SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011 Lab Code: Case No.: 51847 SDG No.: ME28W7 MA No.: SOW No. : SFAM01.1 Analysis Method EPA Sample No. Lab Sample Id ICP-AES ICP-MS Mercury Cyanide ME28W7 P5259-01 Χ Χ Χ ME28W8 P5259-02 Χ Χ Χ Χ ME28W9 P5259-03 Χ Χ Χ Χ ME28X0 P5259-04 Χ Χ ME28X0D P5259-05 Χ Χ Χ ME28X0S P5259-06 Χ Χ Χ Χ ME28X1 P5259-07 Χ Χ Χ Χ P5259-08 ME28X2 Χ Χ Χ Χ ME28X3 P5259-09 Χ Χ Χ Χ ME28X4 P5259-10 Χ Χ Χ Χ Χ Χ Χ ME28X5 P5259-11 Χ ME28X6 P5259-12 Χ Χ Χ Χ ME28X7 P5259-13 Χ Χ Χ Χ ME28X8 Χ Χ Χ Χ P5259-14 ME28X9 P5259-15 Χ Χ Χ ME28Y0 P5259-16 Χ Χ Χ Χ ME28Y1 P5259-17 Χ Χ Χ Χ P5259-18 ME28Y2 Χ Χ Χ Χ ME28Y3 P5259-19 Χ Χ Χ Χ ME28Y4 P5259-20 Χ Χ Χ ME28Y5 P5259-21 Χ Χ Χ Χ

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:

Page 2 of 2

DateShipped: 12/10/2024 USEPA CLP COC (LAB COPY)

CarrierName: UPS

AirbillNo: 1Z93947Y0123063362

CHAIN OF CUSTODY RECORD

Case #: 51847 Cooler #: 9

No: 5-121024-134229-0304

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

by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	Sample Identifier IA13AST14-0-0.5	Sample No.	Matrix/Sampler Soil/	Method Grab	Analysis/Turnaround (Days) Semivolatiles, PAHs+PCP	Tag/Preservative/Bottles 2931, 4615, 4617 (MeOH)	<u> </u>	Location	
ME28W1 Soil/ Grab ICP-MS/AES+HG+CN(21)	IA13AST14-0-0.5	E28W8	Soil/	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	2931, 4615, 4617 (MeOH), 4618, 4619 (6)	7 (MeOH), 9 (6)	7 (MeOH), IA-13-AST-14 9 (6)	
- ME28W2 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W3 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W4 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W5 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W7 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21)	IA13AST10-0.0.5	ME28W1	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4581 (1)		IA-13-AST-10	
ME28W3 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W4 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W5 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W6 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W7 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21)	MS/MSD	ME28W2	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4586 (2)	2) IA-13-AST-10	
ME28W4 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W5 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W6 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W7 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21)	IA13AST11-0-0.5	ME28W3	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4591 (=	i) iA-13-AST-11	
ME28W5 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W6 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W7 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21)	AST-24-100	ME28W4	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4596 (1			
ME28W6 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W7 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21)	IA13AST12-0-0.5	ME28W5	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4601 (1			IA-13-AST-12
ME28W7 Soil/ Grab ICP-MS/AES+HG+CN(21) ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21)	AST-24-101	ME28W6	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4606 (1)		AST-24-101	AST-24-101
ME28W8 Soil/ Grab ICP-MS/AES+HG+CN(21)	IA13AST13-0-0.5	ME28W7	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4611 (1)		IA-13-AST-13	IA-13-AST-13
	IA13AST14-0-0.5	ME28W8	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4616 (1) IA-13-AST-14	

Analysis Key: ARO+PEST=Aroclors + Pesticides, VOA=Volatiles, ARO=Aroclors, ICP-MS/AES+HG+CN=ICP-AES/MS (5-10, 11+)+HG+CN Special Instructions: Please return cooler with enclosed airbill (1Z93947Y0313165071). Samples Transferred From Chain of Custody # Shipment for Case Complete? N.

Items/Reason	Items/Reason Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Come Lynn, Plexus	h1/0/14	Sas	12/0/24	12/10/24 good, at tems
			2	12-11-24 22.0	3.2.7
				9.	which chase phantes
					The Williams

Page 2 of 2

USEPA CLP COC (LAB COPY)

DateShipped: 12/10/2024 CarrierName: UPS

AirbillNo: 1Z93947Y0132068377

CHAIN OF CUSTODY RECORD

Case #: 51847 Cooler #: 10

No: 5-121024-150753-0305

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

Analysis Key: ARO=Arodors, VOA=Volatiles, ARO+PEST=Arodors + Pesticides, ICP-MS/AES+HG+CN=ICP-AES/MS (5-10, 11+)+HG+CN Special Instructions: Please return cooler with enclosed airbill (1Z93947Y0315897483). Samples Transferred From Chain of Custody # Shipment for Case Complete? N

Items/Reason	Relinquished by (Signature and Organization)	ature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Date/Time Sample Condition Upon Receipt
	Com Lyno, Plexus	Plexus	12/10/24	Sdh	14/10/14	14/1024 youl, at tome
	, ,			2	12-11-24 2-01	2.0.0
					100	はなら世
						custody seals interes
						たるがいいかいます

USEPA CLP COC (LAB COPY)

DateShipped: 12/11/2024 CarrierName: UPS AirbillNo: 1Z93947Y0129690585

CHAIN OF CUSTODY RECORD

Case #: 51847 Cooler #: 11

No: 5-121124-101707-0306

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 Use Only
IA11MW06-0-0.5	E28Y4	Soil/	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	2931, 4695, 4697 (MeOH), 4698, 4699 (6)	IA-11-MW-06	12/11/2024 08:50	
IA11MW06-0.5-2	E28Y5	Soil/	Grab	Semivolatiles, PAHs+PCP by SIM (TAT 21 Days)(21), ARO(21), VOA(21)	2931, 4700, 4702 (MeOH), 4703, 4704 (6)	IA-11-MW-06	12/11/2024 09:10	
A11MW05-0.5-2	ME28X7	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4661 (1)	IA-11-MW-05	12/10/2024 12:00	1
IA11MW05-27-28	ME28X8	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4666 (1)	IA-11-MW-05	12/10/2024 12:40	10
IA15AST23-0-0.5	ME28X9	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4671 (1)	IA-15-AST-23	12/10/2024 14:20 3	دي
IA15AST24-0-0.5	ME28YO	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4676 (1)	IA-15-AST-24	12/10/2024 14:25	5
IA15AST25-0-0.5	ME28Y1	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4681 (1)	IA-15-AST-25	12/10/2024 14:50	ال
A15AST26-0-0.5	ME28Y2	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4686 (1)	IA-15-AST-26	12/10/2024 15:20	6
IA15AST27-0-0.5	ME28Y3	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4691 (1)	IA-15-AST-27	12/10/2024 15:40	¥
IA11MW06-0-0.5	ME28Y4	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4696 (1)	IA-11-MW-06	12/11/2024 08:50	49
IA11MW06-0.5-2	ME28Y5	Soil/	Grab	ICP-MS/AES+HG+CN(21)	4701 (1)	IA-11-MW-06	12/11/2024 09:10	8

Analysis Key: ARO=Arodors, VOA=Volatiles, ARO+PEST=Arodors + Pesticides, ICP-MS/AES+HG+CN=ICP-AES/MS (5-10, 11+)+HG+CN	Special Instructions: Please return cooler with enclosed airbill (1Z93947Y0316945697).	Shipm
CN	amples Transferred From Chain of Custody#	hipment for Case Complete? N

Items/Reason	ature	Date/Time		Received by (Signature and	Received by (Signature and Organization)
	Com lynn 1 1-10 gurs	L. 111/11	Z		7
)

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name: Alliance Technical Group,	, LLC	Page 1_of 3
Received By (Print Name) Cons	CAUSINON	Log-in Date 12/11/2024
Received By (Signature)		
Case Number 51847	SDG No. ME28W7	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	1Z93947Y0123063362 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.2 Degree C
8. 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	12/11/2024
12.Time Received	10:43

			Correspor	nding]
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	ME28W7	N/A	4611	P5259-01	Intact
2	ME28W8	N/A	4616	P5259-02	Intact
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
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	V/A	N/A	N/A
22	N/A	N/A	V/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		Logbook No.	N/A
Date	12/12/24	Logbook Page No.	N/A

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name: Alliance Technical Group	Page_2_of3	
Received By (Print Name) Gold	SE 1 DECUDIA	Log-in Date 12/11/2024
Received By (Signature)		
Case Number 51847	SDG No. ME28W7	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	1Z93947Y0132068377 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.0 Degree C
8. 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	12/11/2024
12.Time Received	10:43

			Correspon	ding	<u></u>
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	ME28W9	N/A	4621	P5259-03	Intact
2	ME28X0	N/A	4626	P5259-04	Intact
3	ME28X0D	N/A	4626	P5259-05	Intact
4	ME28X0S	N/A	4626	P5259-06	Intact
5	ME28X1	N/A	4631	P5259-07	Intact
6	ME28X2	N/A	4636	P5259-08	Intact
7	ME28X3	N/A	4641	P5259-09	Intact
8	ME28X4	N/A	4646	P5259-10	Intact
9	ME28X5	N/A	4651	P5259-11	Intact
10	ME28X6	N/A	4656	P5259-12	Intact
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 I	N/A	N/A	N/A
21	N/A	N/A I	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		Logbook No.	N/A
Date	12/12/24	Logbook Page No.	N/A

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group		Page 3 of 5			
Received By (Print Name)	va Cire	Log-in Date 12/12/2024			
Received By (Signature)					
Case Number 51847	SDG No. ME28W7	MA No. N/A			

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	n/a
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	1Z93947Y0129690585 3
Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.4 Degree C
8. 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	12/12/2024
12.Time Received	11:00

	1	1			
			Correspondi	ng	Pemarks
		Aqueous Water	,		Remarks: Condition of Sample
	EPA Sample #	Sample pH	Sample Tag #	Assigned Lab #	Shipment, etc.
1	ME28X7	N/A	4661	P5259-13	Intact
2	ME28X8	N/A	4666	P5259-14	Intact
3	ME28X9	N/A	4671	P5259-15	Intact
4	ME28Y0	N/A	4676	P5259-16	Intact
5	ME28Y1	N/A	4681	P5259-17	Intact
6	ME28Y2	N/A	4686	P5259-18	Intact
7	ME28Y3	N/A	4691	P5259-19	Intact
8	ME28Y4	N/A	4696	P5259-20	Intact
9	ME28Y5	N/A	4701	P5259-21	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 I	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 I	V/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A	
Date	12/2/24	Logbook Page No.	N/A	

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

LAB NAME	Alliance Tech	nical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51847	SDG NO.	ME28W7	
MA NO.		SOW NO.	SFAM01.1	

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

	PAGE FROM	NOs: TO	CH LAB	ECK REGION
		TO	LAB	REGION
	1			
	1			
1. SDG Cover Page		1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	4	✓	
3. Sample Log-In Sheet (DC-1)	5	7	✓	
4. CSF Inventory Sheet (DC-2)	8	10	✓	
5. SDG Narrative	11	15	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	16	17	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	18	36	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	37	770	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	771	920	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	921	922	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	923	944	_	
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	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	945	963	✓	
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	964	2163	✓	
Other Data				
19. Standard and Reagent Preparation Logs	2164	2298	_ ✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	2299	2300	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2301	2317	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA_	✓	

	PAGE	NOs:	СН	CHECK	
	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	2318	2336			
or sample analysis, laboratory QC as applicable 27. Instrument raw data by instrument in analysis order	2337	2339			
Other Data					
28. Standard and Reagent Preparation Logs	2340	2364	✓		
29. Original Preparation and Cleanup forms or copies of Preparation and	2365	2366		<u> </u>	
Cleanup Logbooks 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	2367	2370			
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	2371	2389			
or sample analysis, laboratory QC as applicable 36. Instrument raw data by instrument in analysis order	2390	2392			
Other Data					
37. Standard and Reagent Preparation Logs	2393	2422	✓		
38. Original Preparation and Cleanup forms or copies of Preparation and	2423	2424	✓		
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	2425	2426	✓		
Instrument Logbooks 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	✓		
43 . Raw Florisil Data	NA	NA	✓		

Form DC-2 - 2

	PAGE	NOs:	CH	CHECK	
	FROM	TO	LAB	REGION	
Additional					
44. EPA Shipping/Receiving Documents					
Airbill (No. of Shipments3)	2427	2429	_ ✓		
Sample Tags	NA	NA	✓		
Sample Log-In Sheet (Lab)	2430	2433	✓		
45. Misc. Shipping/Receiving Records(list all individual records	<u></u>				
	NA	NA	✓		
46. Internal Lab Sample Transfer Records and Tracking Sheets					
(describe or list)					
	2434	2437			
				_	
47. Other Records and related Communication Logs					
(describe or list)					
	NA	NA_	√		
48. Comments:					
Completed by:					
	andya, Document Contro	ol Officer	_		
(Signature) (Print N Audited by:	ame & Title)		(Da	te)	
(EPA)					
(Signature) (Print N	ame & Title)		(Da	te)	



SDG NARRATIVE

USEPA
SDG # ME28W7
CASE # 51847
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P5259

A. Number of Samples and Date of Receipt

19 Soil samples were delivered to the laboratory intact on 12/11/2024, 12/12/2024.

B. Parameters

Test requested for Metals CLP12 = Aluminum, Calcium, Iron, Magnesium, Potassium, Sodium & Mercury, Cyanide.

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

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.2°C, 2.0°C, 2.4°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 ME28W7 For Aluminum :

If C = 93.17755 ppm
Vf = 100 ml
W = 1.12g
S = 0.792 (79.2/100)
DF = 1
Concentration (mg/kg) = 93.17755 x
$$\frac{100}{1.12 \times 0.792}$$
 x 1

= 10504.32 mg/kg

= 11000 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) =
$$C \times Vf \times DF / 1000$$

 $W \times S$

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 ME28W7 For Arsenic:

If C = 12.73 ppb
Vf = 500 ml
W = 1.02 g
S = 0.792 (79.2/100)
DF = 1
Concentration (mg/kg) = 12.73 x
$$\frac{500}{1.02 \times 0.792}$$
 x 1 / 1000
= 7.8790 mg/kg
= 7.9 mg/kg (Reported Result with Signification)

Calculation for Hg 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 response in μ g/L from the calibration curve.

Vf = Final prepared (absorbing solution) 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 ME28W7:

If C = 0.7255 ppb
Vf = 100 mL
W = 0.51g
S = 0.792(79.2/100)
DF = 1
Concentration (mg/kg) =
$$0.7255 \times \frac{100}{0.51 \times 0.792} \times 1/1000$$

= 0.1796 mg/kg
= 0.18 mg/kg (Reported Result with Signification)



Calculation for CN 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 response in μ g/L CN from the calibration curve.

Vf = Final prepared (absorbing solution) 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 ME28W8:

If C =
$$33.6234$$
 ppb
Vf = 50 ml
W = 1.04 g
S = $0.784(78.4/100)$
DF = 1

Concentration (mg/kg) =
$$33.6234 \text{ x} \frac{50}{1.04 \text{ x} 0.784} \text{ x } 1 / 1000$$

= 2.0618 mg/kg

= 2.1 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, Cadmium, Selenium, Thallium. 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			
Lead	209Bi			
Manganese	45Sc			
Nickel	45Sc			
Selenium	89Y			
Silver	159Tb			
Thallium	209Bi			
Vanadium	45Sc			
Zinc	45Sc			

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Signature	Name: Nimisha Pandya
Date	Title: Document Control Officer



OVENTEMP IN Celsius(°C): 107

Weight Check 1.0g: 1.00

Weight Check 10g: 10.00

Time IN: 13:10

In Date: 12/13/2024

OvenID: M OVEN#1

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/16/2024

OVENTEMP OUT Celsius(°C): 103

Time OUT: 07:34

Out Date: 12/14/2024

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

Thermometer ID: FLASHPOINT

oc:LB133939

QC:LB1339	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P5259-01	ME28W7	1	1.15	8.64	9.79	7.99	79.2	
P5259-02	ME28W8	2	1.18	8.55	9.73	7.88	78.4	
P5259-03	ME28W9	3	1.16	8.50	9.66	8.02	80.7	
P5259-04	ME28X0	4	1.18	8.69	9.87	7.98	78.3	
P5259-05	ME28X0D	5	1.18	8.69	9.87	7.98	78.3	
P5259-06	ME28X0S	6	1.18	8.69	9.87	7.98	78.3	
P5259-07	ME28X1	7	1.13	8.86	9.99	8.52	83.4	
P5259-08	ME28X2	8	1.12	8.82	9.94	8.03	78.3	
P5259-09	ME28X3	9	1.14	8.84	9.98	8.31	81.1	
P5259-10	ME28X4	10	1.19	8.67	9.86	8.3	82.0	
P5259-11	ME28X5	11	1.18	8.53	9.71	7.9	78.8	
P5259-12	ME28X6	12	1.16	8.48	9.64	7.88	79.2	
P5259-13	ME28X7	13	1.17	8.37	9.54	8.57	88.4	
P5259-14	ME28X8	14	1.18	8.59	9.77	8.72	87.8	
P5259-15	ME28X9	15	1.18	8.39	9.57	7.64	77.0	
P5259-16	ME28Y0	16	1.18	8.47	9.65	7.9	79.3	
P5259-17	ME28Y1	17	1.18	8.72	9.9	8.00	78.2	
P5259-18	ME28Y2	18	1.16	8.49	9.65	7.9	79.4	
P5259-19	ME28Y3	19	1.18	8.74	9.92	8.43	83.0	
P5259-20	ME28Y4	20	1.16	8.45	9.61	8.08	81.9	
P5259-21	ME28Y5	21	1.18	8.37	9.55	8.28	84.8	

WorkList Name:

Sample

Chemtech -SO 12/10/2024 Chemtech -SO Chemtech -SO Chemtech -SC Chemtech -SO Chemtech -SC 12/10/2024 Chemtech -SO Chemtech -SO Chemtech -SO 12/10/2024 Chemtech -SO Chemtech -SO Chemtech -SO 12/10/2024 Chemtech -SO Chemtech -SO Chemtech -SO 12/10/2024 Chemtech -SO Chemtech -SO Date: 12-13-2024 10:15:27 Collect Date Method 12/10/2024 12/10/2024 2/10/2024 12/10/2024 12/10/2024 12/10/2024 12/10/2024 12/10/2024 12/10/2024 12/10/2024 12/10/2024 12/10/2024 babea4) Raw Sample Storage Location 33 531 33 33 33 **C31** 531 33 33 **C31** 33 င္သ 33 င္သ 33 3 **C31** USEP01 USEP01 USEP01 USEP01 Customer USEP01 Department: Wet-Chemistry WORKLIST(Hardcopy Internal Chain) Cool 4 deg C Preservative Percent Solids 186315 Test WorkList ID: Matrix Solid Customer Sample ME28X0S ME28X0D ME28W8 ME28W9 ME28X1 ME28X7 ME28W7 %1-p5259 ME28X0 ME28X4 ME28X5 ME28Y0 ME28Y2 ME28X2 ME28X3 ME28X6 ME28X8 ME28X9 ME28Y1 P5259-02 P5259-05 P5259-15 P5259-16 P5259-03 P5259-04 P5259-06 P5259-08 P5259-10 P5259-12 P5259-13 P5259-14 P5259-18 P5259-01 P5259-07 P5259-09 P5259-11 P5259-17

12-1374 Raw Sample Received by: Date/Time

Raw Sample Relinquished by:

01:10

Date/Time 12-24 Raw Sample Received by:

Raw Sample Relinquished by:

3

Chemtech -SO

12/10/2024

C31 C31 33

USEP01 USEP01 USEP01 USEP01

Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C

> Percent Solids Percent Solids

Solid

ME28Y3

P5259-19

ME28Y4

P5259-20 P5259-21

Percent Solids

Solid Solid

ME28Y5

12/10/2024 Chemtech -SO

Chemtech -SO

12/11/2024

12/11/2024 Chemtech -SO

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