

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51810 MA No.: _____ SDG No.: MC0VD4
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method			
		ICP-AES	ICP-MS	Mercury	Cyanide
MC0VD4	P4650-01			X	
MC0VD7	P4650-02			X	
MC0VD8	P4650-03			X	
MC0VD9	P4650-04			X	
MC0VE3	P4650-05			X	
MC0VE4	P4650-06			X	
MC0VE5	P4650-07			X	
MC0VE6	P4650-08			X	
MC0VF2	P4650-09			X	
MC0VF3	P4650-10			X	
MC0VF4	P4650-11			X	
MC0VF7	P4650-12			X	
MC0VF8	P4650-13			X	
MC0VF9	P4650-14			X	
MC0VG0	P4650-15			X	
MC0VG1	P4650-16			X	
MC0VG2	P4650-17			X	
MC0VG3	P4650-18			X	
MC0VG4	P4650-19			X	
MC0VH6	P4650-20			X	
MC0VH6D	P4650-21			X	
MC0VH6S	P4650-22			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: _____

No: 3-102924-161112-0004

Lab: Alliance Technical Group LLC

Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
EA0005-EY 5	MC0VD4	Soil/ START	Composite	Hg(21)	1006 (<6C) (1)	0005	10/29/2024 12:35	✓
EA0003-EY 6	MC0VD7	Soil/ START	Composite	Hg(21)	1020 (<6C) (1)	0003	10/29/2024 11:00	
EA0007-EY 7	MC0VD8	Soil/ START	Composite	Hg(21)	1024 (<6C) (1)	0007	10/29/2024 14:36	
EA0007-EY-DUP*	MC0VD9	Soil/ START	Composite	Hg(21)	1028 (<6C) (1)	0007	10/29/2024 14:36	
EA0001-EY 8	MC0VE3	Soil/ START	Composite	Hg(21)	1040 (<6C) (1)	0001	10/29/2024 09:15	
EA0002-EY 9	MC0VE4	Soil/ START	Composite	Hg(21)	1044 (<6C) (1)	0002	10/29/2024 10:15	
EA0004-EY 9	MC0VE5	Soil/ START	Composite	Hg(21)	1048 (<6C) (1)	0004	10/29/2024 11:30	
EA0009-EY 9	MC0VE6	Soil/ START	Composite	Hg(21)	1052 (<6C) (1)	0009	10/29/2024 15:52	
EA0008-EY 9	MC0VF2	Soil/ START	Composite	Hg(21)	1066 (<6C) (1)	0008	10/29/2024 13:45	
EA0010-EY 9	MC0VF3	Soil/ START	Composite	Hg(21)	1070 (<6C) (1)	0010	10/29/2024 15:00	
EA0012-EY 9	MC0VF4	Soil/ START	Composite	Hg(21)	1074 (<6C) (1)	0012	10/29/2024 15:55	
EA0011-EY 9	MC0VF7	Soil/ START	Composite	Hg(21)	1082 (<6C) (1)	0011	10/30/2024 09:09	
EA0013-EY 9	MC0VF8	Soil/ START	Composite	Hg(21)	1086 (<6C) (1)	0013	10/30/2024 10:37	
EA0017-EY 9	MC0VF9	Soil/ START	Composite	Hg(21)	1080 (<6C) (1)	0017	10/30/2024 13:18	
EA0006-EY 9	MC0VG0	Soil/ START	Composite	Hg(21)	1094 (<6C) (1)	0006	10/30/2024 08:55	
EA0014-EY 9	MC0VG1	Soil/ START	Composite	Hg(21)	1098 (<6C) (1)	0014	10/30/2024 09:40	
EA0016-EY 9	MC0VG2	Soil/ START	Composite	Hg(21)	1102 (<6C) (1)	0016	10/30/2024 11:00	
EA0018-EY 9	MC0VG3	Soil/ START	Composite	Hg(21)	1106 (<6C) (1)	0018	10/30/2024 11:57	
EA0015-EY 9	MC0VG4	Soil/ START	Composite	Hg(21)	1110 (<6C) (1)	0015	10/30/2024 11:46	

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

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Wynne St. Lawrence IT</i>	1/31/24 16:30	<i>DR</i>	945 10-31-24	TRC #1 24.5
					Custody Seal Intact
					Imp Bkt pres

No: 3-103034 464445 0004

No: 3-102924-161112-0004

Lab: Alliance Technical Group LLC


Lab Contact: Mohammad Ahmed

[illegible]

Sample(s) to be used for Lab QC: EA0019-EY Tag 1141, EA0019-EY Tag 1152, EA0019-GB Tag 1145, EA0019-GB Tag 1146 - Special Instructions: Alliance Mercury + Metals 1

Shipment for Case Complete? N

Analysis Key: Hg=CLP Mercury, 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
	<i>Christopher Anderson</i>	10/30/24 10:00		945 10-31-24	SE Coat 1 2.4.11
					Costly Seed Area
					Top Black Area

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>1</u>
Received By (Print Name) <u>Asagawa Eric</u>		Log-in Date 10/31/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51810	SDG No. MC0VD4	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>n/a</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779632145128</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.4</u> Degree C
8. Sample Condition	Intact
9. Sample Tags Sample Tag Numbers	Absent Listed on Traffic Report
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	<u>10/31/2024</u>
12. Time Received	<u>09:45</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MC0VD4	N/A	1006	P4650-01	Intact
2	MC0VD7	N/A	1020	P4650-02	Intact
3	MC0VD8	N/A	1024	P4650-03	Intact
4	MC0VD9	N/A	1028	P4650-04	Intact
5	MC0VE3	N/A	1040	P4650-05	Intact
6	MC0VE4	N/A	1044	P4650-06	Intact
7	MC0VE5	N/A	1048	P4650-07	Intact
8	MC0VE6	N/A	1052	P4650-08	Intact
9	MC0VF2	N/A	1066	P4650-09	Intact
10	MC0VF3	N/A	1070	P4650-10	Intact
11	MC0VF4	N/A	1074	P4650-11	Intact
12	MC0VF7	N/A	1082	P4650-12	Intact
13	MC0VF8	N/A	1086	P4650-13	Intact
14	MC0VF9	N/A	1090	P4650-14	Intact
15	MC0VG0	N/A	1094	P4650-15	Intact
16	MC0VG1	N/A	1098	P4650-16	Intact
17	MC0VG2	N/A	1102	P4650-17	Intact
18	MC0VG3	N/A	1106	P4650-18	Intact
19	MC0VG4	N/A	1110	P4650-19	Intact
20	MC0VH6	N/A	1141,52	P4650-20	Intact
21	MC0VH6D	N/A	1141,52	P4650-21	Intact
22	MC0VH6S	N/A	1141,52	P4650-22	Intact
23	N/A	N/A	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>10/31/24</u>	Logbook Page No. N/A

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

LAB NAME	Alliance Technical Group, LLC		
LAB CODE	ACE		
CONTRACT NO.	68HERH20D0011		
CASE NO.	51810	SDG NO.	MC0VD4
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 NOS:		CHECK	
	FROM	TO	LAB	REGION
1. SDG Cover Page	1	1	✓	
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. SDG Narrative	8	9	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	10	12	✓	

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	NA	NA	✓	
9. Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

10. Standard and Reagent Preparation Logs	NA	NA	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
13. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
14. Extraction Logs for TCLP and SPLP	NA	NA	✓	
15. Raw GPC Data	NA	NA	✓	
16. Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (ICP-MS)

17. Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
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 Cleanup Logbooks	NA	NA	✓	
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	✓	

	<u>PAGE NOS:</u>		<u>CHECK</u>	
	<u>FROM</u>	<u>TO</u>	<u>LAB</u>	<u>REGION</u>
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	13	32	✓	
27 . Instrument raw data by instrument in analysis order	33	35	✓	

Other Data

28 . Standard and Reagent Preparation Logs	36	61	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	62	63	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	64	67	✓	
31 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
32 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
33 . Raw GPC Data	NA	NA	✓	
34 . Raw Florisil Data	NA	NA	✓	

Analysis Forms and Data (Cyanide)

35 . Sample Analysis Data Forms (1A-OR, 1B-OR, and 1-IN) for each sample or sample analysis, laboratory QC as applicable	NA	NA	✓	
36 . Instrument raw data by instrument in analysis order	NA	NA	✓	

Other Data

37 . Standard and Reagent Preparation Logs	NA	NA	✓	
38 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	NA	NA	✓	
39 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	NA	NA	✓	
40 . Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	
41 . Extraction Logs for TCLP and SPLP	NA	NA	✓	
42 . Raw GPC Data	NA	NA	✓	
43 . Raw Florisil Data	NA	NA	✓	

Additional

44. EPA Shipping/Receiving Documents

Airbill (No. of Shipments 1)

Sample Tags

Sample Log-In Sheet (Lab)

45. Misc. Shipping/Receiving Records (list all individual records)

46. Internal Lab Sample Transfer Records and Tracking Sheets
(describe or list)47. Other Records and related Communication Logs
(describe or list)

48. Comments:

Completed by:
(CLP Lab)Audited by:
(EPA)

Nimisha Pandya, Document Control Officer

PAGE NOS:		CHECK	
FROM	TO	LAB	REGION
68	68	✓	
NA	NA	✓	
69	70	✓	
NA	NA	✓	
71	72	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MC0VD4

CASE # 51810

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P4650

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 10/31/2024

B. Parameters

Test requested for Mercury.

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.4°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.

G. Calculation:

Calculation for Hg Soil Sample:

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



**284 Sheffield Street
Mountainside, NJ 07092**

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

Where,

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

V_f = 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 MC0VD4 :

If C = 0.67 ppb

V_f = 100 mL

W = 0.52g

S = 0.843(84.3/100)

DF = 1

$$\text{Concentration (mg/kg)} = 0.67 \times \frac{100}{0.52 \times 0.843} \times 1 / 1000$$

$$= 0.1528424 \text{ mg/kg}$$

$$= 0.15 \text{ mg/kg (Reported Result with Signification)}$$

H. QA/ QC

Calibrations met requirements. Blank analyses did not indicate any presence of contamination. Spike sample did meet requirements. Duplicate sample 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: 13:50
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: 07:40
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:LB133333

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
P4650-01	MC0VD4	1	1.15	8.53	9.68	8.34	84.3	
P4650-02	MC0VD7	2	1.12	8.70	9.82	8.35	83.1	
P4650-03	MC0VD8	3	1.15	8.81	9.96	8.81	86.9	
P4650-04	MC0VD9	4	1.19	8.62	9.81	8.64	86.4	
P4650-05	MC0VE3	5	1.19	8.49	9.68	7.76	77.4	
P4650-06	MC0VE4	6	1.18	8.72	9.9	8.55	84.5	
P4650-07	MC0VE5	7	1.15	8.79	9.94	8.91	88.3	
P4650-08	MC0VE6	8	1.19	8.49	9.68	7.64	76.0	
P4650-09	MC0VF2	9	1.14	8.79	9.93	8.18	80.1	
P4650-10	MC0VF3	10	1.12	8.63	9.75	7.91	78.7	
P4650-11	MC0VF4	11	1.12	8.56	9.68	8.48	86.0	
P4650-12	MC0VF7	12	1.15	8.82	9.97	8.95	88.4	
P4650-13	MC0VF8	13	1.17	8.79	9.96	7.63	73.5	
P4650-14	MC0VF9	14	1.19	8.64	9.83	8.41	83.6	
P4650-15	MC0VG0	15	1.17	8.54	9.71	8.57	86.7	
P4650-16	MC0VG1	16	1.16	8.50	9.66	8.68	88.5	
P4650-17	MC0VG2	17	1.17	8.40	9.57	8.39	86.0	
P4650-18	MC0VG3	18	1.18	8.79	9.97	8.64	84.9	
P4650-19	MC0VG4	19	1.15	8.83	9.98	8.86	87.3	
P4650-20	MC0VH6	20	1.14	8.55	9.69	8.14	81.9	
P4650-21	MC0VH6D	21	1.14	8.55	9.69	8.14	81.9	
P4650-22	MC0VH6S	22	1.14	8.55	9.69	8.14	81.9	

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

WORKLIST(Hardcopy Internal Chain)

JB 133333

WorkList Name : %1-p4650 WorkList ID : 185214 Department : Wet-Chemistry Date : 11-07-2024 12:49:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4650-01	MC0VD4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-02	MC0VD7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-03	MC0VD8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-04	MC0VD9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-05	MC0VE3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-06	MC0VE4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-07	MC0VE5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-08	MC0VE6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-09	MC0VF2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-10	MC0VF3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-11	MC0VF4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-12	MC0VF7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/29/2024	Chemtech -SO
P4650-13	MC0VF8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-14	MC0VF9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-15	MC0VG0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-16	MC0VG1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-17	MC0VG2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-18	MC0VG3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-19	MC0VG4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-20	MC0VH6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO
P4650-21	MC0VH6D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO

Date/Time 11/07/24 12:55
Raw Sample Received by: JB ADC1
Raw Sample Relinquished by: JB ADC1

Date/Time 11/07/24 12:55
Raw Sample Received by: JB ADC1
Raw Sample Relinquished by: JB ADC1

VB 133333

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-p4650 WorkList ID : 185214 Department : Wet-Chemistry Date : 11-07-2024 12:49:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4650-22	MC0VH6S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q21	10/30/2024	Chemtech -SO

Date/Time 11/07/24 12:55
Raw Sample Received by: SQ 6001
Raw Sample Relinquished by: RM 50M

Date/Time 11/07/24 13:55
Raw Sample Received by: RM 50M
Raw Sample Relinquished by: SQ 6001