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

LAB CHRONICLE

OrderID:	Q1172	**OrderDate:**	1/23/2025 2:53:00 PM
Client:	Chemtech Consulting Group	**Project:**	NJ Drinking Water PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1172-03	**PT-MIN-WS**	**Water**			**01/13/25**			**01/15/25**
			Hardness, Calcium	SM2340B		02/12/25	02/18/25	
			Metals Group3	200.7		02/12/25	02/18/25	
Q1172-04	**PT-TM-WS**	**Water**			**01/13/25**			**01/15/25**
			Metals Group6	200.7		02/12/25	02/12/25	
			Metals Group7	200.8		02/11/25	02/14/25	
Q1172-05	**PT-HG-WS**	**Water**			**01/13/25**			**01/15/25**
			Mercury	245.1		02/11/25	02/11/25	
Q1172-06	**PT-SIO2-WS**	**Water**			**01/13/25**			**01/15/25**
			Silica	200.7		02/12/25	02/18/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1172 **Order ID:** Q1172

Client: Chemtech Consulting Group **Project ID:** NJ Drinking Water PT

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PT-TM-WS**							
Q1172-04	PT-TM-WS	Water	Aluminum	510		3.80	20.0	ug/L
Q1172-04	PT-TM-WS	Water	Antimony	20.7		0.15	2.00	ug/L
Q1172-04	PT-TM-WS	Water	Arsenic	6.98		0.16	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Barium	1790		0.35	10.0	ug/L
Q1172-04	PT-TM-WS	Water	Beryllium	16.9		0.21	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Cadmium	23.6		0.21	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Chromium	22.4		0.24	2.00	ug/L
Q1172-04	PT-TM-WS	Water	Copper	738		0.79	2.00	ug/L
Q1172-04	PT-TM-WS	Water	Iron	1540		24.8	50.0	ug/L
Q1172-04	PT-TM-WS	Water	Lead	20.3		0.27	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Manganese	843		0.29	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Nickel	215		0.16	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Molybdenum	50.4		0.93	5.00	ug/L
Q1172-04	PT-TM-WS	Water	Selenium	30.7		1.95	5.00	ug/L
Q1172-04	PT-TM-WS	Water	Silver	231		0.42	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Thallium	7.27		0.11	1.00	ug/L
Q1172-04	PT-TM-WS	Water	Vanadium	309		0.11	5.00	ug/L
Q1172-04	PT-TM-WS	Water	Zinc	221		0.58	5.00	ug/L

SAMPLE DATA

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Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	01/13/25
Project:	NJ Drinking Water PT	Date Received:	01/15/25
Client Sample ID:	PT-TM-WS	SDG No.:	Q1172
Lab Sample ID:	Q1172-04	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.
7429-90-5	Aluminum	510		1	3.80	20.0	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-36-0	Antimony	20.7		1	0.15	2.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-38-2	Arsenic	6.98		1	0.16	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-39-3	Barium	1790		1	0.35	10.0	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-41-7	Beryllium	16.9		1	0.21	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-43-9	Cadmium	23.6		1	0.21	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-47-3	Chromium	22.4		1	0.24	2.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-50-8	Copper	738		1	0.79	2.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7439-89-6	Iron	1540		1	24.8	50.0	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7439-92-1	Lead	20.3		1	0.27	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7439-96-5	Manganese	843		1	0.29	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7439-98-7	Molybdenum	50.4		1	0.93	5.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-02-0	Nickel	215		1	0.16	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7782-49-2	Selenium	30.7		1	1.95	5.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-22-4	Silver	231		1	0.42	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-28-0	Thallium	7.27		1	0.11	1.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-62-2	Vanadium	309		1	0.11	5.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	
7440-66-6	Zinc	221		1	0.58	5.00	ug/L	02/11/25 10:00	02/14/25 11:57	200.8	

