

LAB CHRONICLE

OrderID:	Q3688	OrderDate:	11/19/2025 4:37:47 PM
Client:	WSP USA Inc.	Project:	Sharkey Landfill Site FYR Reuse Morris County NJ
Contact:	Tricia Landes	Location:	D41,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3688-01	M-31S	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/19/25	12/05/25 12/04/25	12/05/25 12/08/25	11/19/25
Q3688-04	RBGW-20251119	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/19/25	12/05/25 12/04/25	12/05/25 12/08/25	11/19/25
Q3688-06	M-32I	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/19/25	12/05/25 12/04/25	12/05/25 12/08/25	11/19/25
Q3688-09	M-31I	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/20/25	12/05/25 12/04/25	12/05/25 12/08/25	11/20/25
Q3688-10	M-32S	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/20/25	12/05/25 12/04/25	12/05/25 12/08/25	11/20/25
Q3688-11	RBGW-20251120	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/20/25	12/05/25 12/04/25	12/05/25 12/08/25	11/20/25
Q3688-12	M-30S	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/20/25	12/05/25 12/04/25	12/05/25 12/08/25	11/20/25
Q3688-13	M-30I	Water	Mercury Metals CLP12	SFAM_HG SFAM_AES	11/20/25	12/05/25 12/04/25	12/05/25 12/08/25	11/20/25
Q3688-15	FDGW-20251120	Water			11/20/25			11/20/25

LAB CHRONICLE

Q3688-16	WS-14	Water	Mercury	SFAM_HG	12/05/25	12/05/25	11/21/25
			Metals CLP12	SFAM_AES	12/04/25	12/08/25	
Q3688-17	M-29	Water	Mercury	SFAM_HG	12/05/25	12/05/25	11/21/25
			Metals CLP12	SFAM_AES	12/04/25	12/08/25	
Q3688-18	RBGW-20251121	Water	Mercury	SFAM_HG	12/05/25	12/05/25	11/21/25
			Metals CLP12	SFAM_AES	12/04/25	12/08/25	
Q3688-19	M-28I	Water	Mercury	SFAM_HG	12/05/25	12/05/25	11/21/25
			Metals CLP12	SFAM_AES	12/04/25	12/08/25	
Q3688-20	WS-1	Water	Mercury	SFAM_HG	12/05/25	12/05/25	11/21/25
			Metals CLP12	SFAM_AES	12/04/25	12/08/25	
Q3688-22	RBGW-20251124	Water	Mercury	SFAM_HG	12/05/25	12/05/25	11/24/25
			Metals CLP12	SFAM_AES	12/04/25	12/08/25	
Q3688-23	M-28S	Water	Mercury	SFAM_HG	12/05/25	12/05/25	11/24/25
			Metals CLP12	SFAM_AES	12/04/25	12/08/25	



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Hit Summary Sheet SW-846

SDG No.:	Q3688	Order ID:	Q3688
Client:	WSP USA Inc.	Project ID:	Sharkey Landfill Site FYR Reuse Morris C

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : M-31S								
Q3688-01	M-31S	Water	Barium	52.0	J	3.80	200	ug/L
Q3688-01	M-31S	Water	Chromium	0.67	J	0.57	10.0	ug/L
Client ID : M-32I								
Q3688-06	M-32I	Water	Arsenic	12.0		2.90	10.0	ug/L
Q3688-06	M-32I	Water	Barium	100	J	3.80	200	ug/L
Q3688-06	M-32I	Water	Chromium	7.00	J	0.57	10.0	ug/L
Q3688-06	M-32I	Water	Lead	2.40	J	2.30	10.0	ug/L
Client ID : M-31I								
Q3688-09	M-31I	Water	Arsenic	7.70	J	2.90	10.0	ug/L
Q3688-09	M-31I	Water	Barium	64.0	J	3.80	200	ug/L
Q3688-09	M-31I	Water	Chromium	8.20	J	0.57	10.0	ug/L
Client ID : M-32S								
Q3688-10	M-32S	Water	Barium	100	J	3.80	200	ug/L
Q3688-10	M-32S	Water	Chromium	7.80	J	0.57	10.0	ug/L
Client ID : M-30S								
Q3688-12	M-30S	Water	Arsenic	4.20	J	2.90	10.0	ug/L
Q3688-12	M-30S	Water	Barium	300		3.80	200	ug/L
Q3688-12	M-30S	Water	Chromium	10.0		0.57	10.0	ug/L
Q3688-12	M-30S	Water	Lead	5.10	J	2.30	10.0	ug/L
Q3688-12	M-30S	Water	Silver	1.60	J	0.27	10.0	ug/L
Client ID : M-30I								
Q3688-13	M-30I	Water	Barium	43.0	J	3.80	200	ug/L
Q3688-13	M-30I	Water	Chromium	1.80	J	0.57	10.0	ug/L
Client ID : FDGW-20251120								
Q3688-15	FDGW-20251120	Water	Barium	300		3.80	200	ug/L
Q3688-15	FDGW-20251120	Water	Cadmium	0.30	J	0.23	5.00	ug/L
Q3688-15	FDGW-20251120	Water	Chromium	5.30	J	0.57	10.0	ug/L
Q3688-15	FDGW-20251120	Water	Lead	5.70	J	2.30	10.0	ug/L
Q3688-15	FDGW-20251120	Water	Silver	2.70	J	0.27	10.0	ug/L
Client ID : WS-14								
Q3688-16	WS-14	Water	Barium	94.0	J	3.80	200	ug/L
Q3688-16	WS-14	Water	Chromium	33.0		0.57	10.0	ug/L
Q3688-16	WS-14	Water	Silver	0.35	J	0.27	10.0	ug/L

Hit Summary Sheet
SW-846

SDG No.: Q3688

Order ID: Q3688

Client: WSP USA Inc.

Project ID: Sharkey Landfill Site FYR Reuse Morris C

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : M-29								
Q3688-17	M-29	Water	Arsenic	3.80	J	2.90	10.0	ug/L
Q3688-17	M-29	Water	Barium	84.0	J	3.80	200	ug/L
Q3688-17	M-29	Water	Chromium	13.0		0.57	10.0	ug/L
Q3688-17	M-29	Water	Lead	6.00	J	2.30	10.0	ug/L
Client ID : M-28I								
Q3688-19	M-28I	Water	Barium	88.0	J	3.80	200	ug/L
Q3688-19	M-28I	Water	Chromium	12.0		0.57	10.0	ug/L
Q3688-19	M-28I	Water	Lead	2.90	J	2.30	10.0	ug/L
Client ID : WS-1								
Q3688-20	WS-1	Water	Barium	320		3.80	200	ug/L
Q3688-20	WS-1	Water	Chromium	36.0		0.57	10.0	ug/L
Client ID : M-28S								
Q3688-23	M-28S	Water	Arsenic	6.10	J	2.90	10.0	ug/L
Q3688-23	M-28S	Water	Barium	40.0	J	3.80	200	ug/L
Q3688-23	M-28S	Water	Chromium	4.10	J	0.57	10.0	ug/L



SAMPLE DATA

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-31S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-01
% Solids: Date Received: 11/19/2025
Analytical Method: ICP_AES
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1153
7440-39-3	Barium	52	J	12/08/2025	1153
7440-43-9	Cadmium	5.0	U	12/08/2025	1153
7440-47-3	Chromium	0.67	J	12/08/2025	1153
7439-92-1	Lead	10	U	12/08/2025	1153
7782-49-2	Selenium	35	U	12/08/2025	1153
7440-22-4	Silver	10	U	12/08/2025	1153

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-31S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-01
% Solids: Date Received: 11/19/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1146

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

RBGW-20251119

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-04
% Solids: Date Received: 11/19/2025
Analytical Method: ICP_AES
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1212
7440-39-3	Barium	200	U	12/08/2025	1212
7440-43-9	Cadmium	5.0	U	12/08/2025	1212
7440-47-3	Chromium	10	U	12/08/2025	1212
7439-92-1	Lead	10	U	12/08/2025	1212
7782-49-2	Selenium	35	U	12/08/2025	1212
7440-22-4	Silver	10	U	12/08/2025	1212

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

RBGW-20251119

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688Matrix: Water Lab Sample ID: Q3688-04% Solids: Date Received: 11/19/2025Analytical Method: HgConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1153

NOTE: Hardness (total) is reported in mg/L Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-32I

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-06
% Solids: Date Received: 11/19/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	12		12/08/2025	1216
7440-39-3	Barium	100	J	12/08/2025	1216
7440-43-9	Cadmium	5.0	U	12/08/2025	1216
7440-47-3	Chromium	7.0	J	12/08/2025	1216
7439-92-1	Lead	2.4	J	12/08/2025	1216
7782-49-2	Selenium	35	U	12/08/2025	1216
7440-22-4	Silver	10	U	12/08/2025	1216

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-32I

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-06
% Solids: Date Received: 11/19/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1155

NOTE: Hardness (total) is reported in mg/L Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-31I

