

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51900 MA No.: 3114.1 SDG No.: ME2948
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method			
		ICP-AES	ICP-MS	Mercury	Cyanide
ME2948	Q1186-01		X	X	X
ME2949	Q1186-02		X	X	X
ME2955	Q1186-03		X	X	X
ME2956	Q1186-04		X	X	X
ME2957	Q1186-05		X	X	X
ME2960	Q1186-06		X	X	X
ME2961	Q1186-07		X	X	X
ME2962	Q1186-08		X	X	X
ME2959	Q1186-09		X	X	X
ME2959D	Q1186-10		X	X	X
ME2959S	Q1186-11		X	X	X
ME2963	Q1186-12		X	X	X
ME2967	Q1186-13		X	X	X
ME2965	Q1186-14		X	X	X
ME2966	Q1186-15		X	X	X
ME2958	Q1186-16		X	X	X
ME2968	Q1186-17		X	X	X
ME2974	Q1186-18		X	X	X
ME2977	Q1186-19		X	X	X
ME2980	Q1186-20		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: _____

No: 5-012325-094805-0332

Lab Phone: 908-789-8900




[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0301362282).
Reduced volume for 1L amber analyses.

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #	Quantity	Remarks

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
	 J. A. Jones	11/23/22 18:30	 J. A. Jones	11/23/22 19:30	1.3°C
			 J. A. Jones	1-24-25 10:20	1.3°C

No: 5-012325-143944-0335




Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z933947Y0307822318).

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
	 Alex's	11/23/15 14:30	 C.P.S.	11/23/15 14:30	—
			 C.P.S.	10:20 1-24-25	28 Bm #1 1.9 Cody Seal Initial Temo Blank over

28 June 1971
Custody Seal Intact
Temp blank preserved

No: 5-012325-144713-0336

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed



Lab Phone: 908-789-8900

[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0300305925).

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
	 Alex	11/21/25 18:30	 ORS	11/23/25 18:30 1-24-25 1020	1.5°C ILG 6000 # C660046045 70945 Temp 25.12 AU6559d

No: 5-012325-162524-0338

Ab: Alliance Technical Group LLC

Lab Phone: 312-353-9083





[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0316561333).

Shipment for Case Complete? N

[illegible]

Analysis Key: SVSIM=Semi-volatiles + 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
	 Alexs	11/23/25 18:30	 Alexs	11/23/25 18:30	1.1.c
			 Alexs	11/23/25 19:30	1.1.c
			 Alexs	11/23/25 10:20	1.1.c

1-16
FL 6054
COSTA DEL MAR
TEMP. 41.5 - 42.5

No: 5-012425-142235-0340

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed

Lab Phone: 312-353-9083





[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0301443551).

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
	 Alex	11/24/25 18:30	 JCS	11/24/25 18:30	IA Gun #1
	 JCS		 JCS	10:30 1-27-25	Temp 3.3°C
					Temp blank press

No: 5-012425-145035-0342

Lab: Alliance Technical Group LLC
Lab Contact: Mohammad Ahmed

Lab Phone: 312-353-9083



[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947Y0309380971).

Shipment for Case Complete? N

Samples Transferred From Chain of Custody

Analysis Key: SVSIN=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
	 J. L. Davis	11/24/15 18:30	UES	11/24/15 19:30	—
				10:30 1-27-25	24 Count / 2.0. Curby Seal Intact
					Turn Blank ves

Temp Blank present

No: 5012425-162446-0345

Lab Phone: 312-353-9083

[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1Z93947V0314155384). Note reduced volume for samples IA-11-MW-03S and IA-02-MW-04. Please coordinate with USACE on analyses to be run.

Analysis Key: SVSIM=Sémi-volatiles + 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

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #	Quantity	Remarks

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
		11/24/25 18:30		11/24/25 18:30	IR Gun #1 Temp 3.0°C
				1030 1-27-25	IR Gun #1 Temp 3.0°C
					IR Study Seal intact Temp blank Preserved

No: 5-012725-113235-0347

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




[illegible]

Special Instructions: Please return cooler with enclosed airbill ASAP (1293947Y0332635385).

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #	Quantity	Remarks

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
	 J. A. Davis	11/21/15 18:30	 J. A. Davis	11/21/15 18:30	—
			 J. A. Davis	10:10 1-28-25	IRGun #1 2.3-5
					Custody Seal Tainted Tone Blank Maser

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>10</u>
Received By (Print Name) <u>Carolina Rie</u>		Log-in Date 1/24/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. 3114.1

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0126599761</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>1.3</u> 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	<u>01/24/2025</u>
12. Time Received	<u>10:20</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2948	1.0,12	5170,71	Q1186-01	Intact
2	ME2949	1.0,12	5177,78	Q1186-02	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/29/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>2</u> of <u>10</u>
Received By (Print Name) <u>Signature Eric</u>		Log-in Date 1/24/2025
Received By (Signature) <u>Signature</u>		
Case Number 51900	SDG No. ME2948	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.	<u>1Z93947Y013335-4396</u> <u>2</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>1.9</u> 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	<u>01/24/2025</u>
12. Time Received	<u>10:20</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2955	1.0,12	5212,13	Q1186-03	Intact
2	ME2956	1.0,12	5219,20	Q1186-04	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 <u>Signature</u>	Logbook No. N/A
Date <u>1/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>3</u> of <u>10</u>
Received By (Print Name) <u>Cassanova</u>		Log-in Date 1/24/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. 3114.1

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0122931005</u> <u>3</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>1.5</u> 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	<u>01/24/2025</u>
12. Time Received	<u>10:20</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2957	1.0,12	5226,27	Q1186-05	Intact
2	ME2960	1.0,12	5247,48	Q1186-06	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>4</u> of <u>10</u>
Received By (Print Name) <u>Cassanova</u>		Log-in Date 1/24/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	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.	<u>1Z93947Y0124276818</u> <u>4</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>1.1</u> 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	<u>01/24/2025</u>
12. Time Received	<u>10:20</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2961	1.0,12	5254,55	Q1186-07	Intact
2	ME2962	1.0,12	5261,62	Q1186-08	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>7/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>5</u> of <u>10</u>
Received By (Print Name) <u>Cassanova Pena</u>		Log-in Date 1/27/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. N/A <u>3114-1</u> <u>at</u>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0120415826</u> <u>5</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.1</u> 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	<u>01/27/2025</u>
12. Time Received	<u>10:30</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2959	0.7,13	5240,41	Q1186-09	Intact
2	ME2959D	0.7,13	5240,41	Q1186-10	Intact
3	ME2959S	0.7,13	5240,41	Q1186-11	Intact
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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>6</u> of <u>10</u>
Received By (Print Name) <u>Gaganava Ravi</u>		Log-in Date 1/27/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. N/A 3114.1 <u>at</u>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0135652033</u> <u>6</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>3.3</u> 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	<u>01/27/2025</u>
12. Time Received	<u>10:30</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2963	0.7,13	5275,76	Q1186-12	Intact
2	ME2967	0.7,13	5303,04	Q1186-13	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>7</u> of <u>10</u>
Received By (Print Name) <u>Agapana Keno</u>		Log-in Date 1/27/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. N/A <u>3114.1 d1</u>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0128632050</u> <u>7</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.0</u> 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	<u>01/27/2025</u>
12. Time Received	<u>10:30</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2965	0.7,13	5289,90	Q1186-14	Intact
2	ME2966	0.7,13	5296,97	Q1186-15	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>8</u> of <u>10</u>
Received By (Print Name) <u>Cassandra Reio</u>		Log-in Date 1/27/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. N/A <u>3114.1</u> <u>ad</u>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0135783866</u> <u>8</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>3.0</u> 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	<u>01/27/2025</u>
12. Time Received	<u>10:30</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2958	0.7,13	5233,34	Q1186-16	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>10</u> of <u>10</u>
Received By (Print Name) <u>George Nesman</u>		Log-in Date 1/28/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. <u>N/A 3114.1</u>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0130563102</u> <u>10</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.6</u> 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	<u>01/28/2025</u>
12. Time Received	<u>10:10</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2977	1.0,12	5354,55	Q1186-19	Intact
2	ME2980	1.0,12	5397,98	Q1186-20	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/28/25</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>9</u> of <u>10</u>
Received By (Print Name) <u>George Wesley</u>		Log-in Date 1/28/2025
Received By (Signature) <u>[Signature]</u>		
Case Number 51900	SDG No. ME2948	MA No. N/A <u>2114-1</u>

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>1Z93947Y0124048878</u> <u>9</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.3</u> 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	<u>01/28/2025</u>
12. Time Received	<u>10:10</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	ME2968	1.0,12	5310,11	Q1186-17	Intact
2	ME2974	1.0,12	5333,34	Q1186-18	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 <u>[Signature]</u>	Logbook No. N/A
Date <u>1/28/25</u>	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.	ME2948
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:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	11	✓	
3. Sample Log-In Sheet (DC-1)	12	21	✓	
4. CSF Inventory Sheet (DC-2)	22	24	✓	
5. SDG Narrative	25	30	✓	
6. Communication Logs	NA	NA	✓	
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	31	48	✓	
18. Instrument raw data by instrument in analysis order	49	1064	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1065	1235	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1236	1237	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1238	1247	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	<u>PAGE NOS:</u>		<u>CHECK</u>	
	<u>FROM</u>	<u>TO</u>	<u>LAB</u>	<u>REGION</u>
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	1248	1265	✓	
27 . Instrument raw data by instrument in analysis order	1266	1268	✓	

Other Data

28 . Standard and Reagent Preparation Logs	1269	1295	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1296	1297	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1298	1301	✓	
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	1302	1319	✓	
36 . Instrument raw data by instrument in analysis order	1320	1324	✓	

Other Data

37 . Standard and Reagent Preparation Logs	1325	1352	✓	
38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1353	1354	✓	
39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1355	1358	✓	
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	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 10)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)

47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)

(Signature)

Nimisha Pandya, Document Control Officer

(Print Name & Title)

(Date)

Audited by:
(EPA)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
1359	1368	✓	
NA	NA	✓	
1369	1371	✓	
NA	NA	✓	
1372	1374	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # ME2948

CASE # 51900

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # Q1186

MODIFIED ANALYSIS # 3114.1

A. Number of Samples and Date of Receipt

18 Water samples were delivered to the laboratory intact on 01/24/2025, 01/27/2025, 01/28/2025.

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: 1.3°C, 1.9°C, 1.5°C, 1.1°C, 2.1°C, 3.3°C, 2.0°C, 3.0°C, 2.6°C, 2.3°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.



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G. Calculation:

Calculation for ICP-MS Water Sample:

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

Where,

C = Instrument value in ppb (The average of all replicate integrations)

V_f = Final digestion volume (mL)

V_i = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor

Example Calculation For Sample ME2948 For Arsenic:

If C = 0.36 ppb

V_f = 50 ml

V_i = 50 ml

DF = 1

$$\text{Concentration or Result } (\mu\text{g/L}) = 0.36 \times \frac{50}{50} \times 1$$

$$= 0.36 \mu\text{g/L}$$

$$= 0.36 \mu\text{g/L (Reported Result with Signification)}$$

Calculation for Hg Water Sample:

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

Where,

C = Instrument response in $\mu\text{g/L}$ from the calibration curve.

DF = Dilution Factor

Example Calculation For Mercury:

If C = 0.033 ppb

DF = 1

$$\text{Concentration or Result } (\mu\text{g/L}) = 0.033 \times 1$$



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$$= 0.033 \mu\text{g/L}$$

$$= 0.033 \mu\text{g/L (Reported Result with Signification)}$$

Calculation for CN Water Sample:

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

Where,

C = Instrument response in $\mu\text{g/L}$ CN from the calibration curve.

V_f = Final prepared (absorbing solution) volume (mL)

V_i = Initial aliquot amount (mL) (Sample amount taken in prep)

DF = Dilution Factor

Example Calculation For Sample ME2955:

$$\text{If } C = 7.1964 \text{ ppb}$$

$$V_f = 50 \text{ ml}$$

$$V_i = 50 \text{ ml}$$

$$\text{DF} = 1$$

$$\text{Concentration or Result } (\mu\text{g/L}) = 7.1964 \times \frac{50}{50} \times 1$$

$$= 7.1964 \mu\text{g/L}$$

$$= 7.2 \mu\text{g/L (Reported Result with Signification)}$$

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 Selenium. Duplicate sample did meet requirements except for Copper. Serial Dilution did meet requirements except for Manganese.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

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.



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Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
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



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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 <input type="checkbox"/>

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

II. Calibration and QC Requirements	Not applicable <input checked="" type="checkbox"/>
III. Preparation and Method Modifications	Not applicable <input checked="" type="checkbox"/>
IV. Special Reporting Requirements	Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> 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. 	