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	Metals Group7				

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

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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	485	500	97	90 - 110	P	02/14/2025	10:59	LB134731
	Antimony	198	200	99	90 - 110	P	02/14/2025	10:59	LB134731
	Arsenic	198	200	99	90 - 110	P	02/14/2025	10:59	LB134731
	Barium	99.5	100	100	90 - 110	P	02/14/2025	10:59	LB134731
	Beryllium	97.0	100	97	90 - 110	P	02/14/2025	10:59	LB134731
	Cadmium	104	100	104	90 - 110	P	02/14/2025	10:59	LB134731
	Chromium	99.3	100	99	90 - 110	P	02/14/2025	10:59	LB134731
	Copper	103	100	103	90 - 110	P	02/14/2025	10:59	LB134731
	Iron	2010	2000	100	90 - 110	P	02/14/2025	10:59	LB134731
	Lead	195	200	98	90 - 110	P	02/14/2025	10:59	LB134731
	Manganese	100	100	100	90 - 110	P	02/14/2025	10:59	LB134731
	Molybdenum	4740	5000	95	90 - 110	P	02/14/2025	10:59	LB134731
	Nickel	100	110	91	90 - 110	P	02/14/2025	10:59	LB134731
	Selenium	209	200	104	90 - 110	P	02/14/2025	10:59	LB134731
	Silver	47.9	50.0	96	90 - 110	P	02/14/2025	10:59	LB134731
	Thallium	203	210	97	90 - 110	P	02/14/2025	10:59	LB134731
	Vanadium	100	100	100	90 - 110	P	02/14/2025	10:59	LB134731
	Zinc	191	200	96	90 - 110	P	02/14/2025	10:59	LB134731

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	50500	50000	101	90 - 110	P	02/14/2025	11:29	LB134731
	Antimony	502	500	100	90 - 110	P	02/14/2025	11:29	LB134731
	Arsenic	467	500	93	90 - 110	P	02/14/2025	11:29	LB134731
	Barium	2480	2500	99	90 - 110	P	02/14/2025	11:29	LB134731
	Beryllium	514	500	103	90 - 110	P	02/14/2025	11:29	LB134731
	Cadmium	466	500	93	90 - 110	P	02/14/2025	11:29	LB134731
	Chromium	494	500	99	90 - 110	P	02/14/2025	11:29	LB134731
	Copper	4960	5000	99	90 - 110	P	02/14/2025	11:29	LB134731
	Iron	125000	125000	100	90 - 110	P	02/14/2025	11:29	LB134731
	Lead	2500	2500	100	90 - 110	P	02/14/2025	11:29	LB134731
	Manganese	4860	5000	97	90 - 110	P	02/14/2025	11:29	LB134731
	Molybdenum	4990	5500	91	90 - 110	P	02/14/2025	11:29	LB134731
	Nickel	531	500	106	90 - 110	P	02/14/2025	11:29	LB134731
	Selenium	484	500	97	90 - 110	P	02/14/2025	11:29	LB134731
	Silver	494	500	99	90 - 110	P	02/14/2025	11:29	LB134731
	Thallium	503	500	101	90 - 110	P	02/14/2025	11:29	LB134731
	Vanadium	497	500	100	90 - 110	P	02/14/2025	11:29	LB134731
	Zinc	4830	5000	97	90 - 110	P	02/14/2025	11:29	LB134731
CCV02	Aluminum	50200	50000	100	90 - 110	P	02/14/2025	12:25	LB134731
	Antimony	482	500	96	90 - 110	P	02/14/2025	12:25	LB134731
	Arsenic	472	500	94	90 - 110	P	02/14/2025	12:25	LB134731
	Barium	2380	2500	95	90 - 110	P	02/14/2025	12:25	LB134731
	Beryllium	504	500	101	90 - 110	P	02/14/2025	12:25	LB134731
	Cadmium	460	500	92	90 - 110	P	02/14/2025	12:25	LB134731
	Chromium	490	500	98	90 - 110	P	02/14/2025	12:25	LB134731
	Copper	4700	5000	94	90 - 110	P	02/14/2025	12:25	LB134731
	Iron	124000	125000	99	90 - 110	P	02/14/2025	12:25	LB134731
	Lead	2510	2500	100	90 - 110	P	02/14/2025	12:25	LB134731
	Manganese	4830	5000	97	90 - 110	P	02/14/2025	12:25	LB134731
	Molybdenum	5000	5500	91	90 - 110	P	02/14/2025	12:25	LB134731
	Nickel	452	500	90	90 - 110	P	02/14/2025	12:25	LB134731
	Selenium	485	500	97	90 - 110	P	02/14/2025	12:25	LB134731
	Silver	477	500	95	90 - 110	P	02/14/2025	12:25	LB134731
	Thallium	502	500	100	90 - 110	P	02/14/2025	12:25	LB134731

