

LAB CHRONICLE

OrderID:	P4548	OrderDate:	10/24/2024 3:18:00 PM
Client:	Lockwood, Kessler & Bartlett, Inc.	Project:	Ansonia Landfill 2024
Contact:	John Gerlach	Location:	K11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4548-01	MW-1	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-02	MW-1	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-03	MW-2	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-04	MW-2	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-05	MW-3	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-06	MW-3	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-07	MW-4	Water	Metals Group4	6010D	10/23/24	10/26/24	10/29/24	10/24/24
P4548-08	MW-4	Water	Dissolved Metals Group5	6010D	10/23/24	10/26/24	10/29/24	10/24/24

Hit Summary Sheet SW-846

SDG No.: P4548 **Order ID:** P4548
Client: Lockwood, Kessler & Bartlett, Inc. **Project ID:** Ansonia Landfill 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-1								
P4548-01	MW-1	Water	Barium	62.5		6.28	50.0	ug/L
P4548-01	MW-1	Water	Cadmium	2.09	J	0.094	3.00	ug/L
P4548-01	MW-1	Water	Chromium	1.48	J	0.66	5.00	ug/L
P4548-01	MW-1	Water	Nickel	6.80	J	0.85	20.0	ug/L
P4548-01	MW-1	Water	Potassium	5230		685	1000	ug/L
P4548-01	MW-1	Water	Sodium	53100		237	1000	ug/L
P4548-01	MW-1	Water	Zinc	254		1.75	20.0	ug/L
Client ID : MW-1								
P4548-02	MW-1	Water	Iron	207		18.5	50.0	ug/L
P4548-02	MW-1	Water	Manganese	89.9		1.46	10.0	ug/L
Client ID : MW-2								
P4548-03	MW-2	Water	Barium	163		6.28	50.0	ug/L
P4548-03	MW-2	Water	Cadmium	0.94	J	0.094	3.00	ug/L
P4548-03	MW-2	Water	Chromium	4.47	J	0.66	5.00	ug/L
P4548-03	MW-2	Water	Cobalt	1.38	J	0.50	15.0	ug/L
P4548-03	MW-2	Water	Nickel	21.5		0.85	20.0	ug/L
P4548-03	MW-2	Water	Potassium	29300		685	1000	ug/L
P4548-03	MW-2	Water	Silver	1.14	J	0.58	5.00	ug/L
P4548-03	MW-2	Water	Sodium	292000		237	1000	ug/L
P4548-03	MW-2	Water	Zinc	59.4		1.75	20.0	ug/L
Client ID : MW-2								
P4548-04	MW-2	Water	Iron	13700		18.5	50.0	ug/L
P4548-04	MW-2	Water	Manganese	1220		1.46	10.0	ug/L
Client ID : MW-3								
P4548-05	MW-3	Water	Barium	140		6.28	50.0	ug/L
P4548-05	MW-3	Water	Cadmium	0.49	J	0.094	3.00	ug/L
P4548-05	MW-3	Water	Chromium	5.02		0.66	5.00	ug/L
P4548-05	MW-3	Water	Cobalt	1.26	J	0.50	15.0	ug/L
P4548-05	MW-3	Water	Nickel	5.61	J	0.85	20.0	ug/L
P4548-05	MW-3	Water	Potassium	22000		685	1000	ug/L
P4548-05	MW-3	Water	Sodium	175000		237	1000	ug/L
P4548-05	MW-3	Water	Zinc	20.8		1.75	20.0	ug/L
Client ID : MW-3								
P4548-06	MW-3	Water	Iron	3060		18.5	50.0	ug/L

Hit Summary Sheet
SW-846

SDG No.: P4548

Order ID: P4548

Client: Lockwood, Kessler & Bartlett, Inc.

