SDG COVER PAGE

Lab Name:	Alliance	Technical Group, LLC	Contract	: 68HERH20D	0011	
Lab Code:	ACE	Case No.: 51772	MA No.:	3225.1,3226	.1	SDG No.: MYDAQ6
SOW No. :	SFAM01.1					
EPA Sample	No.	Lab Sample Id	ICP-AES	Analysis ICP-MS	Method Mercury	Cyanide
MYDAQ6		P4309-01	X	Х		
MYDAQ6D		P4309-02	X	Х		
MYDAQ6S		P4309-03	X	Х		
MYDAR4		P4309-04	Х	Х		
MYDAR5		P4309-05	X	Х		
MYDAR6		P4309-06	X	Х		
MYDAR7		P4309-07	Х	Х		
MYDAR8		P4309-08	X	Х		
mydar9		P4309-09	Х	Х		
mydas0		P4309-10	Х	Х		
MYDAS1		P4309-11	X	Х		
MYDAS2		P4309-12	X	Х		
MYDAS3		P4309-13	Х	Х		
MYDAS4		P4309-14	X	Х		
MYDAS5		P4309-15	X	Х		
MYDAS6		P4309-16	Х	Х		
MYDAS7		P4309-17	X	Х		
MYDAS8		P4309-18	X	Х		
mydas9		P4309-19	X	Х		
MYDAT0		P4309-20	X	Х		
MYDAT1		P4309-21	X	Х		
MYDAT2		P4309-22	X	X		

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

Signature:	 Name:	

Date:

_____ Title:

The Custody Seal Into								
1 21	Custedy Seal						(
	11-6-4	10-4-24	R	1600	STON	Gruen WESTON	Olin &	SHIP TO
	2	_	Received by (Sighamic and Ciguineers)) ⁶	rganization)	Relinquished by (Signature and Organization)	Relinquished t	Items/Reason
Sample Condition Upon Receipt	Sample Cond	n) Date/Time	ad by / Signature and Organization	-				
						ES 11+Metals	AES 11=ICP-A	Analysis Key: ICP-AES 11=ICP-AES 11+Metals
of Custody #	rred From Chain	Samples Transferred From Chain of Custody #	etals: Ag, As, Ba,Be, Cd, Co, Cr,	Sample(s) to be used for Lab QC: 90299-B-0006-03 Tag 9-5204 - Special Instructions. Tor The 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,Cu, Ni, Pb, Sb, Se,TI,V,Zn	ag 9-5204 - 3 Mn,Na,Ni,Pb,S	90299-B-0006-03 T Co,Cr,Cu,Fe,K,Mg, ^I	ed for Lab QC: s,Ba,Be,Ca,Cd, TI, V, Zn	ample(s) to be us 1+Metals:Ag,Al,As u, Ni, Pb, Sb, Se,
	e Complete? N	Shipment for Case Complete? N						
			-2-22 12 (110112) (11)	ICP-AES TT(ZT)	Grab	Soil/ REAC	MYDAR7	90299-A-0006-01
8	06/19/2024 10:58	90299-A-0006	0 E215 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAR6	90299-A-0002-01
۵ د	06/19/2024 10:58	90299-A-0002	9-02 10 (None) (1)	ICP-AES TT(ZT)	Grab	Soil/ REAC	MYDAR5	90299-D-0007-01
ان بر	06/19/2024 14:15	90299-D-0007	9-5212 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAR4	90299-A-0009-02
*	06/19/2024 10:55	00209-A-0009	9-521 (NUND) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAR3	90299-C-0006-01
	06/19/2024 10:33	9000-0-0000 90299-0-0000	9-5210 (None) (1)	(CP-AES 11(21)	Grab	Soil/ REAC	MYDAR2	90299-B-0003-01
	06/19/2024 11:16		9-5209 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAR1	90299-0-0004-01
	06/10/2024 11:21	90299-8-0004	9-5208 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDARD	90299-B-0010-01
	06/19/2024 11:23	90299-B-0010	9-5207 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDADO	90299-B-0001-01
	06/19/2024 11.20	0299-B-0001	9-5206 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	WIT UTWIT	90299-B-0007-01
	06/19/2024 11:30	90299-B-0007	9-5205 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAQ6	90299-B-0006-03
•	06/19/2024 11:33	90299-B-0006	9-5204 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAQ5	90299-B-0002-01
	06/19/2024 11:35	90299-B-0002	9-5203 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAQ4	90299-B-0008-01
	06/19/2024 11:37	90299-B-0008	0-5207 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAQ3	90299-B-0005-01
-	06/19/2024 11:38	90299-B-0005	9-5200 (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAQ2	90299-A-0005-01
	06/19/2024 10:56	90299-A-0005		ICP-AES 11(21)	Grab	Soil/ ERT	MYDAQ1	90298-E-0006-01
	06/19/2024 14:53	90298-E-0006		ICP-AES 11(21)	Grab	Soil/ REAC	MYDAQ0	90298-E-0009-01
	06/19/2024 13:42	90298-E-0009	9-519/ (None) (1)	ICP-AES 11(21)	Grab	Soil/ REAC	MYDAP9	90298-F-0002-01
Only	Date/Time 06/19/2024 13:57		Tag/Preservative/Bottles	Analysis/Turnaround (Days)	Coli. Method	Matrix/Sampler	CLP Sample No.	Sample Identifier

68HERH20D0011

CHAIN OF CUSTODY RECORD

Case #: 51772

SDG # MYDAQ6

No: 9-062024-122449-0077

Page 1 of 3

USEPA CLP COC (LAB COPY)

DateShipped: 10/3/2024 CarrierName: FedEx

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

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Page 2 of 3 USEPA CLP COC (LAB COPY)

DateShipped: 10/3/2024 CarrierName: FedEx

CHAIN OF CUSTODY RECORD

Case #: 51772 Cooler #: 51772-077

> SDG # MYDAQ6 No: 9-062024-122449-0077

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

Sample Identifier	CLP	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Date/Time	Only
	MYDAP8	Snill RFAC	Grab	ICP-AES 11(21)	9-5216 (None) (1)	90299-A-0003	06/19/2024 11:01	PG
90299-A-0003-01		Snill RFAC	Grab	ICP-AES 11(21)	9-5217 (None) (1)	Z000-0-66Z06	00/15/2024 10:15 7	8-
90299-0-0002-01	MYDASD	Soil/ REAC	Grab	ICP-AES 11(21)	9-5218 (None) (1)	0100-0-66206	06/40/2024 10:10	0
90299-0-0010-01	INT DOOD	Soil REAC	Grab	ICP-AES 11(21)	9-5219 (None) (1)	90299-C-0007	06/19/2024 10.12	5-
90299-C-0007-01	WITUAN		0.00	ICP-AES 11(21)	9-5220 (None) (1)	90299-C-0009	06/19/2024 10:14	
90299-C-0009-01	MYDAS2	Soil/ REAC	Grab		9-5221 (None) (1)	90299-C-0001	06/19/2024 10:22	2
90299-C-0001-01	MYDAS3	Soil/ REAC	Grab		0 5000 (None) (1)	90299-C-0003	06/19/2024 10:29	F
90299-C-0003-01	MYDAS4	Soil/ REAC	Grab	ICP-AES 11(21)	9-3222 (None) (1)	90299-C-0005	06/19/2024 10:25	17
00200-0-0005-01	MYDAS5	Soil/ REAC	Grab	ICP-AES 11(21)		00200_0_0009	06/19/2024 10:54	S
an2ag_A-0009-01	MYDAS6	Soil/ REAC	Grab	ICP-AES 11(21)		00700_F_0009	06/19/2024 14:30	5
00000_F_0009-01	MYDAS7	Soil/ REAC	Grab	(CP-AES 11(21)			n6/19/2024 10:08	5
90299 E 0004 04	MYDASS	Soil/ REAC	Grab	ICP-AES 11(21)	9-5226 (None) (1)		00/10/2021 10:48	3
10-4000-0-66706		Coll REAC	Grab	ICP-AES 11(21)	9-5227 (None) (1)	1.000-V-66706	00/10/2027 10:40	1
90299-A-0001-01	WT DATE		Grah	ICP-AES 11(21)	9-5228 (None) (1)	90299-A-0007	06/19/2024 10:37	
90299-A-0007-01	MYDAIU			ICP_AES 11(21)	9-5229 (None) (1)	90299-A-0008	06/19/2024 10:42	3
90299-A-0008-01	MYDAT1	Soll REAC	Giap		9-5230 (None) (1)	90299-A-0010	06/19/2024 10:40	y
90299-A-0010-01	MYDAT2	Soil/ REAC	Grab		0 5001 (None) (1)	90299-A-0004	06/19/2024 10:45	
00200-A-0004-01	MYDAT3	Soil/ REAC	Grab	ICP-AES 11(21)		00200 F-0002	n6/19/2024 14:36	
00200_F_0002-01	MYDAT4	Soil/ REAC	Grab	ICP-AES 11(21)	(1) (alion) 7276-6	00200 E 0005	ne/19/2024 14:40	
00200 E 0005-03	MYDAT5	Soil/ REAC	Grab	ICP-AES 11(21)	9-5233 (None) (1)	00100 1 0000	02/10/2021 1A-38	
90299-E-0000-00	MYDATA	Soil/ REAC	Grab	ICP-AES 11(21)	9-5234 (None) (1)	9000-3-6206	00/10/2021 100	
90209 1 0000 0						shinment for Case Complete? N	se Complete? N	
Sample(s) to be used for Lab QC: 90299-E-0005-03 Tag 9-5233 - Special Instructions: ICP-AES								

SHIP TO Analysis Key: ICP-AES 11=ICP-AES 11+Metals LAB Items/Reason Relinquished by (Signature and Organization) PANER MESTON 10/3/24 @ 1600 Date/Time Received by (Signature and Organization) 939 Date/Time ¥, wo Temp BLL TR G #1 Sample Condition Upon Receipt 5.4. 1

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alli	ance Technical Group	, LLC	\cap			Page 1_of_	4	
Received By (Pr	int Name asse	300	a les	7		Log-in Date	10/4/20	24
Received By (Si		y an						
Case Number	51772	SD	G No. MYD	AQ6		MA No. 32	25.1,3226.1	
								1
Remarks:	_	-				Correspondir	ng	Remarks:
Custody Seal (s)	Present, Intact			Aqueous	,			Condition
2. Custody Seal Nos.	<u>n/a</u>		EPA Sample #	Water Sample pH	Sam Tag	-	Assigned Lab #	of Sample Shipment, etc.
3. Traffic Reports/Chain Of	Present		MYDAQ6	N/A	9-5204		P4309-01	Intact
Custody Records		2	MYDAQ6D	N/A	9-5204		P4309-02	Intact
4. Airbill	Brocont	3	MYDAQ6S	N/A	9-5204		P4309-03	Intact
T. ALUIII	Present	4	MYDAR4	N/A	9-5212		P4309-04	Intact
5. Airbill No. and	779000575575	5	MYDAR5	N/A	9-5213		P4309-05	Intact
Shipping Container ID No.	1	6	MYDAR6	N/A	9-5214		P4309-06	Intact
6. Shipping Container	Abaant	- 2	MYDAR7	N/A	9-5215		P4309-07	Intact
Temperature	Absent	8	MYDAR8	N/A	9-5216		P4309-08	Intact
Indicator Bottle		9	MYDAR9	N/A	9-5217		P4309-09	Intact
7. Shipping Container	21.4 Degree C		0 MYDAS0	N/A	9-5218		P4309-10	Intact
Temperature			1 MYDAS1	N/A	9-5219		P4309-11	Intact
8. Sample	Intact		2 MYDAS2	N/A	9-5220		P4309-12	Intact
Condition			3 MYDAS3	N/A	9-5221		P4309-13	Intact
			4 MYDAS4	N/A	9-5222		P4309-14	Intact
9. Sample Tags Sample Tag	Absent		5 MYDAS5	N/A	9-5223		P4309-15	Intact
Numbers	Listed on Traffic	10	5 MYDAS6	N/A	9-5224		P4309-16	Intact
	Report		7 MYDAS7	N/A	9-5225		P4309-17	Intact
10. Does information on Traffic	Yes	18	3 MYDAS8	N/A	9-5226		P4309-18	Intact
Reports/Chain of		19	MYDAS9	N/A	9-5227		P4309-19	Intact
Custody Records and Sample Tags		20	MYDAT0	N/A	9-5228		P4309-20	Intact
agree ?		21	MYDAT1	N/A	9-5229		P4309-21	Intact
11. Date Received at	10/04/2024	22	2 MYDAT2	N/A	9-5230		P4309-22	Intact
Lab		23	8 N/A	N/A	N/A		N/A	N/A
12.Time Received	09:39							

* Contact SMO and attach record of resolution

Reviewed By	Ver.	Logbook No.	N/A	
Pate	1014/24	Logbook Page No.	N/A	

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

Alliance Technical	Group, LLC	
ACE		
68HERH20D0011		
51772	SDG NO.	MYDAQ6
3225.1,3226.1	SOW NO.	SFAM01.1
6	ACE 58HERH20D0011 51772	58HERH20D0011 51772 SDG NO.

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

1. SDG Cover Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			PAGE	NOs:	CH	IECK
2. Traffic Report/Chain of Custody Record(s) 2 3 - 3. Sample Log-In Sheet (DC-1) 4 4 - 4. CSF Inventory Sheet (DC-2) 5 7 - 5. 8DG Narrative 8 17 - 6. Communication Logs 18 20 - 7. Percent Solids Log 18 20 - Analysis Forms and Data (ICP-AES) 8 17 - 8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory CC as applicable 21 40 - 9. Instrument raw data by instrument in analysis order 41 391 - Other Data 392 543 - - 10. Original Preparation Logs 392 543 - - 11. Original Preparation and Cleanup forms or copies of Preparation and table is or Instrument Run forms or copies of Analysis or Instrument Ruppooks - - - 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instrument Rum forms or copies of Analysis or Instrument SPE NA NA - 14. Extraction Logs for TCLP and SPLE NA NA - - 15. Raw FIOrisil Data N			FROM	TO	LAB	REGION
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Analysis Forms and Data (ICP-AES) 8. Sample Analysis Data Forms (IA-OR, IB-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 21 40 ✓ 9. Instrument raw data by instrument in analysis order 41 391 ✓ Other Data 392 543 ✓ 10. Standard and Reagent Preparation Logs 392 543 ✓ 11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks 546 554 ✓ 12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks 546 554 ✓ 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 ✓ ✓ 17. Sample Analysis Data Forms (IA-OR, IB-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable 575 574 ✓ 18. Instrument raw data by instrument in analysis order 575 2050 ✓ 19. Standard and Reagent Preparation Logs 2051 2191 ✓	6.	Communication Logs	NA	NA	~	
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			FROM	ТО	LAB	REGION
Additional 44. EPA Shipp	ping/Receiving Documents					
Airbill	(No. of Shipments)		2213	2213	✓	
Sample T	ags		NA	NA	✓	
Sample L	og-In Sheet (Lab)		2214	2216	✓	
45. Misc. Sh	ipping/Receiving Records(list all indivic	dual records)	NA	NA	_ ✓	
	Lab Sample Transfer Records and Tracking e or list)	g Sheets	2217	2220	_	
	cords and related Communication Logs e or list)		NA	NA		
48. Comments	:					
Completed by (CLP Lab)	/:	Nimisha Pandya, Docu	ument Control	. Officer		
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SDG NARRATIVE

USEPA SDG # MYDAQ6 CASE # 51772 CONTRACT # 68HERH20D0011 SOW# SFAM01.1 LAB NAME: Alliance Technical Group, LLC LAB CODE: ACE LAB ORDER ID # P4309 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: 21.4°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.

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.

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 MYDAQ6 For Antimony:

If C = 0.0049147 ppm Vf = 100 ml W = 1.13gS = 0.974(97.4/100)DF = 1

Concentration (mg/kg) = $0.0049147 \text{ x} \frac{100}{1.13 \text{ x} 0.974} \text{ x} 1$

= 0.89307 mg/kg

= 0.89 mg/kg (Reported Result with Signification)

Calculation for ICP-MS Soil Sample:

Conversion of Results from $\mu g / L$ or ppb to mg/kg :

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

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 MYDAQ6 For Antimony :

If C = 1.81 ppb Vf = 500 ml W = 1.13 g S = 0.974(97.4/100) DF = 1 Concentration (mg/kg) = 1.81 x $\frac{500}{1.13 \times 0.974}$ x 1 / 1000 = 0.8223 mg/kg = 0.82 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, Selenium. Spike sample(MYDAQ6SRE) did meet requirements except for Silver. Duplicate sample did meet requirements. Serial Dilution did meet requirements except for Vanadium.

Chemical or physical interference effect was suspected and the data for all affected analytes in the sample received and associated with this serial dilution were flagged.

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.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc

Internal Standard Association for ICP-MS analysis.



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

	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		
with additional modified LCS and Unless specifically modified by th	Matrix Spikes and ar is modification, all ar	mples by EPA Draft Method 3050C (see below) nalyze for the scheduled target analytes by ICP-MS. nalyses, Quality Control (QC), and reporting ent EPA agreement remain unchanged and in full
I. Analyte Modifications		Not applicable
II. Calibration and QC Requirem	ents	Not applicable
Recovery limits do NOT aPrepare a Matrix Spike sp	dditional Laboratory pply to this LCS and r piked at three times t	Control Sample (LCS) spiked at the CRQL. Percent no corrective actions are required. the levels specified in the SOW.
for this Modified AnalysisPost-Digestion Spike requPost-Digestion Spike corr	s (i.e., 15x the levels suirements apply to the	ne 5x Matrix Spike only.
Post-Digestion Spike requ	s (i.e., 15x the levels s uirements apply to th ective actions apply t	specified in the SOW). ne 5x Matrix Spike only.

IV. Special Reporting Requirements

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		
with additional modified LCS a AES. Unless specifically modified	nd Matrix Spikes and a ed by this modificatior	amples by EPA Draft Method 3050C (see below) analyze for the scheduled target analytes by ICP- n, all analyses, Quality Control (QC), and reporting rent EPA agreement remain unchanged and in full
I. Analyte Modifications		Not applicable 🔀
II. Calibration and QC Require	ements	Not applicable
 for Draft Method 3050 Prepare and analyze and Recovery limits do NO Prepare a Matrix Spike Post-Digestion Spike recovery 	C. n additional Laborator T apply to this LCS and spiked at two times t equirements apply to t	•
Post-Digestion Spike co	· · · ·	
III. Preparation and Method N The Laboratory shall:	lodifications	Not applicable
 Mix sample the Add 10 mL 1:1 minutes. Add 5 mL conc digestion complete 	oroughly and transfer HNO ₃ and 5 mL 1:1 H centrated HNO ₃ and re	t Method 3050C as follows: 1.00 – 1.50 g to a digestion vessel. Cl, heat the sample at 95°C (±3°C) and reflux 10 -15 flux for 30 minutes at 95°C (±3°C), repeat until

• Method Blanks, both LCS, and all instrument QC are to be analyzed undiluted.

IV. Special Reporting Requirements

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 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}	\boxtimes	1	Fe	-0.000064	0.000000	No
	TI 190.856 {477}	X	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}	M	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}		3	Fe	-0.000308	0.000000	No
			-	Mn	0.000470	0.000000	No
			•	Co	-0.000630	0.000000	No
	Sb 206.833 {463}	\boxtimes	4	Cr	0.010700	0.000000	No
	00 200:000 [100]	<u> </u>		V	-0.001168	0.000000	No
				Mo	-0.002850	0.000000	No
				Ni	-0.002850		
	AI 396.152 { 85}		4	å		0.000000	No
	Ba 493.409 { 68}		Nono	Мо	0.037230	0.000000	No
	Be 234.861 {144}	H	None	Ma	0.000000	0.000000	. NI-
	De 234.001 {144}	X	3	Mo	-0.000320	0.000000	No
		******		Fe	0.000010	0.000000	No
-	CH 214 420 (457)	57	4	Mn	-0.000047	0.000000	No
****	Cd 214.438 {457}	<u> </u>	1	Fe	0.000040	0.000000	No
	Ca 373.690 { 90}		None				
****	Cr 267.716 {126}	<u> </u>	1	Mn	0.000160	0.000000	No
	Co 228.616 {448}		2	Ti	0.001840	0.000000	No
į				Мо	-0.001230	0.000000	No
	Cu 324.754 {104}		4	Co	-0.000796	0.000000	No
ļ				Fe	-0.000100	0.000000	No
ļ				Mn	0.000345	0.000000	No
				Ni	0.000895	0.000000	No
	Fe 259.837 {130}		None				
ļ	Vn 257.610 {131}		1	Ni	0.000897	0.000000	No
*****	Vg 279.079 {121}		None				
	Ni 231.604 {446}		None				
1	Ag 328.068 {103}	\boxtimes	3	Fe	-0.000100	0.000000	No
1				Mn	0.000146	0.000000	No
				V	-0.000889	0.000000	No
1	Na 818.326 { 41}		None			1	<u> </u>
1	/ 292.402 {115}	\boxtimes	2	Мо	-0.008480	0.000000	No
Ī				Cr	-0.002220	0.000000	No
Z	n 206.200 {464}		None				*·····
Z	n 213.856 {158}		1 1	Ni	0.007280	0.000000	No
K	(769.896 { 44 }		None				······
	177.495 {490}		2	Ni	0.001640	0.000000	No
1	<u> </u>	¥		Cu	-0.012530	0.000000	No
İВ	249.678 {135}		3	Co	0.002880	0.000000	No
Ť		KN		V	-0.002000	0.000000	No
<u>†</u>		İ	<u> </u>	Fe	-0.001360	0.000000	No
Ň	lo 202.030 {467}		None	10	-0.001000	0.00000	110
					+		
	182.034 {485}		2	Mo	-0.008000	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
	Si 251.611 {134}		2	Мо	0.010520	0.000000	No
				Ti	0.005650	0.000000	No
	Sn 189.989 {478}		None		<u> </u>		
	Ti 336.121 {100}		1	Ni	-0.001000	0.000000	No
	Li 670.784 { 50}		None		1	1	110
	Y 224.306 {450}*		None				
I	Y 360.073 { 94}*		None				
Î	Y 371.030 { 91}*		None				
Ī	Y 224.306 {150}*		None				<u> </u>
	In 230.606 {446}*		None				
	Sr 407.771 { 83}		None				[[

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PERCENT SOLID

Supervisor: Iwona Analyst: jignesh Date: 10/8/2024

OVENTEMP IN Celsius (°C): 107 Time IN: 17:25 In Date: 10/07/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 OvenID: M OVEN#1 OVENTEMP OUT Celsius (°C): 103 Time OUT: 08:15 Out Date: 10/08/2024 Weight Check 1.0g: 1.00 Weight Check 10g: 10.00 BalanceID: M SC-4 Thermometer ID: % SOLID- OVEN

QC:LB132814

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
P4309-01	MYDAQ6	1	1.14	8.55	9.69	9.47	97.4	
P4309-02	MYDAQ6D	2	1.14	8.55	9.69	9.47	97.4	
P4309-03	MYDAQ6S	3	1.14	8.55	9.69	9.47	97.4	
P4309-04	MYDAR4	4	1.18	8.71	9.89	9.68	97.6	
P4309-05	MYDAR5	5	1.12	8.74	9.86	9.75	98.7	
P4309-06	MYDAR6	6	1.18	8.72	9.9	9.78	98.6	
P4309-07	MYDAR7	7	1.15	8.43	9.58	9.45	98.5	
P4309-08	MYDAR8	8	1.18	8.46	9.64	9.47	98.0	
P4309-09	mydar9	9	1.18	8.56	9.74	9.58	98.1	
P4309-10	MYDAS0	10	1.15	8.61	9.76	9.6	98.1	
P4309-11	MYDAS1	22	1.13	8.62	9.75	9.49	97.0	
P4309-12	MYDAS2	11	1.18	8.42	9.6	9.19	95.1	
P4309-13	MYDAS3	12	1.17	8.41	9.58	9.28	96.4	
P4309-14	MYDAS4	13	1.18	8.72	9.9	9.87	99.7	
P4309-15	MYDAS5	14	1.15	8.59	9.74	9.63	98.7	
P4309-16	MYDAS6	15	1.13	8.80	9.93	9.68	97.2	
P4309-17	MYDAS7	16	1.12	8.60	9.72	9.63	99.0	
P4309-18	MYDAS8	17	1.18	8.67	9.85	9.44	95.3	
P4309-19	MYDAS9	18	1.14	8.60	9.74	9.6	98.4	
P4309-20	MYDAT0	19	1.18	8.62	9.8	9.54	97.0	
P4309-21	MYDAT1	20	1.15	8.67	9.82	9.57	97.1	
P4309-22	MYDAT2	21	1.18	8.53	9.71	9.35	95.8	

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

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%1-p4309 WorkList Name :

Chemtech -SO Chemtech -SO 06/19/2024 Chemtech -SO Chemtech -SO Chemtech -SO 06/19/2024 Chemtech -SO Chemtech -SO Chemtech -SO 06/19/2024 Chemtech -SO 06/19/2024 Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO 06/19/2024 Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO Chemtech -SO 06/19/2024 Chemtech -SO 06/19/2024 Chemtech -SO Date: 10-07-2024 16:44:49 Collect Date Method 14130 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 06/19/2024 Raw Sample Location Storage Raw Sample Received by: Date/Time 10 10 7 124 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 A11 USEP01 Customer **USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01** USEP01 **USEP01** USEP01 **USEP01 USEP01 USEP01 USEP01 USEP01 USEP01 USEP01** USEP01 Department : Wet-Chemistry Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Cool 4 deg C Preservative Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids Percent Solids WorkList ID: 184206 Test Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid C sm Jas conc 16:50 **Customer Sample** MYDAQ6D **MYDAQ6S** MYDAQ6 **MYDAR5** MYDAR4 **MYDAR6 MYDAR7 MYDAR8 MYDAR9** MYDAS4 **MYDAS0** MYDAS1 **MYDAS2 MYDAS3 MYDAS5 MYDAS6 MYDAS7** MYDAS8 MYDAS9 **MYDAT0** MYDAT1 Raw Sample Relinquished by: Raw Sample Received by: Date/Time 10 07 34 P4309-06 P4309-01 P4309-02 P4309-03 P4309-05 P4309-04 P4309-08 P4309-09 P4309-10 P4309-12 P4309-13 P4309-14 P4309-15 P4309-07 P4309-11 P4309-16 P4309-17 P4309-18 P4309-19 P4309-20 P4309-21 Sample

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Raw Sample Relinquished by:

Page 1 of 2

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Chain
Internal
Hardcopy
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61878191	Date: 10-07-2024 16:44:49	Raw Sample Storage Collect Date Method
WORKLIST(Hardcopy Internal Chain)	NorkList ID: 184206 Department: Wet-Chemistry	Matrix Test Preservative Customer
	WorkList Name: %1-p4309 Workl	Sample Customer Sample Matr

P4309-22 MYDAT2 Solid Percent Solids Cool 4 deg C USEP01 A11 06/19/2024 Chemtech -SO			
ids Cool 4 deg C USEP01 A11			Chemtech -SO
ids Cool 4 deg C USEP01 A			06/19/2024
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P4309-22 MYDAT2 Solid Percent Solids		Cool 4 dea C	0 000
P4309-22 MYDAT2 Solid		Percent Solids	
P4309-22 MYDAT2		Solid	
P4309-22	AN/DATO	MT DALZ	
	P4300.22	77-0004 -	

Ge SM Date/Time 101 ビナルト / 1・50 Raw Sample Received by: 50 (いしし) Raw Sample Relinquished by:

17130 el su Raw Sample Relinquished by: Date/Time (0/07) 24 Raw Sample Received by:

Page 2 of 2