SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51900 MA No.: 3114.1 SDG No.: ME29C5

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
ME29C5	Q1339-01		X	X	X
ME29C7	Q1339-02		X	X	
ME29C6	Q1339-03		X	X	X
ME29C9	Q1339-04		X	X	
ME29D1	Q1339-05		X	X	X
ME29D2	Q1339-06		X	X	X
ME29D4	Q1339-07		X	X	
ME29D2D	Q1339-08		X	X	X
ME29D2S	Q1339-09		X	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: _____

68HERH20D0011 SDG # ME29C5

USEPA CLP COC (LAB COPY)
DateShipped: 2/5/2025
CarrierName: UPS
AirbillNo: 1Z93947Y0125694696

CHAIN OF CUSTODY RECORD

Case #: 51900
Cooler #: 48

No: 5-020425-125921-0383
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 312-353-9083

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-112-25	E29C5	Water/	Grab	SVSIM(21), 1,4-DSIM(21), PEST(21), ARO(21)	5731, 5732, 5733, 5734 (8)	MW-112	02/04/2025 10:20	SDG
A02D	E29C7	Water/	Grab	SVSIM(21), 1,4-DSIM(21), PEST(21), ARO(21)	5752, 5753, 5754, 5755 (4)	A02D	02/04/2025 10:45	LV
MW-112-25	ME29C5	Water/	Grab	CN(21), ICP-MS+HG+HARD(21)	5735 (NaOH), 5736 (HN03) (2)	MW-112	02/04/2025 10:20	
A02D	ME29C7	Water/	Grab	ICP-MS+HG+HARD(21)	5757 (HN03) (1)	A02D	02/04/2025 10:45	

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0321380635). Note reduced volume for sample A02D. Please coordinate with USACE on analyses to be run.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVSIM=Semivolatiles + SIM, 1,4-DSIM=1,4-Dioxane by SIM, PEST=Pesticides, ARO=Aroclors, CN=Cyanide, ICP-MS+HG+HARD=ICP-MS 11+ Metals+HG+Hardness

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Rees	2/5/25 18:30	UPS	2/5/25 18:30	
				2-7-25 1030	IR Gun #1 Temp 2.6°C
					custody seal intact Temp blank present

68HERH20D0011 SDG # ME29C5

USEPA CLP COC (LAB COPY)
DateShipped: 2/5/2025
CarrierName: UPS
AirbillNo: 1Z93947Y0120587301

CHAIN OF CUSTODY RECORD

Case #: 51900
Cooler #: 49

No: 5-020425-155340-0384
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 312-353-9083

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MW-104-25	E29C6	Water/	Grab	SVSIM(21), 1,4-DSIM(21), PEST(21), ARO(21)	5745, 5746, 5747, 5748 (8)	MW-104	02/04/2025 10:35	
IA-11-MW-06S	E29C9	Water/	Grab	SVSIM(21), 1,4-DSIM(21), PEST(21), ARO(21)	5766, 5767, 5768, 5769 (3)	IA-11-MW-06S	02/04/2025 15:20	LV
MW-104-25	ME29C6	Water/	Grab	CN(21), ICP-MS+HG+HARD(21)	5749 (NaOH), 5750 (HN03) (2)	MW-104	02/04/2025 10:35	
IA-11-MW-06S	ME29C9	Water/	Grab	ICP-MS+HG+HARD(21)	5771 (HN03) (1)	IA-11-MW-06S	02/04/2025 15:20	

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0336090046). Note reduced volume for sample IA-11-MW-06S. Please coordinate with USACE on analyses to be run.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVSIM=Semivolatiles + SIM, 1,4-DSIM=1,4-Dioxane by SIM, PEST=Pesticides, ARO=Aroclors, CN=Cyanide, ICP-MS+HG+HARD=ICP-MS 11+ Metals+HG+Hardness

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Alexis	2/5/25 18:30	UPS	2/5/25 18:30	
				2.7.2025 10:30 am	I.R Gun # 1 Temp 3.0°c
					Custody seal intact Temp BIL present

68HERH20D0011 SDG # ME29C5

USEPA CLP COC (LAB COPY)

DateShipped: 2/5/2025
CarrierName: UPS
AirbillNo: 1Z93947Y0133664122

CHAIN OF CUSTODY RECORD

Case #: 51900
Cooler #: 51

No: 5-020525-115932-0389

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 312-353-9083

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
A01UR-25	E29D1	Water/	Grab	SVSIM(21), 1,4-DSIM(21), PEST(21), ARO(21)	5780, 5781, 5782, 5783 (6)	A01UR	02/05/2025 10:00	
MW-114R	E29D2	Water/	Grab	SVSIM(21), 1,4-DSIM(21), PEST(21), ARO(21)	5787, 5788, 5789, 5790 (8)	MW-114R	02/05/2025 10:20	
A01UR-25	ME29D1	Water/	Grab	CN(21), ICP-MS+HG+HARD(21)	5784 (NaOH), 5785 (HN03) (2)	A01UR	02/05/2025 10:00	
MW-114R	ME29D2	Water/	Grab	CN(21), ICP-MS+HG+HARD(21)	5791 (NaOH), 5792 (HN03) (2)	MW-114R	02/05/2025 10:20	

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0331185471). Note reduced volume for sample A01UR. Please coordinate with USACE on analyses to be run.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVSIM=Semivolatiles + SIM, 1,4-DSIM=1,4-Dioxane by SIM, PEST=Pesticides, ARO=Aroclors, CN=Cyanide, ICP-MS+HG+HARD=ICP-MS 11+ Metals+HG+Hardness

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Alexis	2/5/25 18:30	UPS	2/5/25 18:30	—
				10:30 2-7-25	IR Gun #1 2.6°C Custody Seal Intact Temp Blank present

USEPA CLP COC (LAB COPY)
DateShipped: 2/6/2025
CarrierName: UPS
AirbillNo: 1Z93947Y0135976336

CHAIN OF CUSTODY RECORD

Case #: 51900
Cooler #: 53

No: 5-020525-162119-0392
Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 312-353-9083

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
GMW5	E29D4	Water/	Grab	SVSIM(21), 1,4-DSIM(21), PEST(21), ARO(21)	5808, 5809, 5810, 5811 (8)	GMW5	02/05/2025 15:05	
GMW5	ME29D4	Water/	Grab	ICP-MS+HG+HARD(21)	5813 (HN03) (1)	GMW5	02/05/2025 15:05	

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0330219687).

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: SVSIM=Semivolatiles + SIM, 1,4-DSIM=1,4-Dioxane by SIM, PEST=Pesticides, ARO=Aroclors, ICP-MS+HG+HARD=ICP-MS 11+ Metals+HG+Hardness

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Alexis	2/6/25 12:30	UPS	2/6/25 12:30	—
—				10:30 2-7-25	Ice Can # 1 2.3 Custody Seal Intact Temp Blank present

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 4
Received By (Print Name) Gagandeep Kaur		Log-in Date 2/7/2025
Received By (Signature)		
Case Number 51900	SDG No. ME29C5	MA No. 3114.1

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.	1Z93947Y0125694696 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.6 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	02/07/2025
12.Time Received	10:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	ME29C5	1.0,12	5735,36	Q1339-01	Intact
2	ME29C7	1.0	5757	Q1339-02	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	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	2/11/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 2 of 4
Received By (Print Name) Roxanna Ruiz		Log-in Date 2/7/2025
Received By (Signature)		
Case Number 51900	SDG No. ME29C5	MA No. 3114.1

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.	1Z93947Y0120587301 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	3.0 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	02/07/2025
12.Time Received	10:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	ME29C6	1.0,12	5749,50	Q1339-03	Intact
2	ME29C9	1.0	5771	Q1339-04	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	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	2/11/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 3 of 4
Received By (Print Name)		Log-in Date 2/7/2025
Received By (Signature)		
Case Number 51900	SDG No. ME29C5	MA No. 3114.1

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.	1Z93947Y0133664122 3
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.6 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	02/07/2025
12. Time Received	10:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	ME29D1	1.0,12	5784,85	Q1339-05	Intact
2	ME29D2	1.0,12	5791,92	Q1339-06	Intact
3	ME29D2D	1.0,12	5791,92	Q1339-08	Intact
4	ME29D2S	1.0,12	5791,92	Q1339-09	Intact
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	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	2/11/25	Logbook Page No.	N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 4 of 4
Received By (Print Name) [illegible]		Log-in Date 2/7/2025
Received By (Signature)		
Case Number 51900	SDG No. ME29C5	MA No. 3114.1

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.	1Z93947Y0135976336 4
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	02/07/2025
12.Time Received	10:30

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	ME29D4	1.0	5813	Q1339-07	Intact
2	N/A	N/A	N/A	N/A	N/A
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	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	[signature]	Logbook No.	N/A
Date	2/11/25	Logbook Page No.	N/A

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

LAB NAME	**Alliance Technical Group, LLC**		
LAB CODE	**ACE**		
CONTRACT NO.	**68HERH20D0011**		
CASE NO.	**51900**	SDG NO.	**ME29C5**
MA NO.	**3114.1**	SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	5	✓	
3. Sample Log-In Sheet (DC-1)	6	9	✓	
4. CSF Inventory Sheet (DC-2)	10	12	✓	
5. SDG Narrative	13	17	✓	
6. Communication Logs	18	19	✓	
7. Percent Solids Log	NA	NA	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	
Other Data				
10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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 or sample analysis, laboratory QC as applicable	20	26	✓	
18. Instrument raw data by instrument in analysis order	27	366	✓	
Other Data				
19. Standard and Reagent Preparation Logs	367	507	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	508	509	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	510	512	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK 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 or sample analysis, laboratory QC as applicable	513	519	✓	
27. Instrument raw data by instrument in analysis order	520	522	✓	
Other Data				
28. Standard and Reagent Preparation Logs	523	550	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	551	552	✓	
30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	553	556	✓	
31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
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 or sample analysis, laboratory QC as applicable	557	560	✓	
36. Instrument raw data by instrument in analysis order	561	563	✓	
Other Data				
37. Standard and Reagent Preparation Logs	564	592	✓	
38. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	593	594	✓	
39. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	595	596	✓	
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	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 4)	597	600	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	601	602	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	603	606	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by:
(CLP Lab)

(Signature)	Nimisha Pandya, Document Control Officer (Print Name & Title)	(Date)

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME29C5
CASE # 51900
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # Q1339
MODIFIED ANALYSIS # 3114.1

A. Number of Samples and Date of Receipt

07 Water samples were delivered to the laboratory intact on 02/07/2025.

B. Parameters

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Hardness, Total, Mercury, Cyanide.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.6^{o}C, 3.0^{o}C, 2.3^{o}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.

Issue 2: Laboratory QC is required for SDG ME29C5 for ICP-MS, Hg, and CN analysis for water samples, but a sample was not designated for Laboratory QC on the COC. The laboratory selected sample ME29D2 for Laboratory QC and confirmed the sample is not a blank, rinsate or PT sample.

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.

Resolution 2: Per SOW SFAM01.1 Exhibit A, Section 5.5.4.1, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

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F. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

G. Calculation:

Calculation for ICP-MS Water Sample:

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample ME29C5 For Arsenic:

If C = 2.27 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result } (\mu g/L) = 2.27 \times \frac{50}{50} \times 1$$

$$= 2.27\ \mu g/L$$

$$= 2.3\ \mu g/L \text{ (Reported Result with Signification)}$$

Calculation for Hg Water Sample:

$$\text{Concentration or Result } (\mu g/L) = C \times DF$$

Where,

C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

Example Calculation For ME29C6 :

If C = 0.0246 ppb
DF = 1

$$\text{Concentration or Result } (\mu g/L) = 0.0246 \times 1$$

$$= 0.0246\ \mu g/L$$

$$= 0.025\ \mu g/L \text{ (Reported Result with Signification)}$$

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Calculation for CN Water Sample:

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument response in µg/L CN from the calibration curve.
Vf = Final prepared (absorbing solution) volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Cyanide:

If C = 4.1106 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

$$\text{Concentration or Result } (\mu g/L) = 4.1106 \times \frac{50}{50} \times 1$$

$$= 4.1106 \ \mu g/L$$

$$= 4.1 \ \mu g/L \text{(Reported Result with Signification)}$$

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 did meet requirements except for Mercury. Duplicate sample did meet requirements except for Manganese, Potassium, Zinc. 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
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y

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

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

Signature_____ Name: Nimisha Pandya

Date _____ Title: Document Control Officer

Date: 08/08/2023	**MA:** 3114.1	**Title:** ICP-MS Analysis with Hardness
Method Source: SFAM01.1	**Method:** ICP-MS	
Matrix: Aqueous/Water		

Summary of Modification

The purpose of this modified analysis is to analyze aqueous/water samples by ICP-MS with the additional calculated analyte Hardness. 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** ☐

Analyte	CAS Number	CRQL (mg/L)
Hardness (total)	Hardness	3.3

II. Calibration and QC Requirements **Not applicable** ☒

III. Preparation and Method Modifications **Not applicable** ☒

IV. Special Reporting Requirements **Not applicable** ☐

The Laboratory shall:

- Report Hardness (total) in units of mg/L on Form 1, calculated from the calcium and magnesium results using Equation 4F in Exhibit G, Section 3.2.
- The instructions for reporting Hardness by ICP-AES apply to these ICP-MS analyses. All applicable AnalyteGroupID and AnalysisGroupID data elements shall be reported. Report AnalyteGroup for Hardness, and any necessary AnalysisGroup nodes.
- Report the reported results for Hardness (total) in the EDD with AnalyteType = “Derived” and ClientAnalyteID = “Hardness” for the field samples, field blanks, and PT samples only.
- 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.
- Report the “J” and “U” qualifiers in accordance with the requirements in Exhibit B, Section 3.4.3.2.4.2, using the modified CRQL.

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Tuesday, February 11, 2025 2:48 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R5RSCC; Bauer, Heather E; Johnson, Matthew; Helen Britz; Moody, Brett; Gambrah, Derrick; patel.bhavita@epa.gov; vargas.magda@epa.gov
Subject: Task Area SST | Region 05 | Case 51900 | Lab ACE | Issue Insufficient/inappropriate designation of laboratory QC | FINAL
Attachments: SKM_95825020710470.pdf

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Secured by Check Point

Good afternoon,

Issue: Laboratory QC is required for SDG ME29C5 for ICP-MS, Hg, and CN analysis for water samples, but a sample was not designated for Laboratory QC on the COC. The laboratory selected sample ME29D2 for Laboratory QC and confirmed the sample is not a blank, rinsate or PT sample.
Resolution: Per SOW SFAM01.1 Exhibit A, Section 5.5.4.1, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Please note that the laboratory may contact the appropriate CLP PM should any defects need to be waived for this issue.

Best Regards,
Tasmia Zafar
Associate Environmental Analyst
CLP QSS Coordinator – EPA Regions 5 & 6

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Information Technology

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Tuesday, February 11, 2025 9:43 AM

To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Task Area SST | Region 05 | Case 51900 | Lab ACE| Issue Discrepancies with tags, jars, and/or COC/QC

This Message Is From an External Sender

Please use caution with links, attachments, and any requests for credentials.

Good morning,

Lab has open SDG ME29C5 for water sample for ICP-MS,HG,CN without lab QC. However, a sample was not designated for Laboratory QC. Lab like to use samples ME29D2 for Lab QC. these samples are not blanks, rinsates or PE samples.

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
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