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-09
% Solids: Date Received: 11/20/2025
Analytical Method: ICP_AES
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	7.7	J	12/08/2025	1221
7440-39-3	Barium	64	J	12/08/2025	1221
7440-43-9	Cadmium	5.0	U	12/08/2025	1221
7440-47-3	Chromium	8.2	J	12/08/2025	1221
7439-92-1	Lead	10	U	12/08/2025	1221
7782-49-2	Selenium	35	U	12/08/2025	1221
7440-22-4	Silver	10	U	12/08/2025	1221

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-31I

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-09
% Solids: Date Received: 11/20/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1157

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-32S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-10
% Solids: Date Received: 11/20/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1242
7440-39-3	Barium	100	J	12/08/2025	1242
7440-43-9	Cadmium	5.0	U	12/08/2025	1242
7440-47-3	Chromium	7.8	J	12/08/2025	1242
7439-92-1	Lead	10	U	12/08/2025	1242
7782-49-2	Selenium	35	U	12/08/2025	1242
7440-22-4	Silver	10	U	12/08/2025	1242

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-32S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-10
% Solids: Date Received: 11/20/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1200

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

RBGW-20251120

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-11
% Solids: Date Received: 11/20/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1247
7440-39-3	Barium	200	U	12/08/2025	1247
7440-43-9	Cadmium	5.0	U	12/08/2025	1247
7440-47-3	Chromium	10	U	12/08/2025	1247
7439-92-1	Lead	10	U	12/08/2025	1247
7782-49-2	Selenium	35	U	12/08/2025	1247
7440-22-4	Silver	10	U	12/08/2025	1247

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

RBGW-20251120

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-11
% Solids: Date Received: 11/20/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1202

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-30S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-12
% Solids: Date Received: 11/20/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	4.2	J	12/08/2025	1251
7440-39-3	Barium	300		12/08/2025	1251
7440-43-9	Cadmium	5.0	U	12/08/2025	1251
7440-47-3	Chromium	10		12/08/2025	1251
7439-92-1	Lead	5.1	J	12/08/2025	1251
7782-49-2	Selenium	35	U	12/08/2025	1251
7440-22-4	Silver	1.6	J	12/08/2025	1251

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-30S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-12
% Solids: Date Received: 11/20/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1204

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-30I

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-13
% Solids: Date Received: 11/20/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1256
7440-39-3	Barium	43	J	12/08/2025	1256
7440-43-9	Cadmium	5.0	U	12/08/2025	1256
7440-47-3	Chromium	1.8	J	12/08/2025	1256
7439-92-1	Lead	10	U	12/08/2025	1256
7782-49-2	Selenium	35	U	12/08/2025	1256
7440-22-4	Silver	10	U	12/08/2025	1256

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-30I

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-13
% Solids: Date Received: 11/20/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1206

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FDGW-20251120

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-15
% Solids: Date Received: 11/20/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1300
7440-39-3	Barium	300		12/08/2025	1300
7440-43-9	Cadmium	0.30	J	12/08/2025	1300
7440-47-3	Chromium	5.3	J	12/08/2025	1300
7439-92-1	Lead	5.7	J	12/08/2025	1300
7782-49-2	Selenium	35	U	12/08/2025	1300
7440-22-4	Silver	2.7	J	12/08/2025	1300

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

FDGW-20251120

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688Matrix: Water Lab Sample ID: Q3688-15% Solids: Date Received: 11/20/2025Analytical Method: HgConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1209

NOTE: Hardness (total) is reported in mg/L Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

WS-14

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688

Matrix: Water Lab Sample ID: Q3688-16

% Solids: Date Received: 11/21/2025

Analytical Method: ICP_AES

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1305
7440-39-3	Barium	94	J	12/08/2025	1305
7440-43-9	Cadmium	5.0	U	12/08/2025	1305
7440-47-3	Chromium	33		12/08/2025	1305
7439-92-1	Lead	10	U	12/08/2025	1305
7782-49-2	Selenium	35	U	12/08/2025	1305
7440-22-4	Silver	0.35	J	12/08/2025	1305

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

WS-14

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-16
% Solids: Date Received: 11/21/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1211

NOTE: Hardness (total) is reported in mg/L Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-29

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-17
% Solids: Date Received: 11/21/2025
Analytical Method: ICP_AES
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	3.8	J	12/08/2025	1310
7440-39-3	Barium	84	J	12/08/2025	1310
7440-43-9	Cadmium	5.0	U	12/08/2025	1310
7440-47-3	Chromium	13		12/08/2025	1310
7439-92-1	Lead	6.0	J	12/08/2025	1310
7782-49-2	Selenium	35	U	12/08/2025	1310
7440-22-4	Silver	10	U	12/08/2025	1310

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-29

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-17
% Solids: Date Received: 11/21/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1213

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

RBGW-20251121

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-18
% Solids: Date Received: 11/21/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1323
7440-39-3	Barium	200	U	12/08/2025	1323
7440-43-9	Cadmium	5.0	U	12/08/2025	1323
7440-47-3	Chromium	10	U	12/08/2025	1323
7439-92-1	Lead	10	U	12/08/2025	1323
7782-49-2	Selenium	35	U	12/08/2025	1323
7440-22-4	Silver	10	U	12/08/2025	1323

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

RBGW-20251121

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688Matrix: Water Lab Sample ID: Q3688-18% Solids: Date Received: 11/21/2025Analytical Method: HgConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1216

NOTE: Hardness (total) is reported in mg/L Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-28I

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688

Matrix: Water Lab Sample ID: Q3688-19

% Solids: Date Received: 11/21/2025

Analytical Method: ICP_AES

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1328
7440-39-3	Barium	88	J	12/08/2025	1328
7440-43-9	Cadmium	5.0	U	12/08/2025	1328
7440-47-3	Chromium	12		12/08/2025	1328
7439-92-1	Lead	2.9	J	12/08/2025	1328
7782-49-2	Selenium	35	U	12/08/2025	1328
7440-22-4	Silver	10	U	12/08/2025	1328

NOTE: Hardness (total) is reported in mg/L

Comments:

EPA SAMPLE NO.

M-28I

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEETLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688Matrix: Water Lab Sample ID: Q3688-19% Solids: Date Received: 11/21/2025Analytical Method: HgConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1218

NOTE: Hardness (total) is reported in mg/L Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

WS-1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-20
% Solids: Date Received: 11/21/2025
Analytical Method: ICP_AES
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1333
7440-39-3	Barium	320		12/08/2025	1333
7440-43-9	Cadmium	5.0	U	12/08/2025	1333
7440-47-3	Chromium	36		12/08/2025	1333
7439-92-1	Lead	10	U	12/08/2025	1333
7782-49-2	Selenium	35	U	12/08/2025	1333
7440-22-4	Silver	10	U	12/08/2025	1333

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

WS-1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688

Matrix: Water Lab Sample ID: Q3688-20

% Solids: Date Received: 11/21/2025

Analytical Method: Hg

Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): $\mu\text{g/L}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1220

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

RBGW-20251124

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-22
% Solids: Date Received: 11/24/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	10	U	12/08/2025	1337
7440-39-3	Barium	200	U	12/08/2025	1337
7440-43-9	Cadmium	5.0	U	12/08/2025	1337
7440-47-3	Chromium	10	U	12/08/2025	1337
7439-92-1	Lead	10	U	12/08/2025	1337
7782-49-2	Selenium	35	U	12/08/2025	1337
7440-22-4	Silver	10	U	12/08/2025	1337

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

RBGW-20251124

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-22
% Solids: Date Received: 11/24/2025
Analytical Method: Hg
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1222

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-28S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688
Matrix: Water Lab Sample ID: Q3688-23
% Solids: Date Received: 11/24/2025
Analytical Method: ICP_AES
Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7440-38-2	Arsenic	6.1	J	12/08/2025	1342
7440-39-3	Barium	40	J	12/08/2025	1342
7440-43-9	Cadmium	5.0	U	12/08/2025	1342
7440-47-3	Chromium	4.1	J	12/08/2025	1342
7439-92-1	Lead	10	U	12/08/2025	1342
7782-49-2	Selenium	35	U	12/08/2025	1342
7440-22-4	Silver	10	U	12/08/2025	1342

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

M-28S

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landfi MA No. : SDG No.: Q3688Matrix: Water Lab Sample ID: Q3688-23% Solids: Date Received: 11/24/2025Analytical Method: HgConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.20	U	12/05/2025	1225

NOTE: Hardness (total) is reported in mg/L Comments:



METAL CALIBRATION DATA

FORM 2 - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landf MA No. : SDG No.: Q3688Initial Calibration Verification Source : Continuing Calibration Verification Source : Run Batch: LB138160 Analytical Method: ICP-AESConcentration Units: $\mu\text{g/L}$

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Arsenic	4000	3900	98	0	5000	5200	104	0	5300	105	0
Barium	8000	8800	110	1	10000	10000	104	0	11000	106	1
Cadmium	2000	2000	102	1	2500	2600	103	1	2600	102	0
Chromium	800	850	106	1	15500	16000	103	0	16000	102	0
Lead	4000	3800	94	0	25000	26000	102	0	26000	102	0
Selenium	4000	4100	102	1	5000	5300	106	1	5400	107	0
Silver	1000	1100	107	1	1250	1300	104	0	1300	102	0

FORM 2 - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landf MA No. : SDG No.: Q3688Initial Calibration Verification Source : Continuing Calibration Verification Source : Run Batch: LB138160 Analytical Method: ICP-AESConcentration Units: $\mu\text{g/L}$

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID:		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Arsenic					5000	5200	105	1			
Barium					10000	11000	107	0			
Cadmium					2500	2500	101	1			
Chromium					15500	15000	100	0			
Lead					25000	25000	100	0			
Selenium					5000	5400	107	1			
Silver					1250	1300	102	0			

FORM 2 - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landf MA No. : SDG No.: Q3688
Initial Calibration Verification Source : MP88222
Continuing Calibration Verification Source : MP88224
Run Batch: LB138122 Analytical Method: CVAA
Concentration Units: µg/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV069				ID: CCV070		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	3.8	96		5.0	5.1	103		5.0	100	

FORM 3 - IN
BLANKS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: Sharkey Land MA No. : SDG No.: Q3688
 Preparation Blank Matrix : Water
 Preparation Blank Concentration Units (µg/L, mg/L, mg/kg dry weight, or µg): ug/L
 Analytical Method: ICP-AES Preparation Batch: PB170814
 Run Batch: LB138160 Preparation Method: 200.7

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank/Leachate Extraction Blank	
	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBW814	Q
Arsenic	10.0	U	10.0	U	10.0	U	-3.0	J	-3.8	J
Barium	200	U	200	U	200	U	200	U	200	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10.0	U	0.68	J	10.0	U	0.81	J	10.0	U
Lead	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	35.0	U
Silver	2.5	J	10.0	U	10.0	U	10.0	U	10.0	U

FORM 3 - IN
BLANKS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: Sharkey Land MA No. : SDG No.: Q3688
 Preparation Blank Matrix : Water
 Preparation Blank Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, or μg): $\mu\text{g/L}$
 Analytical Method: CVAA Preparation Batch: PB170832
 Run Batch: LB138122 Preparation Method: 7470A

Analyte	Initial Calibration Blank ($\mu\text{g/L}$)		Continuing Calibration Blank ($\mu\text{g/L}$)						Preparation Blank/Leachate Extraction Blank	
	ID: ICB001	Q	ID: CCB069	Q	ID: CCB070	Q	ID:	Q	ID: PBW832	Q
Mercury	0.2	U	0.2	U	0.2	U			0.2	U

FORM 4 - IN
ICP INTERFERENCE CHECK SAMPLE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: Sharkey Lar MA No. : SDG No.: Q3688
 Analytical Method: ICP-AES ICSA Source: EPA-1211
 Instrument ID: P4 ICSB Source: EPA-0710
 Run Batch: LB138160
 Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	210000	84	220000	90
Antimony	0	618	11		600	97
Arsenic	0	104	5.4		91	87
Barium	6	537	7.2	119	520	96
Beryllium	0	495	0.47		530	106
Cadmium	1	972	0.82	82	860	89
Calcium	245000	235000	230000	93	240000	101
Chromium	52	542	61	118	610	113
Cobalt	0	476	3.1		520	109
Copper	2	511	-3.5	-175	510	100
Iron	101000	99300	92000	91	97000	97
Lead	0	49	2.0		51	104
Magnesium	255000	248000	220000	87	230000	93
Manganese	7	507	19	270	530	105
Nickel	2	954	8.5	423	1000	109
Potassium	0	0	160		-140	
Selenium	0	46	27		67	147
Silver	0	201	-8.1		170	85
Sodium	0	0	66		-740	
Thallium	0	108	6.0		87	81
Vanadium	0	491	-7.8		500	101
Zinc	0	952	-0.28		1000	107



METAL QC DATA

M-31SS

FORM 5A - IN

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Land MA No. : SDG No.: Q3688Matrix : Water Analytical Method: ICP-AES% Solids: Concentration Units (µg/L, mg/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) Q	Sample Result (SR) Q	Spike Added (SA)	%R	Q
Arsenic	75 - 125	32	10.0 U	40.0	79	
Barium	75 - 125	1900	52 J	2000	90	
Cadmium	75 - 125	43	5.0 U	50.0	86	
Chromium	75 - 125	220	0.67 J	200	108	
Lead	75 - 125	19	10.0 U	20.0	96	
Selenium	75 - 125	83	35.0 U	100	83	
Silver	75 - 125	48	10.0 U	50.0	96	

EPA SAMPLE NO.

M-31SS

FORM 5A - IN

MATRIX SPIKE SAMPLE RECOVERY

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Land MA No. : SDG No.: Q3688Matrix : Water Analytical Method: CVAA% Solids: Concentration Units ($\mu\text{g/L}$, mg/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) Q	Sample Result (SR) Q	Spike Added (SA)	%R	Q
Mercury	75 - 125	1.1	0.2	1.0	110	

EPA SAMPLE NO.

FORM 5B - IN

POST-DIGESTION/DISTILLATION SPIKE
SAMPLE RECOVERY

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ MA No. : _____ SDG No.: _____

Matrix : _____ Analytical Method: _____

% Solids: _____

Concentration Units ($\mu\text{g/L}$, mg/L or mg/kg dry weight): _____

Analyte	Control Limit %R	Spiked Sample Result (SSR)		Sample Result (SR)		Spike Added (SA)	%R	Q
			Q		Q			

FORM 5B - IN

FORM 6 - IN
DUPLICATESLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: Sharkey Landf MA No. : SDG No.: Q3688Matrix : Water Analytical Method: ICP-AES% Solids: Concentration Units ($\mu\text{g/L}$, mg/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Arsenic		10.0	U	10.0	U		
Barium		52	J	52	J		
Cadmium		5.0	U	5.0	U		
Chromium		0.67	J	1.6	J		
Lead		10.0	U	10.0	U		
Selenium		35.0	U	35.0	U		
Silver		10.0	U	10.0	U		

FORM 6 - IN
DUPLICATES

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landf MA No. : SDG No.: Q3688
Matrix : Water Analytical Method: CVAA
% Solids:
Concentration Units ($\mu\text{g/L}$, mg/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury		0.2	U	0.2	U		

LABORATORY CONTROL SAMPLE

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Landfill MALNOS: SDG No.: Q3688
Matrix : Water Preparation Method: 200.7
Analytical Method: ICP-AES Preparation Batch: PB170814
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, or μg): $\mu\text{g/L}$

Analyte	True	Found	%R
Arsenic	20	18	88
Barium	400	400	101
Cadmium	10	9.1	91
Chromium	20	22	112
Lead	20	21	102
Selenium	70	59	85
Silver	20	14	71



METAL PREPARATION & INSTRUMENT DATA

FORM 10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Land MA No.: SDG No.: Q3688
Instrument ID: P4 Date : 01/10/2025

Analyte	Wave- Length (nm)	Interelement Correction Factors For				
		Al	Ca	Fe	Mg	Ag
Arsenic	193.759	0	0	-0.000094	0	0
Barium	493.409	0	0	0	0	0
Cadmium	226.502	0	0	0.000033	0	0
Chromium	267.716	0	0	0	0	0
Lead	220.353	-0.000145	0	0.000040	0	0
Selenium	196.090	0	0	-0.00035	0	0
Silver	328.068	0	0	-0.00018	0	0

FORM 10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Land MA No.: SDG No.: Q3688
Instrument ID: P4 Date : 01/10/2025

Analyte	Wave- Length (nm)	Interelement Correction Factors For				
		As	Ba	Be	Cd	Co
Arsenic	193.759	0	0	0	0	0
Barium	493.409	0	0	0	0	0
Cadmium	226.502	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Selenium	196.090	0	0	0	0	-0.00092
Silver	328.068	0	0	0	0	0

FORM 10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Land MA No.: SDG No.: Q3688
Instrument ID: P4 Date : 01/10/2025

Analyte	Wave- Length (nm)	Interelement Correction Factors For				
		Cr	Cu	K	Mn	Mo
Arsenic	193.759	-0.00080	0	0	0	0.0013
Barium	493.409	0	0	0	0	0
Cadmium	226.502	0	0	0	0	0
Chromium	267.716	0	0	0	0.00026	0
Lead	220.353	0	0.00029	0	0	-0.0014
Selenium	196.090	0	0	0	0.00058	0
Silver	328.068	0	0	0	0	0

FORM 10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Land MA No.: SDG No.: Q3688
Instrument ID: P4 Date : 01/10/2025

Analyte	Wave- Length (nm)	Interelement Correction Factors For				
		Na	Ni	Pb	Sb	Se
Arsenic	193.759	0	0	0	0	0
Barium	493.409	0	0	0	0	0
Cadmium	226.502	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Selenium	196.090	0	0	0	0	0
Silver	328.068	0	0	0	0	0

FORM 10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Land MA No.: SDG No.: Q3688
Instrument ID: P4 Date : 01/10/2025

Analyte	Wave- Length (nm)	Interelement Correction Factors For				
		Sn	Ti	Tl	V	Zn
Arsenic	193.759	0	0	0	0	0
Barium	493.409	0	0	0	0	0
Cadmium	226.502	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Lead	220.353	0	-0.00037	0	0	0
Selenium	196.090	0	0	0	0	0
Silver	328.068	0	-0.00022	0	-0.00038	0



METAL PREPARATION & ANALYICAL SUMMARY

FORM 12-IN
ANALYSIS LOG

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: Sharkey I MA No.: _____ SDG No.: Q3688
 Instrument ID: P4 Analytical Method: ICP-AES
 Start Date: 12/08/2025 End Date: 12/08/2025
 Run Batch: LB138160

EPA Sample No.	D/F	Time	Analytes																										
			A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N			
S0	1.0	1007			X	X		X		X				X						X	X								
S01	1.0	1012			X	X		X		X				X						X	X								
S02	1.0	1016			X	X		X		X				X						X	X								
S03	1.0	1021			X	X		X		X				X						X	X								
S04	1.0	1025			X	X		X		X				X						X	X								
S05	1.0	1029			X	X		X		X				X						X	X								
S06	1.0	1034			X	X		X		X				X						X	X								
ICV001	1.0	1106			X	X		X		X				X						X	X								
ICB001	1.0	1121			X	X		X		X				X						X	X								
ICSA001	1.0	1126	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ICSAB001	1.0	1140	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCV001	1.0	1144			X	X		X		X				X						X	X								
CCB001	1.0	1149			X	X		X		X				X						X	X								
M-31S	1.0	1153			X	X		X		X				X						X	X								
M-31SL	5.0	1158																											
M-31SD	1.0	1207			X	X		X		X				X						X	X								
RBGW-20251	1.0	1212			X	X		X		X				X						X	X								
M-32I	1.0	1216			X	X		X		X				X						X	X								
M-31I	1.0	1221			X	X		X		X				X						X	X								
M-31SS	1.0	1238			X	X		X		X				X						X	X								
M-32S	1.0	1242			X	X		X		X				X						X	X								
RBGW-20251	1.0	1247			X	X		X		X				X						X	X								
M-30S	1.0	1251			X	X		X		X				X						X	X								
M-30I	1.0	1256			X	X		X		X				X						X	X								
FDGW-20251	1.0	1300			X	X		X		X				X						X	X								
WS-14	1.0	1305			X	X		X		X				X						X	X								
M-29	1.0	1310			X	X		X		X				X						X	X								
CCV002	1.0	1314			X	X		X		X				X						X	X								
CCB002	1.0	1319			X	X		X		X				X						X	X								
RBGW-20251	1.0	1323			X	X		X		X				X						X	X								
M-28I	1.0	1328			X	X		X		X				X						X	X								
WS-1	1.0	1333			X	X		X		X				X						X	X								
RBGW-20251	1.0	1337			X	X		X		X				X						X	X								
M-28S	1.0	1342			X	X		X		X				X						X	X								
PBW814	1.0	1346			X	X		X		X				X						X	X								
LCS814	1.0	1413			X	X		X		X				X						X	X								
CCV003	1.0	1417			X	X		X		X				X						X	X								
CCB003	1.0	1422			X	X		X		X				X						X	X								

FORM 12-IN
ANALYSIS LOG

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: Sharkey I MA No.: _____ SDG No.: Q3688
 Instrument ID: CV1 Analytical Method: CVAA
 Start Date: 12/05/2025 End Date: 12/05/2025
 Run Batch: LB138122

EPA Sample No.	D/F	Time	Analytes																											
			A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
S0	1.0	1112															X													
S01	1.0	1114															X													
S02	1.0	1116															X													
S03	1.0	1119															X													
S04	1.0	1126															X													
S05	1.0	1128															X													
ICV001	1.0	1135															X													
ICB001	1.0	1137															X													
CCV069	1.0	1139															X													
CCB069	1.0	1141															X													
PBW832	1.0	1144															X													
M-31S	1.0	1146															X													
M-31SD	1.0	1148															X													
M-31SS	1.0	1150															X													
RBGW-20251	1.0	1153															X													
M-32I	1.0	1155															X													
M-31I	1.0	1157															X													
M-32S	1.0	1200															X													
RBGW-20251	1.0	1202															X													
M-30S	1.0	1204															X													
M-30I	1.0	1206															X													
FDGW-20251	1.0	1209															X													
WS-14	1.0	1211															X													
M-29	1.0	1213															X													
RBGW-20251	1.0	1216															X													
M-28I	1.0	1218															X													
WS-1	1.0	1220															X													
RBGW-20251	1.0	1222															X													
M-28S	1.0	1225															X													
CCV070	1.0	1227															X													
CCB070	1.0	1229															X													

FORM 15-IN
INITIAL CALIBRATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Lar MA No.: SDG No.: Q3688
Instrument ID: P4 Start Date: 12/08/2025
Analytical Method: ICP-AES Run Batch: LB138160
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Arsenic	0	0.0	0	10	7.6	-24	1250	1200	-4
Barium	0	0.030	0	200	180	-10	2500	2300	-8
Cadmium	0	0.0	0	5	4.1	-18	625	630	1
Chromium	0	-0	0	10	10	0	3875	4000	3
Lead	0	-0	0	10	11	10	6250	6100	-2
Selenium	0	0.010	0	35	26	-26	1250	1200	-4
Silver	0	0.0	0	10	7.9	-21	312.5	300	-4

FORM 15-IN
INITIAL CALIBRATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Lar MA No.: SDG No.: Q3688
Instrument ID: P4 Start Date: 12/08/2025
Analytical Method: ICP-AES Run Batch: LB138160
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Arsenic	2500	2400	-4	5000	4900	-2	10000	10000	0
Barium	5000	4900	-2	10000	9900	-1	20000	20000	0
Cadmium	1250	1300	4	2500	2500	0	5000	5000	0
Chromium	7750	8100	5	15500	16000	3	31000	30000	-3
Lead	12500	12000	-4	25000	25000	0	50000	50000	0
Selenium	2500	2500	0	5000	4900	-2	10000	10000	0
Silver	625	620	-1	1250	1200	-4	2500	2500	0

FORM 15-IN
INITIAL CALIBRATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Lar MA No.: SDG No.: Q3688
Instrument ID: P4 Start Date: 12/08/2025
Analytical Method: ICP-AES Run Batch: LB138160
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Arsenic	0	0.0	0						
Barium	0	0.0	0						
Cadmium	0	0.0	0						
Chromium	0	0.0	0						
Lead	0	0.0	0						
Selenium	0	0.0	0						
Silver	0	0.0	0						

FORM 15-IN
INITIAL CALIBRATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Lar MA No.: SDG No.: Q3688
Instrument ID: CV1 Start Date: 12/05/2025
Analytical Method: CVAA Run Batch: LB138122
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0	0.0	0	0.2	0.16	-21	2.5	2.5	0

FORM 15-IN
INITIAL CALIBRATION

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Lar MA No.: SDG No.: Q3688
Instrument ID: CV1 Start Date: 12/05/2025
Analytical Method: CVAA Run Batch: LB138122
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	5	5.3	6	7.5	7.3	-3	10	10	0

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
 Lab Code: ACE Case No.: Sharkey Land MA No.: SDG No.: Q3688
 Instrument ID: P4 Start Date : 12/08/2025
 Analytical Method: ICP-AES Run Batch : LB138160

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	0.995501	0.013717	-0.000111	Lin. Reg	NONE
Antimony	0.999539	0.101085	0.000903	Lin. Reg	NONE
Arsenic	0.999569	0.064094	-0.000280	Lin. Reg	NONE
Barium	0.999673	0.256771	0.002482	Lin. Reg	NONE
Beryllium	0.999662	5.526770	-0.002990	Lin. Reg	NONE
Cadmium	0.999948	2.067768	-0.000634	Lin. Reg	NONE
Calcium	0.997249	0.007664	0.000170	Lin. Reg	NONE
Chromium	0.999696	0.135036	0.000131	Lin. Reg	NONE
Cobalt	0.999986	0.929949	-0.000389	Lin. Reg	NONE
Copper	0.999967	0.109722	0.002818	Lin. Reg	NONE
Iron	0.997714	0.003637	0.000018	Lin. Reg	NONE
Lead	0.999973	0.171293	0.000075	Lin. Reg	NONE
Magnesium	0.995546	0.001597	0.000002	Lin. Reg	NONE
Manganese	0.999953	0.050170	-0.000004	Lin. Reg	NONE
Nickel	0.999985	0.525269	-0.001059	Lin. Reg	NONE
Phosphorus	0.999589	0.039135	-0.000884	Lin. Reg	NONE
Potassium	0.999115	0.002302	0.005352	Lin. Reg	NONE
Selenium	0.999741	0.078185	0.000319	Lin. Reg	NONE
Silver	0.999819	0.227650	-0.000649	Lin. Reg	NONE
Sodium	0.997847	0.002729	-0.005729	Lin. Reg	NONE
Thallium	0.999165	0.038741	0.000342	Lin. Reg	NONE
Tin	0.999116	0.120441	0.003106	Lin. Reg	NONE
Titanium	0.999961	0.288418	0.001670	Lin. Reg	NONE
Vanadium	0.999975	0.126563	0.000031	Lin. Reg	NONE
Zinc	0.999721	0.202225	0.001023	Lin. Reg	NONE

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: Sharkey Land MA No.: SDG No.: Q3688
Instrument ID: CV1 Start Date : 12/05/2025
Analytical Method: CVAA Run Batch : LB138122

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	0.999000	0.000231	-0.025900	Lin. Reg	NONE