Project ID: Ansonia Landfill 2024

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P4548-06	MW-3	Water	Manganese	513		1.46	10.0	ug/L
Client ID : MW-4								
P4548-07	MW-4	Water	Barium	142		6.28	50.0	ug/L
P4548-07	MW-4	Water	Cadmium	0.54	J	0.094	3.00	ug/L
P4548-07	MW-4	Water	Chromium	8.40		0.66	5.00	ug/L
P4548-07	MW-4	Water	Cobalt	1.42	J	0.50	15.0	ug/L
P4548-07	MW-4	Water	Nickel	7.38	J	0.85	20.0	ug/L
P4548-07	MW-4	Water	Potassium	22900		685	1000	ug/L
P4548-07	MW-4	Water	Sodium	181000		237	1000	ug/L
P4548-07	MW-4	Water	Zinc	21.4		1.75	20.0	ug/L
Client ID : MW-4								
P4548-08	MW-4	Water	Iron	2550		18.5	50.0	ug/L
P4548-08	MW-4	Water	Manganese	432		1.46	10.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-39-3	Barium	62.5		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-43-9	Cadmium	2.09	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-47-3	Chromium	1.48	J	1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-02-0	Nickel	6.80	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-09-7	Potassium	5230		1	685	1000	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-23-5	Sodium	53100		1	237	1000	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010
7440-66-6	Zinc	254	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 15:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-1	SDG No.:	P4548
Lab Sample ID:	P4548-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	207		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 16:27	SW6010	SW3010
7439-96-5	Manganese	89.9		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 16:27	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-39-3	Barium	163		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-43-9	Cadmium	0.94	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-47-3	Chromium	4.47	J	1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-48-4	Cobalt	1.38	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-02-0	Nickel	21.5		1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-09-7	Potassium	29300		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-22-4	Silver	1.14	JN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-23-5	Sodium	292000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010
7440-66-6	Zinc	59.4	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:31	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-2	SDG No.:	P4548
Lab Sample ID:	P4548-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	13700	1	18.5		50.0	ug/L	10/26/24 09:40	10/29/24 16:35	SW6010	SW3010
7439-96-5	Manganese	1220	1	1.46		10.0	ug/L	10/26/24 09:40	10/29/24 16:35	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-39-3	Barium	140		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-43-9	Cadmium	0.49	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-47-3	Chromium	5.02		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-48-4	Cobalt	1.26	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-02-0	Nickel	5.61	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-09-7	Potassium	22000		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-23-5	Sodium	175000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010
7440-66-6	Zinc	20.8	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:40	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
 LOQ = Limit of Quantitation
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J = Estimated Value
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-3	SDG No.:	P4548
Lab Sample ID:	P4548-06	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	3060		1	18.5	50.0	ug/L	10/26/24 09:40	10/29/24 16:44	SW6010	SW3010
7439-96-5	Manganese	513		1	1.46	10.0	ug/L	10/26/24 09:40	10/29/24 16:44	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
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Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-39-3	Barium	142		1	6.28	50.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-43-9	Cadmium	0.54	J	1	0.094	3.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-47-3	Chromium	8.40		1	0.66	5.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-48-4	Cobalt	1.42	J	1	0.50	15.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-02-0	Nickel	7.38	J	1	0.85	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-09-7	Potassium	22900		1	685	1000	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-22-4	Silver	0.58	UN	1	0.58	5.00	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-23-5	Sodium	181000		1	237	1000	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010
7440-66-6	Zinc	21.4	N	1	1.75	20.0	ug/L	10/26/24 09:40	10/29/24 16:49	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group4			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Lockwood, Kessler & Bartlett, Inc.	Date Collected:	10/23/24
Project:	Ansonia Landfill 2024	Date Received:	10/24/24
Client Sample ID:	MW-4	SDG No.:	P4548
Lab Sample ID:	P4548-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	2550	1	18.5		50.0	ug/L	10/26/24 09:40	10/29/24 17:05	SW6010	SW3010
7439-96-5	Manganese	432	1	1.46		10.0	ug/L	10/26/24 09:40	10/29/24 17:05	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Antimony	982	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Arsenic	950	1000	95	90 - 110	P	10/29/2024	11:59	LB133198
	Barium	474	520	91	90 - 110	P	10/29/2024	11:59	LB133198
	Beryllium	470	510	92	90 - 110	P	10/29/2024	11:59	LB133198
	Cadmium	478	510	94	90 - 110	P	10/29/2024	11:59	LB133198
	Chromium	533	520	102	90 - 110	P	10/29/2024	11:59	LB133198
	Cobalt	511	520	98	90 - 110	P	10/29/2024	11:59	LB133198
	Copper	525	510	103	90 - 110	P	10/29/2024	11:59	LB133198
	Iron	10300	10000	102	90 - 110	P	10/29/2024	11:59	LB133198
	Lead	958	1000	96	90 - 110	P	10/29/2024	11:59	LB133198
	Manganese	478	520	92	90 - 110	P	10/29/2024	11:59	LB133198
	Nickel	514	530	97	90 - 110	P	10/29/2024	11:59	LB133198
	Potassium	10200	9900	103	90 - 110	P	10/29/2024	11:59	LB133198
	Selenium	979	1000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Silver	260	250	104	90 - 110	P	10/29/2024	11:59	LB133198
	Sodium	9770	10000	98	90 - 110	P	10/29/2024	11:59	LB133198
	Thallium	1000	1000	100	90 - 110	P	10/29/2024	11:59	LB133198
	Vanadium	461	500	92	90 - 110	P	10/29/2024	11:59	LB133198
	Zinc	1040	1000	104	90 - 110	P	10/29/2024	11:59	LB133198

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548

Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Antimony	50.1	50.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Arsenic	19.0	20.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Barium	94.2	100	94	80 - 120	P	10/29/2024	12:31	LB133198
	Beryllium	5.69	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Cadmium	5.68	6.0	95	80 - 120	P	10/29/2024	12:31	LB133198
	Chromium	10.2	10.0	102	80 - 120	P	10/29/2024	12:31	LB133198
	Cobalt	30.2	30.0	101	80 - 120	P	10/29/2024	12:31	LB133198
	Copper	21.7	20.0	108	80 - 120	P	10/29/2024	12:31	LB133198
	Iron	105	100	105	80 - 120	P	10/29/2024	12:31	LB133198
	Lead	9.73	12.0	81	80 - 120	P	10/29/2024	12:31	LB133198
	Manganese	19.6	20.0	98	80 - 120	P	10/29/2024	12:31	LB133198
	Nickel	40.0	40.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Potassium	1890	2000	95	80 - 120	P	10/29/2024	12:31	LB133198
	Selenium	20.1	20.0	100	80 - 120	P	10/29/2024	12:31	LB133198
	Silver	11.2	10.0	112	80 - 120	P	10/29/2024	12:31	LB133198
	Sodium	1800	2000	90	80 - 120	P	10/29/2024	12:31	LB133198
	Thallium	36.2	40.0	91	80 - 120	P	10/29/2024	12:31	LB133198
	Vanadium	37.8	40.0	94	80 - 120	P	10/29/2024	12:31	LB133198
	Zinc	38.9	40.0	97	80 - 120	P	10/29/2024	12:31	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548
Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Antimony	4940	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Arsenic	4910	5000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Barium	9460	10000	95	90 - 110	P	10/29/2024	13:01	LB133198
	Beryllium	238	250	95	90 - 110	P	10/29/2024	13:01	LB133198
	Cadmium	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Chromium	994	1000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Cobalt	2440	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Copper	1250	1250	100	90 - 110	P	10/29/2024	13:01	LB133198
	Iron	4810	5000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Lead	4870	5000	97	90 - 110	P	10/29/2024	13:01	LB133198
	Manganese	2320	2500	93	90 - 110	P	10/29/2024	13:01	LB133198
	Nickel	2450	2500	98	90 - 110	P	10/29/2024	13:01	LB133198
	Potassium	24500	25000	98	90 - 110	P	10/29/2024	13:01	LB133198
	Selenium	4950	5000	99	90 - 110	P	10/29/2024	13:01	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	13:01	LB133198
	Sodium	24100	25000	96	90 - 110	P	10/29/2024	13:01	LB133198
	Thallium	4690	5000	94	90 - 110	P	10/29/2024	13:01	LB133198
	Vanadium	2390	2500	96	90 - 110	P	10/29/2024	13:01	LB133198
	Zinc	2510	2500	100	90 - 110	P	10/29/2024	13:01	LB133198
CCV02	Antimony	4810	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Arsenic	4780	5000	96	90 - 110	P	10/29/2024	14:04	LB133198
	Barium	9090	10000	91	90 - 110	P	10/29/2024	14:04	LB133198
	Beryllium	241	250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Cadmium	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Chromium	946	1000	95	90 - 110	P	10/29/2024	14:04	LB133198
	Cobalt	2330	2500	93	90 - 110	P	10/29/2024	14:04	LB133198
	Copper	1200	1250	96	90 - 110	P	10/29/2024	14:04	LB133198
	Iron	4590	5000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Lead	4670	5000	93	90 - 110	P	10/29/2024	14:04	LB133198
	Manganese	2560	2500	103	90 - 110	P	10/29/2024	14:04	LB133198
	Nickel	2340	2500	94	90 - 110	P	10/29/2024	14:04	LB133198
	Potassium	23600	25000	94	90 - 110	P	10/29/2024	14:04	LB133198
	Selenium	4870	5000	97	90 - 110	P	10/29/2024	14:04	LB133198
	Silver	1170	1250	94	90 - 110	P	10/29/2024	14:04	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Sodium	23000	25000	92	90 - 110	P	10/29/2024	14:04	LB133198
	Thallium	5060	5000	101	90 - 110	P	10/29/2024	14:04	LB133198
	Vanadium	2260	2500	90	90 - 110	P	10/29/2024	14:04	LB133198
	Zinc	2390	2500	96	90 - 110	P	10/29/2024	14:04	LB133198
CCV03	Antimony	5010	5000	100	90 - 110	P	10/29/2024	15:02	LB133198
	Arsenic	5490	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Barium	10400	10000	104	90 - 110	P	10/29/2024	15:02	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	15:02	LB133198
	Cadmium	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:02	LB133198
	Cobalt	2520	2500	101	90 - 110	P	10/29/2024	15:02	LB133198
	Copper	1130	1250	90	90 - 110	P	10/29/2024	15:02	LB133198
	Iron	5480	5000	110	90 - 110	P	10/29/2024	15:02	LB133198
	Lead	4700	5000	94	90 - 110	P	10/29/2024	15:02	LB133198
	Manganese	2450	2500	98	90 - 110	P	10/29/2024	15:02	LB133198
	Nickel	2580	2500	103	90 - 110	P	10/29/2024	15:02	LB133198
	Potassium	26900	25000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Selenium	4530	5000	91	90 - 110	P	10/29/2024	15:02	LB133198
	Silver	1230	1250	98	90 - 110	P	10/29/2024	15:02	LB133198
	Sodium	23300	25000	93	90 - 110	P	10/29/2024	15:02	LB133198
	Thallium	5410	5000	108	90 - 110	P	10/29/2024	15:02	LB133198
	Vanadium	2650	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
	Zinc	2660	2500	106	90 - 110	P	10/29/2024	15:02	LB133198
CCV04	Antimony	4760	5000	95	90 - 110	P	10/29/2024	15:59	LB133198
	Arsenic	5440	5000	109	90 - 110	P	10/29/2024	15:59	LB133198
	Barium	10300	10000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Beryllium	225	250	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cadmium	2640	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Chromium	901	1000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Cobalt	2480	2500	99	90 - 110	P	10/29/2024	15:59	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	15:59	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	15:59	LB133198
	Lead	4620	5000	92	90 - 110	P	10/29/2024	15:59	LB133198
	Manganese	2490	2500	100	90 - 110	P	10/29/2024	15:59	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Nickel	2540	2500	102	90 - 110	P	10/29/2024	15:59	LB133198
	Potassium	25700	25000	103	90 - 110	P	10/29/2024	15:59	LB133198
	Selenium	4680	5000	94	90 - 110	P	10/29/2024	15:59	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	15:59	LB133198
	Sodium	22600	25000	90	90 - 110	P	10/29/2024	15:59	LB133198
	Thallium	4990	5000	100	90 - 110	P	10/29/2024	15:59	LB133198
	Vanadium	2660	2500	106	90 - 110	P	10/29/2024	15:59	LB133198
	Zinc	2610	2500	104	90 - 110	P	10/29/2024	15:59	LB133198
CCV05	Antimony	4760	5000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Arsenic	5450	5000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Beryllium	231	250	92	90 - 110	P	10/29/2024	16:53	LB133198
	Cadmium	2630	2500	105	90 - 110	P	10/29/2024	16:53	LB133198
	Chromium	928	1000	93	90 - 110	P	10/29/2024	16:53	LB133198
	Cobalt	2470	2500	99	90 - 110	P	10/29/2024	16:53	LB133198
	Copper	1230	1250	98	90 - 110	P	10/29/2024	16:53	LB133198
	Iron	5380	5000	108	90 - 110	P	10/29/2024	16:53	LB133198
	Lead	4590	5000	92	90 - 110	P	10/29/2024	16:53	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Nickel	2530	2500	101	90 - 110	P	10/29/2024	16:53	LB133198
	Potassium	27200	25000	109	90 - 110	P	10/29/2024	16:53	LB133198
	Selenium	4690	5000	94	90 - 110	P	10/29/2024	16:53	LB133198
	Silver	1140	1250	91	90 - 110	P	10/29/2024	16:53	LB133198
	Sodium	23800	25000	95	90 - 110	P	10/29/2024	16:53	LB133198
	Thallium	5020	5000	100	90 - 110	P	10/29/2024	16:53	LB133198
	Vanadium	2710	2500	109	90 - 110	P	10/29/2024	16:53	LB133198
	Zinc	2280	2500	91	90 - 110	P	10/29/2024	16:53	LB133198
	Antimony	4670	5000	93	90 - 110	P	10/29/2024	17:53	LB133198
CCV06	Arsenic	5370	5000	107	90 - 110	P	10/29/2024	17:53	LB133198
	Barium	10600	10000	106	90 - 110	P	10/29/2024	17:53	LB133198
	Beryllium	245	250	98	90 - 110	P	10/29/2024	17:53	LB133198
	Cadmium	2600	2500	104	90 - 110	P	10/29/2024	17:53	LB133198
	Chromium	915	1000	92	90 - 110	P	10/29/2024	17:53	LB133198
	Cobalt	2430	2500	97	90 - 110	P	10/29/2024	17:53	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc. SDG No.: P4548

Contract: LOCK01 Lab Code: CHEM Case No.: P4548 SAS No.: P4548

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Copper	1200	1250	96	90 - 110	P	10/29/2024	17:53	LB133198
	Iron	5130	5000	103	90 - 110	P	10/29/2024	17:53	LB133198
	Lead	4570	5000	91	90 - 110	P	10/29/2024	17:53	LB133198
	Manganese	2400	2500	96	90 - 110	P	10/29/2024	17:53	LB133198
	Nickel	2490	2500	100	90 - 110	P	10/29/2024	17:53	LB133198
	Potassium	24700	25000	99	90 - 110	P	10/29/2024	17:53	LB133198
	Selenium	4700	5000	94	90 - 110	P	10/29/2024	17:53	LB133198
	Silver	1210	1250	97	90 - 110	P	10/29/2024	17:53	LB133198
	Sodium	24000	25000	96	90 - 110	P	10/29/2024	17:53	LB133198
	Thallium	5450	5000	109	90 - 110	P	10/29/2024	17:53	LB133198
	Vanadium	2570	2500	103	90 - 110	P	10/29/2024	17:53	LB133198
	Zinc	2670	2500	107	90 - 110	P	10/29/2024	17:53	LB133198
CCV07	Antimony	4930	5000	99	90 - 110	P	10/29/2024	18:20	LB133198
	Arsenic	5470	5000	109	90 - 110	P	10/29/2024	18:20	LB133198
	Barium	10800	10000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Beryllium	235	250	94	90 - 110	P	10/29/2024	18:20	LB133198
	Cadmium	2320	2500	93	90 - 110	P	10/29/2024	18:20	LB133198
	Chromium	933	1000	93	90 - 110	P	10/29/2024	18:20	LB133198
	Cobalt	2280	2500	91	90 - 110	P	10/29/2024	18:20	LB133198
	Copper	1270	1250	102	90 - 110	P	10/29/2024	18:20	LB133198
	Iron	5400	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Lead	4600	5000	92	90 - 110	P	10/29/2024	18:20	LB133198
	Manganese	2520	2500	101	90 - 110	P	10/29/2024	18:20	LB133198
	Nickel	2290	2500	92	90 - 110	P	10/29/2024	18:20	LB133198
	Potassium	26200	25000	105	90 - 110	P	10/29/2024	18:20	LB133198
	Selenium	5390	5000	108	90 - 110	P	10/29/2024	18:20	LB133198
	Silver	1130	1250	91	90 - 110	P	10/29/2024	18:20	LB133198
	Sodium	22500	25000	90	90 - 110	P	10/29/2024	18:20	LB133198
	Thallium	4880	5000	98	90 - 110	P	10/29/2024	18:20	LB133198
	Vanadium	2690	2500	108	90 - 110	P	10/29/2024	18:20	LB133198
	Zinc	2260	2500	90	90 - 110	P	10/29/2024	18:20	LB133198



