SDG COVER PAGE

Lab Name:	Alliance	e Technical Group, LLC	Contract	68HERH2	0D0011	
Lab Code:	ACE	Case No.: 51952	MA No.:			SDG No.: A6301
SOW No. :	SFAM01.	1				
EPA Sampl	e No.	Lab Sample Id	ICP-AES	Analys: ICP-MS	is Method Mercury	Cyanide
A6301		Q1223-01	Х	Х	X	
A6302		Q1223-02	X	Х	Х	
A6303		Q1223-03	X	Х	Х	
A6304		Q1223-04	Х	Х	X	
A6305		Q1223-05	X	Х	Х	
A6305D		Q1223-06	Х	Х	Х	
A6305S		Q1223-07	X	Х	Х	
A6306		Q1223-08	X	Х	Х	
A6307		Q1223-09	X	Х	Х	
A6308		Q1223-10	X	Х	Х	
A6309		Q1223-11	X	Х	Х	
A6320		Q1223-12	X	Х	Х	
A6321		Q1223-13	X	Х	Х	
A6322		Q1223-14	X	Х	Х	
A6323		Q1223-15	Х	Х	Х	
A6324		Q1223-16	Х	Х	X	
A6310		Q1223-17		Х	Х	

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:

Page 1 of 2

USEPA CLP COC (LAB COPY)

DateShipped: 1/29/2025

CarrierName: FedEx AirbillNo: 771732886964

68HERH20D0011 CHAIN OF CUSTODY RECORD

Case #: 51952 Cooler #: 2

SDG # A6301 No: 1-012825-084544-0012

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 9087898900

For Lab Use Only	1 54				5.2	6	5	2	4	PH 1.9	
Collection Date/Time	01/27/2025 09:15	01/27/2025 09:45	01/27/2025 11:30	01/27/2025 12:00	01/27/2025 11:45	01/27/2025 12:45	01/27/2025 13:15	01/27/2025 13:40	01/27/2025 14:30	01/27/2025 16:00	
Location	SD/SW-004	SD/SW/PW-006	SD/SW-009	FD-01	SD/SW/PW- 009-SRI	SD/SW/PW-010	SD-015	SD/SW-014	SD/SW/PW-003	Equipment Blank	
Tag/Preservative/Bottles	A (4 C), C (4 C) (2)	D (4 C), E (4 C) (6)	D (4 C), E (4 C) (2)	F (4 C), G (4 C) (2)	H (4 C), I (4 C) (2)	J (4 C), K (4 C) (2)	L (HNO3), M (4 C) (4)	Instructions: Sadiment			
Analysis/Turnaround (Days)	Metals + Hg(21), PAH SIM(21)	Metais + Hg(21), PAH SIM(21)	0-SRI-010705 Tad F - Sherial								
Coll. Method											ad D SD-00
Matrix/Sampler	Sediment/ T.Furtado	Equipment Blank/ T.Furtado	5D-009-SRI-012725 T								
CLP Sample No.	A6301	A6302	A6303	A6304	A6305	A6306	A6307	A6308	A6309	A6310	for Lah OC- 6
Sample Identifier	SD-004-012725	SD-006-012725	SD-009-012725	SD-FD01-012725	SD-009-SRI- 012725	SD-010-012725	SD-015-012725	SD-014-012725	SD-003-012725	SD-EB-012725	Samnia(s) to he used

1.1 2.4 Custady Seel Thee Sample Condition Upon Receipt TP. Cont up an 1-30-25 Date/Time Received by (Signature and Organization) 1/29/25 0800 Date/Time Relinquished by (Signature and Organization) Items/Reason Analysis Key

Samples Transferred From Chain of Custody #

Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn

ICP-AES: AI, Ca, Fe, K, Mg, Na

Page 2 of 2

USEPA CLP COC (LAB COPY)

DateShipped: 1/29/2025

CarrierName: FedEx AirbillNo: 771732886964

68HERH20D0011 CHAIN OF CUSTODY RECORD

Case #: 51952 Cooler #: 2

SDG # A6301 No: 1-012825-084544-0012

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 9087898900

ab Use. Inly					
For	_			-	
Collection Date/Time	01/28/2025 09:40	01/28/2025 11:50	01/28/2025 11:55	01/28/2025 14:40	01/28/2025 15:20
Location	SD/SWPW-021	SD/SW-018	SD/SW-019	SD/SW-020	SD/SW/PW- 008-SRI
Tag/Preservative/Bottles	J (4 C), K (4 C) (2)	L (4 C), M (4 C) (2)	N (4 C), O (4 C) (2)	P (4 C), Q (4 C) (2)	R (4 C), S (4 C) (2)
Analysis/Turnaround (Days)	Metals + Hg(21), PAH SIM(21)	Metals + Hg(21), PAH SIM(21)	Metals + Hg(21), PAH SIM(21)	Metais + Hg(21), PAH SiM(21)	Metals + Hg(21), PAH SIM(21)
Coll. Method					
Matrix/Sampler	Sediment/ T.Furtado	Sediment/ T.Furtado	Sediment/ T.Furtado	Sediment/ T.Furtado	Sediment/ T.Furtado
CLP Sample No.	A6320	A6321	A6322	A6323	A6324
Sample Identifier	SD-021-012825	SD-018-012825	SD-019-012825	SD-020-012825	SD-008-SRI- 012825

A Hul with a class - (X) - (X)	Received by (Signature and Organization)	Date/Time Recei	Received by (Signature a	Received by (Signat	ignature and Organization	ion) Date/Tim	lime Sample Condition	on Upon Receipt
month 82-ad-1 11-1-1 11-1-1 11-1-1	5	Noto July	too CA.	3		92-06-1	25 Thilows	+ 2.4
(Lustady							rustody Se	eal Inhack

Samples Transferred From Chain of Custody #

Special Instructions: Sediment samples require 72 hour preliminary results. Sediment ICP-MS: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Tl, V, Zn

ICP-AES: AI, Ca, Fe, K, Mg, Na

Shipment for Case Complete? N

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alli	ance Technical Group	, LLC	\cap			Page_1_of	2	
Received By (Pr	rint Name)	va	Reja			Log-in Dat	e 1/30/20	025
Received By (Si	gnature)							
Case Number	51952	SDO	No. A630	1		MA No. N	/A	
	1					1		
Remarks:						Correspondi	na	
1. Custody Seal (s)	Present, Intact			Aqueous	s/			Remarks: Condition
2. Custody Seal Nos.	<u>n/a</u>		EPA Sample #	Water Sample pH	Sam Tag	nple #	Assigned	of Sample Shipment, etc.
3. Traffic Reports/Chain Of	Present	1	A6301	N/A	A		01223-01	Intact
Custody Records		2	A6302	N/A	A		01223-02	Intact
4 Airbill		3	A6303	N/A	A		Q1223-03	Intact
+. Anom	Present	4	A6304	N/A	A		Q1223-04	Intact
5. Airbill No. and 771732886964		5	A6320	N/A	J		Q1223-12	Intact
Shipping Container	1	6	A6321	N/A	L		Q1223-13	Intact
(Shinning Containing		7	A6322	N/A	N		Q1223-14	Intact
6. Shipping Container Temperature	Present	8	A6323	N/A	P		Q1223-15	Intact
Indicator Bottle		9	A6324	N/A	R		Q1223-16	Intact
7. Shipping Container	2.3 Degree C	10	N/A	N/A	N/A		N/A	N/A
Temperature		11	N/A	N/A	N/A		N/A	N/A
8. Sample	Intact	12	N/A	N/A	N/A		N/A	N/A
Condition		13	N/A	N/A	N/A		N/A	N/A
		14	N/A	N/A	N/A		N/A	N/A
9. Sample Tags Sample Tag	Absent	15	N/A	N/A	N/A		N/A	N/A
Numbers	Listed on Traffic	16	N/A	N/A	N/A		N/A	N/A
10 Doos information	Report	17	N/A	N/A	N/A		N/A	N/A
on Traffic	Yes	18	N/A	N/A	N/A		N/A	N/A
Reports/Chain of Custody Records		19	N/A	N/A	N/A		N/A	N/A
and Sample Tags		20	N/A	N/A	N/A		N/A	N/A
agree ?		21	N/A	N/A	N/A		N/A	N/A
11. Date Received at Lab	01/30/2025	22	N/A	N/A	N/A		N/A	N/A
12.Time Received	09:53	23]N/A	N/A	N/A		N/A	N/A

* Contact SMO and attach record of esolution

Reviewed By		Logbook No.	N/A	
Date	1/30/25	Logbook Page No.	N/A	

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alli	ance Technical Group	, LLC	0			Page 2 of	2	
Received By (Pr	int Name)	1	Peri			Log-in Date	e 1/30/20)25
Received By (Si	gnature)		fre					
Case Number	51952	SDG	No. A630	1		MA No. N	/A	
Remarks:						Correspondi	na	
1. Custody Seal (s)	Present, Intact			Aqueous	, ,			Remarks: Condition
2. Custody Seal Nos.	<u>n/a</u>		EPA Sample #	Water Sample pH	Sam Tag	iple #	Assigned	of Sample Shipment, etc.
3. Traffic Reports/Chain Of	Present	1	A6305	N/A	D		01223-05	Intact
Custody Records		2	A6305D	N/A	D		01223-06	Intact
4 Airbill	Durant	3	A6305S	N/A	D		Q1223-07	Intact
7. AIIDIII	Present	4	A6306	N/A	D		Q1223-08	Intact
5. Airbill No. and	771732887478	5	A6307	N/A	F		Q1223-09	Intact
Shipping Container ID No.	2	6	A6308	N/A	н		Q1223-10	Intact
6 Shinning Container		7	A6309	N/A	נ		Q1223-11	Intact
Temperature	Present	8	A6310	1.9	L,M		Q1223-17	Intact
Indicator Bottle		9	N/A	N/A	N/A		N/A	N/A
7. Shipping Container	2.4 Degree C	10	N/A	N/A	N/A		N/A	N/A
Temperature		11	N/A	N/A	N/A		N/A	N/A
8. Sample	Intact	12	N/A	N/A	N/A		N/A	N/A
Condition		13	N/A	N/A	N/A		N/A	N/A
		14	N/A	N/A	N/A		N/A	N/A
9. Sample Tags Sample Tag	Absent	15	N/A	N/A	N/A		N/A	N/A
Numbers	Listed on Traffic	16	N/A	N/A	N/A		N/A	N/A
10. D	Report	17	N/A	N/A	N/A		N/A	N/A
on Traffic	Yes	18	N/A	N/A	N/A		N/A	N/A
Reports/Chain of		19	N/A	N/A	N/A		N/A	N/A
and Sample Tags		20	N/A	N/A	N/A		N/A	N/A
agree ?		21	N/A	N/A	N/A		N/A	N/A
11. Date Received at Lab	01/30/2025	22	N/A	N/A	N/A		N/A	N/A
12 Time Respired		23	N/A	N/A	N/A		N/A	N/A
12.1 line Received	09:53							

* Contact SMO and attach record of resolution

Reviewed By	QL,	Logbook No.	N/A
Date	1/30/25	Logbook Page No.	N/A

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

Alliance Technical G	coup, LLC	
ACE		
58HERH20D0011		
51952	SDG NO.	A6301
	SOW NO.	SFAM01.1
	Alliance Technical G CE 38HERH20D0011 51952	Alliance Technical Group, LLC CE 38HERH20D0011 51952 SDG NO. SOW NO.

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

		PAGE	NOs:	CHI	ECK
		FROM	TO	LAB	REGION
1.5	EDG Cover Page	1	1	✓	
2.1	Traffic Report/Chain of Custody Record(s)	2	3	✓	
3.5	Sample Log-In Sheet (DC-1)	4	5	✓	
4.0	CSF Inventory Sheet (DC-2)	6	8	✓	
5.5	SDG Narrative	9	16	✓	
6.0	Communication Logs	17	23	✓	
7.I	Percent Solids Log	24	25	✓	
Analy	rsis Forms and Data (ICP-AES)				
8.5	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	26	39	✓	
9.1	Instrument raw data by instrument in analysis order	40	189		
Other	Data				
10.5	Standard and Reagent Preparation Logs	190	331	✓	
11.0	Driginal Preparation and Cleanup forms or copies of Preparation and	332	333	_ √	
12.0	Driginal Analysis or Instrument Run forms or copies of Analysis or	334	336		
13. H	Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA		
14. E	Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. F	aw GPC Data	NA	NA	✓	
16. F	Raw Florisil Data	NA	NA	√	
Analy	sis Forms and Data (ICP-MS)				
17.5	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	337	351	✓	
18.1	or sample analysis, laboratory QC as applicable Instrument raw data by instrument in analysis order	352	1612	√	
011	. Dete				
19 S	: Data Standard and Reagent Preparation Logs	1613	1764	4	
20.0	Driginal Preparation and Cleanup forms or copies of Preparation and	1765	1768	· · · · · · · · · · · · · · · · · · ·	
(Cleanup Logbooks	1700			
21.0	Instrument Logbooks	1/69	1//9		
22. E	Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	<u>√</u>	

		PAGE	NOs:	CHE	CK
		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		
Ana	lysis Forms and Data (Mercury)				
26.	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	1780	1794		
27.	Instrument raw data by instrument in analysis order	1795	1799		
Oth	er Data				
28.	Standard and Reagent Preparation Logs	1800	1833	✓	
29.	Original Preparation and Cleanup forms or copies of Preparation and	1834	1837	✓	
30.	Original Analysis or Instrument Run forms or copies of Analysis or	1838	1843	✓	
31.	Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA		
32.	Extraction Logs for TCLP and SPLP	NA	NA	✓	
33.	Raw GPC Data	NA	NA	✓	
34.	Raw Florisil Data	NA	NA	✓	
Ana	lysis Forms and Data (Cyanide)				
35.	Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA	NA		
36.	or sample analysis, laboratory QC as applicable Instrument raw data by instrument in analysis order	NA	NA	✓	
Oth	er Data				
37.	Standard and Reagent Preparation Logs	NA	NA	✓	
38.	Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
39.	Cleanup Logbooks Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
40.	Instrument Logbooks Performance Evaluation (PE)/Proficiency Testing (PT) Sample	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:	CH	ECK
			FROM	TO	LAB	REGION
Additional 44. EPA Ship	ping/Receiving Documents					
Airbill	(No. of Shipments)		1844	1845	✓	
Sample T	ags		NA	NA	~	
Sample L	og-In Sheet (Lab)		1846	1848	✓	
45. Misc. Sh	ipping/Receiving Records(list all individ	dual records)	NA	NA	_ ✓	
46. Internal (describ	Lab Sample Transfer Records and Tracking e or list)	g Sheets	1849	1854		
47. Other Re (describ	cords and related Communication Logs e or list)		NA	NA	√	·
48. Comments	:					·
Completed by (CLP Lab)	y:	Nimisha Pandya, Docume	ent Contro	l Officer		
Audited by: (EPA)	(Signature)	(Print Name & Title)			(Da	Le)
	(orginacare)	(IIIIIC RAME & IICIE)			(124	,



SDG NARRATIVE

USEPA SDG # A6301 CASE # 51952 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # Q1223

A. Number of Samples and Date of Receipt

14 Soil and 01 Water samples were delivered to the laboratory intact on 01/30/2025.

B. Parameters

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

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

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

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: $2.3^{\circ}C$, $2.4^{\circ}C$

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

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded



with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Issue 2: The laboratory is missing instructions for all PT samples for this Case.

Issue 3: The laboratory would like to confirm if the PT samples for this Case require PRs.

E. Corrective Action taken for above:

Resolution 1: Per Region 1, the laboratory should proceed with reporting the results for these samples. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Resolution 2: Per Region 1, the PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Resolution 3: Per Region 1, the PT samples do not require preliminary results (PRs). Please note that two sediment samples have been rescheduled without PRs. Please note the issue in the SDG Narrative and proceed with 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):

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 A6301 For Aluminum:

If C = 105.7095 ppm Vf = 100 ml W = 4.86 g S = 0.264(26.4/100)DF = 1

Concentration (mg/kg) = $105.7095 \times 100 \times 14.86 \times 0.264 \times 100$

= 8238.9870 mg/kg

= 8200 mg/kg (Reported Result with Signification)

Calculation for ICP-MS Soil Sample:

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

Concentration (mg/kg) = $C \times Vf = Vf = Vf + 1000$ W x S

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 A6301 For Antimony:

If C = 0.82 ppbVf = 500 ml W = 4.33 gS = 0.264(26.4/100)



284 Sheffield Street Mountainside, NJ 07092 DF = 1

Concentration (mg/kg) = $0.82 \text{ x} \frac{500}{4.33 \text{ x} 0.264} \text{ x} 1 / 1000$

= 0.35866 mg/kg

= 0.36 mg/kg (Reported Result with Signification)

Calculation for ICP-MS Water Sample:

Concentration or Result ($\mu g/L$) = C x Vf x DF Vi

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

Example Calculation For Sample A6310 For Manganese:

If C = 1.75 ppb Vf = 50 ml Vi = 50 ml DF = 1 Concentration or Result (μ g/L) = 1.75 x $\frac{50}{50}$ x 1 = 1.75 μ g/L

= $1.8 \ \mu g/L$ (Reported Result with Signification)

Calculation for Hg Soil Sample:

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



Concentration (mg/kg) = $C \times Vf = Vf = Vf + 1000$ W x S

Where,

 $\begin{array}{l} C &= \text{Instrument response in } \mu g/L \text{ from the calibration curve.} \\ Vf = Final prepared (absorbing solution) volume (mL) \\ W &= \text{Initial aliquot amount (g) (Fraction of Sample amount taken in prep)} \\ S &= \% \text{ Solids / 100 (Fraction of Percent Solids)} \\ DF &= \text{Dilution Factor} \end{array}$

Example Calculation For Sample A6301:

If C = 1.1621 ppb Vf = 100 mL W = 2.03 g S = 0.264(26.4/100) DF = 1 Concentration (mg/kg) = $1.1621 \text{ x} \cdot \frac{100}{2.03 \text{ x} \cdot 0.264} \text{ x} \cdot 1/1000$ = 0.21684 mg/kg= 0.22 mg/kg (Reported Result with Signification)

Calculation for Hg Water Sample:

Concentration or Result (μ g/L) = C x DF

Where,

C = Instrument response in $\mu g/L$ from the calibration curve. DF = Dilution Factor

Example Calculation For Mercury:

If C = 0.1811 ppbDF = 1



Concentration or Result ($\mu g/L$) = 0.1811 x 1

= $0.1811 \,\mu\text{g/L}$ = $0.18 \,\mu\text{g/L}$ (Reported Result with Signification)

H. QA/QC

Calibrations met requirements. Interference check met requirements. Blank analyses did not indicate any presence of contamination. Laboratory Control sample was within control limits. Spike sample did meet requirements except for Antimony, Selenium and Zinc. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Some samples have % solids results less than 30%. Please see below table for detail. Laboratory has processed these samples according to the SFAM01.1 SOW, Exhibit D, sections 10.1.1.8. EPA Sample ID %Solid

EPA Sample ID	% Solid
A6301	26.4
A6302	23.8
A6305	24.3
A6305D	24.3
A6305S	24.3
A6307	24.7
A6322	12.9
A6323	28.3
A6324	25.5

Some samples have % solids results less than 50% but more than 30%. Please see below table for detail. Laboratory has processed these samples according to the SFAM01.1 SOW, Exhibit D, sections 10.1.1.8.

EPA Sample ID	% Solid
A6308	44.2
A6321	47.9

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
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Calcium	45Sc
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Iron	45Sc
Lead	209Bi
Magnesium	45Sc
Manganese	45Sc
Nickel	45Sc
Potassium	45Sc
Selenium	89Y
Silver	159Tb
Sodium	45Sc



Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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

From: Sent:	DeBerry, Eric <eric.deberry@gdit.com> Monday, February 03, 2025 2:29 PM</eric.deberry@gdit.com>
To:	Deepak Parmar; Sohil Jodhani; Mohammad Ahmed
Cc:	Bauer, Heather E; Johnson, Matthew; Iverson, Jessica; David, Edgardo D
Subject:	Task Area SST Region 01 Case 51952 Lab ACE Issue Multiple FINAL
Attachments:	51952-TR COC.pdf; PE Instructions 01.31.25 (003).pdf; SKM_95825013110190.pdf

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Secured by Check Point

Updated Record of Communication

This ROC is being updated to confirm that two sediment PT samples have been rescheduled without PRs (issue 3).

Good afternoon ACE,

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Resolution 1: Per Region 1, the laboratory should proceed with reporting the results for these samples. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case.

Resolution 2: Per Region 1, the PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Scheduling

Issue 3: The laboratory would like to confirm if the PT samples for this Case require PRs.

Resolution 3: Per Region 1, the PT samples do not require preliminary results (PRs). Please note that two sediment samples have been rescheduled without PRs. Please note the issue in the SDG Narrative and proceed with analysis of the samples.

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

Thanks,

Eric DeBerry

Associate Environmental Analyst CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166 <u>Eric.DeBerry@GDIT.com</u> 15036 Conference Center Drive Chantilly, VA 20151 <u>www.gdit.com</u>

GENERAL DYNAMICS

From: DeBerry, Eric <<u>Eric.Deberry@gdit.com</u>>
Sent: Friday, January 31, 2025 2:30 PM
To: <u>deepak.parmar@alliancetg.com</u>; <u>sohil.jodhani@alliancetg.com</u>; <u>mohammad.ahmed@alliancetg.com</u>
Cc: Johnson, Matthew <<u>Matthew.Johnson32@gdit.com</u>>; Bauer, Heather E <<u>Heather.Bauer@gdit.com</u>>; Iverson, Jessica
subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple | FINAL

Good afternoon ACE,

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Resolution 1: Per Region 1, the laboratory should proceed with reporting the results for these samples. Please note the issue in the SDG narrative and proceed with analysis of the samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

Resolution 2: Per Region 1, the PT samples do not require preliminary results (PRs). The PT instructions are attached. Please note the issue in the SDG narrative and proceed with analysis of the samples.

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

Thanks,

Eric DeBerry

Associate Environmental Analyst CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166 <u>Eric.DeBerry@GDIT.com</u> 15036 Conference Center Drive Chantilly, VA 20151 <u>www.gdit.com</u>

GENERAL DYNAMICS

From: Iverson, Jessica <iverson.jessica@epa.gov>
Sent: Friday, January 31, 2025 1:18 PM
To: DeBerry, Eric <<u>Eric.Deberry@gdit.com</u>>
Subject: FW: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

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Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples. **Yes, the laboratory should proceed with reporting the results for these samples.**

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

The PT samples do not require preliminary results (PRs). The PT instructions are attached.

Jessica Iverson QA Chemist/Regional Sample Coordinator Quality Assurance Branch Laboratory Services and Applied Science Division EPA Region 1 – New England Phone: 617-918-8630

From: Gary Glennon <<u>gglennon@nobis-group.com</u>> Sent: Friday, January 31, 2025 12:40 PM To: Iverson, Jessica <<u>iverson.jessica@epa.gov</u>>
 Cc: Alyssa Epstein <<u>aepstein@nobis-group.com</u>>
 Subject: RE: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

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Hi Jessica, Please see my responses in red below. Thanks!

Gary Glennon he/him/his

Data Integration Specialist



From: Iverson, Jessica <iverson.jessica@epa.gov>
Sent: Friday, January 31, 2025 11:56 AM
To: Gary Glennon <gglennon@nobis-group.com>
Subject: FW: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

EXTERNAL

Hello,

Please advise on the following issues from ACE.

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples. **Yes, the laboratory should proceed with reporting the results for these samples.**

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

The PT samples do not require preliminary results (PRs). The PT instructions are attached.

Jessica Iverson QA Chemist/Regional Sample Coordinator Quality Assurance Branch Laboratory Services and Applied Science Division EPA Region 1 – New England Phone: 617-918-8630

From: Iverson, Jessica
Sent: Friday, January 31, 2025 11:55 AM
To: DeBerry, Eric <<u>Eric.Deberry@gdit.com</u>>
Cc: Bauer, Heather E <<u>Heather.Bauer@gdit.com</u>>; Johnson, Matthew <<u>Matthew.Johnson32@gdit.com</u>>
Subject: RE: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

Hello,

On the last communication the sampler stated that PT instructions were provided to the laboratory when the samples were dropped off. I will inquire about both issues and ask for additional copies of the instructions to be sent.

Jessica Iverson QA Chemist/Regional Sample Coordinator Quality Assurance Branch Laboratory Services and Applied Science Division EPA Region 1 – New England Phone: 617-918-8630

From: DeBerry, Eric < Eric.Deberry@gdit.com</pre>

Sent: Friday, January 31, 2025 11:44 AM

To: lverson, Jessica <<u>iverson.jessica@epa.gov</u>>

Cc: Bauer, Heather E <<u>Heather.Bauer@gdit.com</u>>; Johnson, Matthew <<u>Matthew.Johnson32@gdit.com</u>> Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Multiple

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

Good morning Jessica,

Please advise on the following issues from ACE.

Non-Standard Matrix

Issue 1: The laboratory received sediment samples on 1/30/2025. The laboratory began SVOA analysis upon receipt and found that Samples A6301, A6302, A6305, A6307, A6322, A6323, and A6324 contain less than 30% solids. Because PRs are scheduled, the laboratory proceeded with analysis using 30g of sample volume. Please note that the samples do not have any standing water, and the sample matrix is very light textured soil. Please confirm that the laboratory should proceed with reporting the results for these samples.

Incorrect/missing PT instructions

Issue 2: The laboratory is missing instructions for all PT samples for this Case; the laboratory would also like confirmation if the PT samples require PRs.

Thanks,

Eric DeBerry

Associate Environmental Analyst CLP QSS Coordinator – EPA Regions 1 & 3

Under contract to the EPA

T: (571) 833-5166 <u>Eric.DeBerry@GDIT.com</u> 15036 Conference Center Drive Chantilly, VA 20151 <u>www.gdit.com</u>

GENERAL DYNAMICS

From: Deepak Parmar <u>Deepak.Parmar@alliancetg.com</u> Sent: Friday, January 31, 2025 11:23 AM To: DeBerry, Eric <u>Eric.Deberry@gdit.com</u> Cc: Sohil Jodhani <u>Sohil.Jodhani@AllianceTG.com</u> Subject: Region 01 | Case 51952 | Lab ACE | Issue Discrepancies with COC /PE Instruction.

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

Good morning,

PE Instruction missing for all PE sample received for this Case. PE samples required PR?

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: Sohil Jodhani <<u>Sohil.Jodhani@alliancetg.com</u>>
Sent: Friday, January 31, 2025 10:23 AM
To: DeBerry, Eric <<u>Eric.Deberry@gdit.com</u>>
Cc: Mohammad Ahmed <<u>mohammad.ahmed@alliancetg.com</u>>
Subject: Task Area SST | Region 01 | Case 51952 | Lab ACE | Issue Percent Solids

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

Hi,

Lab has received sediments samples for this case and samples required PR as per scheduling. Lab has proceeded with the analysis for SVOA upon receipt of the samples. Lab did the percent solids for the samples under this case and found that the samples A6301, A6302, A6305, A6307, A6322, A6323 & A6324 has less than 30% solids. In this case, lab has already processed the samples with 30g sample volume due to Preliminary results required for the samples and Lab will report final data as processed. Please note that samples do not have any standing water received in the container and sample matrix is very light textured soil. Please confirm that the resolution will be applied for this case.

Please see attached.

Thanks & Regards,





PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 1/31/2025

OVENTEMP IN Celsius(°C): 107 Time IN: 13:25 In Date: 01/30/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 OVENTEMP OUT Celsius (°C): 103 Time OUT: 07:50 Out Date: 01/31/2025 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

QC:LB134484

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
Q1223-01	A6301	1	1.15	8.82	9.97	3.48	26.4	
Q1223-02	A6302	2	1.15	8.62	9.77	3.2	23.8	
Q1223-03	A6303	3	1.16	8.81	9.97	5.76	52.2	
Q1223-04	A6304	4	1.11	8.78	9.89	5.57	50.8	
Q1223-05	A6305	5	1.19	8.52	9.71	3.26	24.3	
Q1223-06	A6305D	6	1.19	8.52	9.71	3.26	24.3	
Q1223-07	A6305S	7	1.19	8.52	9.71	3.26	24.3	
Q1223-08	A6306	8	1.15	8.77	9.92	7.2	69.0	
Q1223-09	A6307	9	1.19	8.43	9.62	3.27	24.7	
Q1223-10	A6308	10	1.18	8.43	9.61	4.91	44.2	
Q1223-11	A6309	11	1.17	8.80	9.97	6.88	64.9	
Q1223-12	A6320	12	1.15	8.83	9.98	8.57	84.0	
Q1223-13	A6321	13	1.16	8.61	9.77	5.28	47.9	
Q1223-14	A6322	14	1.13	8.76	9.89	2.26	12.9	
Q1223-15	A6323	15	1.15	8.84	9.99	3.65	28.3	
Q1223-16	A6324	16	1.14	8.83	9.97	3.39	25.5	

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

			WORKLIST(Hard	Icopy Internal Ch	ain)	MSMMEN J		
WORKLIST Name :	51-q1223	WorkList	ID: 187295	Department :	Wet-Chemistry	Dat	c (c f)	
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage	Collect Date	Method
Q1223-01	A6301	Solid	Domost Catta			Location		
Q1223-02	A6302	Solid		Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-03	A6303	Solid Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-04	A6304			Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech - S.O.
Q1223-05	A6305		Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech - So
Q1223-06	A6305D		Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech_co
Q1223-07	A6305S		Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech C
Q1223-08	A6306	oolig Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech _SO
Q1223-09	A6307	Solid Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-10	A6308	Solid		Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-11	A6309	Solid	Percent Solids	Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-12	A6320	Solid		Cool 4 deg C	USEP01	C21	01/27/2025	Chemtech -SO
Q1223-13	A6321	Solid		Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO
Q1223-14	A6322	Colia	recent solids	Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO
Q1223-15	A6323	Solid		Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO
Q1223-16	A6324			Cool 4 deg C	USEP01	C21	01/28/2025	Chemtach -SO
		DIIOC	Percent Solids	Cool 4 deg C	USEP01	C21	01/28/2025	Chemtech -SO

 Date/Time
 01(30)35
 12 13 0

 Raw Sample Received by:
 50 000/20
 4× Raw Sample Relinquished by:

Raw Sample Relinquished by: Raw Sample Received by:

9

3

05151

Date/Time 01 30125

Page 1 of 1