

SDG COVER PAGE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: 51878 MA No.: _____ SDG No.: E29X3
 SOW No. : SFAM01.1

EPA Sample No.	Lab Sample Id	Analysis Method			
		ICP-AES	ICP-MS	Mercury	Cyanide
E29X1	P4879-01	X	X	X	
E29X2	P4879-02	X	X	X	
E29X3	P4879-03	X	X	X	
E29X4	P4879-04	X	X	X	
E29X5	P4879-05	X	X	X	
E29X5D	P4879-06	X	X	X	
E29X5S	P4879-07	X	X	X	
E29X6	P4879-08	X	X	X	
E29X7	P4879-09	X	X	X	
E29X8	P4879-10	X	X	X	
E29X9	P4879-11	X	X	X	
E29Y0	P4879-12	X	X	X	
E29Y1	P4879-13	X	X	X	
E29Y2	P4879-14	X	X	X	
E29Y3	P4879-15	X	X	X	
E29Y4	P4879-16	X	X	X	
E29Y5	P4879-17	X	X	X	
E29Y9	P4879-18	X	X	X	
E29Z0	P4879-19	X	X	X	
E29Y6	P4879-20	X	X	X	
E29Y7	P4879-21	X	X	X	
E2A11	P4879-22	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: _____

USEPA CLP COC (LAB COPY)

Date Shipped: 11/14/2024

Carrier Name: FedEx

Airbill No: 779967006451

CHAIN OF CUSTODY RECORD

Case #: 51878

No: 5-111424-132601-0067

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
SE-01-0-0-5-11142024	E29X1	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1501 (None), 1502 (None), 1503 (None), 1504 (None) (4)	SE-01	11/14/2024 09:22	Met
SE-02-0-0-5-11142024	E29X2	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1506 (None), 1507 (None), 1508 (None), 1509 (None) (4)	SE-02	11/14/2024 09:50	Met
SE-03-0-0-5-11142024	E29X3	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1511 (None), 1512 (None), 1513 (None), 1514 (None) (4)	SE-03	11/14/2024 10:22	Met
SE-04-0-0-5-11142024	E29X4	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1516 (None), 1517 (None), 1518 (None), 1519 (None) (4)	SE-04	11/14/2024 10:35	Met
SE-05-0-0-5-11142024	E29X5	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1521 (None), 1522 (None), 1523 (None), 1524 (None) (8)	SE-05	11/14/2024 12:00	Met

Sample(s) to be used for Lab QC: SE-05-0-0-5-11142024 Tag 1521, SE-05-0-0-5-11142024 Tag 1522, SE-05-0-0-5-11142024 Tag 1523, SE-05-0-0-5-11142024 Tag 1524 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244517-18

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg

Shipment for Case Complete? N

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
	M. Hartman EA	11/14/24 18:30		11-15-24 0920	2-5°C IRL GCU #1
					custody seals intact
					TEMP B/LK. present

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111424-174259-0077

DateShipped: 11/14/2024

Lab: Alliance Technical Group LLC

CarrierName: FedEx

Lab Contact: Mohammad Ahmed

AirbillNo: 779967038582

Case #: 51878

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
SE-06-0-0-5-11142024	E29X6	Sediment/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1526 (None), 1527 (None), 1528 (None), 1529 (None) (4)	SE-06	11/14/2024 13:10	new
SE-07-0-0-5-11142024	E29X7	Sediment/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1531 (None), 1532 (None), 1533 (None), 1534 (None) (4)	SE-07	11/14/2024 13:45	new
SE-08-0-0-5-11142024	E29X8	Sediment/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1536 (None), 1537 (None), 1538 (None), 1539 (None) (4)	SE-08	11/14/2024 15:07	new
SE-09-0-0-5-11142024	E29X9	Sediment/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1541 (None), 1542 (None), 1543 (None), 1544 (None) (4)	SE-09	11/14/2024 15:35	new
SE-10-0-0-5-11142024	E29Y0	Sediment/ M.Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1546 (None), 1547 (None), 1548 (None), 1549 (None) (4)	SE-10	11/14/2024 16:00	new

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244499 - 244500

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Martin Pella EA	11/14/24 15:30	QR	11-15-24 9:20	IR Co #1 2.3°C
					Custody Seal Intact
					Temp Blank present

USEPA CLP COC (LAB COPY)

Date Shipped: 11/15/2024

Carrier Name: FedEx

Airbill No: 77989361150

CHAIN OF CUSTODY RECORD

Case #: 51878

No: 5-111524-132540-0087

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
SE-11-0-0-5-11152024	E29Y1	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1551 (None), 1552 (None), 1553 (None), 1554 (None) (4)	SE-11	11/15/2024 09:10	1 11/15/24
SE-12-0-0-5-11152024	E29Y2	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1556 (None), 1557 (None), 1558 (None), 1559 (None) (4)	SE-12	11/15/2024 10:00	2 11/15/24
SE-13-0-0-5-11152024	E29Y3	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1561 (None), 1562 (None), 1563 (None), 1564 (None) (4)	SE-13	11/15/2024 10:20	3 11/15/24
SE-14-0-0-5-11152024	E29Y4	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1566 (None), 1567 (None), 1568 (None), 1569 (None) (4)	SE-14	11/15/2024 11:10	4 11/15/24
SE-15-0-0-5-11152024	E29Y5	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1571 (None), 1572 (None), 1573 (None), 1574 (None) (4)	SE-15	11/15/2024 11:45	5 11/15/24

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244537-244538

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semi-volatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Mohdy R. EA	11/15/24 10:00		11-16-24	EA-Cont 1 2-y. C
					Intely Seal intact
					cap Black pres.

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 5-111524-101932-0081

Date Shipped: 11/15/2024

Lab: Alliance Technical Group LLC

Carrier Name: FedEx

Lab Contact: Mohammad Ahmed

Airbill No: 779982416111

Case #: 51878

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
SE-19-0-0-5-11152024	E29Y9	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1591 (None), 1592 (None), 1593 (None), 1594 (None) (4)	SE-19	11/15/2024 15:10	6/5/24
SE-20-0-0-5-11152024	E29Z0	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1596 (None), 1597 (None), 1598 (None), 1599 (None) (4)	SE-20	11/15/2024 15:30	X 6/5/24
SW-09-11142024	E29Z9	Surface Water/ M. Hartman	Grab	ICP-MS+Hg(21)	1628 (HNO3) (1)	SW-09	11/14/2024 15:35	
SW-09-11142024-F	E2A00	Filtered Water/ M. Hartman	Grab	ICP-MS+Hg (diss)(21)	1629 (HNO3) (1)	SW-09	11/14/2024 15:35	
SW-11-11152024	E2A01	Surface Water/ M. Hartman	Grab	ICP-MS+Hg(21)	1634 (HNO3) (2)	SW-11	11/15/2024 09:10	
SW-11-11152024-F	E2A02	Filtered Water/ M. Hartman	Grab	ICP-MS+Hg (diss)(21)	1635 (HNO3) (2)	SW-11	11/15/2024 09:10	
SW-13-11152024	E2A03	Surface Water/ M. Hartman	Grab	ICP-MS+Hg(21)	1640 (HNO3) (1)	SW-13	11/15/2024 10:20	
SW-13-11152024-F	E2A04	Filtered Water/ M. Hartman	Grab	ICP-MS+Hg (diss)(21)	1641 (HNO3) (1)	SW-13	11/15/2024 10:20	
SW-15-11152024	E2A05	Surface Water/ M. Hartman	Grab	ICP-MS+Hg(21)	1646 (HNO3) (1)	SW-15	11/15/2024 11:45	

Sample(s) to be used for Lab QC: SW-11-11152024 Tag 1634, SW-11-11152024-F Tag 1635 - Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244509 - 244510

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

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semi-volatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg, ICP-MS+Hg=CLP ICP-MS Metals+Hg, ICP-MS+Hg (diss)=CLP ICP-MS Metals+Hg (dissolved)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	Mulla Paka EA	11/15/24 18:00		11-14-24 9:08	2.1

Custody Seal Intact
Temp But preserved

USEPA CLP COC (LAB COPY)

DateShipped: 11/15/2024

CarrierName: FedEx

AirbillNo: 779989371860

CHAIN OF CUSTODY RECORD

Case #: 51878

No: 5-111524-142027-0088

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
SE-16-0-0-5-11152024	E29Y6	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1576 (None), 1577 (None), 1578 (None), 1579 (None) (4)	SE-16	11/15/2024 12:25	✓ A.M.
SE-17-0-0-5-11152024	E29Y7	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1581 (None), 1582 (None), 1583 (None), 1584 (None) (4)	SE-17	11/15/2024 13:30	✓ A.M.
SE-18-0-0-5-11152024	E29Y8	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1586 (None), 1587 (None), 1588 (None), 1589 (None) (4)	SE-18	11/15/2024 14:50	✓ A.M.
DUP-SE-01-11152024	E2A11	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1661 (None), 1662 (None), 1663 (None), 1664 (None) (4)	DUP-SE-01	11/15/2024 11:10	✓ 10:10pm
DUP-SE-02-11152025	E2A12	Sediment/ M. Hartman	Grab	SVOA+SIM+1,4-D SIM(21), ARO(21), PEST(21), ICP- MS+AES+Hg(21)	1666 (None), 1667 (None), 1668 (None), 1669 (None) (4)	DUP-SE-02	11/15/2025 13:30	✓

Special Instructions: SVOA+SIM (MA 3064.0) + 1,4-Dioxane SIM

244501-02

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOA+SIM+1,4-D SIM=CLP Semivolatiles+SIM, ARO=CLP PCB Aroclors, PEST=CLP Pesticides, ICP-MS+AES+Hg=CLP ICP-MS+AES Metals+Hg

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	M. Hartman E.A.	11/15/24 18:00		11-16-24 0905	20°C ILC 6000 #1
					Custody seals intact
					Temp 21°C. preserved

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>1</u> of <u>5</u>
Received By (Print Name) <u>George Nefsum</u>		Log-in Date 11/15/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51878	SDG No. E29X3	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>244517-18</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779967006451</u> <u>1</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.5</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>11/15/2024</u>
12. Time Received	<u>09:20</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29X1	N/A	1504	P4879-01	Intact
2	E29X2	N/A	1509	P4879-02	Intact
3	E29X3	N/A	1514	P4879-03	Intact
4	E29X4	N/A	1519	P4879-04	Intact
5	E29X5	N/A	1524	P4879-05	Intact
6	E29X5D	N/A	1524	P4879-06	Intact
7	E29X5S	N/A	1524	P4879-07	Intact
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>11/18/24</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>5</u>
Received By (Print Name) <u>Gorge Negron</u>		Log-in Date 11/15/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51878	SDG No. E29X3	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>244499-500</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779967038582</u> <u>2</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.3</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>11/15/2024</u>
12. Time Received	<u>09:20</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29X6	N/A	1529	P4879-08	Intact
2	E29X7	N/A	1534	P4879-09	Intact
3	E29X8	N/A	1539	P4879-10	Intact
4	E29X9	N/A	1544	P4879-11	Intact
5	E29Y0	N/A	1549	P4879-12	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>11/18/24</u>	Logbook Page No. N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>3</u> of <u>5</u>
Received By (Print Name) <u>Carolina Reis</u>		Log-in Date 11/16/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51878	SDG No. E29X3	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>244537-38</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779989361150</u> <u>3</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>11/16/2024</u>
12. Time Received	<u>09:05</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29Y1	N/A	1554	P4879-13	Intact
2	E29Y2	N/A	1559	P4879-14	Intact
3	E29Y3	N/A	1564	P4879-15	Intact
4	E29Y4	N/A	1569	P4879-16	Intact
5	E29Y5	N/A	1574	P4879-17	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>11/17/24</u>	Logbook Page No. N/A


SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>4</u> of <u>5</u>
Received By (Print Name) <u>C. J. ...</u>		Log-in Date 11/16/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51878	SDG No. E29X3	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>244509-10</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779982416111</u> <u>4</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.1</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>11/16/2024</u>
12. Time Received	<u>09:05</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29Y9	N/A	1594	P4879-18	Intact
2	E29Z0	N/A	1599	P4879-19	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	11/18/24	Logbook Page No.	N/A

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page <u>5</u> of <u>5</u>
Received By (Print Name) <u>Agustin Rem</u>		Log-in Date 11/16/2024
Received By (Signature) <u>[Signature]</u>		
Case Number 51878	SDG No. E29X3	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	<u>244501-02</u>
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No. and Shipping Container ID No.	<u>779989371860</u> <u>5</u>
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	<u>2.0</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>11/16/2024</u>
12. Time Received	<u>09:05</u>

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding		Remarks: Condition of Sample Shipment, etc.
			Sample Tag #	Assigned Lab #	
1	E29Y6	N/A	1579	P4879-20	Intact
2	E29Y7	N/A	1584	P4879-21	Intact
3	E2A11	N/A	1664	P4879-22	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>11/18/24</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.	51878	SDG NO.	E29X3
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	6	✓	
3. Sample Log-In Sheet (DC-1)	7	11	✓	
4. CSF Inventory Sheet (DC-2)	12	14	✓	
5. SDG Narrative	15	19	✓	
6. Communication Logs	NA	NA	✓	
7. Percent Solids Log	20	22	✓	
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	23	42	✓	
9. Instrument raw data by instrument in analysis order	43	319	✓	
Other Data				
10. Standard and Reagent Preparation Logs	320	461	✓	
11. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	462	463	✓	
12. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	464	470	✓	
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	471	490	✓	
18. Instrument raw data by instrument in analysis order	491	1300	✓	
Other Data				
19. Standard and Reagent Preparation Logs	1301	1438	✓	
20. Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1439	1440	✓	
21. Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1441	1449	✓	
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	1450	1469	✓	
27 . Instrument raw data by instrument in analysis order	1470	1471	✓	

Other Data

28 . Standard and Reagent Preparation Logs	1472	1497	✓	
29 . Original Preparation and Cleanup forms or copies of Preparation and Cleanup Logbooks	1498	1499	✓	
30 . Original Analysis or Instrument Run forms or copies of Analysis or Instrument Logbooks	1500	1502	✓	
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 5)

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)

(Signature)

Nimisha Pandya, Document Control Officer

(Print Name & Title)

(Date)

Audited by:
(EPA)

(Signature)

(Print Name & Title)

(Date)

PAGE NOs:		CHECK	
FROM	TO	LAB	REGION
1503	1507	✓	
NA	NA	✓	
1508	1510	✓	
NA	NA	✓	
1511	1516	✓	
NA	NA	✓	



**284 Sheffield Street
Mountainside, NJ 07092**

SDG NARRATIVE

**USEPA
SDG # E29X3
CASE # 51878
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB Order ID #P4879**

A. Number of Samples and Date of Receipt

20 Soil samples were delivered to the laboratory intact on 11/15/2024, 11/16/2024.

B. Parameters

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

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

C. Cooler Temp

Indicator Bottle: Presence/Absence

Cooler: 2.5°C, 2.3°C, 2.4°C, 2.1°C, 2.0°C

D. 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.

E. Calculation:

Calculation for ICP-AES Soil Sample:

Conversion of Results from mg/L or ppm to mg/kg (Dry Weight Basis):



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Mountainside, NJ 07092**

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

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 E29X1 For Aluminum:

If C = 18.14556 ppm

V_f = 100 ml

W = 1.39g

S = 0.84(84/100)

DF = 1

$$\begin{aligned} \text{Concentration (mg/kg)} &= 18.14556 \times \frac{100}{1.39 \times 0.84} \times 1 \\ &= 1554.09 \text{ mg/kg} \\ &= 1600 \text{ mg/kg (Reported Result with Signification)} \end{aligned}$$

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 E29X1 For Arsenic:

If C = 4.38 ppb
Vf = 500 ml
W = 1.30 g
S = 0.84(84/100)
DF = 1

$$\begin{aligned}\text{Concentration (mg/kg)} &= 4.38 \times \frac{500}{1.30 \times 0.84} \times 1 / 1000 \\ &= 2.0054 \text{ mg/kg} \\ &= 2.0 \text{ mg/kg (Reported Result with Signification)}\end{aligned}$$

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 E29X1:

If C = 0.3069 ppb
Vf = 100 mL
W = 0.50g
S = 0.84(84/100)
DF = 21

$$\begin{aligned}\text{Concentration (mg/kg)} &= 0.3069 \times \frac{100}{0.50 \times 0.84} \times 1 / 1000 \\ &= 0.0730 \text{ mg/kg} \\ &= 0.073 \text{ mg/kg (Reported Result with Signification)}\end{aligned}$$



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F. 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 except for Chromium. Serial Dilution did meet requirements.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

Internal Standard Association for ICP-MS analysis.

Target Analyte	Associated Internal Standard
Antimony	159Tb
Arsenic	89Y
Barium	159Tb
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Cobalt	45Sc
Copper	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Selenium	89Y
Silver	159Tb
Thallium	209Bi



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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: jignesh
Date: 11/19/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 14:40
In Date: 11/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 07:47
Out Date: 11/19/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLIDS-OVEN

QC:LB133493

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
P4879-01	E29X1	1	1.15	8.46	9.61	8.26	84.0	
P4879-02	E29X2	2	1.12	8.57	9.69	8.28	83.5	
P4879-03	E29X3	3	1.15	8.82	9.97	8.64	84.9	
P4879-04	E29X4	4	1.12	8.85	9.97	8.82	87.0	
P4879-05	E29X5	5	1.16	8.80	9.96	7.75	74.9	
P4879-06	E29X5D	6	1.16	8.80	9.96	7.75	74.9	
P4879-07	E29X5S	7	1.16	8.80	9.96	7.75	74.9	
P4879-08	E29X6	8	1.16	8.75	9.91	8.31	81.7	
P4879-09	E29X7	9	1.14	8.83	9.97	9.34	92.9	
P4879-10	E29X8	10	1.12	8.57	9.69	8.26	83.3	
P4879-11	E29X9	11	1.12	8.85	9.97	5.62	50.8	
P4879-12	E29Y0	12	1.15	8.78	9.93	9.03	89.7	
P4879-13	E29Y1	13	1.19	8.52	9.71	7.67	76.1	
P4879-14	E29Y2	14	1.16	8.81	9.97	9.00	89.0	
P4879-15	E29Y3	15	1.12	8.82	9.94	8.97	89.0	
P4879-16	E29Y4	16	1.15	8.82	9.97	8.51	83.4	
P4879-17	E29Y5	17	1.19	8.65	9.84	8.45	83.9	
P4879-18	E29Y9	18	1.16	8.55	9.71	8.28	83.3	
P4879-19	E29Z0	19	1.13	8.79	9.92	8.37	82.4	
P4879-20	E29Y6	20	1.14	8.84	9.98	8.94	88.2	
P4879-21	E29Y7	21	1.19	8.64	9.83	7.91	77.8	
P4879-22	E2A11	22	1.13	8.84	9.97	8.14	79.3	

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

WORKLIST(Hardcopy Internal Chain)

1333493

WorkList Name : %1-p4879

WorkList ID : 185539

Department : Wet-Chemistry

Date : 11-18-2024 14:14:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4879-01	E29X1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-02	E29X2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-03	E29X3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-04	E29X4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-05	E29X5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-06	E29X5D	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-07	E29X5S	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-08	E29X6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-09	E29X7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-10	E29X8	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-11	E29X9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-12	E29Y0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-13	E29Y1	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/14/2024	Chemtech -SO
P4879-14	E29Y2	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO
P4879-15	E29Y3	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO
P4879-16	E29Y4	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO
P4879-17	E29Y5	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO
P4879-18	E29Y9	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO
P4879-19	E29Z0	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO
P4879-20	E29Y6	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO
P4879-21	E29Y7	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO

Date/Time 11-18-24 14:12:0

Raw Sample Received by: JH WOC

Raw Sample Relinquished by: JTCM

Date/Time 11-18-24

Raw Sample Received by: JTCM

Raw Sample Relinquished by: JH WOC

WORKLIST(Hardcopy Internal Chain)

JB 133493

WorkList Name : %1-p4879

WorkList ID : 185539

Department : Wet-Chemistry

Date : 11-18-2024 14:14:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4879-22	E2A11	Solid	Percent Solids	Cool 4 deg C	USEP01	Q31	11/15/2024	Chemtech -SO

Date/Time 11-18-24 14:10
 Raw Sample Received by: SD WOI
 Raw Sample Relinquished by: STCrm

Date/Time 11-18-24 14:45
 Raw Sample Received by: STCrm
 Raw Sample Relinquished by: SD aolc