284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

METALS

PROJECT NAME : ARC SAYREVILLE POSTEX 2024

ARCADIS

50 Millstone Road

Suite 220

East Windsor, NJ - 08520

Phone No: 267-685-1822

ORDER ID : P4227

ATTENTION : Kaiti Liao

Laboratory Certification ID # 20012

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : P4227

Project ID : ARC Sayreville PostEx 2024

Client : Arcadis

Lab Sample Number	Client Sample Number
P4227-01	PMW-1(20240925)
P4227-02	PMW-2(20240925)
P4227-03	PMW-9S(20240926)
P4227-04	PMW-9D(20240926)
P4227-05	PMW-8S(20240926)
P4227-06	PMW-8D(20240926)
P4227-07	DUP(20240926)
P4227-08	MW-2(MCUA)(20240926)
P4227-09	PMW-5(20240926)
P4227-10	MW-1(MCUA)(20240926)
P4227-11	PMW-3(20240927)
P4227-12	PMW-4(20240927)
P4227-13	PMW-6(20240927)
P4227-14	PMW-7S(20240927)
P4227-15	PMW-7D(20240927)
P4227-16	PMW-7D(20240927)MS
P4227-17	PMW-7D(20240927)MSD
P4227-18	PMW-10(20240927)
P4227-19	FB(20240925)
P4227-20	FB(20240926)
P4227-21	FB(20240927)
P4227-22	EB(20240927)
P4227-23	TB(20240924)

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 manager or his designee, as verified by the following signature.

Signature : _____

CHEMTECH
CHAIN OF CUSTODY RECORD

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(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4227
QUOTE NO.
COC Number 2041906

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Arcadis US Inc
ADDRESS: 50 millstone Rd Bldg 200 Suite 220
CITY East windsor STATE NJ ZIP 08520
ATTENTION: Kaiti Liao
PHONE 267-567-2900 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ARC and HRDP
PROJECT NO. 30184323.00001 LOCATION: Sayreville, NJ
PROJECT MANAGER: Kaiti Liao
e-mail: Kaiti.liao@arcadis.com
PHONE: 267-567-2900 FAX:

CLIENT BILLING INFORMATION

BILL TO: Arcadis US Inc PO#:
ADDRESS: 50 millstone Rd Bldg 200 Suite 220
CITY East windsor STATE: NJ ZIP 08520
ATTENTION: Kaiti Liao PHONE: 267-567-2900

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☑ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 GW VOCs CLP SOW SFAM 01.1
2 SVOCs CLP SOW SFAM 01.1
3 Metals CLP SOW SFAM 01.1 (using ICP-MS)
4
5
6
7
8
9

PRESERVATIVES

A
E
B

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

#	CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9
1.		PMW-1(20240925)	GW		G	9/25/24	1335	4	X	X	X						
2.		PMW-2(20240925)	GW		G	9/25/24	1350	4	X	X	X						
3.		PMW-9S(20240926)	GW		G	9/26/24	0920	4	X	X	X						
4.		PMW-9D(20240926)	GW		G	9/26/24	1055	4	X	X	X						
5.		PMW-8S(20240926)	GW		G	9/26/24	1155	4	X	X	X						
6.		PMW-8D(20240926)	GW		G	9/26/24	0955	4	X	X	X						
7.		DUP(20240926)	GW		G	9/26/24	—	4	X	X	X						
8.		PMW-2(MCUA)(20240926)	GW		G	9/26/24	1205	4	X	X	X						
9.		PMW-5(20240926)	GW		G	9/26/24	1435	4	X	X	X						
10.		MW-1(MCUA)(20240926)	GW		G	9/26/24	1505	4	X	X	X						

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	9/27/24 1550	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON-COMPLIANT ☐ COOLER TEMP 3.3°C
Comments: FOR VOCs CLP SOW SFAM 01.1 USE trace volatiles
FOR metals CLP SOW SFAM 01.1 USE ICP-MS