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Vanadium	493	500	99	90 - 110	P	02/14/2025	12:25	LB134731
	Zinc	4770	5000	96	90 - 110	P	02/14/2025	12:25	LB134731

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Metals

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CRDL STANDARD FOR AA & ICP

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

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
CRI	Aluminum	19.6	20.0	98	50 - 150	P	02/14/2025	11:48	LB134731
	Antimony	1.98	2.0	99	70 - 130	P	02/14/2025	11:48	LB134731
	Arsenic	1.01	1.0	101	70 - 130	P	02/14/2025	11:48	LB134731
	Barium	9.68	10.0	97	70 - 130	P	02/14/2025	11:48	LB134731
	Beryllium	1.08	1.0	108	70 - 130	P	02/14/2025	11:48	LB134731
	Cadmium	1.07	1.0	107	70 - 130	P	02/14/2025	11:48	LB134731
	Chromium	2.10	2.0	105	70 - 130	P	02/14/2025	11:48	LB134731
	Copper	1.46	2.0	73	70 - 130	P	02/14/2025	11:48	LB134731
	Iron	46.4	50.0	93	50 - 150	P	02/14/2025	11:48	LB134731
	Lead	1.10	1.0	110	70 - 130	P	02/14/2025	11:48	LB134731
	Manganese	1.28	1.0	128	50 - 150	P	02/14/2025	11:48	LB134731
	Molybdenum	5.05	5.0	101	70 - 130	P	02/14/2025	11:48	LB134731
	Nickel	0.93	1.0	93	70 - 130	P	02/14/2025	11:48	LB134731
	Selenium	5.32	5.0	106	70 - 130	P	02/14/2025	11:48	LB134731
	Silver	0.97	1.0	97	70 - 130	P	02/14/2025	11:48	LB134731
	Thallium	1.02	1.0	102	70 - 130	P	02/14/2025	11:48	LB134731
	Vanadium	5.14	5.0	103	70 - 130	P	02/14/2025	11:48	LB134731
	Zinc	5.38	5.0	108	50 - 150	P	02/14/2025	11:48	LB134731

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Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	20.0	P	02/14/2025	11:03	LB134731
	Antimony	2.00	+/-2.00	U	2.00	P	02/14/2025	11:03	LB134731
	Arsenic	1.00	+/-1.00	U	1.00	P	02/14/2025	11:03	LB134731
	Barium	10.0	+/-10.0	U	10.0	P	02/14/2025	11:03	LB134731
	Beryllium	1.00	+/-1.00	U	1.00	P	02/14/2025	11:03	LB134731
	Cadmium	1.00	+/-1.00	U	1.00	P	02/14/2025	11:03	LB134731
	Chromium	2.00	+/-2.00	U	2.00	P	02/14/2025	11:03	LB134731
	Copper	2.00	+/-2.00	U	2.00	P	02/14/2025	11:03	LB134731
	Iron	50.0	+/-50.0	U	50.0	P	02/14/2025	11:03	LB134731
	Lead	0.30	+/-1.00	J	1.00	P	02/14/2025	11:03	LB134731
	Manganese	0.44	+/-1.00	J	1.00	P	02/14/2025	11:03	LB134731
	Nickel	1.00	+/-1.00	U	1.00	P	02/14/2025	11:03	LB134731
	Molybdenum	5.00	+/-5.00	U	5.00	P	02/14/2025	11:03	LB134731
	Selenium	5.00	+/-5.00	U	5.00	P	02/14/2025	11:03	LB134731
	Silver	1.00	+/-1.00	U	1.00	P	02/14/2025	11:03	LB134731
	Thallium	1.00	+/-1.00	U	1.00	P	02/14/2025	11:03	LB134731
	Vanadium	5.00	+/-5.00	U	5.00	P	02/14/2025	11:03	LB134731
	Zinc	5.00	+/-5.00	U	5.00	P	02/14/2025	11:03	LB134731

