

## SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
 Lab Code: ACE Case No.: 51495 MA No.: 3221.2 SDG No.: MYD5B0  
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
MYD5A9	P2819-01		X		
MYD5B0	P2819-02		X		
MYD5B1	P2819-03		X		
MYD5B2	P2819-04		X		
MYD5B3	P2819-05		X		
MYD5B3D	P2819-06		X		
MYD5B3S	P2819-07		X		
MYD5B4	P2819-08		X		
MYD5B5	P2819-09		X		
MYD5B6	P2819-10		X		
MYD5B7	P2819-11		X		
MYD5B8	P2819-12		X		
MYD5B9	P2819-13		X		
MYD5C0	P2819-14		X		
MYD5C1	P2819-15		X		
MYD5C2	P2819-16		X		
MYD5C3	P2819-17		X		
MYD5C4	P2819-18		X		
MYD5C6	P2819-19		X		
MYD5C7	P2819-20		X		
MYD5C8	P2819-21		X		
MYD5C9	P2819-22		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 # MYD5A9 &amp; MYD5B0

## USEPA CLP COC (LAB COPY)

## CHAIN OF CUSTODY RECORD

No: 9-060724-134224-0065

Date Shipped: 6/7/2024

Lab: Alliance Technical Group LLC

Carrier Name: FedEx

Case #: 51495

Lab Contact: Mohammad Ahmed

Airbill No: 7767 6245 6715

Cooler #: 51495-065

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
180-A-S001-01	MYD5A0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3728 (None) (1)	180-A-S001	06/06/2024 12:48	
180-A-002-01	MYD5A1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3729 (None) (1)	180-A-002	06/06/2024 12:46	
180-A-004-01	MYD5A2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3730 (None) (1)	180-A-004	06/06/2024 12:30	
180-A-001-01	MYD5A3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3731 (None) (1)	180-A-001	06/06/2024 12:27	
180-A-003-01	MYD5A4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3732 (None) (1)	180-A-003	06/06/2024 12:25	
1903-F-0002-01	MYD5A5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3733 (None) (1)	1903-F-0002	06/06/2024 10:20	
1903-C-0001-01	MYD5A6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3734 (None) (1)	1903-C-0001	06/06/2024 10:14	
1903-D-0004-01	MYD5A7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3735 (None) (1)	1903-D-0004	06/06/2024 10:24	
1903-B-S0001-02	MYD5A8	Soil/ ERT	Grab	ICP-AES 11(21)	9-3736 (None) (1)	1903-B-S0001	06/06/2024 10:23	
1903-D-0001-02	MYD5A9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3737 (None) (1)	1903-D-0001	06/06/2024 10:23	1
1903-A-0004-01	MYD5B0	Soil/ ERT	Grab	ICP-AES 11(21)	9-3738 (None) (1)	1903-A-0004	06/06/2024 10:23	2
1903-F-0004-01	MYD5B1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3739 (None) (1)	1903-F-0004	06/06/2024 10:23	3
1903-D-0003-01	MYD5B2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3740 (None) (1)	1903-D-0003	06/06/2024 10:25	4
1903-C-0006-03	MYD5B3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3741 (None) (1)	1903-C-0006	06/06/2024 10:21	5
1903-F-0003-01	MYD5B4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3742 (None) (1)	1903-F-0003	06/06/2024 10:25	6
1903-B-S0001-01	MYD5B5	Soil/ ERT	Grab	ICP-AES 11(21)	9-3743 (None) (1)	1903-B-S0001	06/06/2024 10:19	7
1903-C-0005-01	MYD5B6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3744 (None) (1)	1903-C-0005	06/06/2024 10:19	8
1903-F-0001-01	MYD5B7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3745 (None) (1)	1903-F-0001	06/06/2024 10:18	9
1903-A-0001-02	MYD5B8	Soil/ ERT	Grab	ICP-AES 11(21)	9-3746 (None) (1)	1903-A-0001	06/06/2024 10:18	10

Sample(s) to be used for Lab QC: 1903-C-0006-03 Tag 9-3741 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn

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

Analysis Key: ICP-AES 11=ICP-AES 11+Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SNP TO Lab	Caroline Eugene	6/7/2024 15:00		6-10-24 0854	23.21 TAN GROUP #1
					Custody seals intact
					AD Temp OK