Page 1 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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CHAIN OF CUSTODY RECORD

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CHEMTECH PROJECT NO. P4227
QUOTE NO.
COC Number 2041907

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Arcadis US Inc
ADDRESS: 50 Millstone Rd Building 200 Suite 220
CITY East Windsor STATE: NJ ZIP: 08520
ATTENTION: Kaiti Liao
PHONE: 267-567-2900 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ARC and HRDD
PROJECT NO.: 30184323.00001 LOCATION: Sayreville, NJ
PROJECT MANAGER: Kaiti Liao
e-mail: kaiti.liao@arcadis.com
PHONE: 267-567-2900 FAX:

CLIENT BILLING INFORMATION

BILL TO: Arcadis US Inc PO#:
ADDRESS: 50 Millstone Rd Bldg 200 Suite 220
CITY East Windsor STATE: NJ ZIP: 08520
ATTENTION: Kaiti Liao PHONE: 267-567-2900

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☑ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 VOCs CLP SOW SFAM01.1 (Trace Volatiles)
2 SVOCs CLP SOW SFAM01.1
3 Metals CLP SOW SFAM01.1 using ICP-MS
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A (1)	E (2)	B (3)	4	5	6	7	8	9	COMMENTS
1.	PMW-3(20240927)	GW		G	9/27/24	1110	4	X	X	X							
2.	PMW-4(20240927)				9/27/24	1255	4	X	X	X							
3.	PMW-6(20240927)				9/27/24	1240	4	X	X	X							
4.	PMW-7S(20240927)				9/27/24	1030	4	X	X	X							
5.	PMW-7D(20240927)				9/27/24	1030	4	X	X	X							
6.	PMW-7D-MS(20240927)				9/27/24	1030	4	X	X	X							
7.	PMW-7D-MSD(20240927)				9/27/24	1030	4	X	X	X							
8.	PMW-10(20240927)				9/27/24	0935	4	X	X	X							
9.	FB(20240925)				9/25/24	1510	4	X	X	X							
10.	FB(20240926)				9/26/24	1530	4	X	X	X							

Preservatives: A-HCl, B-HNO3, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	9/27/24 1550	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3 °C
Comments: For VOCs CLP SOW SFAM01.1 use trace Volatiles
For metals CLP SOW SFAM01.1 use ICP-MS

Page 2 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

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CHEMTECH PROJECT NO. P4227
QUOTE NO.
COC Number 2041909

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Arcadis US Inc
ADDRESS: 50 millstone Rd Bldg 200 Suite 220
CITY East windsor STATE: NJ ZIP: 08520
ATTENTION: Kaiti Liao
PHONE: 267-567-2900 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: ARC and HRDD
PROJECT NO.: 30184323.00001 LOCATION: Sayreville, NJ
PROJECT MANAGER: Kaiti Liao
e-mail: Kaiti.liao@arcadis.com
PHONE: 267-567-2900 FAX:

CLIENT BILLING INFORMATION

BILL TO: Arcadis US Inc PO#:
ADDRESS: 50 Millstone Rd Bldg 200 Suite 220
CITY East windsor STATE: NJ ZIP: 08520
ATTENTION: Kaiti Liao PHONE: 267-567-2900

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: VOCs CLP SOW SFAM 01.1 Trace Volatiles
2: SVOC CLP SOW SFAM 01.1
3: Metals CLP SOW SFAM 01.1 (using ICP-MS)
4
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A)	2 (E)	3 (B)	4	5	6	7	8	9	COMMENTS
1.	FB(20240927)	GW		G	9/27/24	1230	4	X	X	X							
2.	EB(20240927)	"		"	9/27/24	1215	4	X	X	X							
3.	TB(20240924)	"		"		-	2	X									
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	9/27/24 1550	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2-3°C °C
Comments: For VOCs CLP SOW SFAM 01.1 use trace volatiles
For Metals CLP SOW SFAM 01.1 use ICP-MS

Page 3 of 3

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC		Page 1 of
Received By (Print Name)		Log-in Date **9/27/2024**
Received By (Signature)		
Case Number ARC Sayreville PostE	SDG No. P4227	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.	HAND DELIVERED 1
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	09/27/2024
12.Time Received	15:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	PMW-1(20240925)	,1.3		P4227-01	Intact
2	PMW-2(20240925)	,1.3		P4227-02	Intact
3	PMW-9S(20240926)	,1.3		P4227-03	Intact
4	PMW-9D(20240926)	,1.3		P4227-04	Intact
5	PMW-8S(20240926)	,1.3		P4227-05	Intact
6	PMW-8D(20240926)	,1.3		P4227-06	Intact
7	DUP(20240926)	,1.3		P4227-07	Intact
8	MW-2(MCUA)(2024(	,1.3		P4227-08	Intact
9	PMW-5(20240926)	,1.3		P4227-09	Intact
10	MW-1(MCUA)(2024(	,1.3		P4227-10	Intact
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	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page 2 of
Received By (Print Name) George Nelson	Log-in Date **9/27/2024**
Received By (Signature)	
Case Number ARC Sayreville Poste SDG No. P4227	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.	HAND DELIVERED 2
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	09/27/2024
12.Time Received	15:50

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	PMW-3(20240927)	,1.3		P4227-11	Intact
2	PMW-4(20240927)	,1.3		P4227-12	Intact
3	PMW-6(20240927)	,1.3		P4227-13	Intact
4	PMW-7S(20240927)	,1.3		P4227-14	Intact
5	PMW-7D(20240927)	,1.3		P4227-15	Intact
6	P4227-15MS	,1.3		P4227-16	Intact
7	P4227-15MSD	,1.3		P4227-17	Intact
8	PMW-10(20240927)	,1.3		P4227-18	Intact
9	FB(20240925)	,1.3		P4227-19	Intact
10	FB(20240926)	,1.3		P4227-20	Intact
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	Logbook Page No. N/A

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name : Alliance Technical Group, LLC	Page 3 of
Received By (Print Name)	Log-in Date 9/27/2024
Received By (Signature)	
Case Number ARC Sayreville Post SDG No. P4227	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.	HAND DELIVERED 3
6. Shipping Container Temperature Indicator Bottle	Present
7. Shipping Container Temperature	2.3 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	09/27/2024
12.Time Received	15:50

			Corresponding		
	EPA Sample #	Aqueous/ Water Sample pH	Sample Tag #	Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FB(20240927)	,1.3		P4227-21	Intact
2	EB(20240927)	,1.3		P4227-22	Intact
3	TB(20240924)	N/A		P4227-23	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	Logbook No. N/A
Date	Logbook Page No. N/A

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

LAB NAME	**CHEMTECH CONSULTING GROUP**
LAB CODE	**ACE**
CONTRACT NO.	**EPW14030**
CASE NO.	**ARC Sayreville PostEx** SDG NO. **P4227**
MA NO.	**30184323.0001**
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: FROM	TO	CHECK LAB	REGION
1 . SDG Cover Page	1	2	✓	
2 . Sample TR/COCs	3	5	✓	
3 . Sample Login Sheet (DC-1)	6	8	✓	
4 . CSF Inventory Sheet (DC-2)	9	12	✓	
5 . SDG Narrative	13	15	✓	
Inorganic Analysis				
ICP-AES				
6 . Inorganic Analysis Data Sheet (Form 1-IN)	NA	NA	✓	
7 . Initial and Continuing Calibration Verification (Form 2-IN)	NA	NA	✓	
8 . Blanks (Form 3-IN)	NA	NA	✓	
9 . ICP Interference Check Sample (Form 4-IN)	NA	NA	✓	
10 . Matrix Spike Sample Recovery (Form 5A-IN)	NA	NA	✓	
11 . Post-Digestion Spike Sample Recovery (Form 5B-IN)	NA	NA	✓	
12 . Duplicates (Form 6-IN)	NA	NA	✓	
13 . Laboratory Control Sample (Form 7-IN)	NA	NA	✓	
14 . ICP-AES Serial Dilutions (Form 8-IN)	NA	NA	✓	
15 . Method Detection Limits (Form 9-IN)	NA	NA	✓	