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	20.0	+/-20.0	U	20.0	P	02/14/2025	11:35	LB134731
	Antimony	2.00	+/-2.00	U	2.00	P	02/14/2025	11:35	LB134731
	Arsenic	1.00	+/-1.00	U	1.00	P	02/14/2025	11:35	LB134731
	Barium	10.0	+/-10.0	U	10.0	P	02/14/2025	11:35	LB134731
	Beryllium	1.00	+/-1.00	U	1.00	P	02/14/2025	11:35	LB134731
	Cadmium	1.00	+/-1.00	U	1.00	P	02/14/2025	11:35	LB134731
	Chromium	2.00	+/-2.00	U	2.00	P	02/14/2025	11:35	LB134731
	Copper	2.00	+/-2.00	U	2.00	P	02/14/2025	11:35	LB134731
	Iron	50.0	+/-50.0	U	50.0	P	02/14/2025	11:35	LB134731
	Lead	0.30	+/-1.00	J	1.00	P	02/14/2025	11:35	LB134731
	Manganese	0.49	+/-1.00	J	1.00	P	02/14/2025	11:35	LB134731
	Nickel	1.00	+/-1.00	U	1.00	P	02/14/2025	11:35	LB134731
	Molybdenum	5.00	+/-5.00	U	5.00	P	02/14/2025	11:35	LB134731
	Selenium	5.00	+/-5.00	U	5.00	P	02/14/2025	11:35	LB134731
	Silver	1.00	+/-1.00	U	1.00	P	02/14/2025	11:35	LB134731
	Thallium	1.00	+/-1.00	U	1.00	P	02/14/2025	11:35	LB134731
	Vanadium	5.00	+/-5.00	U	5.00	P	02/14/2025	11:35	LB134731
	Zinc	5.00	+/-5.00	U	5.00	P	02/14/2025	11:35	LB134731
CCB02	Aluminum	20.0	+/-20.0	U	20.0	P	02/14/2025	12:32	LB134731
	Antimony	2.00	+/-2.00	U	2.00	P	02/14/2025	12:32	LB134731
	Arsenic	1.00	+/-1.00	U	1.00	P	02/14/2025	12:32	LB134731
	Barium	10.0	+/-10.0	U	10.0	P	02/14/2025	12:32	LB134731
	Beryllium	1.00	+/-1.00	U	1.00	P	02/14/2025	12:32	LB134731
	Cadmium	1.00	+/-1.00	U	1.00	P	02/14/2025	12:32	LB134731
	Chromium	2.00	+/-2.00	U	2.00	P	02/14/2025	12:32	LB134731
	Copper	2.00	+/-2.00	U	2.00	P	02/14/2025	12:32	LB134731
	Iron	50.0	+/-50.0	U	50.0	P	02/14/2025	12:32	LB134731
	Lead	1.00	+/-1.00	U	1.00	P	02/14/2025	12:32	LB134731
	Manganese	0.44	+/-1.00	J	1.00	P	02/14/2025	12:32	LB134731
	Nickel	1.00	+/-1.00	U	1.00	P	02/14/2025	12:32	LB134731
	Molybdenum	5.00	+/-5.00	U	5.00	P	02/14/2025	12:32	LB134731
	Selenium	5.00	+/-5.00	U	5.00	P	02/14/2025	12:32	LB134731
	Silver	1.00	+/-1.00	U	1.00	P	02/14/2025	12:32	LB134731
	Thallium	1.00	+/-1.00	U	1.00	P	02/14/2025	12:32	LB134731
	Vanadium	5.00	+/-5.00	U	5.00	P	02/14/2025	12:32	LB134731
	Zinc	5.00	+/-5.00	U	5.00	P	02/14/2025	12:32	LB134731

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Chemtech Consulting Group **SDG No.:** Q1172

Instrument: P8

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB166661BL		**WATER**		**Batch Number:**	**PB166661**		**Prep Date:**	**02/11/2025**	
	Aluminum	20.0	<20.0	U	20.0	P	02/14/2025	11:51	LB134731
	Antimony	2.00	<2.00	U	2.00	P	02/14/2025	11:51	LB134731
	Arsenic	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Barium	10.0	<10.0	U	10.0	P	02/14/2025	11:51	LB134731
	Beryllium	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Cadmium	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Chromium	2.00	<2.00	U	2.00	P	02/14/2025	11:51	LB134731
	Copper	2.00	<2.00	U	2.00	P	02/14/2025	11:51	LB134731
	Iron	50.0	<50.0	U	50.0	P	02/14/2025	11:51	LB134731
	Lead	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Manganese	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Nickel	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Selenium	5.00	<5.00	U	5.00	P	02/14/2025	11:51	LB134731
	Molybdenum	5.00	<5.00	U	5.00	P	02/14/2025	11:51	LB134731
	Silver	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Thallium	1.00	<1.00	U	1.00	P	02/14/2025	11:51	LB134731
	Vanadium	5.00	<5.00	U	5.00	P	02/14/2025	11:51	LB134731
	Zinc	5.00	<5.00	U	5.00	P	02/14/2025	11:51	LB134731

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Metals
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INTERFERENCE CHECK SAMPLE

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

ICS Source: EPA **Instrument ID:** P8

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	Aluminum	97100	100000	97	0	0	02/14/2025	11:08	LB134731
	Antimony	1.14	1.5	76	-2.5	5.5	02/14/2025	11:08	LB134731
	Arsenic	0.44	0.1	440	-1.9	2.1	02/14/2025	11:08	LB134731
	Barium	1.12	1.2	93	-18.8	21.2	02/14/2025	11:08	LB134731
	Beryllium	0.34			-2	2	02/14/2025	11:08	LB134731
	Cadmium	0.46	0.7	66	-1.3	2.7	02/14/2025	11:08	LB134731
	Chromium	19.7	21.0	94	17	25	02/14/2025	11:08	LB134731
	Copper	8.98	8.0	112	4	12	02/14/2025	11:08	LB134731
	Iron	103000	100000	103	0	0	02/14/2025	11:08	LB134731
	Lead	4.58	4.0	114	2	6	02/14/2025	11:08	LB134731
	Manganese	7.46	7.0	107	5	9	02/14/2025	11:08	LB134731
	Nickel	5.38	6.0	90	4	8	02/14/2025	11:08	LB134731
	Molybdenum	1970	2000	98	-20	20	02/14/2025	11:08	LB134731
	Selenium	0.40	0.3	133	-9.7	10	02/14/2025	11:08	LB134731
	Silver	0.080			-2	2	02/14/2025	11:08	LB134731
	Thallium	0.19			-2	2	02/14/2025	11:08	LB134731
	Vanadium	0.31	0.5	62	-9.5	10.5	02/14/2025	11:08	LB134731
	Zinc	11.9	11.0	108	7	15	02/14/2025	11:08	LB134731
ICSAB01	Aluminum	95600	100000	96	0	0	02/14/2025	11:11	LB134731
	Antimony	21.0	22.0	96	18	26	02/14/2025	11:11	LB134731
	Arsenic	19.6	19.0	103	16.2	21.9	02/14/2025	11:11	LB134731
	Barium	20.9	22.0	95	2	42	02/14/2025	11:11	LB134731
	Beryllium	19.3	19.0	102	16.2	21.9	02/14/2025	11:11	LB134731
	Cadmium	20.5	20.0	102	17	23	02/14/2025	11:11	LB134731
	Chromium	38.5	40.0	96	34	46	02/14/2025	11:11	LB134731
	Copper	29.0	25.0	116	21	29	02/14/2025	11:11	LB134731
	Iron	102000	100000	102	0	0	02/14/2025	11:11	LB134731
	Lead	23.2	25.0	93	21.3	28.8	02/14/2025	11:11	LB134731
	Manganese	25.9	27.0	96	23	31.1	02/14/2025	11:11	LB134731
	Nickel	24.2	24.0	101	20.4	27.6	02/14/2025	11:11	LB134731
	Molybdenum	1950	2000	98	1600	2400	02/14/2025	11:11	LB134731
	Selenium	19.7	19.0	104	9	29	02/14/2025	11:11	LB134731
	Silver	18.8	18.0	104	15.3	20.7	02/14/2025	11:11	LB134731
	Thallium	20.1	21.0	96	17.9	24.2	02/14/2025	11:11	LB134731
	Vanadium	19.1	19.0	100	9	29	02/14/2025	11:11	LB134731
	Zinc	30.6	29.0	106	25	33	02/14/2025	11:11	LB134731

