

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51495 MA No.: 3221.2 SDG No.: MYD4Q9
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method			
		ICP-AES	ICP-MS	Mercury	Cyanide
MYD4Q8	P2809-01		X		
MYD4Q9	P2809-02		X		
MYD4R0	P2809-03		X		
MYD4R1	P2809-04		X		
MYD4R2	P2809-05		X		
MYD4R3	P2809-06		X		
MYD4R4	P2809-07		X		
MYD4R5	P2809-08		X		
MYD4R6	P2809-09		X		
MYD4R7	P2809-10		X		
MYD4R7D	P2809-11		X		
MYD4R7S	P2809-12		X		
MYD4R8	P2809-13		X		
MYD4R9	P2809-14		X		
MYD4S0	P2809-15		X		
MYD4S1	P2809-16		X		
MYD4S2	P2809-17		X		
MYD4S3	P2809-18		X		
MYD4S4	P2809-19		X		
MYD4S5	P2809-20		X		
MYD4S6	P2809-21		X		
MYD4S7	P2809-22		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 # MYD4Q8 & MYD4Q9

USEPA CLP COC (LAB COPY)

Date Shipped: 6/7/2024

Carrier Name: FedEx

Airbill No: 7767 4277 2340

CHAIN OF CUSTODY RECORD

No: 9-060624-113924-0061

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

Case #: 51495

Cooler #: 51495-061

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
2118-M-00005-01	MYD4P0	Soil/ ERT	Grab	ICP-AES 11(21)	9-3538 (None) (1)	2118-M-00005	06/05/2024 11:29	
2118-K-00008-01	MYD4P1	Soil/ ERT	Grab	ICP-AES 11(21)	9-3539 (None) (1)	2118-K-00008	06/05/2024 10:09	
2118-E-00001-01	MYD4P2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3540 (None) (1)	2118-E-00001	06/05/2024 13:21	
2118-C-00004-01	MYD4P3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3541 (None) (1)	2118-C-00004	06/05/2024 13:21	
2118-D-00005-02	MYD4P4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3542 (None) (1)	2118-D-00005	06/05/2024 13:18	
2118-C-00006-01	MYD4P5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3543 (None) (1)	2118-C-00006	06/05/2024 13:17	
2118-C-00009-01	MYD4P6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3544 (None) (1)	2118-C-00009	06/05/2024 13:07	
2118-H-00003-01	MYD4P7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3545 (None) (1)	2118-H-00003	06/05/2024 15:15	
2118-J-00001-01	MYD4P8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3546 (None) (1)	2118-J-00001	06/05/2024 15:05	
2118-J-00005-03	MYD4P9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3547 (None) (1)	2118-J-00005	06/05/2024 15:22	
2118-G-00003-01	MYD4Q0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3548 (None) (1)	2118-G-00003	06/05/2024 15:21	
2118-J-00008-01	MYD4Q1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3549 (None) (1)	2118-J-00008	06/05/2024 15:20	
2118-I-00001-01	MYD4Q2	Soil/ ERT	Grab	ICP-AES 11(21)	9-3550 (None) (1)	2118-I-00001	06/05/2024 15:20	
2118-A-00002-01	MYD4Q3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3551 (None) (1)	2118-A-00002	06/05/2024 15:22	
2118-H-00003-02	MYD4Q4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3552 (None) (1)	2118-H-00003	06/05/2024 15:16	
2118-G-00001-01	MYD4Q5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3553 (None) (1)	2118-G-00001	06/05/2024 15:24	
2118-I-00007-01	MYD4Q6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3554 (None) (1)	2118-I-00007	06/05/2024 15:15	
2118-H-00006-01	MYD4Q7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3555 (None) (1)	2118-H-00006	06/05/2024 15:12	
2118-I-00010-01	MYD4Q8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3556 (None) (1)	2118-I-00010	06/05/2024 15:10	✓

Sample(s) to be used for Lab QC: 2118-J-00005-03 Tag 9-3547 - 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	
Analysis Key: ICP-AES 11=ICP-AES 11+Metals		Samples Transferred From Chain of Custody #	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Snip to Lab	Caroline Cuyper Westford	6/17/2024 15:00		6-10-24 0834	2242 IL-500 #1
					custody seals intact
					No Temp Data

68HERH20D0011

SDG # MYD4Q8 & MYD4Q9

USEPA CLP COC (LAB COPY)

Date Shipped: 6/7/2024

Carrier Name: FedEx

Airbill No: 7767 4277 2340

CHAIN OF CUSTODY RECORD

Case #: 51495

Cooler #: 51495-061

No: 9-060624-113924-0061

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
2118-H-00001-01	MYD4Q9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3557 (None) (1)	2118-H-00001	06/05/2024 15:09	1-
2118-J-00009-01	MYD4R0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3558 (None) (1)	2118-J-00009	06/05/2024 15:09	1-
2118-F-00009-01	MYD4R1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3559 (None) (1)	2118-F-00009	06/05/2024 13:45	1-
2118-I-00003-01	MYD4R2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3560 (None) (1)	2118-I-00003	06/05/2024 15:19	1-
2118-I-00005-01	MYD4R3	Soil/ ERT	Grab	ICP-AES 11(21)	9-3561 (None) (1)	2118-I-00005	06/05/2024 15:33	1-
2118-K-00002-01	MYD4R4	Soil/ ERT	Grab	ICP-AES 11(21)	9-3562 (None) (1)	2118-K-00002	06/05/2024 10:25	1-
2118-K-00008-02	MYD4R5	Soil/ ERT	Grab	ICP-AES 11(21)	9-3563 (None) (1)	2118-K-00008	06/05/2024 10:09	1-
2118-J-00004-01	MYD4R6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3564 (None) (1)	2118-J-00004	06/05/2024 15:28	1- <i>de</i>
2118-I-00006-03	MYD4R7	Soil/ ERT	Grab	ICP-AES 11(21)	9-3565 (None) (1)	2118-I-00006	06/05/2024 15:23	1-
2118-J-00002-01	MYD4R8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3566 (None) (1)	2118-J-00002	06/05/2024 15:26	1-
2118-F-00007-01	MYD4R9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3567 (None) (1)	2118-F-00007	06/05/2024 14:13	1-
2118-A-00003-01	MYD4S0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3568 (None) (1)	2118-A-00003	06/05/2024 14:02	1-
2118-H-00009-01	MYD4S1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3569 (None) (1)	2118-H-00009	06/05/2024 15:06	1-
2118-H-00004-01	MYD4S2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3570 (None) (1)	2118-H-00004	06/05/2024 14:09	1-

Sample(s) to be used for Lab QC: 2118-I-00006-03 Tag 9-3565 - 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	
Analysis Key: ICP-AES 11=ICP-AES 11+Metals		Samples Transferred From Chain of Custody #	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP TO Lab	Carrollina Custome Weston	6/7/2024 15:00	<i>[Signature]</i>	6-10-24 0854	22-94 WALSH H
					100 Temp OK.
					custody seals intact

SDG # MYD4Q8 & MYD4Q9

No: 9-060624-113926-0062

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

68HERH20D0011

Page 1 of 5

USEPA CLP COC (LAB COPY)

Date Shipped: 6/7/2024

Carrier Name: FedEx

Airbill No: 7767 4278 3277

CHAIN OF CUSTODY RECORD

Case #: 51495

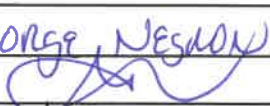
Cooler #: 51495-062

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
2118-A-00007-02	MYD4S3	Soil/ REAC	Grab	ICP-AES 11(21)	9-3571 (None) (1)	2118-A-00007	06/05/2024 14:07	11
2118-A-00007-01	MYD4S4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3572 (None) (1)	2118-A-00007	06/05/2024 14:06	11
2118-K-00005-01	MYD4S5	Soil/ ERT	Grab	ICP-AES 11(21)	9-3573 (None) (1)	2118-K-00005	06/05/2024 10:16	14
2118-I-S0001-01	MYD4S6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3574 (None) (1)	2118-I-S0001	06/05/2024 15:26	14
2118-J-00003-01	MYD4S7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3575 (None) (1)	2118-J-00003	06/05/2024 15:05	20
2118-G-00007-01	MYD4S8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3576 (None) (1)	2118-G-00007	06/05/2024 15:23	
2118-I-00002-01	MYD4S9	Soil/ ERT	Grab	ICP-AES 11(21)	9-3577 (None) (1)	2118-I-00002	06/05/2024 15:36	
2118-J-00006-01	MYD4T0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3578 (None) (1)	2118-J-00006	06/05/2024 15:03	
2118-G-00008-01	MYD4T1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3579 (None) (1)	2118-G-00008	06/05/2024 15:32	
2118-I-00009-01	MYD4T2	Soil/ REAC	Grab	ICP-AES 11(21)	9-3580 (None) (1)	2118-I-00009	06/05/2024 15:29	
2118-I-00004-01	MYD4T3	Soil/ ERT	Grab	ICP-AES 11(21)	9-3581 (None) (1)	2118-I-00004	06/05/2024 15:28	
2118-H-00008-01	MYD4T4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3582 (None) (1)	2118-H-00008	06/05/2024 14:04	
2118-F-00008-01	MYD4T5	Soil/ REAC	Grab	ICP-AES 11(21)	9-3583 (None) (1)	2118-F-00008	06/05/2024 14:11	
2118-H-00002-01	MYD4T6	Soil/ REAC	Grab	ICP-AES 11(21)	9-3584 (None) (1)	2118-H-00002	06/05/2024 14:01	
2118-B-00002-01	MYD4T7	Soil/ REAC	Grab	ICP-AES 11(21)	9-3585 (None) (1)	2118-B-00002	06/05/2024 14:11	
2118-F-00001-01	MYD4T8	Soil/ REAC	Grab	ICP-AES 11(21)	9-3586 (None) (1)	2118-F-00001	06/05/2024 14:00	
2118-A-00001-01	MYD4T9	Soil/ REAC	Grab	ICP-AES 11(21)	9-3587 (None) (1)	2118-A-00001	06/05/2024 13:58	
2118-A-00006-01	MYD4W0	Soil/ REAC	Grab	ICP-AES 11(21)	9-3588 (None) (1)	2118-A-00006	06/05/2024 13:55	
2118-A-00004-01	MYD4W1	Soil/ REAC	Grab	ICP-AES 11(21)	9-3589 (None) (1)	2118-A-00004	06/05/2024 13:49	

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	
Analysis Key: ICP-AES 11=ICP-AES 11+Metals		Samples Transferred From Chain of Custody #	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SHIP to Lab	Core in the Cygnus mission	6/7/2024 15:00	OK	8:54 6/10/24	73.2% 23.0%
					Custody Seal intact
					no temp block

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>2</u>
Received By (Print Name) <u>George Nesnow</u>		Log-in Date 6/10/2024
Received By (Signature) 		
Case Number 51495	SDG No. MYD4Q8 & MYD4Q9	MA No. 3208.0 & 3221.2

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>776742772340</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	<u>22.9</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>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	MYD4Q8	N/A	9-3556	P2809-01	Intact
2	MYD4Q9	N/A	9-3557	P2809-02	Intact
3	MYD4R0	N/A	9-3558	P2809-03	Intact
4	MYD4R1	N/A	9-3559	P2809-04	Intact
5	MYD4R2	N/A	9-3560	P2809-05	Intact
6	MYD4R3	N/A	9-3561	P2809-06	Intact
7	MYD4R4	N/A	9-3562	P2809-07	Intact
8	MYD4R5	N/A	9-3563	P2809-08	Intact
9	MYD4R6	N/A	9-3564	P2809-09	Intact
10	MYD4R7	N/A	9-3565	P2809-10	Intact
11	MYD4R7D	N/A	9-3565	P2809-11	Intact
12	MYD4R7S	N/A	9-3565	P2809-12	Intact
13	MYD4R8	N/A	9-3566	P2809-13	Intact
14	MYD4R9	N/A	9-3567	P2809-14	Intact
15	MYD4S0	N/A	9-3568	P2809-15	Intact
16	MYD4S1	N/A	9-3569	P2809-16	Intact
17	MYD4S2	N/A	9-3570	P2809-17	Intact
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 <u>6/11/24</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>2</u>
Received By (Print Name) <u>George Nesbitt</u>		Log-in Date 6/10/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51495	SDG No. MYD4Q8 & MYD4Q9	MA No. 3208.0 & 3221.2

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>776742783277</u> <u>2</u>
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	<u>23.0</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>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	MYD4S3	N/A	9-3571	P2809-18	Intact
2	MYD4S4	N/A	9-3572	P2809-19	Intact
3	MYD4S5	N/A	9-3573	P2809-20	Intact
4	MYD4S6	N/A	9-3574	P2809-21	Intact
5	MYD4S7	N/A	9-3575	P2809-22	Intact
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>6/11/24</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.	51495	SDG NO.	MYD4Q9
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	4	✓	
3. Sample Log-In Sheet (DC-1)	5	6	✓	
4. CSF Inventory Sheet (DC-2)	7	9	✓	
5. SDG Narrative	10	14	✓	
6. Communication Logs	15	18	✓	
7. Percent Solids Log	19	21	✓	

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	22	41	✓	
18. Instrument raw data by instrument in analysis order	42	1337	✓	

Other Data

19. Standard and Reagent Preparation Logs	1338	1485	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1486	1487	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1488	1501	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOS:		CHECK	
	FROM	TO	LAB	REGION
23 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
24 . Raw GPC Data	NA	NA	✓	
25 . Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (Mercury)

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

Other Data

28 . Standard and Reagent Preparation Logs	NA	NA	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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	NA	NA	✓	
36 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

37 . Standard and Reagent Preparation Logs	NA	NA	✓	
38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
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 2)

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
1502	1503	✓	
NA	NA	✓	
1504	1506	✓	
NA	NA	✓	
1507	1508	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

**USEPA
SDG # MYD4Q9
CASE # 51495
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID #P2809
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: 22.9°C, 23.0°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 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 MYD4Q8 For Arsenic:

If C = 152.28 ppb

Vf = 500 ml

W = 1.34 g

S = 0.966(96.6/100)

DF = 1

$$\text{Concentration (mg/kg)} = 152.28 \times \frac{500}{1.34 \times 0.966} \times 1 / 1000$$

$$= 58.820 \text{ mg/kg}$$

$$= 59 \text{ mg/kg (Reported Result with Signification)}$$

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(MYD4R7SRE)



**284 Sheffield Street
Mountainside, NJ 07092**

sample did meet requirements except for Silver. Spike(MYD4R7S) sample did meet requirements except for Zinc. Duplicate sample did meet requirements except for Nickel. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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

Signature_____

Name: Nimisha Pandya

Date _____

Title: Document Control Officer

Date: 09/04/2024	MA: 3221.1	Title: ICP-MS Re-Digestion and Re-Analysis of Soils with Additional Laboratory QC
Method Source: SFAM01.1	Method: ICP-MS	
Matrix: Soil/Sediment		
Summary of Modification		
The purpose of this modified analysis is to 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.		
I. Analyte Modifications		Not applicable ☒
II. Calibration and QC Requirements		Not applicable ☐
The Laboratory shall: • Use the Method Detection Limits (MDLs) determined for routine soil analyses (i.e., Method 200.8) to report the results for these analyses. The Laboratory is NOT required to perform an MDL study for Draft Method 3050C. • Prepare and analyze an additional Laboratory Control Sample (LCS) spiked at the CRQL. Percent Recovery limits do NOT apply to this LCS and no corrective actions are required. • Prepare a Matrix Spike spiked at three times the levels specified in the SOW. • Prepare and analyze an additional Matrix Spike sample spiked at five times the levels specified for this Modified Analysis (i.e., 15x the levels specified in the SOW). • Post-Digestion Spike requirements apply to the 5x Matrix Spike only. • Post-Digestion Spike corrective actions apply to Sb.		
III. Preparation and Method Modifications		Not applicable ☐
The Laboratory shall: • Prepare and analyze the sample by EPA Draft Method 3050C as follows: ○ Mix sample thoroughly and transfer 1.00 – 1.50 g to a digestion vessel. ○ Add 10 mL 1:1 HNO₃ and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10 -15 minutes. ○ Add 5 mL concentrated HNO₃ and reflux for 30 minutes at 95°C (±3°C), repeat until digestion complete. ○ Concentrate sample to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C). ○ Cool sample, add 2mL water and 3 mL 30% H₂O₂. Heat at 95°C (±3°C) and add additional 1 mL aliquots of 30% H₂O₂ until effervescence is minimal. ○ Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis. • The same sample extracts can be used for ICP-AES analysis. Separate Matrix Spikes and LCS will need to be prepared for both ICP-AES and ICP-MS analyses. • Analyze the samples starting at an initial 5x dilution. Subsequently, dilute samples as necessary to bring the analyte concentrations within the calibration range of the instrument per the SOW. • Method Blanks, both LCSs, and all instrument QC are to be analyzed undiluted.		

IV. Special Reporting Requirements

Not applicable

☐

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
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
Automation Technology

This electronic message transmission contains information from GDIT that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE: Regardless of content, this email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

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

This Message Is From an External Sender

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

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

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>

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

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

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

Caution: This email originated from outside EPA, please exercise additional caution when deciding whether to open attachments or click on provided links.

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

15036 Conference Center Drive

Chantilly, VA 20151

www.gdit.com

Leave alert: N/A

GENERAL DYNAMICS
Information Technology

This electronic message transmission contains information from GDIT that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE:

Regardless of content, this email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, June 10, 2024 1:54 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <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    

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

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,

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
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

Leave alert: N/A



This electronic message transmission contains information from GDIT that may be attorney-client privileged, proprietary or confidential. The information in this message is intended only for use by the individual(s) to whom it is addressed. If you believe you have received this message in error, please contact me immediately and be aware that any use, disclosure, copying or distribution of the contents of this message is strictly prohibited. NOTE: Regardless of content, this email shall not operate to bind GDIT to any order or other contract unless pursuant to explicit written agreement or government initiative expressly permitting the use of email for such purpose.

From: Deepak Parmar <Deepak.Parmar@alliancetg.com>

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

To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>

Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; Mohammad Ahmed <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

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 6/12/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 12:25
In Date: 06/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:33
Out Date: 06/12/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB131174

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
P2809-01	MYD4Q8	1	1.14	8.57	9.71	9.42	96.6	
P2809-02	MYD4Q9	2	1.15	8.38	9.53	9.47	99.3	
P2809-03	MYD4R0	3	1.19	8.58	9.77	9.41	95.8	
P2809-04	MYD4R1	4	1.18	8.71	9.89	9.78	98.7	
P2809-05	MYD4R2	5	1.18	8.77	9.95	9.65	96.6	
P2809-06	MYD4R3	6	1.14	8.70	9.84	9.51	96.2	
P2809-07	MYD4R4	7	1.17	8.57	9.74	9.41	96.1	
P2809-08	MYD4R5	8	1.12	8.72	9.84	9.6	97.2	
P2809-09	MYD4R6	9	1.18	8.69	9.87	9.69	97.9	
P2809-10	MYD4R7	10	1.18	8.66	9.84	9.72	98.6	
P2809-11	MYD4R7D	11	1.18	8.66	9.84	9.72	98.6	
P2809-12	MYD4R7S	12	1.18	8.66	9.84	9.72	98.6	
P2809-13	MYD4R8	13	1.18	8.65	9.83	9.7	98.5	
P2809-14	MYD4R9	14	1.15	8.80	9.95	9.93	99.8	
P2809-15	MYD4S0	15	1.17	8.60	9.77	9.68	99.0	
P2809-16	MYD4S1	16	1.16	8.68	9.84	9.72	98.6	
P2809-17	MYD4S2	17	1.15	8.73	9.88	9.71	98.1	
P2809-18	MYD4S3	18	1.14	8.46	9.6	9.2	95.3	
P2809-19	MYD4S4	19	1.18	8.37	9.55	9.07	94.3	
P2809-20	MYD4S5	20	1.15	8.51	9.66	9.41	97.1	
P2809-21	MYD4S6	21	1.14	8.53	9.67	9.26	95.2	
P2809-22	MYD4S7	22	1.17	8.73	9.9	9.66	97.3	

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

WORKLIST(Hardcopy Internal Chain)

131176

WorkList Name : %1-p2809

WorkList ID : 180971

Department : Wet-Chemistry

Date : 06-11-2024 11:05:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2809-01	MYD4Q8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-02	MYD4Q9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-03	MYD4R0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-04	MYD4R1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-05	MYD4R2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-06	MYD4R3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-07	MYD4R4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-08	MYD4R5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-09	MYD4R6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-10	MYD4R7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-11	MYD4R7D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-12	MYD4R7S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-13	MYD4R8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-14	MYD4R9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-15	MYD4S0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-16	MYD4S1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-17	MYD4S2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-18	MYD4S3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-19	MYD4S4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-20	MYD4S5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO
P2809-21	MYD4S6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO

Date/Time 06.11.24 11:30
 Raw Sample Received by: JTC (900)
 Raw Sample Relinquished by: JTC (900)

Date/Time 06.11.24 12:30
 Raw Sample Received by: JTC (900)
 Raw Sample Relinquished by: JTC (900)

WORKLIST(Hardcopy Internal Chain)

VF131174

WorkList Name : %1-p2809 WorkList ID : 180971 Department : Wet-Chemistry Date : 06-11-2024 11:05:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P2809-22	MYD4S7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/05/2024	Chemtech -SO

Date/Time 06-11-24 11:30
 Raw Sample Received by: JD Wolf
 Raw Sample Relinquished by: JT (Swp)

Date/Time 06-11-24 12:30
 Raw Sample Received by: JT (Swp)
 Raw Sample Relinquished by: JD Wolf