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

	PAGE NOS: FROM	TO	CHECK LAB	REGION
16. ICP-AES Interelement Correction Factors (Form 10A-IN)	NA	NA	✓	
17. ICP-AES Interelement Correction Factors (Form 10B-IN)	NA	NA	✓	
18. Analysis Log (Form 12-IN)	NA	NA	✓	
19. Initial Calibration (Form 15-IN)	NA	NA	✓	
20. Initial Calibration Summary (Form 16-IN)	NA	NA	✓	
21. ICP-AES Raw Data	NA	NA	✓	
22. ICP-AES Preparation Log Books,Preparation records, Analysis records, and PE Instructions	NA	NA	✓	
ICP-MS				
23. Inorganic Analysis Data Sheet (Form 1-IN)	16	35	✓	
24. Initial and Continuing Calibration Verification (Form 2-IN)	36	41	✓	
25. Blanks (Form 3-IN)	42	45	✓	
26. ICP Interference Check Sample (Form 4-IN)	46	47	✓	
27. Matrix Spike Sample Recovery (Form 5A-IN)	48	48	✓	
28. Post-Digestion Spike Sample Recovery (Form 5B-IN)	49	49	✓	
29. Duplicates (Form 6-IN)	50	50	✓	
30. Laboratory Control Sample (Form 7-IN)	51	51	✓	
31. ICP-MS Serial Dilutions (Form 8-IN)	52	52	✓	
32. Method Detection Limits (Form 9-IN)	53	53	✓	
33. ICP-MS Internal Standard Association (Form 11-IN)	54	55	✓	
34. Analysis Log (Form 12-IN)	56	61	✓	
35. ICP-MS Tune (Form 13-IN)	62	63	✓	
36. ICP-MS Internal Standard Relative Intensity Summary (Form 14-IN)	64	91	✓	
37. Initial Calibration (Form 15-IN)	92	97	✓	

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

	PAGE NOS: FROM	TO	CHECK LAB	REGION
38 . Initial Calibration Summary (Form 16-IN)	98	99	✓	
39 . ICP-MS Raw Data	100	1383	✓	
40 . ICP-MS Preparation Log Books,Preparation records, Analysis records, and PE Instructions	1384	1544	✓	
Mercury				
41 . Inorganic Analysis Data Sheet (Form 1-IN)	1545	1564	✓	
42 . Initial and Continuing Calibration Verification (Form 2-IN)	1565	1566	✓	
43 . Blanks (Form 3-IN)	1567	1567	✓	
44 . Matrix Spike Sample Recovery (Form 5A-IN)	1568	1568	✓	
45 . Duplicates (Form 6-IN)	1569	1569	✓	
46 . Method Detection Limits (Form 9-IN)	1570	1570	✓	
47 . Analysis Log (Form 12-IN)	1571	1571	✓	
48 . Initial Calibration (Form 15-IN)	1572	1573	✓	
49 . Initial Calibration Summary (Form 16-IN)	1574	1574	✓	
50 . Mercury Raw Data	1575	1576	✓	
51 . Mercury Preparation Log Books,Preparation records, Analysis records, and PE Instructions	1577	1608	✓	
Cyanide				
52 . Inorganic Analysis Data Sheet (Form 1-IN)	NA	NA	✓	
53 . Initial and Continuing Calibration Verification (Form 2-IN)	NA	NA	✓	
54 . Blanks (Form 3-IN)	NA	NA	✓	
55 . Matrix Spike Sample Recovery (Form 5A-IN)	NA	NA	✓	
56 . Post-Distillation Spike Sample Recovery (Form 5B-IN)	NA	NA	✓	
57 . Duplicates (Form 6-IN)	NA	NA	✓	
58 . Method Detection Limits (Form 9-IN)	NA	NA	✓	