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

Metals

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CRDL STANDARD FOR AA & ICP

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Antimony	47.7	50.0	95	40 - 160	P	10/29/2024	12:40	LB133198
	Arsenic	18.4	20.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Barium	90.0	100	90	40 - 160	P	10/29/2024	12:40	LB133198
	Beryllium	5.49	6.0	92	40 - 160	P	10/29/2024	12:40	LB133198
	Cadmium	5.32	6.0	89	40 - 160	P	10/29/2024	12:40	LB133198
	Chromium	10.2	10.0	102	40 - 160	P	10/29/2024	12:40	LB133198
	Cobalt	28.2	30.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Copper	20.6	20.0	103	40 - 160	P	10/29/2024	12:40	LB133198
	Iron	102	100	102	40 - 160	P	10/29/2024	12:40	LB133198
	Lead	9.96	12.0	83	40 - 160	P	10/29/2024	12:40	LB133198
	Manganese	18.9	20.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Nickel	37.3	40.0	93	40 - 160	P	10/29/2024	12:40	LB133198
	Potassium	1920	2000	96	40 - 160	P	10/29/2024	12:40	LB133198
	Selenium	19.2	20.0	96	40 - 160	P	10/29/2024	12:40	LB133198
	Silver	10.6	10.0	106	40 - 160	P	10/29/2024	12:40	LB133198
	Sodium	1780	2000	89	40 - 160	P	10/29/2024	12:40	LB133198
	Thallium	37.7	40.0	94	40 - 160	P	10/29/2024	12:40	LB133198
	Vanadium	36.0	40.0	90	40 - 160	P	10/29/2024	12:40	LB133198
	Zinc	38.5	40.0	96	40 - 160	P	10/29/2024	12:40	LB133198



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

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	12:35	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	12:35	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	12:35	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	12:35	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	12:35	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	12:35	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	12:35	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	12:35	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	12:35	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.		SDG No.: P4548							
Contract: LOCK01	Lab Code: CHEM	Case No.: P4548	SAS No.: P4548						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	13:06	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	13:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	13:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	13:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	13:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	13:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	13:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	13:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	13:06	LB133198
CCB02	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	14:15	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	14:15	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	14:15	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	14:15	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	14:15	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	14:15	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	14:15	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	14:15	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	14:15	LB133198
CCB03	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	15:06	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.		SDG No.: P4548							
Contract: LOCK01	Lab Code: CHEM	Case No.: P4548	SAS No.: P4548						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB03	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	15:06	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	15:06	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	15:06	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	15:06	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	15:06	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	15:06	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	15:06	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	15:06	LB133198
CCB04	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:03	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:03	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:03	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:03	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:03	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:03	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:03	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:03	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:03	LB133198
CCB05	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	16:57	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.		SDG No.: P4548							
Contract: LOCK01	Lab Code: CHEM	Case No.: P4548	SAS No.: P4548						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB05	Barium	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	16:57	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	16:57	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	16:57	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	16:57	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	16:57	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	16:57	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	16:57	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	16:57	LB133198
CCB06	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	17:58	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	17:58	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	17:58	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	17:58	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	17:58	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	17:58	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	17:58	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	17:58	LB133198
	Sodium	561	+/-2000	J	2000	P	10/29/2024	17:58	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	17:58	LB133198
CCB07	Antimony	50.0	+/-50.0	U	50.0	P	10/29/2024	18:24	LB133198
	Arsenic	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Barium	100	+/-100	U	100	P	10/29/2024	18:24	LB133198

