE525	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8193 (None) (1)	90029-J-0004	04/24/2024 11:03	
90029-J-0005-01	MYE526	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8194 (None) (1)	90029-J-0005	04/24/2024 10:44	
90029-J-0006-01	MYE527	Soll/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8195 (None) (1)	90029-J-0006	04/24/2024 11:06	
90029-J-0007-01	MYE528	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8196 (None) (1)	90029-J-0007	04/24/2024 10:33	
90029-J-0008-01	MYE529	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8197 (None) (1)	90029-J-0008	04/24/2024 10:48	
90029-J-0009-01	MYE530	Soll/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8198 (None) (1)	90029-J-0009	04/24/2024 10:30	
90029-J-0010-03	MYE531	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8199 (None) (1)	90029-J-0010	04/24/2024 10:59	ØC
90029-J-0011-01	MYE532	Soll/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8200 (None) (1)	90029-J-0011	04/24/2024 10:42	Or C
90029-L-0001-01	MYE533	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8201 (None) (1)	90029-L-0001	04/24/2024 16:44	
90029-L-0002-01	MYE534	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8202 (None) (1)	90029-L-0002	04/24/2024 16:32	
90029-L-0003-01	MYE535	So# REAC	Grab	ICP-AES and ICP-MS(21)	9-8203 (None) (1)	90029-L-0003	04/24/2024 18:58	
90029-L-0004-01	MYE536	Soft/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8204 (None) (1)	90029-L-0004	04/24/2024 16:20	
90029-L-0005-01	MYE537	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8205 (None) (1)	90029-L-0005	04/24/2024 16:38	
90029-L-0006-01	MYE538	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8206 (None) (1)	90029-L-0006	04/24/2024 18:24	
90029-L-0007-01	MYE539	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8207 (None) (1)	90029-L-0007	04/24/2024 16:52	
90029-L-0008-01	MYE540	Soll/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8208 (None) (1)	90029-L-0008	04/24/2024 16:08	
90029-L-0009-01	MYE541	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8209 (None) (1)	90029-L-0009	04/24/2024 16:48	
90029-L-0010-01	MYE542	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8210 (None) (1)	90029-L-0010	04/24/2024 16:36	
30029-L-0011-03	MYE543	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8211 (None) (1)	90029-L-0011	04/24/2024 16:28	QC

Sample(s) to be used for Lab QC: 90029-J-0010-03 Tag 9-8199, 90029-L-0011-03 Tag 9-8211 - Special Instructions: ICP-AES	Shipment for Case Complete? N
11+Metals:Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn ICP-MS 11+ Metals: Ag, As, Ba,Be, Cd, Co, Ccu, Ni, Pb, Sb, Se,Tl, V, Zn	Samples Transferred From Chain of Custody #
Analysis Key: ICP-AES and ICP-MS=Metals ICP-AES and ICP-MS	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Jany Whother R9 ESAT	16:00	7 Catu	10-25-2024	Temp 18.1 C
					Custody seal inter
					Temp BK NOT Iresent

68HERH20D0011

SDG#MYE531

Page 2 of 4

USEPA CLP COC (LAB COPY)
DateShipped: 10/24/2024
CarrierName: FedEx
AirbillNo: 7793 0503 8577

CHAIN OF CUSTODY RECORD

No: 9-101424-084539-0144
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-728-3151

Case #: 51817 Cooler #: EPA Cooler 09

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
242 - A-001-01	MYE563	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8231 (None) (1)	242-A-001	04/26/2024 09:00	
242-A-002-01	MYE564	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8232 (None) (1)	242-A-002	04/26/2024 08:58	
242-A-003-01	MYE565	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8233 (None) (1)	242-A-003	04/28/2024 08:51	
242-A-004-01	MYE566	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8234 (None) (1)	242-A-004	04/26/2024 08:37	
242-A-004-02	MYE567	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8235 (None) (1)	242-A-004	04/26/2024 08:38	
242-A-005-01	MYE568	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8236 (None) (1)	242-A-005	04/26/2024 08:44	
242-A-006-01	MYE569	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8237 (None) (1)	242-A-006	04/26/2024 08:34	
242-A-007-01	MYE570	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8238 (None) (1)	242-A-007	04/26/2024 08:54	
242-A-008-01	MYE571	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8239 (None) (1)	242-A-008	04/26/2024 08:40	
242-B-001-01	MYE572	Soil/ REAC	Grab	ICP-AES and ICP-MS(21)	9-8240 (None) (1)	242-B-001	04/26/2024 09:22	
242-B-002-01	MYE573	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8241 (Nane) (1)	242-B-002	04/26/2024 09:23	
242-B-003-01	MYE574	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8242 (None) (1)	242-B-003	04/28/2024 09:22	
242-B-004-01	MYE575	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8243 (None) (1)	242-B-004	04/28/2024 08:56	
242-B-005-01	MYE576	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8244 (None) (1)	242-B-005	04/26/2024 09:07	
242-B-006-01	MYE577	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8245 (None) (1)	242-B-006	04/28/2024 09:25	
242-B-007-01	MYE578	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8246 (None) (1)	242-B-007	04/26/2024 09:19	
242-B-008-01	MYE579	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8247 (None) (1)	242-B-008	04/26/2024 09:11	
242-B-008-02	MYE580	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8248 (None) (1)	242-B-008	04/26/2024 0B:11	
242-B-009-01	MYE581	Soil/ ERT	Grab	ICP-AES and ICP-MS(21)	9-8249 (None) (1)	242-B-009	04/26/2024 08:52	