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

	PAGE NOS: FROM	TO	CHECK LAB	REGION
59. Analysis Log (Form 12-IN)	NA	NA	✓	
60. Initial Calibration (Form 15-IN)	NA	NA	✓	
61. Initial Calibration Summary (Form 16-IN)	NA	NA	✓	
62. Cyanide Raw Data	NA	NA	✓	
63. Cyanide Preparation Log Books,Preparation records, Analysis records, and PE Instructions	NA	NA	✓	
Additional				
64. Percent Solids Determination Log	NA	NA	✓	
65. EPA Shipping/Receiving Documents	NA	NA	✓	
Airbill (No. of Shipments 0)	NA	NA	✓	
Sample Tags	NA	NA	✓	
Sample Log-In Sheet (Lab)	1609	1612	✓	
66. Misc. Shipping/Receiving Records(list all individual records)				
Communication Logs	NA	NA	✓	
67. Internal Lab Sample Transfer Records &				
Tracking Sheets (describe or list)	1613	1616	✓	
68. Other Records (describe or list) Communication Logs	NA	NA	✓	

69. Comments:

Completed by:
(CLP Lab) _____ Nimisha Pandya, Document Control Officer _____
(Signature) (Print Name & Title) (Date)

Audited by:
(EPA) _____ _____ _____
(Signature) (Print Name & Title) (Date)

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SDG NARRATIVE

USEPA
SDG # P4227
CASE # ARC Sayreville PostEx 2024
CONTRACT # 68HERH20D0011
SOW# SFAM01.1
LAB NAME: Alliance Technical Group, LLC
LAB CODE: ACE
LAB ORDER ID #P4227

A. Number of Samples and Date of Receipt

20 Water samples were delivered to the laboratory intact on 09/27/2024.

B. Parameters

Test requested for Metals CLP MS = Aluminum, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Iron, Lead, Manganese, Nickel, Thallium and Hg.

C. Cooler Temp

Indicator Bottle**: Presence/**Absence
Cooler: 2.3^{o}C

D. Analytical Techniques:

All analyses were based on CLP Methodology by method SFAM01.1.

E. Calculation:

Calculation for ICP-MS Water Sample:

$$\text{Concentration or Result } (\mu g/L) = C \times \frac{Vf}{Vi} \times DF$$

Where,

C = Instrument value in ppb (The average of all replicate integrations)
Vf = Final digestion volume (mL)
Vi = Initial aliquot amount (mL) (Sample amount taken in prep)
DF = Dilution Factor

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Example Calculation For Sample PMW-1(20240925) For Lead:

If C = 0.40 ppb
Vf = 50 ml
Vi = 50 ml
DF = 1

Concentration or Result (µg/L) = $0.40 \times \frac{50}{50} \times 1$

= 0.40 µg/L

= 0.40 µg/L (Reported Result with Signification)

Calculation for Hg Water Sample:

Concentration or Result (µg/L) = C x DF

Where,
C = Instrument response in µg/L from the calibration curve.
DF = Dilution Factor

Example Calculation For Sample PMW-1(20240925):

If C = 1.3197 ppb
DF = 1

Concentration or Result (µg/L) = 1.3197 x 1

= 1.3197 µg/L

= 1.3 µg/L (Reported Result with Signification)

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. Serial Dilution did meet requirements.

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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
Aluminum	45Sc
Antimony	159Tb
Arsenic	89Y
Beryllium	6Li
Cadmium	159Tb
Chromium	45Sc
Iron	45Sc
Lead	209Bi
Manganese	45Sc
Nickel	45Sc
Thallium	209Bi

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