SDG COVER PAGE

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

Lab Code: ACE Case No.: 51759 MA No.: 3227.1 SDG No.: ME29D7

SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
ME29D7	P4976-01	X	X		
ME29D8	P4976-02	X	X		
ME29D9	P4976-03	X	X		
ME29E0	P4976-04	X	X		
ME29E1	P4976-05	X	X		
ME29E2	P4976-06	X	X		
ME29E3	P4976-07	X	X		
ME29E4	P4976-08	X	X		
ME29E4D	P4976-09	X	X		
ME29E4S	P4976-10	X	X		
ME29E5	P4976-11	X	X		
ME29E6	P4976-12	X	X		
ME29E7	P4976-13	X	X		
ME29E8	P4976-14	X	X		
ME29E9	P4976-15	X	X		
ME29F0	P4976-16	X	X		
ME29F1	P4976-17	X	X		
ME29F2	P4976-18	X	X		
ME29F3	P4976-19	X	X		
ME29F4	P4976-20	X	X		
ME29F5	P4976-21	X	X		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. All edits and manual integrations have been peer-reviewed. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: _____

Date: _____ Title: _____

68HERH20D0011 SDG # ME29D7

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: GW3_MTL_CLP

DateShipped: 11/22/2024
CarrierName: FedEx
AirbillNo: 7701 2710 8373

Case #: 51759
Cooler #: 1

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

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MPW1A_1124	ME29D7	Soil/ Versar	Grab	TMTL_SB(21)	B (Ice) (1)	MPW-1	11/13/2024 13:15	
MPW1B_1124	ME29D8	Soil/ Versar	Grab	TMTL_SB(21)	1266 (Ice) (1)	MPW-1	11/13/2024 13:45	
MPW1C_1124	ME29D9	Soil/ Versar	Grab	TMTL_SB(21)	1268 (Ice) (1)	MPW-1	11/13/2024 14:20	
MPW1D_1124	ME29E0	Soil/ Versar	Grab	TMTL_SB(21)	1270 (Ice) (1)	MPW-1	11/13/2024 14:45	
MPW92A_1124	ME29E1	Soil/ Versar	Grab	TMTL_SB(21)	1273 (Ice) (1)	MPW-2	11/14/2024 13:40	
MPW2A_1124	ME29E2	Soil/ Versar	Grab	TMTL_SB(21)	1276 (Ice) (1)	MPW-2	11/14/2024 13:40	
MPW2B_1124	ME29E3	Soil/ Versar	Grab	TMTL_SB(21)	1278 (Ice) (1)	MPW-2	11/14/2024 14:00	
MPW2C_1124	ME29E4	Soil/ Versar	Grab	TMTL_SB(21)	1280 (Ice) (1)	MPW-2	11/14/2024 14:25	✓
MPW2D_1124	ME29E5	Soil/ Versar	Grab	TMTL_SB(21)	1282 (Ice) (1)	MPW-2	11/14/2024 15:10	
MPW3A_1124	ME29E6	Soil/ Versar	Grab	TMTL_SB(21)	1284 (Ice) (1)	MPW-3	11/19/2024 08:35	
MPW3B_1124	ME29E7	Soil/ Versar	Grab	TMTL_SB(21)	1286 (Ice) (1)	MPW-3	11/19/2024 08:50	
MPW3C_1124	ME29E8	Soil/ Versar	Grab	TMTL_SB(21)	1288 (Ice) (1)	MPW-3	11/19/2024 09:20	
MPW3D_1124	ME29E9	Soil/ Versar	Grab	TMTL_SB(21)	1290 (Ice) (1)	MPW-3	11/19/2024 09:40	
MPW4A_1124	ME29F0	Soil/ Versar	Grab	TMTL_SB(21)	1293 (Ice) (1)	MPW-4	11/21/2024 09:30	
MPW4B_1124	ME29F1	Soil/ Versar	Grab	TMTL_SB(21)	1295 (Ice) (1)	MPW-4	11/21/2024 10:00	
MPW4C_1124	ME29F2	Soil/ Versar	Grab	TMTL_SB(21)	1297 (Ice) (1)	MPW-4	11/21/2024 10:15	
MPW4D_1124	ME29F3	Soil/ Versar	Grab	TMTL_SB(21)	1299 (Ice) (1)	MPW-4	11/21/2024 11:15	
PMW1A_1124	ME29F4	Soil/ Versar	Grab	TMTL_SB(21)	1301 (Ice) (1)	PMW-1	11/18/2024 13:45	
PMW91A_1124	ME29F5	Soil/ Versar	Grab	TMTL_SB(21)	1303 (Ice) (1)	PMW-1	11/18/2024 13:45	

Sample(s) to be used for Lab QC: MPW2C_1124 Tag 1280 - Special Instructions: SATURDAY DELIVERY

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TMTL_SB=CLP Metals (ICP-AES, ICP-MS) + Hg (SB)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
			Rem	11/23/24	2.1
				10:00	IRem #1
					Temp blank [illegible]
					[illegible signature]

USEPA CLP COC (LAB COPY)
DateShipped: 11/22/2024
CarrierName: FedEx
AirbillNo: 7701 2710 8373

CHAIN OF CUSTODY RECORD

Case #: 51759
Cooler #: 1

No: GW3_MTL_CLP
Lab: Alliance Technical Group
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
MPW1A_1124	ME29D7	Soil/ Versar	Grab	TMTL_SB(21)	B (Ice) (1)	MPW-1	11/13/2024 13:15	
MPW1B_1124	ME29D8	Soil/ Versar	Grab	TMTL_SB(21)	1266 (Ice) (1)	MPW-1	11/13/2024 13:45	
MPW1C_1124	ME29D9	Soil/ Versar	Grab	TMTL_SB(21)	1268 (Ice) (1)	MPW-1	11/13/2024 14:20	
MPW1D_1124	ME29E0	Soil/ Versar	Grab	TMTL_SB(21)	1270 (Ice) (1)	MPW-1	11/13/2024 14:45	
MPW92A_1124	ME29E1	Soil/ Versar	Grab	TMTL_SB(21)	1273 (Ice) (1)	MPW-2	11/14/2024 13:40	
MPW2A_1124	ME29E2	Soil/ Versar	Grab	TMTL_SB(21)	1276 (Ice) (1)	MPW-2	11/14/2024 13:40	
MPW2B_1124	ME29E3	Soil/ Versar	Grab	TMTL_SB(21)	1278 (Ice) (1)	MPW-2	11/14/2024 14:00	
MPW2C_1124	ME29E4	Soil/ Versar	Grab	TMTL_SB(21)	1280 (Ice) (1)	MPW-2	11/14/2024 14:25	
MPW2D_1124	ME29E5	Soil/ Versar	Grab	TMTL_SB(21)	1282 (Ice) (1)	MPW-2	11/14/2024 15:10	
MPW3A_1124	ME29E6	Soil/ Versar	Grab	TMTL_SB(21)	1284 (Ice) (1)	MPW-3	11/19/2024 08:35	
MPW3B_1124	ME29E7	Soil/ Versar	Grab	TMTL_SB(21)	1286 (Ice) (1)	MPW-3	11/19/2024 08:50	
MPW3C_1124	ME29E8	Soil/ Versar	Grab	TMTL_SB(21)	1288 (Ice) (1)	MPW-3	11/19/2024 09:20	
MPW3D_1124	ME29E9	Soil/ Versar	Grab	TMTL_SB(21)	1290 (Ice) (1)	MPW-3	11/19/2024 09:40	
MPW4A_1124	ME29F0	Soil/ Versar	Grab	TMTL_SB(21)	1293 (Ice) (1)	MPW-4	11/21/2024 09:30	
MPW4B_1124	ME29F1	Soil/ Versar	Grab	TMTL_SB(21)	1295 (Ice) (1)	MPW-4	11/21/2024 10:00	
MPW4C_1124	ME29F2	Soil/ Versar	Grab	TMTL_SB(21)	1297 (Ice) (1)	MPW-4	11/21/2024 10:15	
MPW4D_1124	ME29F3	Soil/ Versar	Grab	TMTL_SB(21)	1299 (Ice) (1)	MPW-4	11/21/2024 11:15	
PMW1A_1124	ME29F4	Soil/ Versar	Grab	TMTL_SB(21)	1301 (Ice) (1)	PMW-1	11/18/2024 13:45	
PMW91A_1124	ME29F5	Soil/ Versar	Grab	TMTL_SB(21)	1303 (Ice) (1)	PMW-1	11/18/2024 13:45	

Sample(s) to be used for Lab QC: MPW2C_1124 Tag 1280 - Special Instructions: SATURDAY DELIVERY

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TMTL_SB=CLP Metals (ICP-AES, ICP-MS) (SB) (TAT 21 Days)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
samples for analysis	Hannah Ramirez Digitally signed by Hannah Ramirez DN: C=US, E=hannah.ramirez@versar.com, O=Versar Global Solutions, OU=Applied Professional & Technology Solutions, CN=Hannah Ramirez Reason: I am approving this document Date: 2024.11.25 14:32:11-05'00'	11/22/24 18:00		11/23/24 10:00	2.1°C

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of 1
Received By (Print Name) GOUSE NDIAYE		Log-in Date **11/23/2024**
Received By (Signature)		
Case Number 51759	SDG No. ME29D7	MA No. 3227.1

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.	770127108373 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 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	11/23/2024
12.Time Received	10:00

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	ME29D7	N/A	B	P4976-01	Intact
2	ME29D8	N/A	1266	P4976-02	Intact
3	ME29D9	N/A	1268	P4976-03	Intact
4	ME29E0	N/A	1270	P4976-04	Intact
5	ME29E1	N/A	1273	P4976-05	Intact
6	ME29E2	N/A	1276	P4976-06	Intact
7	ME29E3	N/A	1278	P4976-07	Intact
8	ME29E4	N/A	1280	P4976-08	Intact
9	ME29E4D	N/A	1280	P4976-09	Intact
10	ME29E4S	N/A	1280	P4976-10	Intact
11	ME29E5	N/A	1282	P4976-11	Intact
12	ME29E6	N/A	1284	P4976-12	Intact
13	ME29E7	N/A	1286	P4976-13	Intact
14	ME29E8	N/A	1288	P4976-14	Intact
15	ME29E9	N/A	1290	P4976-15	Intact
16	ME29F0	N/A	1293	P4976-16	Intact
17	ME29F1	N/A	1295	P4976-17	Intact
18	ME29F2	N/A	1297	P4976-18	Intact
19	ME29F3	N/A	1299	P4976-19	Intact
20	ME29F4	N/A	1301	P4976-20	Intact
21	ME29F5	N/A	1303	P4976-21	Intact
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 11/25/24	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.	**51759**	SDG NO.	**ME29D7**
MA NO.	**3227.1**	SOW NO.	**SFAM01.1**

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

	PAGE NOs: FROM	PAGE NOs: TO	CHECK LAB	CHECK REGION
1 . SDG Cover Page	1	1	✓	
2 . Traffic Report/Chain of Custody Record(s)	2	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	23	✓	
7 . Percent Solids Log	24	25	✓	
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	26	44	✓	
9 . Instrument raw data by instrument in analysis order	45	392	✓	
Other Data				
10 . Standard and Reagent Preparation Logs	393	543	✓	
11 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	544	545	✓	
12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	546	563	✓	
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	564	582	✓	
18 . Instrument raw data by instrument in analysis order	583	1005	✓	
Other Data				
19 . Standard and Reagent Preparation Logs	1006	1150	✓	
20 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1151	1152	✓	
21 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1153	1156	✓	
22 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
23. Extraction Logs for TCLP and SPLP	NA	NA	✓	
24. Raw GPC Data	NA	NA	✓	
25. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (Mercury)				
26. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	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	✓	

	PAGE NOs: FROM	TO	CHECK LAB	REGION
Additional				
44. EPA Shipping/Receiving Documents				
Airbill (No. of Shipments 1)	1157	1157	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1158	1160	✓	
45. Misc. Shipping/Receiving Records (list all individual records)				
	NA	NA	✓	
46. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
	1161	1162	✓	
47. Other Records and related Communication Logs (describe or list)				
	NA	NA	✓	

48. Comments:

Completed by: (CLP Lab)		Nimisha Pandya, Document Control Officer	
	(Signature)	(Print Name & Title)	(Date)
Audited by: (EPA)			
	(Signature)	(Print Name & Title)	(Date)

284 Sheffield Street
Mountainside, NJ 07092

SDG NARRATIVE

USEPA
SDG # ME29D7
CASE # 51759
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4976
MODIFIED ANALYSIS # 3227.1

A. Number of Samples and Date of Receipt

19 Soil samples were delivered to the laboratory intact on 11/23/2024

B. Parameter

Test requested for Metals CLP CLP12= Aluminum, Calcium , Iron, Magnesium , Potassium , Sodium .

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

C. Cooler Temp

Indicator Bottle**: Presence/**Absence

Cooler: 2.1^{o}C

D. Detail Documentation (related to Sample Handling Shipping, Analytical Problem, Temp of Cooler etc):

Issue 1 : A "P" or "M" prefix was listed at the beginning of a CLP sample ID.

Issue 2: The sample jars for soil samples ME29E9, ME29F1 and ME29G2 were broken inside their Ziplock bags, and all sample volume spilled into the bags. The ice water that submerged the soil samples in the bag could result in crosscontamination.

Issue 3: The COCs are issing the relinquished by information.

Issue 4: Hg analysis is not scheduled for this Case but is listed on the COC.

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Mountainside, NJ 07092

E. Corrective Action taken for above:

Resolution 1 : To maintain COC integrity, ASB requests no changes to the Sample IDs. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 2: Per Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples with the risk of cross-contamination.

Resolution 3: Per Region 5, a revised COC has been provided with the relinquished by information. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Resolution 4: Per Region 5, the laboratory will disregard Hg analysis and proceed with the analysis of the samples as scheduled. Please note the issue in the SDG Narrative

F. Analytical Techniques:

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

Inter Element correction factors (IECs) are determined annually and correction factor are applied during ICP-AES analysis.

G. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):

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

Where,

C = Instrument value in ppm (The average of all replicate exposures)
Vf = Final digestion volume (mL)
W = Initial aliquot amount (g) (Sample amount taken in prep)
S = % Solids / 100 (Fraction of Percent Solids)
DF = Dilution Factor

Example Calculation For Sample ME29D7 For Aluminum:

If C = 15.13382 ppm
Vf = 100 ml
W = 1.10 g
S = 0.92(92.0/100)
DF = 1

$$\text{Concentration (mg/kg)} = 15.13382 \times \frac{100}{1.10 \times 0.92} \times 1$$

$$= 1495.4367 \text{ mg/kg}$$

$$= 1500 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-MS Soil Sample:

Conversion of Results from µg /L or ppb to mg/kg :

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

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 ME29D7 For Antimony:

If C = 0.49ppb
Vf = 500 ml
W = 1.24 g
S = 0.92(92.0/100)
DF = 1

$$\text{Concentration (mg/kg)} = 0.49 \times \frac{500}{1.24 \times 0.92} \times 1 / 1000$$

$$= 0.214761 \text{ mg/kg}$$

$$= 0.22 \text{ mg/kg (Reported Result with Signification)}$$

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 except for Arsenic, Lead. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

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

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Mountainside, NJ 07092

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Titanium	45Sc
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: 10/31/2024	**MA:** 3227.1	**Title:** ICP-MS Analysis Plus Titanium
Method Source: SFAM01.1	**Method:** ICP-MS	
Matrix: Soil/Sediment		

Summary of Modification

The purpose of this modified analysis is to analyze soil/sediment samples by ICP-MS with the addition of the non-routine analyte Titanium (Ti). Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications

Not applicable ☐

Analyte	CAS Number	CRQL (mg/kg)	MDL (mg/kg)	Spike Added (mg/kg)
Titanium (Ti)	7440-32-6	1.0	<1.0	50

II. Calibration and QC Requirements

Not applicable ☐

The Laboratory shall:

- Ensure that a Method Detection Limit has been determined for Ti in soil/sediment matrix by the preparation method used for the samples that is less than the CRQL.
- Perform the Initial Calibration with at least one non-blank standard at or below the modified CRQL, converted to µg/L.
- Add Ti to the ICV and CCV at appropriate mid-range concentrations.
- Evaluate the ICB and CCB against the modified CRQL converted to µg/L.
- Evaluate the Preparation Blanks using the modified CRQL.
- Perform the Matrix Spike at the level specified above. Post-digestion spike requirements are per the SOW.
- Flag the Duplicates based on the modified CRQL.
- Prepare the LCS at 2 times the modified CRQL.

III. Preparation and Method Modifications

Not applicable ☒

IV. Special Reporting Requirements

Not applicable ☐

The Laboratory shall:

- Add Titanium to Form 1.
- 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.
- Ensure that the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the corrective action taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analysis including a copy of the approved modification with the SDG Narrative.

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Tuesday, November 26, 2024 1:40 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R5RSCC
Subject: Region 05 | Case 51759 | Lab ACE | Issue Damaged Samples | FINAL
Attachments: SKM_95824112311120.pdf

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Good afternoon,

Issue: The sample jars for soil samples ME29E9, ME29F1 and ME29G2 were broken inside their Ziplock bags, and all sample volume spilled into the bags. The ice water that submerged the soil samples in the bag could result in cross-contamination.
Resolution: Per Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples with the risk of cross-contamination.

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

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

T: (919) 768-4086
tasmia.zafar@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

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From: R5RSCC <R5RSCC@epa.gov>
Sent: Tuesday, November 26, 2024 12:06 PM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Subject: RE: Region 05 | Case 51759 | Lab ACE | Issue Damaged samples

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

Hi Tasmia,

The client would like for the lab to proceed with analysis even if cross-contamination is expected.

Thanks,
Amanda

Amanda Wroble, Ph.D.
Metals Chemist & Regional Sample Control Coordinator (RSCC)/CRL Sample Coordinator
USEPA Region 5 LSASD/AIMB
Chicago Regional Laboratory
536 S. Clark St. LAB-10C, 10th Floor
Chicago, IL 60605
(312) 353-0375

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Tuesday, November 26, 2024 9:56 AM
To: R5RSCC <R5RSCC@epa.gov>
Subject: Region 05 | Case 51759 | Lab ACE | Issue Damaged samples

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Hi Amanda,

While sample jars were broken inside the Ziplock bag, the ice water that submerged the soil samples in the bag could result in cross-contamination.

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

T: (919) 768-4086
tasmia.zafar@gdit.com
15036 Conference Center Drive
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From: Sohil Jodhani <Sohil.Jodhani@alliancetg.com>
Sent: Tuesday, November 26, 2024 10:36 AM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Cc: Deepak Parmar <Deepak.Parmar@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: RE: Region 05 | Case 51759 | Lab ACE | Issue Damaged samples

This Message Is From an External Sender

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

Hi Tasmia,

The sample jars were broken inside the Ziploc bag, and the ice water that submerged the soil samples in the bag could also result in cross-contamination.

Thanks & Regards,

Sohil Jodhani
QA/QC Director
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3152
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Tuesday, November 26, 2024 10:08 AM
To: Deepak Parmar <Deepak.Parmar@alliancetg.com>; Sohil Jodhani <Sohil.Jodhani@alliancetg.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>
Subject: Region 05 | Case 51759 | Lab ACE | Issue Damaged samples

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Secured by Check Point

Good morning,

Would the laboratory be able to place soil volume from broken containers for samples ME29E9, ME29F1 and ME29G2 into new containers for analysis (if ziplock did not break)?

Best Regards,
Tasmia Zafar
Associate Environmental Analyst

CLP QSS Coordinator – EPA Regions 5 & 6

T: (919) 768-4086
tasmia.zafar@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
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From: R5RSCC <R5RSCC@epa.gov>
Sent: Tuesday, November 26, 2024 9:37 AM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Subject: RE: Region 05 | Case 51759 | Lab ACE | Issue Damaged samples

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

Hi Tasmia,

Is it possible to run the analysis on the soil that spilled into the Ziploc bag if the bag itself didn't break?

Thanks,
Amanda

Amanda Wroble, Ph.D.
Metals Chemist & Regional Sample Control Coordinator (RSCC)/CRL Sample Coordinator
USEPA Region 5 LSASD/AIMB
Chicago Regional Laboratory
536 S. Clark St. LAB-10C, 10th Floor
Chicago, IL 60605
(312) 353-0375

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Monday, November 25, 2024 3:32 PM
To: R5RSCC <R5RSCC@epa.gov>
Subject: Region 05 | Case 51759 | Lab ACE | Issue Damaged samples

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Good afternoon,

Please advise on the below issue.

Issue: Soil samples ME29E9, ME29F1 and ME29G2 were received broken and there is no volume left for analysis. The laboratory would like direction on how to proceed.

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

T: (919) 768-4086
tasmia.zafar@gdit.com
15036 Conference Center Drive
Chantilly, VA 20151
www.gdit.com

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, November 25, 2024 2:16 PM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: RE: Region 05 | Case 51759 | Lab ACE | Issue Damaged sample

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

Good afternoon,

there is no volume left for all the samples for analysis. there is no evidence of cross contamination.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Monday, November 25, 2024 12:56 PM
To: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: RE: Region 05 | Case 51759 | Lab ACE | Issue Damaged sample

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Secured by Check Point

Good afternoon,

Would the laboratory confirm whether there is any evidence of cross contamination and whether there is sufficient volume remaining for analysis?

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

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Monday, November 25, 2024 10:26 AM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 05 | Case 51759 | Lab ACE | Issue Damaged sample

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Good morning,

Soil Sample ME29E9,ME29F1 and ME29G2 Received broken. The laboratory would like to know how to proceed.

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Monday, November 25, 2024 5:02 PM
To: Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc: R5RSCC
Subject: Region 05 | Case 51759 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC | FINAL
Attachments: 51759_CLP-NJ-MTL_Ship1_112224R1.pdf; SKM_95824112311120.pdf

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Secured by Check Point

Good afternoon,

Issue 1: The COCs are missing the relinquished by information.
Resolution 1: Per Region 5, a revised COC has been provided with the relinquished by information. The laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: Hg analysis is not scheduled for this Case but is listed on the COC.
Resolution 2: Per Region 5, the laboratory will disregard Hg analysis and proceed with the analysis of the samples as scheduled. Please note the issue in the SDG Narrative.

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

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

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tasmia.zafar@gdit.com
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Chantilly, VA 20151
www.gdit.com

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From: R5RSCC <R5RSCC@epa.gov>
Sent: Monday, November 25, 2024 2:47 PM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Subject: FW: Region 05 | Case 51759 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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

Hi Tasmia,

See attached COC with relinquished by sig/date/time. Hg is not needed for the metals samples.

Thanks,
Amanda

Amanda Wroble, Ph.D.
Metals Chemist & Regional Sample Control Coordinator (RSCC)/CRL Sample Coordinator
USEPA Region 5 LSASD/AIMB
Chicago Regional Laboratory
536 S. Clark St. LAB-10C, 10th Floor
Chicago, IL 60605
(312) 353-0375

From: Ramirez, Hannah [USA - EMP] <Hannah.Ramirez@versar.com>
Sent: Monday, November 25, 2024 1:33 PM
To: R5RSCC <R5RSCC@epa.gov>; Whipple, Jonathan [USA - EMP] <Jonathan.Whipple@versar.com>; Forbes, Micah [USA - EMP] <MForbes@versar.com>
Cc: Hardin, David (Erik) <hardin.erik@epa.gov>
Subject: RE: Region 05 | Case 51759 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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Revised COC attached.

Hannah Ramirez
Project Geologist, Data Manager

VERSAR GLOBAL SOLUTIONS

Direct: 757.250.7713
Mobile: 717.818.7888
Email: hannah.ramirez@versar.com
Versar.com

From: R5RSCC <R5RSCC@epa.gov>
Sent: Monday, November 25, 2024 2:15 PM

To: Ramirez, Hannah [USA - EMP] <Hannah.Ramirez@versar.com>; Whipple, Jonathan [USA - EMP] <Jonathan.Whipple@versar.com>; Forbes, Micah [USA - EMP] <MForbes@versar.com>
Cc: Hardin, David (Erik) <hardin.erik@epa.gov>
Subject: FW: Region 05 | Case 51759 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

Hi Hannah,

Please advise on the following issues:

Issue 1: The COCs are missing the relinquished by information.

Issue 2: Hg analysis is not scheduled for this Case, but is listed on the COC.

For issue #2, I checked the analytical request form and didn't see Hg except for TCLP Hg, but I wanted to confirm before responding incorrectly to the issue.

Thanks,
Amanda

Amanda Wroble, Ph.D.
Metals Chemist & Regional Sample Control Coordinator (RSCC)/CRL Sample Coordinator
USEPA Region 5 LSASD/AIMB
Chicago Regional Laboratory
536 S. Clark St. LAB-10C, 10th Floor
Chicago, IL 60605
(312) 353-0375

From: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Sent: Monday, November 25, 2024 12:05 PM
To: R5RSCC <R5RSCC@epa.gov>
Subject: Region 05 | Case 51759 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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Good afternoon,

Please advise on the below issues.

Issue 1: The COCs are missing the relinquished by information.

Issue 2: Hg analysis is not scheduled for this Case, but is listed on the COC.

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

T: (919) 768-4086

tasmia.zafar@gdit.com
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www.gdit.com

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From: Deepak Parmar <Deepak.Parmar@alliancetg.com>
Sent: Saturday, November 23, 2024 11:29 AM
To: Zafar, Tasmia (NE) <Tasmia.Zafar@gdit.com>
Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>
Subject: Region 05 | Case 51759 | Lab CHM | Issue Discrepancies with tags, jars, and/or COC

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Good morning,

Issue 1: All COC missing relinquished information.

Issue 2: As per ASR Hg analysis is not scheduled for this case, however Analysis Key mentioned Hg analysis. there for The laboratory would like to know how to proceed ?

Please see attachment for your reference.

Thanks & Regards,

Deepak Parmar
QA/QC
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3154
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 11/27/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/26/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:45
Out Date: 11/27/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133634

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
P4976-01	ME29D7	1	1.15	8.42	9.57	8.9	92.0	
P4976-02	ME29D8	2	1.18	8.50	9.68	8.75	89.1	
P4976-03	ME29D9	3	1.18	8.42	9.6	8.37	85.4	
P4976-04	ME29E0	4	1.12	8.66	9.78	9.22	93.5	
P4976-05	ME29E1	5	1.16	8.67	9.83	8.91	89.4	
P4976-06	ME29E2	6	1.19	8.52	9.71	8.81	89.4	
P4976-07	ME29E3	7	1.15	8.83	9.98	8.63	84.7	
P4976-08	ME29E4	8	1.15	8.82	9.97	8.77	86.4	
P4976-09	ME29E4D	9	1.15	8.82	9.97	8.77	86.4	
P4976-10	ME29E4S	10	1.15	8.82	9.97	8.77	86.4	
P4976-11	ME29E5	11	1.15	8.81	9.96	9.14	90.7	
P4976-12	ME29E6	12	1.15	8.39	9.54	8.78	90.9	
P4976-13	ME29E7	13	1.11	8.87	9.98	8.47	83.0	
P4976-14	ME29E8	14	1.17	8.60	9.77	9.05	91.6	
P4976-15	ME29E9	15	1.16	8.47	9.63	8.93	91.7	
P4976-16	ME29F0	16	1.12	8.61	9.73	8.61	87.0	
P4976-17	ME29F1	17	1.16	8.75	9.91	8.57	84.7	
P4976-18	ME29F2	18	1.17	8.60	9.77	8.88	89.7	
P4976-19	ME29F3	19	1.19	8.56	9.75	8.28	82.8	
P4976-20	ME29F4	20	1.18	8.35	9.53	9.15	95.4	
P4976-21	ME29F5	21	1.13	8.80	9.93	8.79	87.0	

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

WORKLIST(Hardcopy Internal Chain)

UB 133634

WorkList Name : %1-p4976 **WorkList ID :** 185792 **Department :** Wet-Chemistry **Date :** 11-26-2024 14:20:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4976-01	ME29D7	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/13/2024	Chemtech -SO
P4976-02	ME29D8	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/13/2024	Chemtech -SO
P4976-03	ME29D9	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/13/2024	Chemtech -SO
P4976-04	ME29E0	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/13/2024	Chemtech -SO
P4976-05	ME29E1	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/13/2024	Chemtech -SO
P4976-06	ME29E2	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/14/2024	Chemtech -SO
P4976-07	ME29E3	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/14/2024	Chemtech -SO
P4976-08	ME29E4	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/14/2024	Chemtech -SO
P4976-09	ME29E4D	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/14/2024	Chemtech -SO
P4976-10	ME29E4S	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/14/2024	Chemtech -SO
P4976-11	ME29E5	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/14/2024	Chemtech -SO
P4976-12	ME29E6	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/14/2024	Chemtech -SO
P4976-13	ME29E7	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/19/2024	Chemtech -SO
P4976-14	ME29E8	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/19/2024	Chemtech -SO
P4976-15	ME29E9	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/19/2024	Chemtech -SO
P4976-16	ME29F0	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/19/2024	Chemtech -SO
P4976-17	ME29F1	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/21/2024	Chemtech -SO
P4976-18	ME29F2	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/21/2024	Chemtech -SO
P4976-19	ME29F3	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/21/2024	Chemtech -SO
P4976-20	ME29F4	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/21/2024	Chemtech -SO
P4976-21	ME29F5	Solid	Percent Solids	Cool 4 deg C	USEP01	C31	11/18/2024	Chemtech -SO

Date/Time 11.26.24 14:30

Raw Sample Received by: JB WDC

Raw Sample Relinquished by: ITC(SM)

Date/Time 11.26.24 15:20

Raw Sample Received by: ITC(SM)

Raw Sample Relinquished by: JB WDC