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB07	Beryllium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Cadmium	6.00	+/-6.00	U	6.00	P	10/29/2024	18:24	LB133198
	Chromium	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Cobalt	30.0	+/-30.0	U	30.0	P	10/29/2024	18:24	LB133198
	Copper	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Iron	100	+/-100	U	100	P	10/29/2024	18:24	LB133198
	Lead	12.0	+/-12.0	U	12.0	P	10/29/2024	18:24	LB133198
	Manganese	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Nickel	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Potassium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Selenium	20.0	+/-20.0	U	20.0	P	10/29/2024	18:24	LB133198
	Silver	10.0	+/-10.0	U	10.0	P	10/29/2024	18:24	LB133198
	Sodium	2000	+/-2000	U	2000	P	10/29/2024	18:24	LB133198
	Thallium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Vanadium	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198
	Zinc	40.0	+/-40.0	U	40.0	P	10/29/2024	18:24	LB133198

Metals
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PREPARATION BLANK SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB164438BL	WATER			Batch Number:	PB164438		Prep Date:	10/26/2024	
	Antimony	25.0	<25.0	U	25.0	P	10/29/2024	18:07	LB133198
	Arsenic	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Barium	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Beryllium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Cadmium	3.00	<3.00	U	3.00	P	10/29/2024	18:07	LB133198
	Chromium	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Cobalt	15.0	<15.0	U	15.0	P	10/29/2024	18:07	LB133198
	Copper	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Iron	50.0	<50.0	U	50.0	P	10/29/2024	18:07	LB133198
	Lead	6.00	<6.00	U	6.00	P	10/29/2024	18:07	LB133198
	Manganese	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Nickel	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Potassium	1000	<1000	U	1000	P	10/29/2024	18:07	LB133198
	Selenium	10.0	<10.0	U	10.0	P	10/29/2024	18:07	LB133198
	Silver	5.00	<5.00	U	5.00	P	10/29/2024	18:07	LB133198
	Sodium	386	<1000	J	1000	P	10/29/2024	18:07	LB133198
	Thallium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Vanadium	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198
	Zinc	20.0	<20.0	U	20.0	P	10/29/2024	18:07	LB133198

Metals
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INTERFERENCE CHECK SAMPLE

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Antimony	-1.89			-50	50	10/29/2024	12:44	LB133198
	Arsenic	1.13			-20	20	10/29/2024	12:44	LB133198
	Barium	1.47	6.0	24	-94	106	10/29/2024	12:44	LB133198
	Beryllium	1.17			-6	6	10/29/2024	12:44	LB133198
	Cadmium	6.66	1.0	666	-5	7	10/29/2024	12:44	LB133198
	Chromium	57.6	52.0	111	42	62	10/29/2024	12:44	LB133198
	Cobalt	2.06			-30	30	10/29/2024	12:44	LB133198
	Copper	-5.53	2.0	276	-18	22	10/29/2024	12:44	LB133198
	Iron	102000	101000	101	85600	116500	10/29/2024	12:44	LB133198
	Lead	7.65			-12	12	10/29/2024	12:44	LB133198
	Manganese	5.46	7.0	78	-13	27	10/29/2024	12:44	LB133198
	Nickel	2.53	2.0	126	-38	42	10/29/2024	12:44	LB133198
	Potassium	-70.7			0	0	10/29/2024	12:44	LB133198
	Selenium	-10.9			-20	20	10/29/2024	12:44	LB133198
	Silver	3.62			-10	10	10/29/2024	12:44	LB133198
	Sodium	-37.1			0	0	10/29/2024	12:44	LB133198
	Thallium	5.74			-40	40	10/29/2024	12:44	LB133198
	Vanadium	4.51			-40	40	10/29/2024	12:44	LB133198
	Zinc	-0.39			-40	40	10/29/2024	12:44	LB133198
ICSAB01	Antimony	618	618	100	525	711	10/29/2024	12:48	LB133198
	Arsenic	108	104	104	88.4	120	10/29/2024	12:48	LB133198
	Barium	470	537	88	437	637	10/29/2024	12:48	LB133198
	Beryllium	469	495	95	420	570	10/29/2024	12:48	LB133198
	Cadmium	970	972	100	826	1120	10/29/2024	12:48	LB133198
	Chromium	573	542	106	460	624	10/29/2024	12:48	LB133198
	Cobalt	516	476	108	404	548	10/29/2024	12:48	LB133198
	Copper	496	511	97	434	588	10/29/2024	12:48	LB133198
	Iron	100000	99300	101	84400	114500	10/29/2024	12:48	LB133198
	Lead	54.7	49.0	112	37	61	10/29/2024	12:48	LB133198
	Manganese	459	507	90	430	584	10/29/2024	12:48	LB133198
	Nickel	1020	954	107	810	1100	10/29/2024	12:48	LB133198
	Potassium	-63.3			0	0	10/29/2024	12:48	LB133198
	Selenium	38.3	46.0	83	26	66	10/29/2024	12:48	LB133198
	Silver	207	201	103	170	232	10/29/2024	12:48	LB133198
	Sodium	-27.2			0	0	10/29/2024	12:48	LB133198
	Thallium	98.7	108	91	68	148	10/29/2024	12:48	LB133198
	Vanadium	459	491	94	417	565	10/29/2024	12:48	LB133198
	Zinc	1090	952	114	809	1095	10/29/2024	12:48	LB133198



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Lockwood, Kessler & Bartlett, Inc.</u>	level: <u>low</u>	sdg no.: <u>P4548</u>
contract: <u>LOCK01</u>	lab code: <u>CHEM</u>	case no.: <u>P4548</u> sas no.: <u>P4548</u>
matrix: <u>Water</u>	sample id: <u>P4548-01</u>	client id: <u>MW-1MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>P4548-01MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	355		25.0	U	400	89		P
Arsenic	ug/L	75 - 125	391		10.0	U	400	98		P
Barium	ug/L	75 - 125	158		62.5		100	95		P
Beryllium	ug/L	75 - 125	80.7		3.00	U	100	81		P
Cadmium	ug/L	75 - 125	92.7		2.09	J	100	91		P
Chromium	ug/L	75 - 125	177		1.48	J	200	88		P
Cobalt	ug/L	75 - 125	93.1		15.0	U	100	93		P
Copper	ug/L	75 - 125	138		10.0	U	150	92		P
Iron	ug/L	75 - 125	1590		42.8	J	1500	103		P
Lead	ug/L	75 - 125	388		6.00	U	500	78		P
Manganese	ug/L	75 - 125	179		86.6		100	93		P
Nickel	ug/L	75 - 125	243		6.80	J	250	95		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	804		10.0	U	1000	80		P
Silver	ug/L	75 - 125	22.5		5.00	U	37.5	60	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	862		20.0	U	1000	86		P
Vanadium	ug/L	75 - 125	150		20.0	U	150	100		P
Zinc	ug/L	75 - 125	298		254		100	43	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Lockwood, Kessler & Bartlett, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P4548</u>
contract:	<u>LOCK01</u>	lab code:	<u>CHEM</u>	case no.:	<u>P4548</u>
matrix:	<u>Water</u>	sample id:	<u>P4548-01</u>	client id:	<u>MW-1MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P4548-01MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	ug/L	75 - 125	367		25.0	U	400	92		P
Arsenic	ug/L	75 - 125	401		10.0	U	400	100		P
Barium	ug/L	75 - 125	161		62.5		100	99		P
Beryllium	ug/L	75 - 125	83.1		3.00	U	100	83		P
Cadmium	ug/L	75 - 125	95.0		2.09	J	100	93		P
Chromium	ug/L	75 - 125	181		1.48	J	200	90		P
Cobalt	ug/L	75 - 125	95.5		15.0	U	100	96		P
Copper	ug/L	75 - 125	141		10.0	U	150	94		P
Iron	ug/L	75 - 125	1580		42.8	J	1500	103		P
Lead	ug/L	75 - 125	398		6.00	U	500	80		P
Manganese	ug/L	75 - 125	184		86.6		100	98		P
Nickel	ug/L	75 - 125	249		6.80	J	250	97		P
Potassium	ug/L	75 - 125	10200		5230		5000	99		P
Selenium	ug/L	75 - 125	826		10.0	U	1000	83		P
Silver	ug/L	75 - 125	22.8		5.00	U	37.5	61	N	P
Sodium	ug/L	75 - 125	54400		53100		1500	87		P
Thallium	ug/L	75 - 125	831		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	153		20.0	U	150	102		P
Zinc	ug/L	75 - 125	303		254		100	49	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
Matrix: Water **Level:** LOW **Client ID:** MW-1A
Sample ID: P4548-01 **Spiked ID:** P4548-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Silver	ug/L	75 - 125	22.7		5.00	U	37.5	60		P
Zinc	ug/L	75 - 125	301		254		100	47		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **Level:** LOW **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
Matrix: Water **Sample ID:** P4548-01 **Client ID:** MW-1DUP
Percent Solids for Sample: NA **Duplicate ID** P4548-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	62.5		65.6		5		P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	2.09	J	2.18	J	4		P
Chromium	ug/L	20	1.48	J	1.64	J	10		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	42.8	J	42.0	J	2		P
Lead	ug/L	20	6.00	U	6.00	U			P
Manganese	ug/L	20	86.6		91.1		5		P
Nickel	ug/L	20	6.80	J	7.17	J	5		P
Potassium	ug/L	20	5230		5290		1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	53100		54500		3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	254		262		3		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **Level:** LOW **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548
Matrix: Water **Sample ID:** P4548-01MS **Client ID:** MW-1MSD
Percent Solids for Sample: NA **Duplicate ID** P4548-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Antimony	ug/L	20	355		367		3		P
Arsenic	ug/L	20	391		401		3		P
Barium	ug/L	20	158		161		2		P
Beryllium	ug/L	20	80.7		83.1		3		P
Cadmium	ug/L	20	92.7		95.0		2		P
Chromium	ug/L	20	177		181		2		P
Cobalt	ug/L	20	93.1		95.5		3		P
Copper	ug/L	20	138		141		2		P
Iron	ug/L	20	1590		1580		1		P
Lead	ug/L	20	388		398		3		P
Manganese	ug/L	20	179		184		3		P
Nickel	ug/L	20	243		249		2		P
Potassium	ug/L	20	10200		10200		0		P
Selenium	ug/L	20	804		826		3		P
Silver	ug/L	20	22.5		22.8		1		P
Sodium	ug/L	20	54400		54400		0		P
Thallium	ug/L	20	862		831		4		P
Vanadium	ug/L	20	150		153		2		P
Zinc	ug/L	20	298		303		2		P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc. **SDG No.:** P4548
Contract: LOCK01 **Lab Code:** CHEM **Case No.:** P4548 **SAS No.:** P4548

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB164438BS							
Antimony	ug/L	400	375		94	80 - 120	P
Arsenic	ug/L	400	397		99	80 - 120	P
Barium	ug/L	100	99.2		99	80 - 120	P
Beryllium	ug/L	100	92.9		93	80 - 120	P
Cadmium	ug/L	100	84.8		85	80 - 120	P
Chromium	ug/L	200	188		94	80 - 120	P
Cobalt	ug/L	100	89.4		89	80 - 120	P
Copper	ug/L	150	155		103	80 - 120	P
Iron	ug/L	1500	1580		105	80 - 120	P
Lead	ug/L	500	426		85	80 - 120	P
Manganese	ug/L	100	101		101	80 - 120	P
Nickel	ug/L	250	225		90	80 - 120	P
Potassium	ug/L	5000	5090		102	80 - 120	P
Selenium	ug/L	1000	979		98	80 - 120	P
Silver	ug/L	37.5	33.9		90	80 - 120	P
Sodium	ug/L	1500	1380		92	80 - 120	P
Thallium	ug/L	1000	903		90	80 - 120	P
Vanadium	ug/L	150	157		105	80 - 120	P
Zinc	ug/L	100	89.1		89	80 - 120	P

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

MW-1L

Lab Name: Chemtech Consulting Group

Contract: LOCK01

Lab Code: CHEM Lb No.: lb133198 Lab Sample ID : P4548-01L SDG No.: P4548

Matrix (soil/water): Water Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
		C		C			
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	62.5		49.2	J	21		P
Beryllium	3.00	U	15.0	U			P
Cadmium	2.09	J	2.11	J	1		P
Chromium	1.48	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	42.8	J	250	U	100.0		P
Lead	6.00	U	30.0	U			P
Manganese	86.6		92.5		7		P
Nickel	6.80	J	7.42	J	9		P
Potassium	5230		5590		7		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	53100		50900		4		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	254		204		20		P



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Case No.: P4548

SAS No.: P4548

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: P4548

Contract: LOCK01

Lab Code: CHEM

Method:

Case No.: P4548

SAS No.: P4548

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB164438							
P4548-01	MW-1	SAM	WATER	10/26/2024	50.0	25.0	
P4548-01DUP	MW-1DUP	DUP	WATER	10/26/2024	50.0	25.0	
P4548-01MS	MW-1MS	MS	WATER	10/26/2024	50.0	25.0	
P4548-01MSD	MW-1MSD	MSD	WATER	10/26/2024	50.0	25.0	
P4548-02	MW-1	SAM	WATER	10/26/2024	50.0	25.0	
P4548-03	MW-2	SAM	WATER	10/26/2024	50.0	25.0	
P4548-04	MW-2	SAM	WATER	10/26/2024	50.0	25.0	
P4548-05	MW-3	SAM	WATER	10/26/2024	50.0	25.0	
P4548-06	MW-3	SAM	WATER	10/26/2024	50.0	25.0	
P4548-07	MW-4	SAM	WATER	10/26/2024	50.0	25.0	
P4548-08	MW-4	SAM	WATER	10/26/2024	50.0	25.0	
PB164438BL	PB164438BL	MB	WATER	10/26/2024	50.0	25.0	
PB164438BS	PB164438BS	LCS	WATER	10/26/2024	50.0	25.0	

metals
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ANALYSIS RUN LOG

Client: Lockwood, Kessler & Bartlett, Inc.

Contract: LOCK01

Lab code: CHEM **Case no.:** P4548

Sas no.: P4548

Sdg no.: P4548

Instrument id number: **Method:**

Run number: LB133198

Start date: 10/29/2024 **End date:** 10/29/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1133	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1138	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1142	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1146	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1150	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1154	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1159	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1231	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1235	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1240	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1244	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1248	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1301	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1306	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1404	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1415	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1502	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1506	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01	MW-1	1	1551	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01DUP	MW-1DUP	1	1555	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1559	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1603	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01L	MW-1L	5	1611	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MS	MW-1MS	1	1615	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01MSD	MW-1MSD	1	1619	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-01A	MW-1A	1	1623	Ag,Zn
P4548-02	MW-1	1	1627	Fe,Mn
P4548-03	MW-2	1	1631	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-04	MW-2	1	1635	Fe,Mn
P4548-05	MW-3	1	1640	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-06	MW-3	1	1644	Fe,Mn
P4548-07	MW-4	1	1649	Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1653	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1657	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P4548-08	MW-4	1	1705	Fe,Mn
CCV06	CCV06	1	1753	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1758	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BL	PB164438BL	1	1807	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB164438BS	PB164438BS	1	1816	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Fe,K,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1820	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1824	Fe,Mn,Ag,As,Ba,Be,Cd,Co,Cr,Cu,K,Na,Ni,Pb,Sb,Se,Tl,V,Zn