SDG COVER PAGE

Alliance Technical Group, LLC Lab Name: Contract: 68HERH20D0011 MA No.: 3225.1,3226.1 Lab Code: Case No.: 51772 SDG No.: MYDB73 SOW No. : SFAM01.1 Analysis Method EPA Sample No. Lab Sample Id ICP-AES ICP-MS Mercury Cyanide MYDB73 P4316-01 Χ Χ MYDB74 P4316-02 Χ Χ Χ Χ MYDB75 P4316-03 MYDB76 P4316-04 Χ Χ MYDB77 P4316-05 Χ Χ P4316-06 MYDB78 Χ Χ MYDB79 P4316-07 Χ Χ MYDB80 P4316-08 Χ Χ MYDB81 P4316-09 Χ Χ MYDB82 P4316-10 Χ Χ MYDB83 P4316-11 Χ Χ P4316-12 Χ Χ MYDB84 MYDB85 P4316-13 Χ Χ MYDB86 P4316-14 Χ Χ P4316-15 Χ Χ MYDB87 MYDB88 P4316-16 Χ Χ P4316-17 Χ MYDB88D Χ Χ Χ MYDB88S P4316-18 Χ Χ MYDB89 P4316-19 MYDB90 P4316-20 Χ Χ MYDB91 P4316-21 Χ Χ P4316-22 Χ Χ MYDBA8

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	N. N. Pandya	Name:	APPROVED Nimisha Pandya, QA/QC Supervisor , 10/29/2024, 4:18:02 PM
Date:	10/29/2024	Title:	Millisha Fahuya, 47440 Supervisor, 10/23/2024, 4.10.02 Fill

USEPA CLP COC (LAB COPY)

AirbillNo: 7790 0057 6181 CarrierName: FedEx DateShipped: 10/3/2024

CHAIN OF CUSTODY RECORD

Cooler #: 51772-080 Case #: 51772

SDG # MYDB73

68HERH20D0011

No: 9-062124-091430-0080

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

Sample Identifier	CLP	Matrix/Sampler	Coll.	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	or Lab Use Only
100 M 0011 01	MYDR73	Soil/ REAC	Grab	ICP-AES 11(21)	9-5351 (None) (1)	1108-M-0011	06/20/2024 14:24	-
1100-WI-001 1-01	MYDB7A	Soil/ REAC	Grab	ICP-AES 11(21)	9-5352 (None) (1)	1108-E-0004	06/20/2024 09:41	٢
100-1000-01	MVD075	CON DEAC	Grah	ICP-AES 11(21)	9-5353 (None) (1)	1108-E-0009	06/20/2024 09:42	ص
1.0-6.000-7-801.1	MITUBIO		0 0	100 AFO 44 (04)	0 5354 (None) (1)	1108-E-0003	06/20/2024 09:43	ር
1108-E-0003-01	MYDB76	Soil/ REAC	Grab	ICP-AES 11(21)	9-0304 (NOIIE) (1)	1100 11 0000		7
1108-E-0001-01	MYDB77	Soil/ REAC	Grab	ICP-AES 11(21)	9-5355 (None) (1)	1000-E-0001	-	,
1100 H 0003-01	MYDR78	Soil/ RFAC	Grab	ICP-AES 11(21)	9-5356 (None) (1)	1108-H-0002	06/20/2024 09.51	G
1100 K 0004 00	MVDB70	Soil/ REAC	Grab	ICP-AES 11(21)	9-5357 (None) (1)	1108-K-0001	06/20/2024 10:45	در
1100-1-0001-02	MYDRSO	Soil/ REAC	Grab	ICP-AES 11(21)	9-5358 (None) (1)	1108-L-0007	06/20/2024 10:57 9 °	8
1100-1-0007 01	MYDR81	Soil/ REAC	Grab	ICP-AES 11(21)	9-5359 (None) (1)	1108-D-0001	06/20/2024 09:27	و
1100 M 0003 03	MYDRRO	Soil/ REAC	Grab	ICP-AES 11(21)	9-5360 (None) (1)	1108-M-0003	06/20/2024 14:08	6
1108-M-0004-01	MYDB83	Soil/ REAC	Grab	ICP-AES 11(21)	9-5361 (None) (1)	1108-M-0004		=
1108-M-0009-01	MYDB84	Soil/ REAC	Grab	ICP-AES 11(21)	9-5362 (None) (1)	1108-M-0009		7
1108-M-0007-01	MYDB85	Soil/ REAC	Grab	ICP-AES 11(21)	9-5363 (None) (1)	1108-M-0007	06/20/2024 14:04	=
1108-D-0008-01	MYDB86	Soil/ REAC	Grab	ICP-AES 11(21)	9-5364 (None) (1)	1108-D-0008	06/20/2024 09:12	5
1108-M-0003-01	MYDB87	Soil/ REAC	Grab	ICP-AES 11(21)	9-5365 (None) (1)	1108-M-0003	06/20/2024 14:07	4
1108-H-0004-03	MYDB88	Soil/ REAC	Grab	ICP-AES 11(21)	9-5366 (None) (1)	1108-H-0004	06/20/2024 13:26	P
1100-11-0001-01	MYDR89	Soil/ REAC	Grab	ICP-AES 11(21)	9-5367 (None) (1)	1108-L-0001	06/20/2024 14:08	_
1108-1-0011-01	MYDB90	Soil/ REAC	Grab	ICP-AES 11(21)	9-5368 (None) (1)	1108-L-0011	06/20/2024 14:10	Ś
1108-M-0012-01	MYDB91	Soil/ REAC	Grab	ICP-AES 11(21)	9-5369 (None) (1)	1108-M-0012	06/20/2024 14.10	

