SDG COVER PAGE

Lab Name: All	liance Technical Group, LLC	Contract	: 68HERH20D0011	
Lab Code: ACI	Case No.: 51810	MA No.:		SDG No.: MC0VL1
SOW No.: SFA	AM01.1			
EPA Sample No	. Lab Sample Id	ICP-AES	Analysis Method ICP-MS Mercury	Cyanide
EIA Sample NO	. Lab Sample Id	ICI ALS	ici Mb Melculy	Cyanitae
MC0VL1	P4688-01	X	X	
MC0VL2	P4688-02	X	X	
MC0VL3	P4688-03	X	X	
MC0VL4	P4688-04	X	X	
MC0VL5	P4688-05	X	X	
MC0VL6	P4688-06	X	X	
MC0VL7	P4688-07	X	X	
MC0VL8	P4688-08	X	X	
MC0VL9	P4688-09	X	X	
MC0VM0	P4688-10	X	X	
MC0VM0D	P4688-11	X	X	
MC0VM0S	P4688-12	X	X	
MC0VM1	P4688-13	X	X	
MC0VM2	P4688-14	X	X	
MC0VM3	P4688-15	Х	X	
MC0VM4	P4688-16	Х	X	
MC0VM5	P4688-17	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:

USEPA CLP COC (LAB COPY)

AirbillNo: 779673324982 CarrierName: FedEx DateShipped: 11/1/2024

68HERH20D0011

SDG # MC0VL1

No: 3-110124-082043-0018

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

CHAIN OF CUSTODY RECORD

Case #: 51810 Cooler #:

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
EA0021-GB	MC0VL1	Soil/ START	Grab	ICP-AES(21)	1241 (<6C) (1)	0021	10/31/2024 09:45	
EA0023-GB	MC0VL2	Soil/ START	Grab	ICP-AES(21)	1243 (<6C) (1)	0023	10/31/2024 11:23	
EA0024-GB	MC0VL3	Soil/ START	Grab	ICP-AES(21)	1245 (<6C) (1)	0024	10/30/2024 17:50	
EA0025-GB	MC0VL4	Soil/ START	Grab	ICP-AES(21)	1247 (<6C) (1)	0025	10/31/2024 12:25	
EA0026-GB	MC0VL5	Soil/ START	Grab	ICP-AES(21)	1249 (<6C) (1)	0026	10/31/2024 08:50	
EA0027-GB	MC0VL6	Soil/ START	Grab	ICP-AES(21)	1251 (<6C) (1)	0027	10/31/2024 13:38	
EA0028-GB	MC0VL7	Soil/ START	Grab	ICP-AES(21)	1253 (<6C) (1)	0028	10/31/2024 09:50	
EA0029-GB	MC0VL8	Soil/ START	Grab	ICP-AES(21)	1255 (<6C) (1)	0029	10/31/2024 13:05	
EA0029-GB-DUP	MC0VL9	Soil/ START	Grab	ICP-AES(21)	1257 (<6C) (1)	0029	10/31/2024 13:05	
EA0030-GB	MCOVMO	Soil/ START	Grab	ICP-AES(21)	1259 (<6C) (1)	0030	10/31/2024 10:30	e
EA0031-GB	MC0VM1	Soil/ START	Grab	ICP-AES(21)	1262 (<6C) (1)	0031	10/31/2024 14:50	
EA0032-GB	MC0VM2	Soil/ START	Grab	ICP-AES(21)	1264 (<6C) (1)	0032	10/31/2024 11:40	
EA0033-GB	MC0VM3	Soil/ START	Grab	ICP-AES(21)	1266 (<6C) (1)	0033	10/31/2024 15:00	
EA0034-GB	MC0VM4	Soil/ START	Grab	ICP-AES(21)	1268 (<6C) (1)	0034	10/31/2024 16:10	
EA0035-GB	MC0VM5	Soil/ START	Grab	ICP-AES(21)	1270 (<6C) (1)	0035	10/31/2024 16:10	

Sample(s) to be used for Lab QC: EA0030-GB Tag 1259 - Special Instructions: Alliance Metals 3

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

Analysis Key: ICP-AES=CLP ICP-AES Metals + Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Elynea Reach TH	(1/81/27	Dear	11/2/24	2.6
	7			9:40	TROWN #1
					Tepblen Band
					7. 1. C. 1.
	Wyren Reach Th	((%)	Dev	9:40	Tepb!

FORM DC-1 SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group	, LLC	Page_1_of_1
Received By (Print Name)	x fena	Log-in Date 11/2/2024
Received By (Signature)		
Case Number 51810	SDG No. MC0VL1	MA No. N/A

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.	779673324982 1
Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.1 Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	11/02/2024
12.Time Received	09:40

		T			
	EPA Sample #	Aqueous Water Sample pH	Correspond Sample Tag #	Assigned	Remarks: Condition of Sample Shipment, etc.
1	MC0VL1	N/A	1241	P4688-01	Intact
2	MC0VL2	N/A	1243	P4688-02	Intact
3	MC0VL3	N/A	1245	P4688-03	Intact
4	MC0VL4	N/A	1247	P4688-04	Intact
5	MC0VL5	N/A	1249	P4688-05	Intact
6	MC0VL6	N/A	1251	P4688-06	Intact
7	MC0VL7	N/A	1253	P4688-07	Intact
8	MC0VL8	N/A	1255	P4688-08	Intact
9	MC0VL9	N/A	1257	P4688-09	Intact
10	MC0VM0	N/A	1259	P4688-10	Intact
11	MC0VM0D	N/A	1259	P4688-11	Intact
12	MC0VM0S	N/A	1259	P4688-12	Intact
13	MC0VM1	N/A	1262	P4688-13	Intact
14	MC0VM2	N/A	1264	P4688-14	Intact
15	MC0VM3	N/A	1266	P4688-15	Intact
16	MC0VM4	N/A	1268	P4688-16	Intact
17	MC0VM5	N/A	1270	P4688-17	Intact
18	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A
21	N/A	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A	N/A
23	N/A	N/A I	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	11/2/24	Logbook Page No.	N/A

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

LAB NAME	Alliance Tech	nnical Group, LLC		
LAB CODE	ACE			
CONTRACT NO.	68HERH20D0011			
CASE NO.	51810	SDG NO.	MC0VL1	
MA NO.		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 1	NOs:	СН	ECK
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
2. Traffic Report/Chain of Custody Record(s)	2	2	✓	
3. Sample Log-In Sheet (DC-1)	3	3	✓	
4. CSF Inventory Sheet (DC-2)	4	6	✓	
5. SDG Narrative	7	9	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	10	11	✓	
Analysis Forms and Data (ICP-AES)				
8. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	12	26	✓	
or sample analysis, laboratory QC as applicable 9. Instrument raw data by instrument in analysis order	27	382	✓	
Other Data				
10. Standard and Reagent Preparation Logs	383	532	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and	533	534	✓	
Cleanup Logbooks 12. Original Analysis or Instrument Run forms or copies of Analysis or	535	546	_	
Instrument Logbooks 13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	_	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	
Analysis Forms and Data (ICP-MS)				
17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample	NA_	NA		
or sample analysis, laboratory QC as applicable 18. Instrument raw data by instrument in analysis order	NA	NA	_	
Other Data				
19. Standard and Reagent Preparation Logs	NA	NA	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and	NA	NA	✓	
Cleanup Logbooks 21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA_	NA	✓	·

	PAGE	NOs:	CH	IECK
	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	547	561	✓	
or sample analysis, laboratory QC as applicable 27. Instrument raw data by instrument in analysis order	562	564		
Other Data				
28. Standard and Reagent Preparation Logs	565	590	✓	
29. Original Preparation and Cleanup forms or copies of Preparation and	591	592		
Cleanup Logbooks 30. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	593	596	✓	
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	✓	
<pre>Instrument Logbooks 40. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions</pre>	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	HECK
			FROM	TO	LAB	REGION
Additional						
44. EPA Shippi	ing/Receiving Documents					
Airbill (N	No. of Shipments)		597	597	✓	
Sample Tag	gs		NA	NA	✓	
Sample Log	g-In Sheet (Lab)		598	599	✓	
45. Misc. Ship	pping/Receiving Records(list all indivi	dual records)				
			NA	NA		
	Lab Sample Transfer Records and Trackin	g Sheets				
(describe	or list)		600	602	1	
						-
47 Other Bear	ords and related Communication Logs					. ———
(describe						
			NA	NA	_ ✓	
48. Comments:						
Completed by: (CLP Lab)						
(CLF Lab)	(Signature)	Nimisha Pandya, Docume (Print Name & Title)	ent Control	Officer	(Da	te)
Audited by:	. 5	, 2 2010/			,	•
(EPA)	(Signature)	(Print Name & Title)			(Da	te)
	(0191140410)	(IIIIIC Name a IICIE)			(Δα	,



SDG NARRATIVE

USEPA
SDG # MC0VL1
CASE # 51810
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID # P4688

A. Number of Samples and Date of Receipt

15 Soil samples were delivered to the laboratory intact on 11/02/2024.

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 & Mercury.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.1°C

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

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

E. Corrective Action taken for above:

Resolution: 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.



284 Sheffield Street Mountainside, NJ 07092

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) =
$$C \times Vf \times Vf$$

W x S

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 MC0VL1 For Antimony:

If
$$C = 0.0070373ppm$$

$$Vf = 100 \text{ ml}$$

$$W = 1.12 g$$

$$S = 0.885(88.5/100)$$

$$DF = 1$$

Concentration (mg/kg) =
$$0.0070373 \text{ x}$$
 $100 \text{ x } 1$
 $1.12 \text{ x } 0.885$

$$= 0.709977 \text{ mg/kg}$$

= 0.71 mg/kg (Reported Result with Signification)

Calculation for Hg Soil Sample:

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

$$Concentration (mg/kg) = \quad C \ x \underline{Vf} \ x \ DF / 1000$$

Where,

C = Instrument response in μ g/L from the calibration curve.

Vf = Final prepared (absorbing solution) 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 MC0VL1:

If C = 0.611 ppb
$$Vf = 100 \text{ mL}$$

$$W = 0.51 \text{ g}$$

$$S = 0.885(88.5 / 100)$$

$$DF = 1$$

$$Concentration (mg/kg) = 0.611 \quad x = \frac{100}{0.51 \times 0.885} \times 1 / 1000$$

$$= 0.13537 \text{ mg/kg}$$

$$= 0.14 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/QC

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

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



PERCENT SOLID

Supervisor: sohil
 Analyst: jignesh

Date: 11/8/2024

OVENTEMP IN Celsius(°C): 107

Time IN: 15:50

In Date: 11/07/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103

Time OUT: 07:45

Out Date: 11/08/2024

Weight Check 1.0g: 1.00 Weight Check 10g: 10.00

BalanceID: M SC-4

Thermometer ID: % SOLID- OVEN

Qc:LB133340

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
P4688-01	MC0VL1	1	1.14	8.59	9.73	8.74	88.5	
P4688-02	MC0VL2	2	1.19	8.56	9.75	8.79	88.8	
P4688-03	MC0VL3	3	1.15	8.37	9.52	8.5	87.8	
P4688-04	MC0VL4	4	1.12	8.40	9.52	8.79	91.3	
P4688-05	MC0VL5	5	1.16	8.81	9.97	8.25	80.5	
P4688-06	MC0VL6	6	1.18	8.79	9.97	8.88	87.6	
P4688-07	MC0VL7	7	1.18	8.74	9.92	8.14	79.6	
P4688-08	MC0VL8	8	1.16	8.50	9.66	8.03	80.8	
P4688-09	MC0VL9	9	1.18	8.57	9.75	8.09	80.6	
P4688-10	MC0VM0	10	1.14	8.55	9.69	7.99	80.1	
P4688-11	MC0VM0D	11	1.14	8.55	9.69	7.99	80.1	
P4688-12	MC0VM0S	12	1.14	8.55	9.69	7.99	80.1	
P4688-13	MC0VM1	13	1.14	8.40	9.54	8.45	87.0	
P4688-14	MC0VM2	14	1.19	8.41	9.6	7.61	76.3	
P4688-15	MC0VM3	15	1.12	8.70	9.82	8.42	83.9	
P4688-16	MC0VM4	16	1.19	8.66	9.85	9.05	90.8	
P4688-17	MC0VM5	17	1.19	8.72	9.91	8.38	82.5	

WORKLIST(Hardcopy Internal Chain)

WorkList ID: 185221 %1-P4688

WorkList Name:

oheeen 41m

	76 I-F-4068	WorkList ID :	D: 185221	Department:	Wet-Chemistry	Da	Date: 11-07-202	11-07-2024 15:15:02
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
P4688-01	MC0VL1	Solid	Percent Solids	0 1 1 1				
P4688-02	MCOV! 2			Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
	21400	pilos	Percent Solids	Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
F4688-03	MC0VL3	Solid	Percent Solids	Cool 4 deg C	USEP01	012	10/30/2024	Chompton
P4688-04	MC0VL4	Solid	Percent Solids	Cool 4 dea C	LISEDO1	2 6	4707/00/01	Oc- unailliagn
P4688-05	MC0VL5	Solid	Percent Solide	() () () () () () () () () ()		212	10/31/2024	Chemtech -SO
P4688-06	MCOVIE	1 2 0		Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
DAE00 07		Bline	Percent Solids	Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
14000-07	MC0VL7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	10/31/2024	Chomtoch
P4688-08	MC0VL8	Solid	Percent Solids	Cool 4 dea C	LINEDO4	200		Or- Incelling
P4688-09	MC0VL9	rilov:	Doront Collete		10120	מוצ	10/31/2024	Chemtech -SO
P4688-10	MCOXMO		spinos income	Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
27 0007	OMACOM	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
F4088-11	MC0VM0D	Solid	Percent Solids	Cool 4 deg C	USEP01	012	10/34/2024	
P4688-12	MCOVMOS	Solid	Percent Solids	Cool 4 dea C	I SEBOA	250	+202/10/01	Oc- Cilemtech
P4688-13	MC0VM1	Solid	Percent Solids	Cool 4 dea C	200	מוצ	10/31/2024	Chemtech -SO
P4688-14	MC0VM2	rilo S.	Dorong College		LOPE CO	מוצ	10/31/2024	Chemtech -SO
P4688-15	NACON MAS		referre solids	Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
	INCOVING	Solid	Percent Solids	Cool 4 deg C	USEP01	Q12	10/31/2024	Chemtech -SO
P4688-16	MC0VM4	Solid	Percent Solids	Cool 4 deg C	USEP01	012	10/24/2004	
P4688-17	MC0VM5	Solid	Percent Solids	Cool 4 dea C	ISED01	3 5	- 1	Chemtech -SO
					10.1300	2 2	10/31/2024	Chemtech -SO

Date/Time 11/07/24 15 1,20
Raw Sample Received by: 18 Cold

Raw Sample Relinquished by:

Raw Sample Relinquished by: Raw Sample Received by: Date/Time 1207 (24)

Page 1 of 1