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+	Shipment for Case Complete? N
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 and ICP-MS=Metals ICP-AES and ICP-MS	

Items/Reason	Relinquished by (Signature and Organization)		Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt	
	Jangelletten R9 ESAT	16:05	よしま	10.21.2024	TRENT 18.3	
					0 1 1	Heet
					Temp BL NOTFE	
					1	

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group	Page 1 of 2			
Received By (Print Name)	ara lini	Log-in Date 10/25/2024		
Received By (Signature)				
Case Number 51817	MA No. 3225.1,3226.1			

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	057867
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and	779305038463
Shipping Container ID No.	1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	18.1 Degree C
8. Sample Condition	Intact
9. Sample Tags	Absent
Sample Tag Numbers	Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/25/2024
12.Time Received	09:48

			Correspon	ding	Domarks
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MYE531	N/A	9-8199	P4570-01	Intact
2	MYE531D	N/A	9-8199	P4570-02	Intact
3	MYE531S	N/A	9-8199	P4570-03	Intact
4	MYE537	N/A	9-8205	P4570-04	Intact
5	MYE538	N/A	9-8206	P4570-05	Intact
6	MYE539	N/A	9-8207	P4570-06	Intact
7	MYE540	N/A	9-8208	P4570-07	Intact
8	MYE541	N/A	9-8209	P4570-08	Intact
9	MYE542	N/A	9-8210	P4570-09	Intact
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	5. M. Jodheim	Logbook No.	N/A
Date	10/25/2024	Logbook Page No.	N/A

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page_2_of
Received By (Print Name) assagase	Log-in Date 10/25/2024
Received By (Signature)	•
Case Number 51817 SDG No.	MYE531 MA No. 3225.1,3226.1

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	057941
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	779305038577 2
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	18.3 Degree C
6. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/25/2024
12.Time Received	09:48

			Correspond	ing	
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	MYE563	N/A	9-8231	P4570-10	Intact
2	MYE564	N/A	9-8232	P4570-11	Intact
3	MYE565	N/A	9-8233	P4570-12	Intact
4	MYE566	N/A	9-8234	P4570-13	Intact
5	MYE567	N/A	9-8235	P4570-14	Intact
6	MYE568	N/A	9-8236	P4570-15	Intact
7	MYE569	N/A	9-8237	P4570-16	Intact
8	MYE570	N/A	9-8238	P4570-17	Intact
9	MYE571	N/A	9-8239	P4570-18	Intact
10	MYE572	N/A	9-8240	P4570-19	Intact
11	MYE573	N/A	9-8241	P4570-20	Intact
12	MYE574	Ņ/A	9-8242	P4570-21	Intact
13	MYE575	N/A	9-8243	P4570-22	Intact
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	V	Logbook No.	N/A	
Date	10/28/24	Logbook Page No.	N/A	

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

LAB NAME	Alliance Technical	Alliance Technical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51817	SDG NO.	MYE531	
MA NO.	3225.1,3226.1	SOW NO.	SFAM01.1	•
				•

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

1. SDS Cover Fage					
1. SDG Cover Page		PAGE NOs:		СН	ECK
2. Traffic Report/Chain of Custody Record(s) 2. Sample Log-In Sheet (DC-1) 4. CSF Inventory Sheet (DC-2) 5. SDG Narrative 5. SDG Narrative 6. Communication Logs 7. Percent Solids Log 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-TN) for each sample or sample analysis, laboratory OC as applicable 9. Instrument raw data by instrument nanalysis order Cottanup Loghonks 10. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Loghonks 11. Original Analysis or Instrument Run forms or copies of Analysis or data to Loghonks 12. Performance Evaluation (PE)/Proficiency Testing (PT) Sample 13. Raw GPC Data 14. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-TN) for each sample or data to Loghonks 15. Raw GPC Data 16. Raw Florisil Data 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-TN) for each sample or sample analysis, laboratory OC as applicable 18. Instrument Loghonks 19. Standard and Reagent Preparation Logs 20. Original Preparation and Cleanup forms or copies of Analysis or Loghonks 16. Raw Florisil Data 21. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-TN) for each sample or data to Loghonks 22. Criginal Preparation and Cleanup forms or copies of Preparation and Cleanup forms or copies of Preparation and Cleanup Loghonks 23. Sample Analysis or Instrument Run forms or copies of Preparation and Cleanup Loghonks 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Loghonks 21. Original Analysis or Instrument Run forms or copies of Preparation and Cleanup Loghonks 22. Performance Evaluation (FE)/Proficiency Testing (PT) Sample 23. Performance Evaluation (FE)/Proficiency Testing (PT) Sample 24. Na. Na. ✓		FROM	TO	LAB	REGION
2. Traffic Report/Chain of Custody Record(s) 2. Sample Log-In Sheet (DC-1) 4. CSF Inventory Sheet (DC-2) 5. SDG Narrative 5. SDG Narrative 6. Communication Logs 7. Percent Solids Log Analysis Forms and Data (ICP-AES) 8. Sample Analysis Data Forms (IA-OR, IB-OR, and I-IN) for each sample or sample analysis, laboratory OC as applicable 9. Instrument raw data by instrument in analysis order Cleanup Loghooks 10. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Loghooks 11. Original Analysis or Instrument Run forms or copies of Analysis or Analysis or Analysis or TCLP and SPLP 13. Raw GPC Data 14. Extraction Logs for TCLP and SPLP 15. Raw GPC Data 17. Sample Analysis Data Forms (IA-OR, IB-OR, and I-IN) for each sample or asset or TCLP and SPLP 18. Raw Florisil Data 19. Standard and Reagent Preparation Logs 22. 41 ✓ 23. 42 ✓ 42. 426 ✓ 44. Coriginal Preparation and Cleanup forms or copies of Analysis or Instrument Loghooks 18. Raw Florisil Data NA NA ✓ Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (IA-OR, IB-OR, and I-IN) for each sample or asset or ass					
3. Sample Log-In Sheet (DC-1) 4. CSF Inventory Sheet (DC-2) 5. SDG Marrative 9. 18 ✓ 6. Communication Logs 7. Percent Solids Log 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory OC as applicable 19. Instrument Logbooks 11. Original Preparation and Cleanup forms or copies of Analysis or 429 443 ✓ 12. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 ✓ 13. Extraction Logbooks 14. Extraction Logbooks 15. Raw GFC Data 16. Raw Florisil Data 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory OC as applicable 18. Instrument Logbooks 19. Standard and Reagent Preparation Logs 19. Standard and Reagent Preparation Logs 10. Original Preparation and Cleanup forms or copies of Analysis or 429 443 ✓ 11. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 ✓ 12. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 ✓ 13. Performance Evaluation (FE)/Proficiency Testing (PT) Sample NA NA NA ✓ 14. Extraction Logbooks 15. Raw GPC Data NA NA NA ✓ 16. Raw Florisil Data NA NA ✓ Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory OC as applicable 18. Instrument raw data by instrument in analysis order 20. Original Preparation and Cleanup forms or copies of Preparation and 2483 2484 ✓ 21. Original Analysis or Instrument Run forms or copies of Analysis or 12485 2503 ✓ 22. Performance Evaluation (FE)/Proficiency Testing (FT) Sample NA NA NA ✓	1. SDG Cover Page	1	1_	_ ✓	
4. CSF Inventory Sheet (DC-2) 5. SDG Narrative 6. Communication Logs 7. Percent Solids Log 8. NA NA NA ✓ 7. Percent Solids Log 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory OC as applicable 9. Instrument raw data by instrument in analysis order 8. Cleanup Logbooks 10. Original Preparation and Cleanup forms or copies of Preparation and 427 428 ✓ 11. Original Preparation and Cleanup forms or copies of Analysis or 429 443 ✓ 12. Original Analysis or Instrument Run forms or copies of Analysis or 1. Sample NA NA ✓ 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ 14. Extractions 10. Sample Solution (PE)/Proficiency Testing (PT) Sample NA NA ✓ 15. Raw GPC Data NA NA NA ✓ 16. Raw Florisil Data NA NA ✓ 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample 444 463 ✓ 18. Instrument raw data by instrument in analysis order 464 2341 ✓ 19. Standard and Reagent Preparation Logs 2342 2482 ✓ 20. Original Preparation and Cleanup forms or copies of Preparation and 2483 2484 ✓ 21. Original Preparation and Cleanup forms or copies of Preparation and 2483 2484 ✓ 22. Original Preparation and Cleanup forms or copies of Preparation and 2485 2503 ✓ 1. Original Preparation and Cleanup forms or copies of Analysis or 12485 2503 ✓ 1. Original Analysis or Instrument Run forms or copies of Analysis or 12485 2503 ✓ 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA ✓	2. Traffic Report/Chain of Custody Record(s)	2	3	✓	
5. SDG Narrative 6. Communication Logs 7. Percent Solids Log 19 21 ✓ Analysis Forms and Data (ICP-AES) 8. Sample Analysis Data Forms (IA-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order 22 41 ✓ or sample analysis nature freparation Logs 286 426 ✓ Other Data 10. Standard and Reagent Preparation Logs 286 426 ✓ 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or 1. Sample NA NA ✓ Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ Instructions 14. Extraction Logs for TCLP and SPLP NA 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 (IA-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 464 2341 ✓ Other Data 19. Standard and Reagent Preparation Logs 20. Original Preparation and Cleanup forms or copies of Preparation and 2483 2484 ✓ Cleanup Logbooks 21. Original Preparation and Cleanup forms or copies of Preparation and 2483 2484 ✓ Cleanup Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA ✓	3. Sample Log-In Sheet (DC-1)	4	5	✓	
Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable or cample analysis, laboratory QC as applicable or sample analysis or Instrument Logs of Real Real Real Real Real Real Real Real	4. CSF Inventory Sheet (DC-2)	6	8	✓	
Analysis Forms and Data (ICP-AES) 8. Sample Analysis Data Forms (IA-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order 42 285 Other Data 10. Standard and Reagent Preparation Logs 286 426 11. Original Preparation and Cleanup forms or copies of Preparation and 427 428 12. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA 14. Extraction Logs for TCLP and SPLP NA NA NA 15. Raw GPC Data NA NA 16. Raw Florisil Data NA NA 17. Sample Analysis Data Forms (IA-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 464 2341 17. Standard and Reagent Preparation Logs 2342 2482 18. Standard and Reagent Preparation Logs 2342 2482 20. Original Preparation and Cleanup forms or copies of Preparation and 2483 2484 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 23. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 24. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 25. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 26. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 27. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 28. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 29. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 29. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 29. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 29. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 29. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA 29. Performance Evaluation (PE)/Proficiency Testing (PT) Sampl	5. SDG Narrative	9	18	✓	
Analysis Forms and Data (ICP-AES) 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order 42 285 Other Data 10. Standard and Reagent Preparation Logs 286 426 11. Original Preparation and Cleanup forms or copies of Preparation and 427 428 12. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA 14. Extraction Logs for TCLP and SPLP NA NA NA 15. Raw GPC Data NA NA 16. Raw Florisil Data NA NA Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 464 2341 Other Data 19. Standard and Reagent Preparation Logs 2342 2482 20. Original Preparation and Cleanup forms or copies of Preparation and 2483 2484 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V	6. Communication Logs	NA	NA	✓	
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order 42 285 ✓ Other Data 10. Standard and Reagent Preparation Logs 286 426 ✓ 11. Original Preparation and Cleanup forms or copies of Preparation and 427 428 ✓ Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Analysis or Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V Instructions 14. Extraction Logs for TCLP and SPLP NA NA V Instructions 15. Raw GPC Data NA NA V NA V NA V NA V NA NA V NA V NA	7. Percent Solids Log	19	21	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order 42 285 Other Data 10. Standard and Reagent Preparation Logs 286 426 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V 13. Instructions 14. Extraction Logs for TCLP and SPLP NA NA NA V 15. Raw GPC Data NA NA V 16. Raw Florisil Data NA NA V 16. Raw Florisil Data NA NA V 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 40. Cieanup Logbooks 21. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 V 10. Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V	Analysis Forms and Data (ICP-AES)				
Other Data 10. Standard and Reagent Preparation Logs 286 426 ✓ 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 22. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 ✓ Instrument Logbooks 32. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓ Instructions 34. Extraction Logs for TCLP and SPLP NA NA NA ✓ 16. Raw Florisil Data NA NA NA ✓ Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 29. Standard and Reagent Preparation Logs 2342 2482 ✓ Other Data 19. Standard and Reagent Preparation Logs 2342 2482 ✓ 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 ✓ Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA		22	41	✓	
10. Standard and Reagent Preparation Logs 286 426 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or A29 443 Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V Instructions 14. Extraction Logs for TCLP and SPLP NA NA V 15. Raw GPC Data NA NA V 16. Raw Florisil Data NA NA V Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 464 2341 Other Data 19. Standard and Reagent Preparation Logs 2342 2482 Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V		42	285	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or 429 443 Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA NA Instructions 14. Extraction Logs for TCLP and SPLP NA NA NA 15. Raw GPC Data NA NA NA 16. Raw Florisil Data NA NA Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 464 2341 Other Data 19. Standard and Reagent Preparation Logs 2342 2482 Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks Cleanup Logbooks 1 Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 Instrument Logbooks 2 Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V	Other Data				
Cleanup Logbooks 12 Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 13 Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions 14 Extraction Logs for TCLP and SPLP NA NA NA 15 Raw GPC Data Analysis Forms and Data (ICP-MS) 17 Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18 Instrument raw data by instrument in analysis order Other Data 19 Standard and Reagent Preparation Logs 20 Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 10 Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 Instrument Logbooks 22 Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V	10 . Standard and Reagent Preparation Logs	286	426	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample 14. Extraction Logs for TCLP and SPLP 15. Raw GPC Data 16. Raw Florisil Data 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 19. Standard and Reagent Preparation Logs 2342 2482 ✓ 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 ✓ Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓		427	428	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions 14. Extraction Logs for TCLP and SPLP NA NA V 15. Raw GPC Data NA NA V 16. Raw Florisil Data NA NA V Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 464 2341 V Other Data 19. Standard and Reagent Preparation Logs 2342 2482 V 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 V Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V	12. Original Analysis or Instrument Run forms or copies of Analysis or	429	443		
15. Raw GPC Data 16. Raw Florisil Data NA NA V Analysis Forms and Data (ICP-MS) 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order Other Data 19. Standard and Reagent Preparation Logs 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA V	13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA		
Analysis Forms and Data (ICP-MS) 17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18 . Instrument raw data by instrument in analysis order 444 463 ✓ Other Data 19 . Standard and Reagent Preparation Logs 2342 2482 ✓ 20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓	14. Extraction Logs for TCLP and SPLP	NA	NA		
Analysis Forms and Data (ICP-MS) 17 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18 . Instrument raw data by instrument in analysis order 464 2341 Other Data 19 . Standard and Reagent Preparation Logs 2342 2482 20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21 . Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 Instrument Logbooks 22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA	15 . Raw GPC Data	NA	NA		
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order Other Data 19. Standard and Reagent Preparation Logs 2342 2482 ✓ 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 ✓ Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓	16. Raw Florisil Data	NA	NA_	✓	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order 464 2341 ✓ Other Data 19. Standard and Reagent Preparation Logs 2342 2482 ✓ 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 ✓ Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓	Analysis Forms and Data (ICP-MS)				
18. Instrument raw data by instrument in analysis order Other Data 19. Standard and Reagent Preparation Logs 2342 2482 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓		444	463		
19. Standard and Reagent Preparation Logs 2342 2482 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 2485 2503 Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓		464	2341	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA ✓	Other Data				
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or	19. Standard and Reagent Preparation Logs	2342	2482		
21. Original Analysis or Instrument Run forms or copies of Analysis or		2483	2484	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample NA NA \checkmark	21. Original Analysis or Instrument Run forms or copies of Analysis or	2485	2503	_	
	22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	

	PAGE 1	NOs:	СН	ECK
	FROM	TO	LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA		
24 . Raw GPC Data	NA	NA		
25 . Raw Florisil Data	NA	NA		
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA		
or sample analysis, laboratory QC as applicable 27. Instrument raw data by instrument in analysis order	NA .	NA	✓	
Other Data				
28. Standard and Reagent Preparation Logs	NA	NA	√	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA		
30 . Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA		
Instrument Logbooks 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 32. Extraction Logs for TCLP and SPLP	NA	NA	✓	
33 . Raw GPC Data	NA	NA	√	
34 . Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Cyanide)				
35. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA	✓	
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	NA	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks 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	✓	·
43 . Raw Florisil Data	NA	NA	✓	

			PAGE NOs:		CH	CHECK	
			FROM	TO	LAB	REGION	
Additional 44. EPA Shipp	ing/Receiving Documents						
Airbill (No. of Shipments)		2504	2505	✓		
Sample Ta	gs		NA	NA	✓		
Sample Lo	g-In Sheet (Lab)		2506	2508	✓		
45. Misc. Shi	pping/Receiving Records(list all	individual records)	NA	NA_	✓		
46. Internal (describe	Lab Sample Transfer Records and	Tracking Sheets					
			2509	2512	√		
47. Other Rec (describe	ords and related Communication I or list)	uogs	NA	NA			
48. Comments:							
Completed by: (CLP Lab)		Nimisha Pandya, Doo		Officer			
Audited by: (EPA)	(Signature)	(Print Name & Tit	Le)		(Da	te)	
	(Signature)	(Print Name & Tit	Le)		(Da	te)	



SDG NARRATIVE

USEPA
SDG # MYE531
CASE # 51817
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4570
MODIFIED ANALYSIS #3225.1, 3226.1

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 10/25/2024

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: 18.1°C, 18.3°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.



284 Sheffield Street Mountainside, NJ 07092

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) =
$$C \times Vf \times VF$$

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 MYE531 For Arsenic:

If
$$C = 0.2279424 \text{ ppm}$$

Vf = 100 ml

W = 1.24 g

S = 0.96(96.0/100)

DF = 2

Concentration (mg/kg) =
$$0.2279424 \text{ x} \frac{100}{1.24 \text{ x } 0.96} \text{x } 2$$

$$= 38.29677 \text{ mg/kg}$$

= 38 mg/kg (Reported Result with Signification)

Calculation for ICP-MS Soil Sample:

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

Concentration (mg/kg) =
$$C \times \frac{Vf}{W \times S} \times DF / 1000$$

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 MYE531 For Arsenic:

If C = 122.87 ppb
Vf = 500 ml
W = 1.24 g
S = 0.96(96.0/100)
DF = 1
Concentration (mg/kg) = 122.87 x
$$\frac{500}{1.24 \times 0.96}$$
 x 1 / 1000
= 51.60870 mg/kg
= 52 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. MS Spike sample (MYE531SRE)did meet requirements except for Silver. 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.

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



284 Sheffield Street Mountainside, NJ 07092

1110 airtainistae,	<u> </u>
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: Nimisha Pandya
Date	Title: Document Control Officer

Date: 09/11/2024	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

The purpose of this modified analysis is to prepare samples by EPA Draft Method 3050C (see below) with additional modified LCS and Matrix Spikes and analyze for the scheduled target analytes by ICP-MS. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications

Not applicable

II. Calibration and QC Requirements

Not applicable

The Laboratory shall:

- Use the Method Detection Limits (MDLs) determined for routine soil analyses (i.e., Method 200.8) to report the results for these analyses. The Laboratory is NOT required to perform an MDL study for Draft Method 3050C.
- Prepare and analyze an additional Laboratory Control Sample (LCS) spiked at the CRQL. Percent Recovery limits do NOT apply to this LCS and no corrective actions are required.
- Prepare a Matrix Spike spiked at three times the levels specified in the SOW.
- Prepare and analyze an additional Matrix Spike sample spiked at five times the levels specified for this Modified Analysis (i.e., 15x the levels specified in the SOW).
- Post-Digestion Spike requirements apply to the 5x Matrix Spike only.
- Post-Digestion Spike corrective actions apply to Sb.

III. Preparation and Method Modifications

Not applicable

- Prepare and analyze the sample by EPA Draft Method 3050C as follows:
 - Mix sample thoroughly and transfer 1.00 1.50 g to a digestion vessel.
 - Add 10 mL 1:1 HNO₃ and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10-15 minutes.
 - o Add 5 mL concentrated HNO₃ and reflux for 30 minutes at 95°C (±3°C), repeat until digestion complete.
 - Concentrate sample to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
 - Cool sample, add 2mL water and 3 mL 30% H₂O₂. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H₂O₂ until effervescence is minimal.
 - Reduce volume to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
 - o Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis.
- The same sample extracts can be used for ICP-AES analysis. Separate Matrix Spikes and LCS will need to be prepared for both ICP-AES and ICP-MS analyses.
- Analyze the samples starting at an initial 5x dilution. Subsequently, dilute samples as necessary
 to bring the analyte concentrations within the calibration range of the instrument per the SOW.
- Method Blanks, both LCSs, and all instrument QC are to be analyzed undiluted.

IV. Special Reporting Requirements

Not applicable

- 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

The purpose of this modified analysis is to prepare samples by EPA Draft Method 3050C (see below) with additional modified LCS and Matrix Spikes and analyze for the scheduled target analytes by ICP-AES. Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications

Not applicable

II. Calibration and QC Requirements

Not applicable

The Laboratory shall:

- Use the Method Detection Limits determined for routine soil analyses (i.e., Method 3050B) to report the results for these analyses. The Laboratory is NOT required to perform an MDL study for Draft Method 3050C.
- Prepare and analyze an additional Laboratory Control Sample (LCS) spiked at the CRQL. Percent Recovery limits do NOT apply to this LCS and no corrective actions are required.
- Prepare a Matrix Spike spiked at two times the levels specified in the SOW.
- Post-Digestion Spike requirements apply to the 2x Matrix Spike.
- Post-Digestion Spike corrective actions apply to Sb.

III. Preparation and Method Modifications

Not applicable

- Prepare and analyze the sample by EPA Draft Method 3050C as follows:
 - \circ Mix sample thoroughly and transfer 1.00 1.50 g to a digestion vessel.
 - \circ Add 10 mL 1:1 HNO₃ and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10 -15 minutes.
 - Add 5 mL concentrated HNO₃ and reflux for 30 minutes at 95°C (±3°C), repeat until digestion complete.
 - Concentrate sample to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
 - \circ Cool sample, add 2mL water and 3 mL 30% H₂O₂. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H₂O₂ until effervescence is minimal.
 - Reduce volume to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).
 - Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis.
- The same sample extracts can also be used for ICP-MS analysis. Separate Matrix Spikes and LCS will need to be prepared for both ICP-AES and ICP-MS analyses.
- Analyze the samples starting at an initial 2x dilution. Subsequently, dilute samples as necessary to bring the analyte concentrations within the calibration range of the instrument per the SOW.
- Verify that the dilution was adequate to reduce interferents to within the method calibration range. This can optionally be verified by visual verification of the spectrogram or by analysis of a serial dilution. There are other acceptable means to provide assurance, e.g. some software may automatically provide guidance to the analyst.
- Method Blanks, both LCS, and all instrument QC are to be analyzed undiluted.

IV. Special Reporting Requirements

Not applicable

- 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}		1	Fe	-0.000064	0.000000	No
TI 190.856 {477}	\square	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}	Ø	6	Мо	-0.001480	0.000000	No
			Al	-0.000075	0.000000	No
<u> </u>	•••••••••••		Cu	0.001400	0.000000	No
i	***************************************		Fe	0.000030	0.000000	No
		İ	Mn	0.000340	0.000000	No
		***************************************	Ni	0.000630	0.000000	No
Se 196.090 {472}	Ø	3	Fe	-0.000308	0.000000	No
			Mn	0.000470	0.000000	No
		**************************************	Со	-0.000630	0.000000	No
Sb 206.833 {463}	Ø	4	Cr	0.010700	0.000000	No
		İ	V	-0.001168	0.000000	No
		<u> </u>	Мо	-0.002850	0.000000	No
			Ni	-0.000440	0.000000	No
Al 396.152 { 85}	Ø	1	Мо	0.037230	0.000000	No
Ba 493.409 { 68}		None		10.007200	0.000000	1110
Be 234.861 {144}		3	Мо	-0.000320	0.000000	No
		İ	Fe	0.000010	0.000000	No
	**********		Mn	-0.000047	0.000000	No
Cd 214.438 {457}	\boxtimes	1	Fe	0.000047	0.000000	No
Ca 373.690 { 90}		None	1.6	0.000040	0.000000	INO
Cr 267.716 {126}			Mn	0.000160	0.000000	No
Co 228.616 {448}		1				
CU 220.010 (446)		2	Ti	0.001840	0.000000	No
Cu 324.754 {104}		A	Mo	-0.001230	0.000000	No
Cu 324.734 {104}		4	Co	-0.000796	0.000000	No
			Fe	-0.000100	0.000000	No
		<u> </u>	Mn	0.000345	0.000000	No
F- 050 007 (400)			Ni	0.000895	0.000000	No
Fe 259.837 {130}		None				
Mn 257.610 {131}	<u> </u>	1	Ni	0.000897	0.000000	No
Mg 279.079 {121}		None				
Ni 231.604 {446}		None				
Ag 328.068 {103}		3 [Fe	-0.000100	0.000000	No
			Mn	0.000146	0.000000	No
			V	-0.000889	0.000000	No
Na 818.326 { 41}		None			į	Į
V 292.402 {115}		2	Мо	-0.008480	0.000000	No
	<u></u>		Cr	-0.002220	0.000000	No
Zn 206.200 {464}		None				
Zn 213.856 {158}		1 [Ni	0.007280	0.000000	No
< 769.896 { 44}		None				
P 177.495 {490}		2	Ni	0.001640	0.000000	No
		i	Cu	-0.012530	0.000000	No
3 249.678 {135}		3	Со	0.002880	0.000000	No
	<u> </u>		V	-0.002000	0.000000	No
	Ī	·····	Fe	-0.001360	0.000000	No
Ло 202.030 {467}		None				
§ 182.034 {485}	A	2	Мо	-0.008000	0.000000	No
			Mn	0.002700	0.000000	No

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



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/28/2024

OVENTEMP IN Celsius(°C): 107 OVENTEMP OUT Celsius(°C): 103

Time IN: 14:55 Time OUT: 07:38

In Date: 10/27/2024 Out Date: 10/28/2024

Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

QC:LB133155

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
P4570-01	MYE531	1	1.14	8.58	9.72	9.38	96.0	
P4570-02	MYE531D	2	1.14	8.58	9.72	9.38	96.0	
P4570-03	MYE531S	3	1.14	8.58	9.72	9.38	96.0	
P4570-04	MYE537	4	1.18	8.49	9.67	9.31	95.8	
P4570-05	MYE538	5	1.15	8.46	9.61	8.85	91.0	
P4570-06	MYE539	6	1.15	8.54	9.69	7.61	75.6	
P4570-07	MYE540	7	1.15	8.77	9.92	9.73	97.8	
P4570-08	MYE541	8	1.15	8.53	9.68	9.62	99.3	
P4570-09	MYE542	9	1.15	8.63	9.78	9.45	96.2	
P4570-10	MYE563	10	1.18	8.44	9.62	9.4	97.4	
P4570-11	MYE564	11	1.18	8.69	9.87	9.63	97.2	
P4570-12	MYE565	12	1.18	8.66	9.84	9.65	97.8	
P4570-13	MYE566	13	1.12	8.77	9.89	9.73	98.2	
P4570-14	MYE567	14	1.12	8.59	9.71	9.48	97.3	
P4570-15	MYE568	15	1.18	8.74	9.92	9.63	96.7	
P4570-16	MYE569	16	1.18	8.40	9.58	9.37	97.5	
P4570-17	MYE570	17	1.15	8.69	9.84	9.55	96.7	
P4570-18	MYE571	18	1.15	8.80	9.95	9.68	96.9	
P4570-19	MYE572	19	1.18	8.53	9.71	9.51	97.7	
P4570-20	MYE573	20	1.18	8.75	9.93	9.66	96.9	
P4570-21	MYE574	21	1.12	8.70	9.82	9.35	94.6	
P4570-22	MYE575	22	1.13	8.61	9.74	9.36	95.6	

WORKLIST(Hardcopy Internal Chain)

%1-p4570 WorkList Name:

184838 WorkList ID:

Department: Wet-Chemistry

391581 (N.

Chemtech -SC Chemtech -SC Chemtech -SO Chemtech -SO Chemtech -So 04/24/2024 Chemtech -SO Chemtech -SO Chemtech -SO 04/24/2024 Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO 04/26/2024 Chemtech -SO 04/26/2024 Chemtech -SO Chemtech -SO Date: 10-27-2024 09:32:00 Collect Date Method 04/24/2024 34/24/2024 04/24/2024 04/24/2024 04/24/2024 04/26/2024 04/26/2024 04/26/2024 04/24/2024 04/26/2024 04/26/2024 04/26/2024 04/24/2024 04/26/2024 04/26/2024 04/26/2024 04/26/2024 Raw Sample 10(27/14 Location Storage Q32 Customer USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 JSEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 Cool 4 deg C Preservative Percent Solids Test Matrix Solid 0 7:41 **Customer Sample** MYE531D MYE531S MYE538 MYE531 **MYE539** MYE540 **MYE537** MYE541 MYE542 **MYE563 MYE564 MYE565 MYE566 MYE568 MYE569 MYE572 MYE567** MYE570 MYE571 **MYE573 MYE574** Date/Time 1012 PAY P4570-02 P4570-03 P4570-05 P4570-01 P4570-04 P4570-06 P4570-08 P4570-09 P4570-07 P4570-10 P4570-11 P4570-12 P4570-13 P4570-14 P4570-15 P4570-16 P4570-17 P4570-18 P4570-19 P4570-20 Sample P4570-21

Raw Sample Relinquished by: Raw Sample Received by:

Date/Time

Page 1 of 2

2003 OF

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 184838 %1-p4570 WorkList Name:

Department: Wet-Chemistry

Date: 10-27-2024 09:32:00

Collect Date Method

Raw Sample

Storage Location

Customer

Preservative

Test

Matrix

Customer Sample

Sample

04/26/2024 Chemtech -SO

Q32

USEP01

Cool 4 deg C

Percent Solids

Solid

MYE575

P4570-22

JS1881 (A)

Date/Time 10(4+124

Raw Sample Received by:

Raw Sample Relinquished by:

Upon 10th

Page 2 of 2

10/24/24 14/20

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by: