

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51772 MA No.: 3225.1,3226.1 SDG No.: MYDBF4
SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
<u>MYDBF4</u>	<u>P4333-01</u>	<u>X</u>	<u>X</u>	<u></u>	<u></u>
<u>MYDBF5</u>	<u>P4333-02</u>	<u>X</u>	<u>X</u>	<u></u>	<u></u>
<u>MYDBF5D</u>	<u>P4333-03</u>	<u>X</u>	<u>X</u>	<u></u>	<u></u>
<u>MYDBF5S</u>	<u>P4333-04</u>	<u>X</u>	<u>X</u>	<u></u>	<u></u>

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: _____

Airbill No: 7790 2090 4704

CHAIN OF CUSTODY RECORD

68HERH20D0011

SDG # MYDBF4

No: 9-062424-103902-0081

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed

Lab Phone: 908-728-3151

Case #: 51772
Cooler #: 51772-132

[illegible]

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Sample(s) to be used for Lab Q/C: 109-A-0007-03 Tag 9-5433 - Special Instructions: CP-AES
11+Metals:Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Ti,V,Zn ICP-MS 11+ Metals: Ag, As, Ba,Be, Cd, Co, Cr, Cu, Ni, Pd, Sb, Se, Ti, V, Zn
Cu, Ni, Pd, Sb, Se, Ti, V, Zn

Analysis Key: ICP-AES 11 ICP-MS 11=CLP ICP-AES 11 Metals and ICP-MS 11 Metals

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples To Lab	THA Jagan	Stipend: 10/04/2024 10:00	JA	10-7-24 1059	21.8°C IR gun #1
					to custody 5445 in 1A6
					no Temp OK

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>Gorge Noyon</u>	Log-in Date 10/7/2024
Received By (Signature) <u>[Signature]</u>	
Case Number 51772	SDG No. MYDBF4 MA No. 3225.1,3226.1

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779020904704</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	<u>21.8</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>10/07/2024</u>
12. Time Received	<u>10:59</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MYDBF4	N/A	9-5432	P4333-01	Intact
2	MYDBF5	N/A	9-5433	P4333-02	Intact
3	MYDBF5D	N/A	9-5433	P4333-03	Intact
4	MYDBF5S	N/A	9-5433	P4333-04	Intact
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>10/7/24</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.	51772	SDG NO.	MYDBF4
MA NO.	3225.1, 3226.1	SOW NO.	SFAM01.1

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

	PAGE NOs:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	2	✓	
3. Sample Log-In Sheet (DC-1)	3	3	✓	
4. CSF Inventory Sheet (DC-2)	4	6	✓	
5. SDG Narrative	7	16	✓	
6. Communication Logs	17	21	✓	
7. Percent Solids Log	22	24	✓	
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	25	26	✓	
9. Instrument raw data by instrument in analysis order	27	212	✓	
Other Data				
10. Standard and Reagent Preparation Logs	213	362	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	363	364	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	365	371	✓	
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	372	373	✓	
18. Instrument raw data by instrument in analysis order	374	1228	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1229	1368	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1369	1370	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1371	1378	✓	
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 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

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
1379	1379	✓	
NA	NA	✓	
1380	1380	✓	
NA	NA	✓	
1381	1382	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MYDBF4

CASE # 51772

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P4333

MODIFIED ANALYSIS #3225.1, 3226.1

A. Number of Samples and Date of Receipt

02 Soil samples were delivered to the laboratory intact on 10/07/2024.

B. Parameters

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

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: 21.8°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 original copy of COC# 9-062424-103902-0081, page 5, is missing the relinquished signature and date/time. The laboratory is requesting an updated COC with a signature and date/time.

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, an updated and signed page 5 of the COC has been attached. 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.

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):

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

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 MYDBF4 For Antimony:

If C = 0.0099203 ppm

Vf = 100 ml

W = 1.46g

S = 0.935(93.5/100)

DF = 2

$$\text{Concentration (mg/kg)} = 0.0099203 \times \frac{100}{1.46 \times 0.935} \times 2$$

$$= 1.45341 \text{ mg/kg}$$

$$= 1.5 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-MS Soil Sample:

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



**284 Sheffield Street
Mountainside, NJ 07092**

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

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 MYDBF4 For Antimony :

If C = 2.29 ppb

Vf = 500 ml

W = 1.46 g

S = 0.935 (93.5/100)

DF = 1

$$\text{Concentration (mg/kg)} = 2.29 \times \frac{500}{1.46 \times 0.935} \times 1 / 1000$$

$$= 0.8387 \text{ mg/kg}$$

$$= 0.84 \text{ mg/kg (Reported Result with Signification)}$$

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 (MYDBF5S) did meet requirements except for Beryllium . 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.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb



**284 Sheffield Street
Mountainside, NJ 07092**

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: 09/11/2024	MA: 3225.1	Title: ICP-MS with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC
Method Source: SFAM01.1	Method: ICP-MS	
Matrix: Soil/Sediment		
Summary of Modification		
<p>The purpose of this modified analysis is to 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>		
I. Analyte Modifications		Not applicable <input checked="" type="checkbox"/>
II. Calibration and QC Requirements		Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • 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 <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • Prepare and analyze the sample by EPA Draft Method 3050C as follows: <ul style="list-style-type: none"> ○ 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. ○ Reduce volume to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C). ○ 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.
- 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.

Date: 09/11/2024	MA: 3226.1	Title: ICP-AES with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC
Method Source: SFAM01.1	Method: ICP-AES	
Matrix: Soil/Sediment		
Summary of Modification		
<p>The purpose of this modified analysis is to 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-AES. 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>		
I. Analyte Modifications		Not applicable <input checked="" type="checkbox"/>
II. Calibration and QC Requirements		Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • Use the Method Detection Limits determined for routine soil analyses (i.e., Method 3050B) 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 two times the levels specified in the SOW. • Post-Digestion Spike requirements apply to the 2x Matrix Spike. • Post-Digestion Spike corrective actions apply to Sb. 		
III. Preparation and Method Modifications		Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • Prepare and analyze the sample by EPA Draft Method 3050C as follows: <ul style="list-style-type: none"> ○ 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. ○ Reduce volume to 5 mL or reflux without boiling for 2 hours at 95°C (±3°C). ○ Dilute to 100 mL with water, centrifuge or filter as necessary prior to analysis. • The same sample extracts can also be used for ICP-MS 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 2x dilution. Subsequently, dilute samples as necessary to bring the analyte concentrations within the calibration range of the instrument per the SOW. • Verify that the dilution was adequate to reduce interferences to within the method calibration range. This can optionally be verified by visual verification of the spectrogram or by analysis of a serial dilution. There are other acceptable means to provide assurance, e.g. some software may automatically provide guidance to the analyst. • Method Blanks, both LCS, and all instrument QC are to be analyzed undiluted. 		

IV. Special Reporting Requirements	Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • 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. • Initial analysis data are reported with a dilution factor of 2.0 and a final volume of 100 mL, per the SOW. • Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory_Control_Sample_Duplicate". • Ensure that up-to-date Interelement Correction Factors (IECs) are provided with the data package. 	

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
As 189.042 {479}	<input checked="" type="checkbox"/>	1	Fe	-0.000064	0.000000	No
Ti 190.856 {477}	<input checked="" type="checkbox"/>	5	Mo	-0.002450	0.000000	No
			Co	0.002248	0.000000	No
			Ti	-0.000500	0.000000	No
			Mn	0.000370	0.000000	No
			V	-0.012340	0.000000	No
Pb 220.353 {453}	<input checked="" type="checkbox"/>	6	Mo	-0.001480	0.000000	No
			Al	-0.000075	0.000000	No
			Cu	0.001400	0.000000	No
			Fe	0.000030	0.000000	No
			Mn	0.000340	0.000000	No
			Ni	0.000630	0.000000	No
Se 196.090 {472}	<input checked="" type="checkbox"/>	3	Fe	-0.000308	0.000000	No
			Mn	0.000470	0.000000	No
			Co	-0.000630	0.000000	No
Sb 206.833 {463}	<input checked="" type="checkbox"/>	4	Cr	0.010700	0.000000	No
			V	-0.001168	0.000000	No
			Mo	-0.002850	0.000000	No
			Ni	-0.000440	0.000000	No
Al 396.152 { 85}	<input checked="" type="checkbox"/>	1	Mo	0.037230	0.000000	No
Ba 493.409 { 68}	<input type="checkbox"/>	None				
Be 234.861 {144}	<input checked="" type="checkbox"/>	3	Mo	-0.000320	0.000000	No
			Fe	0.000010	0.000000	No
			Mn	-0.000047	0.000000	No
Cd 214.438 {457}	<input checked="" type="checkbox"/>	1	Fe	0.000040	0.000000	No
Ca 373.690 { 90}	<input type="checkbox"/>	None				
Cr 267.716 {126}	<input checked="" type="checkbox"/>	1	Mn	0.000160	0.000000	No
Co 228.616 {448}	<input checked="" type="checkbox"/>	2	Ti	0.001840	0.000000	No
			Mo	-0.001230	0.000000	No
Cu 324.754 {104}	<input checked="" type="checkbox"/>	4	Co	-0.000796	0.000000	No
			Fe	-0.000100	0.000000	No
			Mn	0.000345	0.000000	No
			Ni	0.000895	0.000000	No
Fe 259.837 {130}	<input type="checkbox"/>	None				
Mn 257.610 {131}	<input checked="" type="checkbox"/>	1	Ni	0.000897	0.000000	No
Mg 279.079 {121}	<input type="checkbox"/>	None				
Ni 231.604 {446}	<input type="checkbox"/>	None				
Ag 328.068 {103}	<input checked="" type="checkbox"/>	3	Fe	-0.000100	0.000000	No
			Mn	0.000146	0.000000	No
			V	-0.000889	0.000000	No
Na 818.326 { 41}	<input type="checkbox"/>	None				
V 292.402 {115}	<input checked="" type="checkbox"/>	2	Mo	-0.008480	0.000000	No
			Cr	-0.002220	0.000000	No
Zn 206.200 {464}	<input type="checkbox"/>	None				
Zn 213.856 {158}	<input checked="" type="checkbox"/>	1	Ni	0.007280	0.000000	No
K 769.896 { 44}	<input type="checkbox"/>	None				
P 177.495 {490}	<input checked="" type="checkbox"/>	2	Ni	0.001640	0.000000	No
			Cu	-0.012530	0.000000	No
B 249.678 {135}	<input checked="" type="checkbox"/>	3	Co	0.002880	0.000000	No
			V	-0.002000	0.000000	No
			Fe	-0.001360	0.000000	No
Mo 202.030 {467}	<input type="checkbox"/>	None				
S 182.034 {485}	<input checked="" type="checkbox"/>	2	Mo	-0.008000	0.000000	No
			Mn	0.002700	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-In-fit?
Si 251.611 {134}	<input checked="" type="checkbox"/>	2	Mo	0.010520	0.000000	No
			Ti	0.005650	0.000000	No
Sn 189.989 {478}	<input type="checkbox"/>	None				
Ti 336.121 {100}	<input checked="" type="checkbox"/>	1	Ni	-0.001000	0.000000	No
Li 670.784 { 50}	<input type="checkbox"/>	None				
Y 224.306 {450}*	<input type="checkbox"/>	None				
Y 360.073 { 94}*	<input type="checkbox"/>	None				
Y 371.030 { 91}*	<input type="checkbox"/>	None				
Y 224.306 {150}*	<input type="checkbox"/>	None				
In 230.606 {446}*	<input type="checkbox"/>	None				
Sr 407.771 { 83}	<input type="checkbox"/>	None				

From: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Sent: Friday, October 11, 2024 4:34 PM
To: Sohil Jodhani; Mohammad Ahmed; Deepak Parmar
Cc: R9RSCC (R9RSCC@epa.gov); carmon.jamie@epa.gov; Spiegel, Michael (he/him/his); Britz, Helen; Moody, Brett; Myer, Shari; Bauer, Heather E; Johnson, Matthew; Ackerman, Eric; David, Edgardo D
Subject: Region 09 | Case 51772 | Lab ACE | Issue Missing signature on COC | FINAL
Attachments: P4333-TR-0081signed.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Good afternoon,

Please see the resolution below.

Issue: The original copy of COC# 9-062424-103902-0081, page 5, is missing the relinquished signature and date/time. The laboratory is requesting an updated COC with a signature and date/time.

Resolution: Per Region 9, an updated and signed page 5 of the COC has been attached. 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, 7, and 9

Work Phone: +1 571-454-0346

Miles.Hairston@gdit.com

15036 Conference Center Drive

Chantilly, VA 20151

www.gdit.com

Leave alert: October 14 and October 21 - 22

GENERAL DYNAMICS
Performance. Together.

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: Friday, October 11, 2024 3:15 PM
To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>
Cc: R9RSCC <R9RSCC@epa.gov>
Subject: FW: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Missing signature on COC

This Message Is From an External Sender

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

Hi Miles,

Revised COC for missing signature.

Thanks!

-Jamie

Jamie Carmon (she/her)

Region 9

RSCC (Regional Sample Control Coordinator)

Email: R9RSCC@epa.gov

The R9 lab will be closed Monday, October 14th in observance of the Federal holiday.
- The lab will resume normal hours October 15th.

From: Hairston, Miles (NE)

Sent: Friday, October 11, 2024 2:57 PM

To: R9RSCC (R9RSCC@epa.gov) R9RSCC@epa.gov; carmon.jamie@epa.gov; Spiegel, Michael (he/him/his) Spiegel.Michael@epa.gov

Cc: Britz, Helen Britz.Helen@epa.gov; Moody, Brett Moody.Brett@epa.gov; Myer, Shari Myer.Shari@epa.gov; Bauer, Heather E Heather.Bauer@gdit.com; Johnson, Matthew Matthew.Johnson32@gdit.com; Ackerman, Eric Eric.Ackerman@WestonSolutions.com

Subject: Region 09 | Case 51772 | Lab ACE | Issue Missing signature on COC

Good afternoon,

I would like to follow up on the email below. Please advise on the issue below.

Issue: The original copy of COC# 9-062424-103902-0081, page 5, is missing the relinquished signature and date/time. The laboratory is requesting an updated COC with a signature and date/time.

Thanks,

Miles Hairston

Associate Environmental Analyst

Under contract to EPA

QSS Coordinator – EPA Regions 1, 8, 7, and 9

Work Phone: +1 571-454-0346

Miles.Hairston@gdit.com

15036 Conference Center Drive

Chantilly, VA 20151

www.gdit.com

Leave alert: October 14 and October 21 - 22



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: Walzer, Thomas <T.A.Walzer@WestonSolutions.com>

Sent: Friday, October 11, 2024 7:18 AM

To: R9RSCC <R9RSCC@epa.gov>; Guijarro, Carolina <carolina.guijarro@WestonSolutions.com>; Leatherbury, Ryan <Ryan.Leachbury@westonsolutions.com>; Rodriguez, Anthony <anthony.rodriguez@westonsolutions.com>; Grossman, Scott <grossman.scott@epa.gov>

Subject: RE: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Missing signature on COC

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



Thomas Walzer

Principal Analyst  

 (713) 705-1467  T.A.Walzer@WestonSolutions.com

 Environmental and Infrastructure Solutions

From: R9RSCC <R9RSCC@epa.gov>

Sent: Thursday, October 10, 2024 10:45 AM

To: Guijarro, Carolina <Carolina.Guijarro@WestonSolutions.com>; Walzer, Thomas <T.A.Walzer@WestonSolutions.com>; Leatherbury, Ryan <Ryan.Leachbury@WestonSolutions.com>; Rodriguez, Anthony <Anthony.Rodriguez@WestonSolutions.com>; Grossman, Scott <grossman.scott@epa.gov>

Cc: R9RSCC <R9RSCC@epa.gov>

Subject: [EXT]:FW: Region 09 | Case 51772 | Lab ACE | Issue Missing signature on COC

***** External Message *** -- PROBE message before clicking links or opening attachments.**

Hi Carolina,

Please advise on the issue below.

Issue: The original copy of COC# 9-062424-103902-0081, page 5, is missing the relinquished signature and date/time. The laboratory is requesting an updated COC with a signature and date/time.

Thanks!

-Jamie

Jamie Carmon (she/her)

Region 9

RSCC (Regional Sample Control Coordinator)

Email: R9RSCC@epa.gov

The R9 lab will be closed Monday, October 14th in observance of the Federal holiday.

- The lab will resume normal hours October 15th.

From: Hairston, Miles (NE)

Sent: Thursday, October 10, 2024 11:05 AM

To: R9RSCC (R9RSCC@epa.gov) R9RSCC@epa.gov; carmon.jamie@epa.gov; Spiegel, Michael (he/him/his) Spiegel.Michael@epa.gov

Cc: Britz, Helen Britz.Helen@epa.gov; Moody, Brett Moody.Brett@epa.gov; Myer, Shari Myer.Shari@epa.gov; Bauer, Heather E Heather.Bauer@gdit.com; Johnson, Matthew Matthew.Johnson32@gdit.com; Ackerman, Eric Eric.Ackerman@WestonSolutions.com

Subject: Region 09 | Case 51772 | Lab ACE | Issue Missing signature on COC

Good morning,

Please advise on the issue below.

Issue: The original copy of COC# 9-062424-103902-0081, page 5, is missing the relinquished signature and date/time. The laboratory is requesting an updated COC with a signature and date/time.

Thanks,

Miles Hairston

Associate Environmental Analyst

Under contract to EPA

QSS Coordinator – EPA Regions 1, 8, 7, and 9

Work Phone: +1 571-454-0346

Miles.Hairston@gdit.com

15036 Conference Center Drive

Chantilly, VA 20151

www.gdit.com

Leave alert: October 14 and October 21 - 22

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: Thursday, October 10, 2024 9:58 AM

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

Cc: Sohil Jodhani <Sohil.Jodhani@AllianceTG.com>; David, Edgardo D <Edgardo.David@gdit.com>

Subject: Region 09 | Case 51772 | 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,

Attached COC missing relinquished information.

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



CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/11/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:15
In Date: 10/10/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:55
Out Date: 10/11/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB132865

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
P4332-01	MYDBD4	1	1.18	8.44	9.62	9.33	96.6	
P4332-02	MYDBD5	2	1.15	8.52	9.67	9.37	96.5	
P4332-03	MYDBD6	3	1.18	8.64	9.82	9.57	97.1	
P4332-04	MYDBD7	4	1.18	8.65	9.83	9.59	97.2	
P4332-05	MYDBD8	5	1.18	8.62	9.8	9.55	97.1	
P4332-06	MYDBD9	6	1.15	8.40	9.55	9.31	97.1	
P4332-07	MYDBE0	7	1.18	8.43	9.61	9.36	97.0	
P4332-08	MYDBE1	8	1.15	8.38	9.53	9.13	95.2	
P4332-09	MYDBE2	9	1.18	8.44	9.62	9.18	94.8	
P4332-10	MYDBE3	10	1.16	8.51	9.67	9.35	96.2	
P4332-11	MYDBE4	11	1.18	8.45	9.63	9.29	96.0	
P4332-12	MYDBE5	12	1.17	8.72	9.89	9.56	96.2	
P4332-13	MYDBE6	13	1.17	8.58	9.75	9.47	96.7	
P4332-14	MYDBE6D	14	1.17	8.58	9.75	9.47	96.7	
P4332-15	MYDBE6S	15	1.17	8.58	9.75	9.47	96.7	
P4332-16	MYDBE7	16	1.15	8.68	9.83	9.54	96.7	
P4332-17	MYDBE8	17	1.15	8.41	9.56	9.2	95.7	
P4332-18	MYDBE9	18	1.18	8.48	9.66	9.41	97.1	
P4332-19	MYDBF0	19	1.14	8.63	9.77	9.38	95.5	
P4332-20	MYDBF1	20	1.15	8.38	9.53	8.82	91.5	
P4332-21	MYDBF2	21	1.18	8.50	9.68	9.21	94.5	
P4332-22	MYDBF3	22	1.18	8.46	9.64	9.32	96.2	
P4333-01	MYDBF4	23	1.19	8.50	9.69	9.14	93.5	
P4333-02	MYDBF5	24	1.15	8.48	9.63	9.21	95.0	
P4333-03	MYDBF5D	25	1.15	8.48	9.63	9.21	95.0	
P4333-04	MYDBF5S	26	1.15	8.48	9.63	9.21	95.0	

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

132865

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-P4332 WorkList ID : 184319 Department : Wet-Chemistry Date : 10-10-2024 12:53:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4332-01	MYDBD4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-02	MYDBD5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-03	MYDBD6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-04	MYDBD7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-05	MYDBD8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-06	MYDBD9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-07	MYDBE0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-08	MYDBE1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-09	MYDBE2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-10	MYDBE3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-11	MYDBE4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-12	MYDBE5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-13	MYDBE6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-14	MYDBE6D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-15	MYDBE6S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-16	MYDBE7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-17	MYDBE8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-18	MYDBE9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-19	MYDBF0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-20	MYDBF1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4332-21	MYDBF2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO

Date/Time 10/10/24 15:15
Raw Sample Received by: [Signature] 16120
Raw Sample Relinquished by: [Signature] 16120

WORKLIST(Hardcopy Internal Chain)

132865

WorkList Name : %1-P4332 WorkList ID : 184319 Department : Wet-Chemistry Date : 10-10-2024 12:53:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4332-22	MYDBF3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q11	06/21/2024	Chemtech -SO
P4333-01	MYDBF4	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/21/2024	Chemtech -SO
P4333-02	MYDBF5	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/21/2024	Chemtech -SO
P4333-03	MYDBF5D	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/21/2024	Chemtech -SO
P4333-04	MYDBF5S	Solid	Percent Solids	Cool 4 deg C	USEP01	A11	06/21/2024	Chemtech -SO

Date/Time 10/10/24 15:15
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

Date/Time 10/10/24 16:20
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]