METAL QC DATA

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LABORATORY CONTROL SAMPLE SUMMARY

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Case No.:** Q1172 **SAS No.:** Q1172

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB166661BS							
Aluminum	ug/L	10000	10100		101	85 - 115	P
Antimony	ug/L	500	485		97	85 - 115	P
Arsenic	ug/L	500	486		97	85 - 115	P
Barium	ug/L	2500	2390		96	85 - 115	P
Beryllium	ug/L	500	501		100	85 - 115	P
Cadmium	ug/L	500	474		95	85 - 115	P
Chromium	ug/L	500	497		99	85 - 115	P
Copper	ug/L	5000	4860		97	85 - 115	P
Iron	ug/L	25000	25500		102	85 - 115	P
Lead	ug/L	2500	2490		100	85 - 115	P
Manganese	ug/L	5000	4970		99	85 - 115	P
Nickel	ug/L	500	477		95	85 - 115	P
Selenium	ug/L	500	505		101	85 - 115	P
Molybdenum	ug/L	5000	4980		100	85 - 115	P
Silver	ug/L	500	486		97	85 - 115	P
Thallium	ug/L	500	497		99	85 - 115	P
Vanadium	ug/L	500	499		100	85 - 115	P
Zinc	ug/L	5000	5030		101	85 - 115	P

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Chemtech Consulting Group
Contract: CHEM02
Lab Code: CHEM Case no.: Q1172
Sas No.: Q1172 SDG No.: Q1172
Instrument ID: P8
Start Date : 02/14/2025
Run Number: LB134731
End Date : 02/14/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1031	100		100		100		100		100	
S2	S2	1034	102		100		101		101		100	
S3	S3	1037	102		100		101		100		102	
S4	S4	1040	101		99		100		99		100	
S5	S5	1043	102		99		101		98		102	
S6	S6	1047	101		100		103		98		103	
S7	S7	1050	103		104		106		100		106	
S8	S8	1053	101		104		106		96		107	
ICV01	ICV01	1059	107		105		106		105		106	
ICB01	ICB01	1103	105		103		105		103		103	
ICSA01	ICSA01	1108	105		105		106		99		105	
ICSAB01	ICSAB01	1111	109		107		109		102		107	
CCV01	CCV01	1129	105		106		106		99		105	
CCB01	CCB01	1135	104		103		105		103		103	
CRI	CRI	1148	102		100		101		100		99	
PB166661BL	PB166661BL	1151	101		99		100		99		98	
PB166661BS	PB166661BS	1154	100		100		101		97		100	
Q1172-04	PT-TM-WS	1157	100		99		101		98		99	
Q1172-04	PT-TM-WS	1216	99		97		98		97		97	
CCV02	CCV02	1225	100		102		102		94		100	
CCB02	CCB02	1232	103		99		101		100		98	

Internal Standard %RI Limit: 70 - 130

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FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Chemtech Consulting Group
Contract: CHEM02
Lab Code: CHEM Case no.: Q1172
Sas No.: Q1172 SDG No.: Q1172
Instrument ID: P8
Start Date : 02/14/2025
Run Number: LB134731
End Date : 02/14/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1031										
S2	S2	1034										
S3	S3	1037										
S4	S4	1040										
S5	S5	1043										
S6	S6	1047										
S7	S7	1050										
S8	S8	1053										
ICV01	ICV01	1059										
ICB01	ICB01	1103										
ICSA01	ICSA01	1108										
ICSAB01	ICSAB01	1111										
CCV01	CCV01	1129										
CCB01	CCB01	1135										
CRI	CRI	1148										
PB166661BL	PB166661BL	1151										
PB166661BS	PB166661BS	1154										
Q1172-04	PT-TM-WS	1157										
Q1172-04	PT-TM-WS	1216										
CCV02	CCV02	1225										
CCB02	CCB02	1232										

Internal Standard %RI Limit: 70 - 130

Alliance TECHNICAL GROUP
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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHEM02

Lab Code: CHEM Case no.: Q1172 Sas No.: Q1172 SDG No.: Q1172

Instrument ID: P8 Start Date : 02/14/2025

Run Number: LB134731 End Date : 02/14/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1031	100		100							
S2	S2	1034	101		102							
S3	S3	1037	101		102							
S4	S4	1040	100		101							
S5	S5	1043	102		101							
S6	S6	1047	103		101							
S7	S7	1050	106		102							
S8	S8	1053	106		98							
ICV01	ICV01	1059	105		105							
ICB01	ICB01	1103	104		104							
ICSA01	ICSA01	1108	104		100							
ICSAB01	ICSAB01	1111	107		101							
CCV01	CCV01	1129	105		99							
CCB01	CCB01	1135	102		100							
CRI	CRI	1148	100		98							
PB166661BL	PB166661BL	1151	98		98							
PB166661BS	PB166661BS	1154	98		96							
Q1172-04	PT-TM-WS	1157	99		98							
Q1172-04	PT-TM-WS	1216	96		97							
CCV02	CCV02	1225	100		94							
CCB02	CCB02	1232	98		99							

Internal Standard %RI Limit: 70 -130

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FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Chemtech Consulting Group Contract: CHEM02

Lab Code: CHEM Case no.: Q1172 Sas No.: Q1172 SDG No.: Q1172

Instrument ID: P8 Start Date : 02/14/2025

Run Number: LB134731 End Date : 02/14/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1031										
S2	S2	1034										
S3	S3	1037										
S4	S4	1040										
S5	S5	1043										
S6	S6	1047										
S7	S7	1050										
S8	S8	1053										
ICV01	ICV01	1059										
ICB01	ICB01	1103										
ICSA01	ICSA01	1108										
ICSAB01	ICSAB01	1111										
CCV01	CCV01	1129										
CCB01	CCB01	1135										
CRI	CRI	1148										
PB166661BL	PB166661BL	1151										
PB166661BS	PB166661BS	1154										
Q1172-04	PT-TM-WS	1157										
Q1172-04	PT-TM-WS	1216										
CCV02	CCV02	1225										
CCB02	CCB02	1232										

Internal Standard %RI Limit: 70 -130

METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
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SAMPLE PREPARATION SUMMARY

Client: Chemtech Consulting Group **SDG No.:** Q1172

Contract: CHEM02 **Lab Code:** CHEM **Method:**

Case No.: Q1172 **SAS No.:** Q1172

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB166661**						
PB166661BL	PB166661BL	MB	WATER	02/11/2025	50.0	50.0	
PB166661BS	PB166661BS	LCS	WATER	02/11/2025	50.0	50.0	
Q1172-04	PT-TM-WS	SAM	WATER	02/11/2025	50.0	50.0	

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metals
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ANALYSIS RUN LOG

Client: Chemtech Consulting Group **Contract:** CHEM02

Lab code: CHEM **Case no.:** Q1172 **Sas no.:** Q1172 **Sdg no.:** Q1172

Instrument id number: **Method:** **Run number:** LB134731

Start date: 02/14/2025 **End date:** 02/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1031	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1034	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1037	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1040	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1043	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1047	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1050	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1053	Al,Fe
ICV01	ICV01	1	1059	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1103	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1108	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1111	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1129	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1135	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1148	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
PB166661BL	PB166661BL	1	1151	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
PB166661BS	PB166661BS	1	1154	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
Q1172-04	PT-TM-WS	1	1157	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1225	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1232	Ag,Al,As,Ba,Be,Cd,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn