

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51811 MA No.: _____ SDG No.: MH2D26
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	ICP-AES	Analysis Method		
			ICP-MS	Mercury	Cyanide
MH2D26	P5388-01	X	X	X	
MH2D29	P5388-02	X	X	X	
MH2D32	P5388-03	X	X	X	
MH2D35	P5388-04	X	X	X	
MH2D38	P5388-05	X	X	X	
MH2D41	P5388-06	X	X	X	
MH2D44	P5388-07	X	X	X	
MH2D47	P5388-08	X	X	X	
MH2D50	P5388-09	X	X	X	
MH2D53	P5388-10	X	X	X	
MH2D56	P5388-11	X	X	X	
MH2D59	P5388-12	X	X	X	
MH2D62	P5388-13	X	X	X	
MH2D65	P5388-14	X	X	X	
MH2D68	P5388-15	X	X	X	
MH2D71	P5388-16	X	X	X	
MH2D74	P5388-17	X	X	X	
MH2D74D	P5388-18	X	X	X	
MH2D74S	P5388-19	X	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: _____

68HERH20D0011

SDG # MH2D26

TechLaw - ESAT Scott Vanovermeiren

CHAIN OF CUSTODY RECORD

No: 2024_OCT_SO_BPMD_#51811

Lab Contact: Mohammad Ahmed

Site #: 0000

Lab: Alliance Technical Group LLC

Lab Phone: 908-789-8900

ESAT - 1 Denver Federal Center, Denver, CO 80225

Lab Address: 284 Sheffield Street

CarrierName: FedEx

Case #: 51811

Mountainside, NJ 07092

Lab #	CLP Sample #	Tag	Location	Collected	Sample Time	Analyses	Matrix	Container	Numb Cont	Lab QC
	MH2D26	1755	EF-SS01	10/28/2024	15:30	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓ 1
	MH2D27	1756	EF-SS01	10/28/2024	15:30	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	1
	MH2D28	1757	EF-SS01	10/28/2024	15:30	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	1
	MH2D29	1762	EF-SB01	10/28/2024	15:30	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓ 1
	MH2D30	1763	EF-SB01	10/28/2024	15:30	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	1
	MH2D31	1764	EF-SB01	10/28/2024	15:30	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	1
	MH2D32	1769	MT-SS03	10/28/2024	14:00	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓ 1
	MH2D33	1770	MT-SS03	10/28/2024	14:00	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	1
	MH2D34	1771	MT-SS03	10/28/2024	14:00	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	✓ 1
	MH2D35	1776	SL-SS05	10/28/2024	11:25	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓ 1
	MH2D36	1777	SL-SS05	10/28/2024	11:25	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	2
	MH2D37	1778	SL-SS05	10/28/2024	11:25	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	2
	MH2D38	1783	SL-SS06	10/28/2024	11:50	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓ 2
	MH2D39	1784	SL-SS06	10/28/2024	11:50	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	2
	MH2D40	1785	SL-SS06	10/28/2024	11:50	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	2
	MH2D41	1790	MT-SS02	10/28/2024	09:30	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓ 2
	MH2D42	1791	MT-SS02	10/28/2024	09:30	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	2
	MH2D43	1792	MT-SS02	10/28/2024	09:30	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	3
	MH2D44	1797	SL-SS03	10/28/2024	10:45	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓ 3

Special Instructions: QC to be determined by the lab

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Amr H. ESAT RS</i>	12/26/24 (see)	<i>R. Melendez</i>	9:40 12-27-24	±R gm #1 3.2°, 3.1°, 2.4°, 3.0°, 3.1°, 2.4° Temp Blank present custody seal intact

68HERH20D0011

SDG # MH2D26

TechLaw - ESAT Scott Vanovermeiren
Lab Contact: Mohammad Ahmed
Lab Phone: 908-789-8900
CarrierName: FedEx

CHAIN OF CUSTODY RECORD
Site #: 0000
ESAT - 1 Denver Federal Center, Denver, CO 80225
Case #: 51811

No: 2024_OCT_SO_BPMD_#51811
Lab: Alliance Technical Group LLC
Lab Address: 284 Sheffield Street
Mountainside, NJ 07092

Lab #	CLP Sample #	Tag	Location	Collected	Sample Time	Analyses	Matrix	Container	Numb Cont	Lab QC
	MH2D45	1798	SL-SS03	10/28/2024	10:45	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	3
	MH2D46	1799	SL-SS03	10/28/2024	10:45	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	3
	MH2D47	1804	SL-SS04	10/28/2024	11:00	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	3
	MH2D48	1805	SL-SS04	10/28/2024	11:00	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	3
	MH2D49	1806	SL-SS04	10/28/2024	11:00	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	3
	MH2D50	1811	SL-SS01	10/28/2024	10:15	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	4
	MH2D51	1812	SL-SS01	10/28/2024	10:15	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	4
	MH2D52	1813	SL-SS01	10/28/2024	10:15	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	4
	MH2D53	1818	MT-SS05	10/28/2024	15:00	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	4
	MH2D54	1819	MT-SS05	10/28/2024	15:00	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	4
	MH2D55	1820	MT-SS05	10/28/2024	15:00	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	4
	MH2D56	1825	SL-SS02	10/28/2024	10:34	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	4
	MH2D57	1826	SL-SS02	10/28/2024	10:34	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	4
	MH2D58	1827	SL-SS02	10/28/2024	10:34	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	4
	MH2D59	1832	MT-SS01	10/28/2024	09:20	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	4
	MH2D60	1833	MT-SS01	10/28/2024	09:20	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	4
	MH2D61	1834	MT-SS01	10/28/2024	09:20	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	4
	MH2D62	1839	MT-SS04	10/28/2024	14:30	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	4
	MH2D63	1840	MT-SS04	10/28/2024	14:30	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	4

Special Instructions: QC to be determined by the lab

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Quartr ESAT R8</i>	12/26/24 1500	<i>R. Melendy</i>	9:40 12.27.24	IR gun 1 3.20
					Temp Blank present
					Custody seal intact

68HERH20D0011

SDG # MH2D26

TechLaw - ESAT Scott Vanovermeiren
 Lab Contact: Mohammad Ahmed
 Lab Phone: 908-789-8900
 CarrierName: FedEx

CHAIN OF CUSTODY RECORD
 Site #: 0000
 ESAT - 1 Denver Federal Center, Denver, CO 80225
 Case #: 51811

No: 2024_OCT_SO_BPMD_#51811
 Lab: Alliance Technical Group LLC
 Lab Address: 284 Sheffield Street
 Mountainside, NJ 07092

Lab #	CLP Sample #	Tag	Location	Collected	Sample Time	Analyses	Matrix	Container	Numb Cont	Lab QC
	MH2D64	1841	MT-SS04	10/28/2024	14:30	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	✓
	MH2D65	1846	T2-SB	10/28/2024	16:40	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓
	MH2D66	1847	T2-SB	10/28/2024	16:40	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	✓
	MH2D67	1848	T2-SB	10/28/2024	16:40	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	✓
	MH2D68	1853	T3-SB	10/28/2024	15:30	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓
	MH2D69	1854	T3-SB	10/28/2024	15:30	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	✓
	MH2D70	1855	T3-SB	10/28/2024	15:30	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	✓
	MH2D71	1860	T1-SB	10/28/2024	11:20	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓
	MH2D72	1861	T1-SB	10/28/2024	11:20	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	✓
	MH2D73	1862	T1-SB	10/28/2024	11:20	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	✓
	MH2D74	1867	T1-SB	10/28/2024	11:20	CLP_TAL Metals+Hg	Soil	Plastic Baggie	1	✓
	MH2D75	1868	T1-SB	10/28/2024	11:20	CLP_Modified SPLP (TAL Metals)+Hg	Soil	Plastic Baggie	1	✓
	MH2D76	1869	T1-SB	10/28/2024	11:20	CLP_Standard SPLP+Hg	Soil	Plastic Baggie	1	✓

Special Instructions: QC to be determined by the lab

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	<i>Chapman</i> ESAT PS	12/06/24 1500	<i>R. Morales</i>	9 AM 12.21.24	FR gun & 3.20
					Temp Blank present
					custody seal intact

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>6</u>
Received By (Print Name) <u>C. J. Pardo</u>		Log-in Date 12/27/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51811	SDG No. MH2D26	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>771042901591</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>3.2</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>12/27/2024</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2D26	N/A	1755	P5388-01	Intact
2	MH2D29	N/A	1762	P5388-02	Intact
3	MH2D32	N/A	1769	P5388-03	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>12/30/24</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>2</u> of <u>6</u>
Received By (Print Name) <u>Cassanova</u>		Log-in Date 12/27/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51811	SDG No. MH2D26	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.	<u>771042901606</u> <u>2</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>3.1</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>12/27/2024</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2D35	N/A	1776	P5388-04	Intact
2	MH2D38	N/A	1783	P5388-05	Intact
3	MH2D41	N/A	1790	P5388-06	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>12/30/24</u>	Logbook Page No. N/A


SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>3</u> of <u>6</u>
Received By (Print Name) <u>Cassanova Penie</u>		Log-in Date 12/27/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51811	SDG No. MH2D26	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>771042901617</u> <u>3</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.4</u> <u>Degree C</u>
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>12/27/2024</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2D44	N/A	1797	P5388-07	Intact
2	MH2D47	N/A	1804	P5388-08	Intact
3	N/A	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By		Logbook No.	N/A
Date	12/30/24	Logbook Page No.	N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>4</u> of <u>6</u>
Received By (Print Name) <u>Cassanova Rene</u>		Log-in Date 12/27/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51811	SDG No. MH2D26	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>771042901628</u> <u>4</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>3.0</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>12/27/2024</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2D50	N/A	1811	P5388-09	Intact
2	MH2D53	N/A	1818	P5388-10	Intact
3	MH2D56	N/A	1825	P5388-11	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>12/30/24</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>5</u> of <u>6</u>
Received By (Print Name) <u>Cassandra Peña</u>		Log-in Date 12/27/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51811	SDG No. MH2D26	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>771042901639</u> <u>5</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>3.1</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>12/27/2024</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2D59	N/A	1832	P5388-12	Intact
2	MH2D62	N/A	1839	P5388-13	Intact
3	MH2D65	N/A	1846	P5388-14	Intact
4	N/A	N/A	N/A	N/A	N/A
5	N/A	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>12/30/24</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>6</u> of <u>6</u>
Received By (Print Name) <u>Assessora Lisa</u>		Log-in Date 12/27/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51811	SDG No. MH2D26	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>771042901640</u> <u>6</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>12/27/2024</u>
12. Time Received	<u>09:40</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	MH2D68	N/A	1853	P5388-15	Intact
2	MH2D71	N/A	1860	P5388-16	Intact
3	MH2D74	N/A	1867	P5388-17	Intact
4	MH2D74D	N/A	1867	P5388-18	Intact
5	MH2D74S	N/A	1867	P5388-19	Intact
6	N/A	N/A	N/A	N/A	N/A
7	N/A	N/A	N/A	N/A	N/A
8	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A

* Contact SMO and attach record of resolution

Reviewed By <u>[Signature]</u>	Logbook No. N/A
Date <u>12/30/24</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.	51811	SDG NO.	MH2D26
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	4	✓	
3. Sample Log-In Sheet (DC-1)	5	10	✓	
4. CSF Inventory Sheet (DC-2)	11	13	✓	
5. SDG Narrative	14	18	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	19	20	✓	
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	21	37	✓	
9. Instrument raw data by instrument in analysis order	38	679	✓	
Other Data				
10. Standard and Reagent Preparation Logs	680	847	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	848	849	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	850	868	✓	
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	869	885	✓	
18. Instrument raw data by instrument in analysis order	886	1581	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1582	1733	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1734	1735	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1736	1742	✓	
22. Performance Evaluation (PE)/Proficiency Testing (PT) Sample Instructions	NA	NA	✓	

	PAGE NOS:		CHECK	
	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	1743	1759	✓	
27 . Instrument raw data by instrument in analysis order	1760	1761	✓	

Other Data

28 . Standard and Reagent Preparation Logs	1762	1786	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1787	1788	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1789	1790	✓	
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 6)

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

(Signature)

(Print Name & Title)

(Date)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
1791	1796	✓	
NA	NA	✓	
1797	1799	✓	
NA	NA	✓	
1800	1802	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

USEPA

SDG # MH2D26

CASE # 51811

CONTRACT # 68HERH20D0011

SOW# SFAM01.1

LAB NAME: Alliance Technical Group, LLC

LAB CODE: ACE

LAB ORDER ID # P5388

A. Number of Samples and Date of Receipt

17 Soil samples were delivered to the laboratory intact on 12/27/2024

B. Parameters

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

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

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 3.2°C, 3.1°C, 2.4°C, 3.0°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.



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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):

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

Where,

C = Instrument value in ppm (The average of all replicate exposures)

V_f = 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 MH2D26 For Aluminum:

If C = 54.96652 ppm

V_f = 100 ml

W = 1.37 g

S = 0.822(82.2/100)

DF = 1

$$\text{Concentration (mg/kg)} = 54.96652 \times \frac{100}{1.37 \times 0.822} \times 1$$

$$= 4880.9668 \text{ mg/kg}$$

$$= 4900 \text{ mg/kg (Reported Result with Signification)}$$

Calculation for ICP-MS Soil Sample:

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

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

Where,

C = Instrument value in ppb (The average of all replicate integrations)

V_f = 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



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Example Calculation For Sample MH2D26 For Antimony :

If C = 5.56 ppb
Vf = 500 ml
W = 1.35 g
S = 0.822(82.2/100)
DF = 1

$$\begin{aligned}\text{Concentration (mg/kg)} &= 5.56 \times \frac{500}{1.35 \times 0.822} \times 1 / 1000 \\ &= 2.50518 \text{ mg/kg} \\ &= 2.5 \text{ mg/kg (Reported Result with Signification)}\end{aligned}$$

Calculation for Hg Soil Sample:

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

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

Where,

C = Instrument response in $\mu\text{g/L}$ 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 MH2D26 :

If C = 0.4763 ppb
Vf = 100 mL
W = 0.51g
S = 0.822(82.2/100)
DF = 1

$$\begin{aligned}\text{Concentration (mg/kg)} &= 0.4763 \times \frac{100}{0.51 \times 0.822} \times 1 / 1000 \\ &= 0.113615 \text{ mg/kg} \\ &= 0.11 \text{ mg/kg (Reported Result with Signification)}\end{aligned}$$



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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. Duplicate sample did meet requirements. Serial Dilution did meet requirements.

Internal standard 209Bi(1) was out Side qc limit for samples MH2D29, MH2D35, MH2D38, MH2D44, MH2D47, MH2D50, MH2D56 in Original & 2X dilution so for these samples affected parameters are reported from Original.

Internal standard 209Bi(1) was out Side qc limit for samples MH2D35, MH2D44, MH2D47, MH2D56 in Original so for these samples affected parameters are reported from 2X Dilution.

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
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y



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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



PERCENT SOLID

Supervisor: Iwona
Analyst: rubina
Date: 12/31/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 14:20
In Date: 12/30/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 09:05
Out Date: 12/31/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134124

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
P5388-01	MH2D26	1	1.15	8.53	9.68	8.16	82.2	
P5388-02	MH2D29	2	1.15	8.39	9.54	8.36	85.9	
P5388-03	MH2D32	3	1.13	8.52	9.65	8.7	88.8	
P5388-04	MH2D35	4	1.15	8.67	9.82	8.31	82.6	
P5388-05	MH2D38	5	1.14	8.58	9.72	8.2	82.3	
P5388-06	MH2D41	6	1.14	8.49	9.63	7.38	73.5	
P5388-07	MH2D44	7	1.16	8.61	9.77	8.42	84.3	
P5388-08	MH2D47	8	1.16	8.43	9.59	8.6	88.3	
P5388-09	MH2D50	9	1.15	8.68	9.83	8.96	90.0	
P5388-10	MH2D53	10	1.15	8.55	9.7	9.1	93.0	
P5388-11	MH2D56	11	1.15	8.58	9.73	7.48	73.8	
P5388-12	MH2D59	12	1.15	8.57	9.72	8.49	85.6	
P5388-13	MH2D62	13	1.15	8.74	9.89	9.22	92.3	
P5388-14	MH2D65	14	1.17	8.44	9.61	8.71	89.3	
P5388-15	MH2D68	15	1.17	8.46	9.63	6.45	62.4	
P5388-16	MH2D71	16	1.16	8.56	9.72	8.84	89.7	
P5388-17	MH2D74	17	1.15	8.49	9.64	8.78	89.9	
P5388-18	MH2D74D	18	1.15	8.49	9.64	8.78	89.9	
P5388-19	MH2D74S	19	1.15	8.49	9.64	8.78	89.9	

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

WORKLIST(Hardcopy Internal Chain)

LB 134124

WorkList Name : % SOLID P5388 WorkList ID : 186696 Department : Wet-Chemistry Date : 12-30-2024 12:03:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5388-01	MH2D26	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-02	MH2D29	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-03	MH2D32	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-04	MH2D35	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-05	MH2D38	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-06	MH2D41	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-07	MH2D44	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-08	MH2D47	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-09	MH2D50	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-10	MH2D53	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-11	MH2D56	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-12	MH2D59	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-13	MH2D62	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-14	MH2D65	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-15	MH2D68	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-16	MH2D71	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-17	MH2D74	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-18	MH2D74D	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO
P5388-19	MH2D74S	Solid	Percent Solids	Cool 4 deg C	USEP01	C11	10/28/2024	Chemtech -SO

Date/Time 12/30/24 14:00
Raw Sample Received by: CP SH
Raw Sample Relinquished by: _____

Date/Time 12/30/24 16:30
Raw Sample Received by: CP SH
Raw Sample Relinquished by: 12/30/24