68HERH20D0011

SDG # MYD5A9 &amp; MYD5B0

## USEPA CLP COC (LAB COPY)

## CHAIN OF CUSTODY RECORD

No: 9-060724-134224-0065

Date Shipped: 6/7/2024

Lab: Alliance Technical Group LLC

Carrier Name: FedEx

Lab Contact: Mohammad Ahmed

Airbill No: 7767 6245 6715

Case #: 51495  
Cooler #: 51495-065

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
1903-A-0001-01	MYD5B9	Soil/ ERT	Grab	ICP-AES 11(21)	9-3747 (None) (1)	1903-A-0001	06/06/2024 10:18	11
1903-C-0003-01	MYD5C0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3748 (None) (1)	1903-C-0003	06/06/2024 10:16	11
1903-A-S0001-01	MYD5C1	Soil/ ERT	Grab	ICP-AES 11(21)	9-3749 (None) (1)	1903-A-S0001	06/06/2024 10:16	11
1903-D-0001-01	MYD5C2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3750 (None) (1)	1903-D-0001	06/06/2024 10:22	11
1903-E-0006-01	MYD5C3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3751 (None) (1)	1903-E-0006	06/06/2024 10:34	11
1903-A-0002-01	MYD5C4	Soil/ ERT	Grab	ICP-AES 11(21)	9-3752 (None) (1)	1903-A-0002	06/06/2024 10:27	11
1903-E-0002-03	MYD5C5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3753 (None) (1)	1903-E-0002	06/06/2024 10:40	11
1903-D-S0001-01	MYD5C6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3754 (None) (1)	1903-D-S0001	06/06/2024 10:40	11
1903-B-0002-01	MYD5C7	Soil/ ERT	Grab	ICP-AES 11(21)	9-3755 (None) (1)	1903-B-0002	06/06/2024 10:38	11
1903-E-0005-01	MYD5C8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3756 (None) (1)	1903-E-0005	06/06/2024 10:38	11
1903-E-0001-01	MYD5C9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3757 (None) (1)	1903-E-0001	06/06/2024 10:36	20
1903-C-0002-01	MYD5D0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3758 (None) (1)	1903-C-0002	06/06/2024 10:24	
1903-B-S0003-01	MYD5D1	Soil/ ERT	Grab	ICP-AES 11(21)	9-3759 (None) (1)	1903-B-S0003	06/06/2024 10:34	
1903-E-0003-01	MYD5D2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3760 (None) (1)	1903-E-0003	06/06/2024 10:30	
1903-A-0003-01	MYD5D3	Soil/ ERT	Grab	ICP-AES 11(21)	9-3761 (None) (1)	1903-A-0003	06/06/2024 10:32	
1903-F-0005-03	MYD5D4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3762 (None) (1)	1903-F-0005	06/06/2024 10:30	
1903-B-S0002-01	MYD5D5	Soil/ ERT	Grab	ICP-AES 11(21)	9-3763 (None) (1)	1903-B-S0002	06/06/2024 10:30	
1903-B-0001-01	MYD5D6	Soil/ ERT	Grab	ICP-AES 11(21)	9-3764 (None) (1)	1903-B-0001	06/06/2024 10:23	
1903-F-0006-01	MYD5D7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3765 (None) (1)	1903-F-0006	06/06/2024 10:28	

Sample(s) to be used for Lab QC: 1903-E-0002-03 Tag 9-3753, 1903-F-0005-03 Tag 9-3762 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Ti, V, Zn

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES 11=ICP-AES 11+Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO Lab	Concilia Company used	6/7/2024 15:00		6-10-24 0854	23.2°C IDL Guss #1 custody seals intact no Temp Blix

FORM DC-1  
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>Cassanova Rino</u>		Log-in Date <b>6/10/2024</b>
Received By (Signature) <u>[Signature]</u>		
Case Number <b>51495</b>	SDG No. <b>MYD5A9 &amp; MYD5B0</b>	MA No. <b>3208.0 &amp; 3221.2</b>

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>776762456715</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	<u>23.2</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>06/10/2024</u>
12. Time Received	<u>08:54</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MYD5A9	N/A	9-3737	P2819-01	Intact
2	MYD5B0	N/A	9-3738	P2819-02	Intact
3	MYD5B1	N/A	9-3739	P2819-03	Intact
4	MYD5B2	N/A	9-3740	P2819-04	Intact
5	MYD5B3	N/A	9-3741	P2819-05	Intact
6	MYD5B3D	N/A	9-3741	P2819-06	Intact
7	MYD5B3S	N/A	9-3741	P2819-07	Intact
8	MYD5B4	N/A	9-3742	P2819-08	Intact
9	MYD5B5	N/A	9-3743	P2819-09	Intact
10	MYD5B6	N/A	9-3744	P2819-10	Intact
11	MYD5B7	N/A	9-3745	P2819-11	Intact
12	MYD5B8	N/A	9-3746	P2819-12	Intact
13	MYD5B9	N/A	9-3747	P2819-13	Intact
14	MYD5C0	N/A	9-3748	P2819-14	Intact
15	MYD5C1	N/A	9-3749	P2819-15	Intact
16	MYD5C2	N/A	9-3750	P2819-16	Intact
17	MYD5C3	N/A	9-3751	P2819-17	Intact
18	MYD5C4	N/A	9-3752	P2819-18	Intact
19	MYD5C6	N/A	9-3754	P2819-19	Intact
20	MYD5C7	N/A	9-3755	P2819-20	Intact
21	MYD5C8	N/A	9-3756	P2819-21	Intact
22	MYD5C9	N/A	9-3757	P2819-22	Intact
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. <b>N/A</b>
Date <u>6/11/24</u>	Logbook Page No. <b>N/A</b>

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

LAB NAME	Alliance Technical Group, LLC		
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51495	SDG NO.	MYD5B0
MA NO.	3208.0,3221.2	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	3	✓	
3. Sample Log-In Sheet (DC-1)	4	4	✓	
4. CSF Inventory Sheet (DC-2)	5	7	✓	
5. SDG Narrative	8	12	✓	
6. Communication Logs	13	16	✓	
7. Percent Solids Log	17	19	✓	

**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	39	✓	
18. Instrument raw data by instrument in analysis order	40	1044	✓	

**Other Data**

19. Standard and Reagent Preparation Logs	1045	1180	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1181	1182	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1183	1191	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

- 23 . Extraction Logs for TCLP and SPLP
- 24 . Raw GPC Data
- 25 . Raw Florisil Data

PAGE NOS:		CHECK	
FROM	TO	LAB	REGION
NA	NA	✓	
NA	NA	✓	
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
- 27 . Instrument raw data by instrument in analysis order

NA	NA	✓	
NA	NA	✓	

#### Other Data

- 28 . Standard and Reagent Preparation Logs
- 29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 32 . Extraction Logs for TCLP and SPLP
- 33 . Raw GPC Data
- 34 . Raw Florisil Data

NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	

#### Analysis Forms and Data (Cyanide)

- 35 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable
- 36 . Instrument raw data by instrument in analysis order

NA	NA	✓	
NA	NA	✓	

#### Other Data

- 37 . Standard and Reagent Preparation Logs
- 38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks
- 39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks
- 40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions
- 41 . Extraction Logs for TCLP and SPLP
- 42 . Raw GPC Data
- 43 . Raw Florisil Data

NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	
NA	NA	✓	

**Additional**

## 44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

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)Audited by:  
(EPA)

Nimisha Pandya, Document Control Officer

(Signature)

(Print Name &amp; Title)

(Date)

(Signature)

(Print Name &amp; Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
1192	1192	✓	
NA	NA	✓	
1193	1195	✓	
NA	NA	✓	
1196	1197	✓	
NA	NA	✓	



**284 Sheffield Street  
Mountainside, NJ 07092**

## **SDG NARRATIVE**

**USEPA**

**SDG # MYD5B0**

**CASE # 51495**

**CONTRACT # 68HERH20D0011**

**SOW# SFAM01.1**

**LAB NAME: Alliance Technical Group, LLC**

**LAB CODE: ACE**

**LAB ORDER ID #P2819**

**MODIFIED ANALYSIS#3221.2**

### **A. Number of Samples and Date of Receipt**

20 Soil sample were delivered to the laboratory intact on 06/10/2024.

### **B. Parameters**

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: 23.2°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: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

### **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.





**284 Sheffield Street  
Mountainside, NJ 07092**

Resolution 2: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should 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.

**G. Calculation:**

**Calculation for ICP-MS Soil Sample:**

Conversion of Results from  $\mu\text{g/L}$  or ppb to  $\text{mg/kg}$  :

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

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)

DF = Dilution Factor

**Example Calculation For Sample MYD5A9 For Arsenic:**

If C = 459.34 ppb

Vf = 500 ml

W = 1.49 g

S = 0.975(97.5/100)

DF = 1

$$\text{Concentration (mg/kg)} = 459.34 \times \frac{500}{1.49 \times 0.975} \times 1 / 1000$$

$$= 158.0932 \text{ mg/kg}$$

$$= 160 \text{ mg/kg (Reported Result with Signification)}$$

**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. Duplicate sample did meet requirements. Serial Dilution did meet requirements.



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Mountainside, NJ 07092**

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
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

<b>Date:</b> 09/04/2024	<b>MA:</b> 3221.1	<b>Title:</b> ICP-MS Re-Digestion and Re-Analysis of Soils with Additional Laboratory QC
<b>Method Source:</b> SFAM01.1	<b>Method:</b> ICP-MS	
<b>Matrix:</b> Soil/Sediment		
<b>Summary of Modification</b>		
<p>The purpose of this modified analysis is to re-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.</p>		
<b>I. Analyte Modifications</b>		<b>Not applicable</b> <input checked="" type="checkbox"/>
<b>II. Calibration and QC Requirements</b>		<b>Not applicable</b> <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> <li>• Prepare a Matrix Spike spiked at three times the levels specified in the SOW.</li> <li>• 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).</li> <li>• Post-Digestion Spike requirements apply to the 5x Matrix Spike only.</li> <li>• Post-Digestion Spike corrective actions apply to Sb.</li> </ul>		
<b>III. Preparation and Method Modifications</b>		<b>Not applicable</b> <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> <li>• Prepare and analyze the sample by EPA Draft Method 3050C as follows: <ul style="list-style-type: none"> <li>○ Mix sample thoroughly and transfer 1.00 – 1.50 g to a digestion vessel.</li> <li>○ Add 10 mL 1:1 HNO<sub>3</sub> and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10 -15 minutes.</li> <li>○ Add 5 mL concentrated HNO<sub>3</sub> and reflux for 30 minutes at 95°C (±3°C), repeat until digestion complete.</li> <li>○ Concentrate sample to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C).</li> <li>○ Cool sample, add 2mL water and 3 mL 30% H<sub>2</sub>O<sub>2</sub>. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H<sub>2</sub>O<sub>2</sub> until effervescence is minimal.</li> <li>○ Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis.</li> </ul> </li> <li>• 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.</li> <li>• 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.</li> <li>• Method Blanks, both LCSs, and all instrument QC are to be analyzed undiluted.</li> </ul>		

**IV. Special Reporting Requirements**

Not applicable

☐

The Laboratory shall:

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the resolution or corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses and/or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analyses, including a copy of the approved modification form with the SDG Narrative.
- The 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.

---

**From:** Hairston, Miles (NE) <Miles.Hairston@gdit.com>  
**Sent:** Monday, June 10, 2024 3:37 PM  
**To:** Deepak Parmar; Sohil Jodhani; Mohammad Ahmed  
**Cc:** R9RSCC (R9RSCC@epa.gov); carmon.jamie@epa.gov; Spiegel, Michael (he/him/his)  
**Subject:** Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature | FINAL

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.  
Resolution: Per Region 9, Case 51495 is for metals. There are no rinsates in those cooler so they don't require ice. The laboratory should note the issue in the SDG narrative and proceed with the analysis of the samples.

Please note that the laboratory will have to contact the appropriate CLP COR should any defects need to be waived for this issue.

Thanks,  
Miles Hairston  
Associate Environmental Analyst  
Under contract to EPA  
QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346  
[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)  
15036 Conference Center Drive  
Chantilly, VA 20151  
[www.gdit.com](http://www.gdit.com)

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Automation Technology

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---

**From:** R9RSCC <R9RSCC@epa.gov>  
**Sent:** Monday, June 10, 2024 3:23 PM  
**To:** Hairston, Miles (NE) <Miles.Hairston@gdit.com>  
**Cc:** R9RSCC <R9RSCC@epa.gov>  
**Subject:** RE: Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

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Hi Miles,

Case 51495 is for metals. The client said there are no rinsates in those cooler so they don't require ice. Please have the lab proceed with analysis.

Thanks

-Jamie

Jamie Carmon (she/her)

\*\*\*\*\*

Region 9

RSCC (Regional Sample Control Coordinator)

Phone: 510-412-2389

Email: [R9RSCC@epa.gov](mailto:R9RSCC@epa.gov)

---

**From:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>

**Sent:** Monday, June 10, 2024 11:35 AM

**To:** R9RSCC <[R9RSCC@epa.gov](mailto:R9RSCC@epa.gov)>; Carmon, Jamie (she/her/hers) <[Carmon.Jamie@epa.gov](mailto:Carmon.Jamie@epa.gov)>; Spiegel, Michael (he/him/his) <[Spiegel.Michael@epa.gov](mailto:Spiegel.Michael@epa.gov)>

**Subject:** Region 09 | Case 51495 | Lab ACE | Issue Samples received at an elevated temperature

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Good afternoon,

Please advise on the issue below.

Issue: The laboratory received samples without ice. The coolers had temperatures 24.2 degrees C, 23.2 degrees C, 23.8 degrees C, 24.1 degrees C, and 26.1 degrees C upon arrival. The laboratory would like to know how to proceed.

Thanks,

Miles Hairston

Associate Environmental Analyst

Under contract to EPA

QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346

[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)

15036 Conference Center Drive

Chantilly, VA 20151

[www.gdit.com](http://www.gdit.com)

**Leave alert: N/A**

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Information Technology

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---

**From:** Deepak Parmar <[Deepak.Parmar@alliancetg.com](mailto:Deepak.Parmar@alliancetg.com)>  
**Sent:** Monday, June 10, 2024 1:54 PM  
**To:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>  
**Cc:** Sohil Jodhani <[Sohil.Jodhani@AllianceTG.com](mailto:Sohil.Jodhani@AllianceTG.com)>; Mohammad Ahmed <[mohammad.ahmed@alliancetg.com](mailto:mohammad.ahmed@alliancetg.com)>  
**Subject:** RE: Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

**This Message Is From an External Sender**






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

Good afternoon,

the temperature of the cooler upon arrival is 24.2,23.2,23.8,24.1,26.1 without ice .

**Thanks & Regards,**



**Deepak Parmar**  
QA/QC  
An Alliance Technical Group Company  
Main: 908-789-8900  
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)     

---

**From:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>  
**Sent:** Monday, June 10, 2024 1:46 PM  
**To:** Deepak Parmar <[Deepak.Parmar@alliancetg.com](mailto:Deepak.Parmar@alliancetg.com)>  
**Cc:** Sohil Jodhani <[Sohil.Jodhani@AllianceTG.com](mailto:Sohil.Jodhani@AllianceTG.com)>; Mohammad Ahmed <[mohammad.ahmed@alliancetg.com](mailto:mohammad.ahmed@alliancetg.com)>  
**Subject:** Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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Good afternoon,

What was the temperature of the cooler upon arrival?

Thanks,  
Miles Hairston  
Associate Environmental Analyst  
Under contract to EPA  
QSS Coordinator – EPA Regions 1, 8, and 9

Work Phone: +1 571-454-0346  
[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)  
15036 Conference Center Drive  
Chantilly, VA 20151  
[www.gdit.com](http://www.gdit.com)

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**From:** Deepak Parmar <[Deepak.Parmar@alliancetg.com](mailto:Deepak.Parmar@alliancetg.com)>

**Sent:** Monday, June 10, 2024 1:06 PM

**To:** Hairston, Miles (NE) <[Miles.Hairston@gdit.com](mailto:Miles.Hairston@gdit.com)>

**Cc:** Sohil Jodhani <[Sohil.Jodhani@AllianceTG.com](mailto:Sohil.Jodhani@AllianceTG.com)>; Mohammad Ahmed <[mohammad.ahmed@alliancetg.com](mailto:mohammad.ahmed@alliancetg.com)>

**Subject:** Region 09 | Case 51495 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

### This Message Is From an External Sender

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

Good morning ,

Sample received for Case 51495 without ice ,there for lab like to confirm that can lab proceed with the analysis of the sample ?

**Thanks & Regards,**



**Deepak Parmar**

QA/QC

An Alliance Technical Group Company

Main: 908-789-8900

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

[www.alliancetg.com](http://www.alliancetg.com)





**PERCENT SOLID**

**Supervisor:** Iwona  
**Analyst:** jignesh  
**Date:** 6/13/2024

**OVENTEMP IN Celsius(°C):** 107  
**Time IN:** 13:15  
**In Date:** 06/12/2024  
**Weight Check 1.0g:** 1.00  
**Weight Check 10g:** 10.00  
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103  
**Time OUT:** 07:37  
**Out Date:** 06/13/2024  
**Weight Check 1.0g:** 1.00  
**Weight Check 10g:** 10.00  
**BalanceID:** M SC-4  
**Thermometer ID:** % SOLID- OVEN

QC:LB131190

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
P2819-01	MYD5A9	1	1.18	8.72	9.9	9.68	97.5	
P2819-02	MYD5B0	2	1.18	8.71	9.89	9.77	98.6	
P2819-03	MYD5B1	3	1.14	8.45	9.59	9.37	97.4	
P2819-04	MYD5B2	4	1.16	8.50	9.66	9.44	97.4	
P2819-05	MYD5B3	5	1.14	8.49	9.63	9.45	97.9	
P2819-06	MYD5B3D	6	1.14	8.49	9.63	9.45	97.9	
P2819-07	MYD5B3S	7	1.14	8.49	9.63	9.45	97.9	
P2819-08	MYD5B4	8	1.19	8.61	9.8	9.24	93.5	
P2819-09	MYD5B5	9	1.14	8.76	9.9	9.5	95.4	
P2819-10	MYD5B6	10	1.15	8.77	9.92	9.68	97.3	
P2819-11	MYD5B7	11	1.14	8.74	9.88	9.68	97.7	
P2819-12	MYD5B8	12	1.15	8.67	9.82	9.69	98.5	
P2819-13	MYD5B9	13	1.18	8.44	9.62	9.53	98.9	
P2819-14	MYD5C0	14	1.18	8.48	9.66	9.58	99.1	
P2819-15	MYD5C1	15	1.18	8.67	9.85	9.7	98.3	
P2819-16	MYD5C2	16	1.18	8.74	9.92	9.56	95.9	
P2819-17	MYD5C3	17	1.18	8.48	9.66	9.5	98.1	
P2819-18	MYD5C4	18	1.18	8.50	9.68	9.44	97.2	
P2819-19	MYD5C6	19	1.18	8.63	9.81	9.55	97.0	
P2819-20	MYD5C7	20	1.18	8.44	9.62	9.3	96.2	
P2819-21	MYD5C8	21	1.14	8.79	9.93	9.85	99.1	
P2819-22	MYD5C9	22	1.16	8.43	9.59	9.4	97.7	

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

# WORKLIST(Hardcopy Internal Chain)

131190

WorkList Name : %1-p2819      WorkList ID : 181013      Department : Wet-Chemistry      Date : 06-12-2024 10:32:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2819-01	MYD5A9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-02	MYD5B0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-03	MYD5B1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-04	MYD5B2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-05	MYD5B3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-06	MYD5B3D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-07	MYD5B3S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-08	MYD5B4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-09	MYD5B5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-10	MYD5B6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-11	MYD5B7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-12	MYD5B8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-13	MYD5B9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-14	MYD5C0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-15	MYD5C1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-16	MYD5C2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-17	MYD5C3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-18	MYD5C4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-19	MYD5C6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-20	MYD5C7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO
P2819-21	MYD5C8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO

Date/Time 06.12.24 12.54      Date/Time 06.12.24      13.20  
 Raw Sample Received by: AF 5m      Raw Sample Received by: af 5m  
 Raw Sample Relinquished by: AF 5m      Raw Sample Relinquished by: af 5m

WORKLIST(Hardcopy Internal Chain)

131190

WorkList Name : %1-p2819

WorkList ID : 181013

Department : Wet-Chemistry

Date : 06-12-2024 10:32:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2819-22	MYD5C9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/06/2024	Chemtech -SO

Date/Time 06-12-24 12:147  
Raw Sample Received by: Jd Goc  
Raw Sample Relinquished by: Jd Goc

Date/Time 06-12-24 13:20  
Raw Sample Received by: Jd Goc  
Raw Sample Relinquished by: Jd Goc