Sample(s) to be used for Lab QC: 1108-H-0004-03 Tag 9-5366 - Special Instructions: ICP-AES 11+ Metals: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn

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

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

			まる大人	Items/Reason Relinquished by (Signature)
			2 alexantal	Relinquished by (Signature and Organization)
			10/3/24	Date/Time
			2	Received by (Signature and Organization)
			10-4-24	Date/ I me
No XCE	no time solk	Custof sal whet	-28 Cont 23.2	Sample Condition Open Accept

68HERH20D0011

SDG # MYDB73

USEPA CLP COC (LAB COPY)

CarrierName: FedEx DateShipped: 10/3/2024

Cooler #: 51772-080 Case #: 51772 CHAIN OF CUSTODY RECORD

No: 9-062124-091430-0080

Lab: Alliance Technical Group LLC Lab Contact: Mohammad Ahmed Lab Phone: 908-728-3151

MYDBA8 Soil/ REAC Grab ICP-AES 11(21) MYDBA9 Soil/ REAC Grab ICP-AES 11(21) MYDBB0 Soil/ REAC Grab ICP-AES 11(21) MYDBB1 Soil/ REAC Grab ICP-AES 11(21) MYDBB2 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 Soil/ REAC Grab ICP-AES 11(21)	Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time
MYDBA9 Soil/ REAC Grab ICP-AES 11(21) MYDBB0 Soil/ REAC Grab ICP-AES 11(21) MYDBB1 Soil/ REAC Grab ICP-AES 11(21) MYDBB2 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 Soil/ REAC Grab ICP-AES 11(21)	107A 3-C-0005-	MYDBA8	Soil/ REAC	Grab	ICP-AES 11(21)	9-5386 (None) (1)	70	107A_3-C-0005
MYDBA9 Soil/ REAC Grab ICP-AES 11(21) MYDBB0 Soil/ REAC Grab ICP-AES 11(21) MYDBB1 Soil/ REAC Grab ICP-AES 11(21) MYDBB2 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 Soil/ REAC Grab ICP-AES 11(21)	01					0 5387 (None) (1)	_	107A 3-A-0007 06/21/2024 10:10
MYDBB0 Soil/ REAC Grab ICP-AES 11(21) MYDBB1 Soil/ REAC Grab ICP-AES 11(21) MYDBB2 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 Soil/ REAC Grab ICP-AES 11(21)	107A_3-A-0007-	MYDBA9	Soil/ REAC	Grab	ICP-AES 11(21)	9-5307 (Notie) (1)	1	
MYDBB1 Soil/ REAC Grab ICP-AES 11(21) MYDBB2 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 Soil/ REAC Grab ICP-AES 11(21)	107A_3-C-0002-	MYDBB0	Soil/ REAC	Grab	ICP-AES 11(21)	9-5388 (None) (1)		107A_3-C-0002 06/21/2024 10:10
MYDBB1 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 - ICP-AES 11(21) ICP-AES 11(21)	01					9-5389 (None) (1)		107A 3-C-0007 06/21/2024 10:11
MYDBB2 Soil/ REAC Grab ICP-AES 11(21) MYDBB3 Soil/ REAC Grab ICP-AES 11(21)	107A_3-C-0007- 01	MYDBB1	Soil/ REAC	Grab	ICP-AES 11(21)	9-0000 (None) (1)		
MYDBB3 Soil/ REAC Grab ICP-AES 11(21)	107A_3-A-0001-	MYDBB2	Soil/ REAC	Grab	ICP-AES 11(21)	9-5390 (None) (1)		
	107A_3-C-0006-	MYDBB3	Soil/ REAC	Grab	ICP-AES 11(21)	9-5391 (None) (1)		10/A_3-C-0000
		-1						
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				Items/Reason Re
		010	AN Warner	Relinquished by (Signature and Organization)
			10/3/21	Date/Time
			RI	Received by (Signature and Organization)
			10-4-14	Date/Time
NO THE	No Temp Bluk.	City Sed Kter	10-4-24 72-6-# 23.2.	Date/Time Sample Condition Upon Receipt

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group		Page 1 of 1
Received By (Print Name)	era Ceré	Log-in Date 10/4/2024
Received By (Signature)		
Case Number 51772	SDG No. MYDB73	MA No. 3225.1,3226.1

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.	779000576181 1
6. Shipping Container Temperature Indicator Bottle	Absent
7. Shipping Container Temperature	23.2 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	10/04/2024
12.Time Received	09:39

			Correspondir	 ng	
	EPA Sample #	Aqueous Water Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MYDB73	N/A	9-5351	P4316-01	Intact
2	MYDB74	N/A	9-5352	P4316-02	Intact
3	MYDB75	N/A	9-5353	P4316-03	Intact
4	MYDB76	N/A	9-5354	P4316-04	Intact
5	MYDB77	N/A	9-5355	P4316-05	Intact
6	MYDB78	N/A	9-5356	P4316-06	Intact
7	MYDB79	N/A	9-5357	P4316-07	Intact
8	MYDB80	N/A	9-5358	P4316-08	Intact
9	MYDB81	N/A	9-5359	P4316-09	Intact
10	MYDB82	N/A	9-5360	P4316-10	Intact
11	MYDB83	N/A	9-5361	P4316-11	Intact
12	MYDB84	N/A	9-5362	P4316-12	Intact
13	MYDB85	N/A	9-5363	P4316-13	Intact
14	MYDB86	N/A	9-5364	P4316-14	Intact
15	MYDB87	N/A	9-5365	P4316-15	Intact
16	MYDB88	N/A	9-5366	P4316-16	Intact
17	MYDB88D	N/A	9-5366	P4316-17	Intact
18	MYDB88S	N/A	9-5366	P4316-18	Intact
19	MYDB89	N/A	9-5367	P4316-19	Intact
20	MYDB90	N/A	9-5368	P4316-20	Intact
21	MYDB91	N/A	9-5369	P4316-21	Intact
22	MYDBA8	N/A	9-5386	P4316-22	Intact
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By	W.	Logbook No.	N/A
Date	10/4/24	Logbook Page No.	N/A

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

LAB NAME	Alliance Technical	l Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51772	SDG NO.	MYDB73	
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 Not CHBCK TROM NO	, , , , , , , , , , , , , , , , , , , ,				
1. SDG Cover Page 2. Traffic Report/Chain of Custody Record(s) 2. 3		PAGE	NOs:	CHI	ECK
2. Traffic Report/Chain of Custody Record(s) 3. Sample Log-In Sheet (DC-1) 4. CSF Inventory Sheet (DC-2) 5. SDG Narrative 6. Communication Logs 7. Fercent Solids Log 8. Sample 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 9. Instrument raw data by instrument Run forms or copies of Analysis or Solids Instructions Instructions Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample 14. Extraction Logs for TCLP and SPLP 15. Raw GPC Data 16. Raw Florisil Data 17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable or sample or sample analysis or Instructions Instruction		FROM	TO	LAB	REGION
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4. CSF Inventory Sheet (DC-2) 5. SDG Narrative 8 17	2. Traffic Report/Chain of Custody Record(s)	2	3	√	
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Cleanup Logbooks 12 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 13 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample	10 . Standard and Reagent Preparation Logs	351	505	✓	
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19. Standard and Reagent Preparation Logs 20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 1960 1976 ✓		551	1816	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 1960 1976 ✓	Other Data				
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or 1960 1976 ✓	19. Standard and Reagent Preparation Logs	1817	1957	<	
21. Original Analysis or Instrument Run forms or copies of Analysis or 1960 1976 ✓		nd 1958	1959	√	
THE CTUMCHC HOUDOUND		r 1960	1976		
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions NA NA ✓	22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA		

	PAGE 1	NOs:	СН	ECK
	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	NA	NA		
Instrument Logbooks 31. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 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	NA	NA	✓	
or sample analysis, laboratory QC as applicable 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	NA	NA	✓	
Cleanup Logbooks 39. Original Analysis or Instrument Run forms or copies of Analysis or	NA	NA	✓	
Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample	NA	NA	✓	
Instructions 41. Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	√	
43 . Raw Florisil Data	NA	NA	✓	

			PAGE NOs:		CHECK	
			FROM	TO	LAB	REGION
Additional						
44. EPA Shipp	ping/Receiving Documents					
Airbill	(No. of Shipments)		1977	1977	✓	
Sample Ta	ags		NA	NA	✓	
Sample Lo	og-In Sheet (Lab)		1978	1980	✓	
45. Misc. Shi	ipping/Receiving Records(list all individ	dual records)				
			NA	NA		
	Lab Sample Transfer Records and Tracking	g Sheets				
(describe	e or list)		1981	1984	,	
45 011 5						-
	cords and related Communication Logs e or list)					
			NA	NA	✓	
40 Commonto						
48. Comments:	:					
Completed by	v:					
(CLP Lab)	(Cignotune)	Nimisha Pandya, Docume (Print Name & Title)	ent Control	l Officer	<u> </u>	+ - \
Audited by: (EPA)	(Signature)	(Print Name & Title)			(Da	ce)
	(Signature)	(Print Name & Title)			(Da	te)



SDG NARRATIVE

USEPA
SDG # MYDB73
CASE # 51772
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4316
MODIFIED ANALYSIS #3225.1, 3226.1

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 10/04/2024.

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: 23.2°C

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

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

Issue 2: Samples were shipped to the laboratory on 10/3/2024 with COC# 9-062124-091430-0080 (attached). The samples are scheduled for ICP-AES and ICP-MS analysis. However, the COCs only list ICP-AES analysis. Please confirm if the laboratory should proceed with all scheduled analyses and if an updated COC will be provided.



284 Sheffield Street 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 9, an updated copy 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):

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 MYDB73 For Antimony:

If
$$C = 0.0073529 \text{ ppm}$$

 $Vf = 100 \text{ ml}$
 $W = 1.49g$
 $S = 0.969(96.9/100)$
 $DF = 1$

Concentration (mg/kg) =
$$0.0073529 \times \frac{100}{1.49 \times 0.969} \times 1$$

$$= 1.0185 \text{ mg/kg}$$

= 1.0 mg/kg (Reported Result with Signification)



284 Sheffield Street Mountainside, NJ 07092

Calculation for ICP-MS Soil Sample:

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

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 MYDB73 For Antimony:

If C = 1.64 ppb
Vf = 500 ml
W = 1.49 g
S = 0.969(96.9/100)
DF = 1
Concentration (mg/kg) =
$$1.64 \times \frac{500}{1.49 \times 0.969} \times 1 / 1000$$

= 0.5679 mg/kg
= 0.57 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 Antimony, Arsenic, Lead, Manganese, Selenium, Zinc. Spike sample(MYDB88SRE) did meet requirements except for silver. Spike sample did meet requirements. 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
	iliterilai Stalluaru



284 Sheffield Street Mountainside, NJ 07092

Mountainside,	NJ 07092
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi
Vanadium	45Sc
Zinc	45Sc

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

Signature	Name: Nimisha Pandya
Date	Title: Document Control Officer

Date: 09/11/2024	MA: 3225.1	Title: ICP-MS with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC
		Laboratory QC
Method Source: SFAM01.1	Method: ICP-MS	

Matrix: Soil/Sediment

Summary of Modification

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.

I. Analyte Modifications

Not applicable

II. Calibration and QC Requirements

Not applicable

The Laboratory shall:

- Use the Method Detection Limits (MDLs) determined for routine soil analyses (i.e., Method 200.8) to report the results for these analyses. The Laboratory is NOT required to perform an MDL study for Draft Method 3050C.
- Prepare and analyze an additional Laboratory Control Sample (LCS) spiked at the CRQL. Percent Recovery limits do NOT apply to this LCS and no corrective actions are required.
- Prepare a Matrix Spike spiked at three times the levels specified in the SOW.
- Prepare and analyze an additional Matrix Spike sample spiked at five times the levels specified for this Modified Analysis (i.e., 15x the levels specified in the SOW).
- Post-Digestion Spike requirements apply to the 5x Matrix Spike only.
- Post-Digestion Spike corrective actions apply to Sb.

III. Preparation and Method Modifications

Not applicable

- Prepare and analyze the sample by EPA Draft Method 3050C as follows:
 - Mix sample thoroughly and transfer 1.00 1.50 g to a digestion vessel.
 - Add 10 mL 1:1 HNO₃ and 5 mL 1:1 HCl, heat the sample at 95°C (±3°C) and reflux 10-15 minutes.
 - o 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).
 - o 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

- 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

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.

I. Analyte Modifications

Not applicable

II. Calibration and QC Requirements

Not applicable

The Laboratory shall:

- 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

- Prepare and analyze the sample by EPA Draft Method 3050C as follows:
 - \circ Mix sample thoroughly and transfer 1.00 1.50 g to a digestion vessel.
 - \circ 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).
 - \circ 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 interferents 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

- 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}		1	Fe	-0.000064	0.000000	No
TI 190.856 {477}	\square	5	Мо	-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}	Ø	6	Мо	-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}	Ø	3	Fe	-0.000308	0.000000	No
			Mn	0.000470	0.000000	No
			Со	-0.000630	0.000000	No
Sb 206.833 {463}	Ø	4	Cr	0.010700	0.000000	No
		<u> </u>	V	-0.001168	0.000000	No
			Мо	-0.002850	0.000000	No
			Ni	-0.000440	0.000000	No
AI 396.152 { 85}	Ø	1	Мо	0.037230	0.000000	No
Ba 493.409 { 68}		None		- 10.007200	0.000000	1110
Be 234.861 {144}	X	3	Мо	-0.000320	0.000000	No
	KN		Fe	0.000010	0.000000	No
	**********		Mn	-0.000047	0.000000	No
Cd 214.438 {457}	\boxtimes	1	Fe	0.000047	0.000000	No
Ca 373.690 { 90}		None	1.5	0.000040	0.000000	INO
Cr 267.716 {126}			Mn	0.000160	0.000000	No
Co 228.616 {448}		1				
00 220.010 (440)		2	Ti	0.001840	0.000000	No
Cu 324.754 {104}			Mo	-0.001230	0.000000	No
Cu 324.734 {104}		4	Co	-0.000796	0.000000	No
			Fe	-0.000100	0.000000	No
			Mn	0.000345	0.000000	No
F- 050 007 (400)			Ni	0.000895	0.000000	No
Fe 259.837 {130}		None				
Mn 257.610 {131}	<u> </u>		Ni Ni	0.000897	0.000000	No
Mg 279.079 {121}		None			<u> </u>	
Ni 231.604 {446}		None			Į	
Ag 328.068 {103}		3 [Fe	-0.000100	0.000000	No
			Mn	0.000146	0.000000	No
			V	-0.000889	0.000000	No
Na 818.326 { 41}		None				Į
V 292.402 {115}		2	Мо	-0.008480	0.000000	No
	<u></u>		Cr	-0.002220	0.000000	No
Zn 206.200 {464}		None				
Zn 213.856 {158}		1 [Ni	0.007280	0.000000	No
< 769.896 { 44}		None				
P 177.495 {490}		2	Ni	0.001640	0.000000	No
		i i	Cu	-0.012530	0.000000	No
3 249.678 {135}		3	Со	0.002880	0.000000	No
	<u> </u>		V	-0.002000	0.000000	No
i		i	Fe	-0.001360	0.000000	No
Mo 202.030 {467}		None			***************************************	 !
3 182.034 {485}	a	2	Мо	-0.008000	0.000000	No
		······	Mn	0.002700	0.000000	No

***************************************	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ţ	Si 251.611 {134}	X	2	Мо	0.010520	0.000000	No
				Ti	0.005650	0.000000	No
	Sn 189.989 {478}		None	·····	· · · · · · · · · · · · · · · · · · ·	· ·	
	Ti 336.121 {100}	\boxtimes	1	Ni	-0.001000	0.000000	No
	Li 670.784 { 50}		None		İ		· · · · · · · · · · · · · · · · · · ·
	Y 224.306 {450}*		None				
1	Y 360.073 { 94}*		None				·•
١	7 371.030 { 91}*		None				
Īì	(224.306 {150}*		None			<u> </u>	:
	n 230.606 {446}*		None		***************************************	ļ	
	Sr 407.771 { 83}		None			<u> </u>	<u> </u>

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

Sent: Wednesday, October 09, 2024 12:47 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

Subject: Region 09 | Case 51772 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC |

FINAL

Attachments: P4316-TR_0080-COC_revised.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: Samples were shipped to the laboratory on 10/3/2024 with COC# 9-062124-091430-0080 (attached). The samples are scheduled for ICP-AES and ICP-MS analysis. However, the COCs only list ICP-AES analysis. Please confirm if the laboratory should proceed with all scheduled analyses and if an updated COC will be provided.

Resolution: Per Region 9, an updated copy 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 may contact the appropriate CLP PM 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

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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: Wednesday, October 9, 2024 11:53 AM

To: Hairston, Miles (NE) <Miles.Hairston@gdit.com>; Carmon, Jamie (she/her/hers) <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 >;

Eric.Ackerman@WestonSolutions.com; R9RSCC <R9RSCC@epa.gov>

Subject: RE: 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.

Hi Miles,

Please proceed with the scheduled analyses.

Attached is the corrected COC, I believe this has been uploaded to the portal.

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) < Miles. Hairston@gdit.com>

Sent: Tuesday, October 8, 2024 2:07 PM

To: R9RSCC < R9RSCC@epa.gov >; Carmon, Jamie (she/her/hers) < 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 < a href="mailto:Myer.Shari@epa.gov">Myer, Shari < a href="mailto:Myer.Shari@epa.gov">Myer, Shari@epa.gov>;

Bauer, Heather E < Heather E < Heather E < Heather.Bauer@gdit.com; Johnson, Matthew < Matthew.Johnson32@gdit.com;

Eric.Ackerman@WestonSolutions.com

Subject: Region 09 | Case 51772 | Lab ACE | Issue Discrepancies with tags, jars, and/or COC

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

Good afternoon,

Please see the below issue from ACE.

Issue: Samples were shipped to the laboratory on 10/3/2024 with COC# 9-062124-091430-0080 (attached). The samples are scheduled for ICP-AES and ICP-MS analysis. However, the COCs only list ICP-AES analysis. Please confirm if the laboratory should proceed with all scheduled analyses and if an updated COC will be provided.

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 n'estration l'ectre our

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

Sent: Tuesday, October 8, 2024 3:17 PM

To: Hairston, Miles (NE) < Miles. Hairston@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 afternoon,

for Case 51772 The samples are scheduled for ICP-AES and ICP-MS analysis. However, Attached COC mentioned only list ICP-AES analysis, there for lab would like to confirm they should proceed with analysis?

Please see attachment for your reference.

Thanks & Regards,



Deepak Parmar QA/QC **An Alliance Technical Group Company** Main: 908-789-8900

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





PERCENT SOLID

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

OVENTEMP OUT Celsius(°C): 103

Time OUT: 07:40

Out Date: 10/11/2024

Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Time IN: 13:50
In Date: 10/10/2024
Weight Check 1.0g: 1.00

OVENTEMP IN Celsius(°C): 107

Weight Check 10g: 10.00 OvenID: M OVEN#1

qc:LB132859

QC:LB1328	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g)(B)	Dish+Dry Sample Wt(g)(C)	% Solid	Comments
P4316-01	MYDB73	1	1.13	8.64	9.77	9.5	96.9	
P4316-02	MYDB74	2	1.18	8.59	9.77	9.45	96.3	
P4316-03	MYDB75	3	1.15	8.78	9.93	9.61	96.4	
P4316-04	MYDB76	4	1.18	8.64	9.82	9.6	97.5	
P4316-05	MYDB77	5	1.18	8.66	9.84	9.41	95.0	
P4316-06	MYDB78	6	1.18	8.45	9.63	9.48	98.2	
P4316-07	MYDB79	7	1.16	8.57	9.73	9.46	96.8	
P4316-08	MYDB80	8	1.18	8.41	9.59	9.43	98.1	
P4316-09	MYDB81	9	1.16	8.53	9.69	9.55	98.4	
P4316-10	MYDB82	10	1.15	8.35	9.5	9.3	97.6	
P4316-11	MYDB83	11	1.16	8.50	9.66	9.41	97.1	
P4316-12	MYDB84	12	1.17	8.57	9.74	9.52	97.4	
P4316-13	MYDB85	13	1.17	8.40	9.57	9.37	97.6	
P4316-14	MYDB86	14	1.14	8.58	9.72	9.51	97.6	
P4316-15	MYDB87	15	1.17	8.34	9.51	9.34	98.0	
P4316-16	MYDB88	16	1.18	8.69	9.87	9.47	95.4	
P4316-17	MYDB88D	17	1.18	8.69	9.87	9.47	95.4	
P4316-18	MYDB88S	18	1.18	8.69	9.87	9.47	95.4	
P4316-19	MYDB89	19	1.16	8.40	9.56	9.35	97.5	
P4316-20	MYDB90	20	1.18	8.38	9.56	9.25	96.3	
P4316-21	MYDB91	21	1.2	8.68	9.88	9.69	97.8	
P4316-22	MYDBA8	22	1.15	8.68	9.83	9.67	98.2	

US 132859 WORKLIST (Hardcopy Internal Chain)

Department: Wet-Chemistry

WorkList ID: 184312

%1-P4316

WorkList Name:

06/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO 06/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO 06/20/2024 Chemtech -SO 06/20/2024 Chemtech -SO 06/20/2024 Chemtech -SO 06/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO 06/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO 06/20/2024 Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Date: 10-10-2024 11:40:20 Collect Date Method 14,00 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 06/20/2024 Raw Sample Location Storage 10110125 A11 **A11** A11 A11 A11 Date/Time USEP01 Customer USEP01 Cool 4 deg C Preservative Percent Solids Test Matrix Solid 13:10 Customer Sample MYDB88D MYDB88S MYDB74 MYDB75 MYDB76 MYDB79 MYDB73 MYDB78 MYDB82 MYDB85 MYDB88 MYDB90 MYDB83 MYDB89 MYDB77 MYDB80 MYDB81 MYDB84 MYDB86 MYDB87 MYDB91 Raw Sample Received by: 10110124 P4316-08 P4316-02 P4316-05 P4316-01 P4316-03 P4316-04 P4316-06 P4316-09 P4316-10 P4316-11 P4316-12 P4316-13 P4316-14 P4316-15 P4316-16 P4316-19 P4316-07 P4316-17 P4316-18 P4316-20 P4316-21 Sample Date/Time

Page 1 of 2

Raw Sample Relinquished by:

30 (esc

Raw Sample Relinquished by:

Raw Sample Received by:

WORKLIST(Hardcopy Internal Chain)

Raw Sample Department: Wet-Chemistry WorkList ID: 184312 %1-P4316 WorkList Name: Sample

Test

Matrix

Customer Sample

Date: 10-10-2024 11:40:20

Collect Date Method

Storage Location

Customer

Preservative

06/21/2024 Chemtech -SO

A11

USEP01

Cool 4 deg C

Percent Solids

Solid

MYDBA8

P4316-22

187132859

Raw Sample Received by:

Page 2 of 2

Raw Sample Relinquished by:

Date/Time 10|10|14 13:10

Raw Sample Relinquished by:

Raw Sample Received by: