

LAB CHRONICLE

OrderID:	Q2250	OrderDate:	6/5/2025 4:22:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D22,N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2250-05	EB02-060525	Water	Mercury	7470A	06/05/25	06/09/25	06/10/25	06/05/25
			Metals ICP-TAL	6020B		06/09/25	06/11/25	
Q2250-07	EB02-060525	Water	Dissolved ICP-Group2	6020B	06/05/25	06/09/25	06/11/25	06/05/25



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

Hit Summary Sheet
SW-846

SDG No.:	Q2250	Order ID:	Q2250
Client:	JACOBS Engineering Group, Inc.	Project ID:	Former Schlumberger STC PTC Site D386

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : EB02-060525								
Q2250-05	EB02-060525	Water	Aluminum	2.09	J	1.94	20.0	ug/L
Q2250-05	EB02-060525	Water	Barium	0.68	J	0.21	10.0	ug/L
Q2250-05	EB02-060525	Water	Manganese	0.92	J	0.43	1.00	ug/L



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-05	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.
7429-90-5	Aluminum	2.09	J	1	1.94	20.0	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-36-0	Antimony	0.11	U	1	0.11	2.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-38-2	Arsenic	0.089	UN*	1	0.089	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-39-3	Barium	0.68	J	1	0.21	10.0	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-41-7	Beryllium	0.32	U	1	0.32	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-43-9	Cadmium	0.34	U	1	0.34	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-70-2	Calcium	45.7	U	1	45.7	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-47-3	Chromium	0.21	U	1	0.21	2.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-48-4	Cobalt	0.070	U	1	0.070	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-50-8	Copper	0.30	U	1	0.30	2.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-89-6	Iron	7.81	U	1	7.81	50.0	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-92-1	Lead	0.21	U	1	0.21	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-95-4	Magnesium	19.5	U	1	19.5	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-96-5	Manganese	0.92	J	1	0.43	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-97-6	Mercury	0.076	UN	1	0.076	0.20	ug/L	06/09/25 15:15	06/10/25 13:37	7470A	
7440-02-0	Nickel	0.27	U	1	0.27	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-09-7	Potassium	36.4	U	1	36.4	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7782-49-2	Selenium	2.90	U	1	2.90	5.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-22-4	Silver	0.060	UN	1	0.060	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-23-5	Sodium	128	U	1	128	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-28-0	Thallium	0.060	U	1	0.060	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-62-2	Vanadium	0.077	U	1	0.077	5.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-66-6	Zinc	1.25	U	1	1.25	5.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

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:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-07	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.
7439-89-6	Iron	7.81	U	1	7.81	50.0	ug/L	06/09/25 12:20	06/11/25 21:30	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group3			

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: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
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
ICV31	Mercury	4.04	4.0	101	90 - 110	CV	06/10/2025	10:39	LB136079

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

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
CCV17	Mercury	4.62	5.0	92	90 - 110	CV	06/10/2025	10:43	LB136079
CCV18	Mercury	4.87	5.0	98	90 - 110	CV	06/10/2025	11:32	LB136079
CCV19	Mercury	5.40	5.0	108	90 - 110	CV	06/10/2025	12:12	LB136079
CCV20	Mercury	4.67	5.0	93	90 - 110	CV	06/10/2025	12:57	LB136079
CCV21	Mercury	5.40	5.0	108	90 - 110	CV	06/10/2025	13:30	LB136079
CCV22	Mercury	4.85	5.0	97	90 - 110	CV	06/10/2025	14:28	LB136079

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

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	461	500	92	90 - 110	P	06/11/2025	18:48	LB136121
	Antimony	191	200	95	90 - 110	P	06/11/2025	18:48	LB136121
	Arsenic	215	200	107	90 - 110	P	06/11/2025	18:48	LB136121
	Barium	98.7	100	99	90 - 110	P	06/11/2025	18:48	LB136121
	Beryllium	100	100	100	90 - 110	P	06/11/2025	18:48	LB136121
	Cadmium	108	100	108	90 - 110	P	06/11/2025	18:48	LB136121
	Calcium	1960	2000	98	90 - 110	P	06/11/2025	18:48	LB136121
	Chromium	101	100	101	90 - 110	P	06/11/2025	18:48	LB136121
	Cobalt	105	100	105	90 - 110	P	06/11/2025	18:48	LB136121
	Copper	99.0	100	99	90 - 110	P	06/11/2025	18:48	LB136121
	Iron	2000	2000	100	90 - 110	P	06/11/2025	18:48	LB136121
	Lead	186	200	93	90 - 110	P	06/11/2025	18:48	LB136121
	Magnesium	1090	1200	91	90 - 110	P	06/11/2025	18:48	LB136121
	Manganese	100	100	100	90 - 110	P	06/11/2025	18:48	LB136121
	Nickel	112	110	102	90 - 110	P	06/11/2025	18:48	LB136121
	Potassium	1940	2000	97	90 - 110	P	06/11/2025	18:48	LB136121
	Selenium	194	200	97	90 - 110	P	06/11/2025	18:48	LB136121
	Silver	46.7	50.0	93	90 - 110	P	06/11/2025	18:48	LB136121
	Sodium	1900	2000	95	90 - 110	P	06/11/2025	18:48	LB136121
	Thallium	194	210	92	90 - 110	P	06/11/2025	18:48	LB136121
	Vanadium	97.6	100	98	90 - 110	P	06/11/2025	18:48	LB136121
	Zinc	197	200	99	90 - 110	P	06/11/2025	18:48	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

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
LLICV01	Aluminum	16.7	20.0	83	80 - 120	P	06/11/2025	19:00	LB136121
	Antimony	2.00	2.0	100	80 - 120	P	06/11/2025	19:00	LB136121
	Arsenic	1.15	1.0	115	80 - 120	P	06/11/2025	19:00	LB136121
	Barium	9.49	10.0	95	80 - 120	P	06/11/2025	19:00	LB136121
	Beryllium	1.05	1.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Cadmium	1.06	1.0	106	80 - 120	P	06/11/2025	19:00	LB136121
	Calcium	474	500	95	80 - 120	P	06/11/2025	19:00	LB136121
	Chromium	1.84	2.0	92	80 - 120	P	06/11/2025	19:00	LB136121
	Cobalt	0.99	1.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Copper	1.98	2.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Iron	52.6	50.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Lead	0.90	1.0	90	80 - 120	P	06/11/2025	19:00	LB136121
	Magnesium	430	500	86	80 - 120	P	06/11/2025	19:00	LB136121
	Manganese	1.10	1.0	110	80 - 120	P	06/11/2025	19:00	LB136121
	Nickel	1.05	1.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Potassium	485	500	97	80 - 120	P	06/11/2025	19:00	LB136121
	Selenium	5.98	5.0	120	80 - 120	P	06/11/2025	19:00	LB136121
	Silver	1.07	1.0	107	80 - 120	P	06/11/2025	19:00	LB136121
	Sodium	471	500	94	80 - 120	P	06/11/2025	19:00	LB136121
	Thallium	0.88	1.0	88	80 - 120	P	06/11/2025	19:00	LB136121
	Vanadium	4.94	5.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Zinc	5.06	5.0	101	80 - 120	P	06/11/2025	19:00	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250
Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
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	49600	50000	99	90 - 110	P	06/11/2025	19:29	LB136121
	Antimony	523	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Arsenic	483	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Barium	2620	2500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Beryllium	527	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Cadmium	503	500	101	90 - 110	P	06/11/2025	19:29	LB136121
	Calcium	259000	250000	104	90 - 110	P	06/11/2025	19:29	LB136121
	Chromium	466	500	93	90 - 110	P	06/11/2025	19:29	LB136121
	Cobalt	460	500	92	90 - 110	P	06/11/2025	19:29	LB136121
	Copper	4770	5000	95	90 - 110	P	06/11/2025	19:29	LB136121
	Iron	127000	125000	102	90 - 110	P	06/11/2025	19:29	LB136121
	Lead	2650	2500	106	90 - 110	P	06/11/2025	19:29	LB136121
	Magnesium	235000	250000	94	90 - 110	P	06/11/2025	19:29	LB136121
	Manganese	5010	5000	100	90 - 110	P	06/11/2025	19:29	LB136121
	Nickel	483	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Potassium	126000	125000	101	90 - 110	P	06/11/2025	19:29	LB136121
	Selenium	487	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Silver	536	500	107	90 - 110	P	06/11/2025	19:29	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	19:29	LB136121
	Thallium	525	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Vanadium	471	500	94	90 - 110	P	06/11/2025	19:29	LB136121
	Zinc	4650	5000	93	90 - 110	P	06/11/2025	19:29	LB136121
CCV02	Aluminum	50800	50000	102	90 - 110	P	06/11/2025	19:52	LB136121
	Antimony	509	500	102	90 - 110	P	06/11/2025	19:52	LB136121
	Arsenic	493	500	99	90 - 110	P	06/11/2025	19:52	LB136121
	Barium	2560	2500	102	90 - 110	P	06/11/2025	19:52	LB136121
	Beryllium	502	500	100	90 - 110	P	06/11/2025	19:52	LB136121
	Cadmium	485	500	97	90 - 110	P	06/11/2025	19:52	LB136121
	Calcium	248000	250000	99	90 - 110	P	06/11/2025	19:52	LB136121
	Chromium	472	500	94	90 - 110	P	06/11/2025	19:52	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	19:52	LB136121
	Copper	4890	5000	98	90 - 110	P	06/11/2025	19:52	LB136121
	Iron	130000	125000	104	90 - 110	P	06/11/2025	19:52	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	19:52	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250

Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250

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	Magnesium	241000	250000	96	90 - 110	P	06/11/2025	19:52	LB136121
	Manganese	5000	5000	100	90 - 110	P	06/11/2025	19:52	LB136121
	Nickel	490	500	98	90 - 110	P	06/11/2025	19:52	LB136121
	Potassium	128000	125000	102	90 - 110	P	06/11/2025	19:52	LB136121
	Selenium	485	500	97	90 - 110	P	06/11/2025	19:52	LB136121
	Silver	515	500	103	90 - 110	P	06/11/2025	19:52	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	19:52	LB136121
	Thallium	522	500	104	90 - 110	P	06/11/2025	19:52	LB136121
	Vanadium	475	500	95	90 - 110	P	06/11/2025	19:52	LB136121
	Zinc	4650	5000	93	90 - 110	P	06/11/2025	19:52	LB136121
CCV03	Aluminum	49100	50000	98	90 - 110	P	06/11/2025	20:35	LB136121
	Antimony	500	500	100	90 - 110	P	06/11/2025	20:35	LB136121
	Arsenic	486	500	97	90 - 110	P	06/11/2025	20:35	LB136121
	Barium	2510	2500	100	90 - 110	P	06/11/2025	20:35	LB136121
	Beryllium	509	500	102	90 - 110	P	06/11/2025	20:35	LB136121
	Cadmium	479	500	96	90 - 110	P	06/11/2025	20:35	LB136121
	Calcium	253000	250000	101	90 - 110	P	06/11/2025	20:35	LB136121
	Chromium	468	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Cobalt	463	500	93	90 - 110	P	06/11/2025	20:35	LB136121
	Copper	4870	5000	98	90 - 110	P	06/11/2025	20:35	LB136121
	Iron	129000	125000	103	90 - 110	P	06/11/2025	20:35	LB136121
	Lead	2570	2500	103	90 - 110	P	06/11/2025	20:35	LB136121
	Magnesium	233000	250000	93	90 - 110	P	06/11/2025	20:35	LB136121
	Manganese	4980	5000	100	90 - 110	P	06/11/2025	20:35	LB136121
	Nickel	487	500	97	90 - 110	P	06/11/2025	20:35	LB136121
	Potassium	127000	125000	102	90 - 110	P	06/11/2025	20:35	LB136121
	Selenium	471	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Silver	505	500	101	90 - 110	P	06/11/2025	20:35	LB136121
	Sodium	227000	250000	91	90 - 110	P	06/11/2025	20:35	LB136121
	Thallium	521	500	104	90 - 110	P	06/11/2025	20:35	LB136121
CCV04	Vanadium	472	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Zinc	4730	5000	94	90 - 110	P	06/11/2025	20:35	LB136121
	Aluminum	50000	50000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Antimony	495	500	99	90 - 110	P	06/11/2025	21:16	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250
 Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
 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
CCV04	Arsenic	483	500	97	90 - 110	P	06/11/2025	21:16	LB136121
	Barium	2500	2500	100	90 - 110	P	06/11/2025	21:16	LB136121
	Beryllium	512	500	102	90 - 110	P	06/11/2025	21:16	LB136121
	Cadmium	474	500	95	90 - 110	P	06/11/2025	21:16	LB136121
	Calcium	250000	250000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Chromium	471	500	94	90 - 110	P	06/11/2025	21:16	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	21:16	LB136121
	Copper	4900	5000	98	90 - 110	P	06/11/2025	21:16	LB136121
	Iron	128000	125000	103	90 - 110	P	06/11/2025	21:16	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	21:16	LB136121
	Magnesium	235000	250000	94	90 - 110	P	06/11/2025	21:16	LB136121
	Manganese	5030	5000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Nickel	490	500	98	90 - 110	P	06/11/2025	21:16	LB136121
	Potassium	127000	125000	102	90 - 110	P	06/11/2025	21:16	LB136121
	Selenium	469	500	94	90 - 110	P	06/11/2025	21:16	LB136121
	Silver	509	500	102	90 - 110	P	06/11/2025	21:16	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	21:16	LB136121
	Thallium	523	500	105	90 - 110	P	06/11/2025	21:16	LB136121
	Vanadium	476	500	95	90 - 110	P	06/11/2025	21:16	LB136121
	Zinc	4750	5000	95	90 - 110	P	06/11/2025	21:16	LB136121
CCV05	Aluminum	49800	50000	100	90 - 110	P	06/11/2025	21:34	LB136121
	Antimony	511	500	102	90 - 110	P	06/11/2025	21:34	LB136121
	Arsenic	485	500	97	90 - 110	P	06/11/2025	21:34	LB136121
	Barium	2530	2500	101	90 - 110	P	06/11/2025	21:34	LB136121
	Beryllium	513	500	103	90 - 110	P	06/11/2025	21:34	LB136121
	Cadmium	489	500	98	90 - 110	P	06/11/2025	21:34	LB136121
	Calcium	247000	250000	99	90 - 110	P	06/11/2025	21:34	LB136121
	Chromium	468	500	94	90 - 110	P	06/11/2025	21:34	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	21:34	LB136121
	Copper	4920	5000	98	90 - 110	P	06/11/2025	21:34	LB136121
	Iron	128000	125000	103	90 - 110	P	06/11/2025	21:34	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	21:34	LB136121
	Magnesium	234000	250000	94	90 - 110	P	06/11/2025	21:34	LB136121
	Manganese	5030	5000	101	90 - 110	P	06/11/2025	21:34	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

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
CCV05	Nickel	491	500	98	90 - 110	P	06/11/2025	21:34	LB136121
	Potassium	130000	125000	104	90 - 110	P	06/11/2025	21:34	LB136121
	Selenium	482	500	96	90 - 110	P	06/11/2025	21:34	LB136121
	Silver	525	500	105	90 - 110	P	06/11/2025	21:34	LB136121
	Sodium	228000	250000	91	90 - 110	P	06/11/2025	21:34	LB136121
	Thallium	522	500	104	90 - 110	P	06/11/2025	21:34	LB136121
	Vanadium	475	500	95	90 - 110	P	06/11/2025	21:34	LB136121
	Zinc	4830	5000	97	90 - 110	P	06/11/2025	21:34	LB136121



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
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
CRA	Mercury	0.20	0.2	102	70 - 130	CV	06/10/2025	10:56	LB136079
CRI	Aluminum	16.6	20.0	83	70 - 130	P	06/11/2025	19:39	LB136121
	Antimony	1.95	2.0	98	70 - 130	P	06/11/2025	19:39	LB136121
	Arsenic	1.09	1.0	109	70 - 130	P	06/11/2025	19:39	LB136121
	Barium	9.40	10.0	94	70 - 130	P	06/11/2025	19:39	LB136121
	Beryllium	1.03	1.0	103	70 - 130	P	06/11/2025	19:39	LB136121
	Cadmium	0.99	1.0	99	70 - 130	P	06/11/2025	19:39	LB136121
	Calcium	468	500	94	70 - 130	P	06/11/2025	19:39	LB136121
	Chromium	1.98	2.0	99	70 - 130	P	06/11/2025	19:39	LB136121
	Cobalt	1.02	1.0	102	50 - 150	P	06/11/2025	19:39	LB136121
	Copper	2.10	2.0	105	70 - 130	P	06/11/2025	19:39	LB136121
	Iron	51.8	50.0	104	70 - 130	P	06/11/2025	19:39	LB136121
	Lead	0.93	1.0	93	70 - 130	P	06/11/2025	19:39	LB136121
	Magnesium	435	500	87	70 - 130	P	06/11/2025	19:39	LB136121
	Manganese	1.23	1.0	123	50 - 150	P	06/11/2025	19:39	LB136121
	Nickel	1.00	1.0	100	70 - 130	P	06/11/2025	19:39	LB136121
	Potassium	490	500	98	70 - 130	P	06/11/2025	19:39	LB136121
	Selenium	6.05	5.0	121	70 - 130	P	06/11/2025	19:39	LB136121
	Silver	1.02	1.0	102	70 - 130	P	06/11/2025	19:39	LB136121
	Sodium	489	500	98	70 - 130	P	06/11/2025	19:39	LB136121
	Thallium	0.97	1.0	97	70 - 130	P	06/11/2025	19:39	LB136121
	Vanadium	4.87	5.0	97	70 - 130	P	06/11/2025	19:39	LB136121
	Zinc	5.22	5.0	104	50 - 150	P	06/11/2025	19:39	LB136121



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	JACOBS Engineering Group, Inc.				SDG No.:	Q2250				
Contract:	JACO05	Lab Code:	CHEM		Case No.:	Q2250		SAS No.:	Q2250	
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number	
ICB31	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	10:41	LB136079	

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Case No.: Q2250

SAS No.: Q2250

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB17	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	10:48	LB136079
CCB18	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	11:37	LB136079
CCB19	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	12:14	LB136079
CCB20	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	12:59	LB136079
CCB21	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	13:32	LB136079
CCB22	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	14:30	LB136079

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	19:07	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	19:07	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	19:07	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	19:07	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	19:07	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	19:07	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	19:07	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	19:07	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	19:07	LB136121

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2250							
Contract: JACO05	Lab Code: CHEM	Case No.: Q2250	SAS No.: Q2250						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	19:35	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	19:35	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	19:35	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	19:35	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	19:35	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	19:35	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	19:35	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Thallium	0.060	+/-0.5	J	1.00	P	06/11/2025	19:35	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	19:35	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	19:35	LB136121
CCB02	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	19:58	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	19:58	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	19:58	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	19:58	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	19:58	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	19:58	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	19:58	LB136121

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2250							
Contract: JACO05	Lab Code: CHEM	Case No.: Q2250	SAS No.: Q2250						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	19:58	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	19:58	LB136121
CCB03	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	20:41	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	20:41	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	20:41	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	20:41	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	20:41	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	20:41	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	20:41	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	20:41	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	20:41	LB136121
CCB04	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	21:23	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	21:23	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	21:23	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	21:23	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	21:23	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	21:23	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	19.5	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	21:23	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	21:23	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	21:23	LB136121
CCB05	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	21:45	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	21:45	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	21:45	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	21:45	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	21:45	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	21:45	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	21:45	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	21:45	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	21:45	LB136121

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168379BL		WATER		Batch Number:	PB168379		Prep Date:	06/09/2025	
	Mercury	0.076	<0.2	U	0.20	CV	06/10/2025	13:13	LB136079

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168360BL	WATER			Batch Number:	PB168360		Prep Date:	06/09/2025	
	Aluminum	1.94	<10	U	20.0	P	06/11/2025	20:02	LB136121
	Antimony	0.11	<1	U	2.00	P	06/11/2025	20:02	LB136121
	Arsenic	0.089	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Barium	0.21	<5	U	10.0	P	06/11/2025	20:02	LB136121
	Beryllium	0.32	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Cadmium	0.34	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Calcium	45.7	<250	U	500	P	06/11/2025	20:02	LB136121
	Chromium	0.21	<1	U	2.00	P	06/11/2025	20:02	LB136121
	Cobalt	0.070	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Copper	0.30	<1	U	2.00	P	06/11/2025	20:02	LB136121
	Iron	7.81	<25	U	50.0	P	06/11/2025	20:02	LB136121
	Lead	0.21	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Magnesium	19.5	<250	U	500	P	06/11/2025	20:02	LB136121
	Manganese	0.43	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Nickel	0.27	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Potassium	36.4	<250	U	500	P	06/11/2025	20:02	LB136121
	Selenium	2.90	<2.5	U	5.00	P	06/11/2025	20:02	LB136121
	Silver	0.060	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Sodium	128	<250	U	500	P	06/11/2025	20:02	LB136121
	Thallium	0.060	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Vanadium	0.077	<2.5	U	5.00	P	06/11/2025	20:02	LB136121
	Zinc	1.25	<2.5	U	5.00	P	06/11/2025	20:02	LB136121

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
ICS Source: EPA **Instrument ID:** P7

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	93400	100000	93	0	0	06/11/2025	19:10	LB136121
	Antimony	1.10	1.5	73	-2.5	5.5	06/11/2025	19:10	LB136121
	Arsenic	0.34	0.1	340	-1.9	2.1	06/11/2025	19:10	LB136121
	Barium	1.35	1.2	112	-18.8	21.2	06/11/2025	19:10	LB136121
	Beryllium	0.26			-2	2	06/11/2025	19:10	LB136121
	Cadmium	0.23	0.7	33	-1.3	2.7	06/11/2025	19:10	LB136121
	Calcium	102000	100000	102	0	0	06/11/2025	19:10	LB136121
	Chromium	20.3	21.0	97	17	25	06/11/2025	19:10	LB136121
	Cobalt	1.30	1.0	130	-1	3	06/11/2025	19:10	LB136121
	Copper	8.65	8.0	108	4	12	06/11/2025	19:10	LB136121
	Iron	103000	100000	103	0	0	06/11/2025	19:10	LB136121
	Lead	4.17	4.0	104	2	6	06/11/2025	19:10	LB136121
	Magnesium	93800	100000	94	0	0	06/11/2025	19:10	LB136121
	Manganese	7.75	7.0	111	5	9	06/11/2025	19:10	LB136121
	Nickel	5.88	6.0	98	4	8	06/11/2025	19:10	LB136121
	Potassium	106000	100000	106	0	0	06/11/2025	19:10	LB136121
	Selenium	0.94	0.3	313	-9.7	10	06/11/2025	19:10	LB136121
	Silver	0.050			-2	2	06/11/2025	19:10	LB136121
	Sodium	108000	100000	108	0	0	06/11/2025	19:10	LB136121
	Thallium	0.050			-2	2	06/11/2025	19:10	LB136121
	Vanadium	0.19	0.5	38	-9.5	10.5	06/11/2025	19:10	LB136121
	Zinc	10.8	11.0	98	1	21	06/11/2025	19:10	LB136121
ICSAB01	Aluminum	90200	100000	90	0	0	06/11/2025	19:13	LB136121
	Antimony	20.6	22.0	94	18	26	06/11/2025	19:13	LB136121
	Arsenic	21.1	19.0	111	16.2	21.9	06/11/2025	19:13	LB136121
	Barium	20.7	22.0	94	2	42	06/11/2025	19:13	LB136121
	Beryllium	20.3	19.0	107	16.2	21.9	06/11/2025	19:13	LB136121
	Cadmium	20.8	20.0	104	17	23	06/11/2025	19:13	LB136121
	Calcium	102000	100000	102	0	0	06/11/2025	19:13	LB136121
	Chromium	40.4	40.0	101	34	46	06/11/2025	19:13	LB136121
	Cobalt	21.2	20.0	106	17	23	06/11/2025	19:13	LB136121
	Copper	28.2	25.0	113	21	29	06/11/2025	19:13	LB136121
	Iron	102000	100000	102	0	0	06/11/2025	19:13	LB136121
	Lead	25.2	25.0	101	21.3	28.8	06/11/2025	19:13	LB136121
	Magnesium	90700	100000	91	0	0	06/11/2025	19:13	LB136121
	Manganese	27.2	27.0	101	23	31.1	06/11/2025	19:13	LB136121
	Nickel	26.7	24.0	111	20.4	27.6	06/11/2025	19:13	LB136121
	Potassium	102000	100000	102	0	0	06/11/2025	19:13	LB136121
	Selenium	19.8	19.0	104	9	29	06/11/2025	19:13	LB136121
	Silver	20.3	18.0	113	15.3	20.7	06/11/2025	19:13	LB136121
	Sodium	107000	100000	107	0	0	06/11/2025	19:13	LB136121
	Thallium	19.1	21.0	91	17.9	24.2	06/11/2025	19:13	LB136121

Metals

- 4 -

INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
ICS Source: EPA **Instrument ID:** P7

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
ICSAB01	Vanadium	20.1	19.0	106	9	29	06/11/2025	19:13	LB136121
	Zinc	30.6	29.0	106	19	39	06/11/2025	19:13	LB136121



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2250</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2250</u>
matrix:	<u>Water</u>	sample id:	<u>Q2234-01</u>	client id:	<u>MW-17B-55-060425MS</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2234-02</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
Aluminum	ug/L	75 - 125	7550		68.7		10000	75		P
Antimony	ug/L	75 - 125	492		0.39	J	500	98		P
Arsenic	ug/L	75 - 125	0.97	J	0.94	J	500	0	N	P
Barium	ug/L	75 - 125	2620		461		2500	86		P
Beryllium	ug/L	75 - 125	494		1.00	U	500	99		P
Cadmium	ug/L	75 - 125	478		1.00	U	500	96		P
Calcium	ug/L	75 - 125	77700		32000		50000	91		P
Chromium	ug/L	75 - 125	442		0.21	J	500	88		P
Cobalt	ug/L	75 - 125	471		8.11		500	93		P
Copper	ug/L	75 - 125	4710		2.00	U	5000	94		P
Iron	ug/L	75 - 125	26600		6790		25000	79		P
Lead	ug/L	75 - 125	2410		1.00	U	2500	96		P
Magnesium	ug/L	75 - 125	53400		9240		50000	88		P
Manganese	ug/L	75 - 125	5390		621		5000	95		P
Nickel	ug/L	75 - 125	481		12.1		500	94		P
Potassium	ug/L	75 - 125	29800		9030		25000	83		P
Selenium	ug/L	75 - 125	483		5.00	U	500	97		P
Silver	ug/L	75 - 125	82.8		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	56400		8060		50000	97		P
Thallium	ug/L	75 - 125	477		0.22	J	500	95		P
Vanadium	ug/L	75 - 125	458		0.73	J	500	91		P
Zinc	ug/L	75 - 125	4910		5.06		5000	98		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2250</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2250</u>
matrix:	<u>Water</u>	sample id:	<u>Q2234-01</u>	client id:	<u>MW-17B-55-060425MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2234-03</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
Aluminum	ug/L	75 - 125	7550		68.7		10000	75		P
Antimony	ug/L	75 - 125	492		0.39	J	500	98		P
Arsenic	ug/L	75 - 125	0.92	J	0.94	J	500	0	N	P
Barium	ug/L	75 - 125	2650		461		2500	88		P
Beryllium	ug/L	75 - 125	488		1.00	U	500	98		P
Cadmium	ug/L	75 - 125	480		1.00	U	500	96		P
Calcium	ug/L	75 - 125	76600		32000		50000	89		P
Chromium	ug/L	75 - 125	434		0.21	J	500	87		P
Cobalt	ug/L	75 - 125	455		8.11		500	89		P
Copper	ug/L	75 - 125	4750		2.00	U	5000	95		P
Iron	ug/L	75 - 125	26600		6790		25000	79		P
Lead	ug/L	75 - 125	2390		1.00	U	2500	96		P
Magnesium	ug/L	75 - 125	53300		9240		50000	88		P
Manganese	ug/L	75 - 125	5450		621		5000	97		P
Nickel	ug/L	75 - 125	482		12.1		500	94		P
Potassium	ug/L	75 - 125	29800		9030		25000	83		P
Selenium	ug/L	75 - 125	484		5.00	U	500	97		P
Silver	ug/L	75 - 125	82.4		1.00	U	500	16	N	P
Sodium	ug/L	75 - 125	57000		8060		50000	98		P
Thallium	ug/L	75 - 125	487		0.22	J	500	97		P
Vanadium	ug/L	75 - 125	453		0.73	J	500	91		P
Zinc	ug/L	75 - 125	4920		5.06		5000	98		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2250</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2250</u>
matrix:	<u>Water</u>	sample id:	<u>Q2234-08</u>	client id:	<u>MW-17B-55-060425MS</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2234-09</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
Aluminum	ug/L	75 - 125	7720		17.9	J	10000	77		P
Antimony	ug/L	75 - 125	509		0.28	J	500	102		P
Arsenic	ug/L	75 - 125	0.90	J	0.88	J	500	0	N	P
Barium	ug/L	75 - 125	2730		462		2500	91		P
Beryllium	ug/L	75 - 125	498		1.00	U	500	100		P
Cadmium	ug/L	75 - 125	496		1.00	U	500	99		P
Calcium	ug/L	75 - 125	79400		34100		50000	91		P
Chromium	ug/L	75 - 125	454		2.00	U	500	91		P
Cobalt	ug/L	75 - 125	471		8.20		500	92		P
Copper	ug/L	75 - 125	4880		2.00	U	5000	98		P
Iron	ug/L	75 - 125	27300		6980		25000	81		P
Lead	ug/L	75 - 125	2440		1.00	U	2500	98		P
Magnesium	ug/L	75 - 125	55000		9620		50000	91		P
Manganese	ug/L	75 - 125	5630		651		5000	100		P
Nickel	ug/L	75 - 125	496		11.4		500	97		P
Potassium	ug/L	75 - 125	30300		8840		25000	86		P
Selenium	ug/L	75 - 125	493		5.00	U	500	99		P
Silver	ug/L	75 - 125	85.4		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	58100		7570		50000	101		P
Thallium	ug/L	75 - 125	495		0.23	J	500	99		P
Vanadium	ug/L	75 - 125	472		0.27	J	500	94		P
Zinc	ug/L	75 - 125	5070		4.13	J	5000	101		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2250
contract: JACO05 **lab code:** CHEM **case no.:** Q2250 **sas no.:** Q2250
matrix: Water **sample id:** Q2234-08 **client id:** MW-17B-55-060425MSD
Percent Solids for Sample: NA **Spiked ID:** Q2234-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	7600		17.9	J	10000	76		P
Antimony	ug/L	75 - 125	507		0.28	J	500	101		P
Arsenic	ug/L	75 - 125	0.88	J	0.88	J	500	0	N	P
Barium	ug/L	75 - 125	2750		462		2500	91		P
Beryllium	ug/L	75 - 125	495		1.00	U	500	99		P
Cadmium	ug/L	75 - 125	491		1.00	U	500	98		P
Calcium	ug/L	75 - 125	80200		34100		50000	92		P
Chromium	ug/L	75 - 125	446		2.00	U	500	89		P
Cobalt	ug/L	75 - 125	465		8.20		500	91		P
Copper	ug/L	75 - 125	4800		2.00	U	5000	96		P
Iron	ug/L	75 - 125	26900		6980		25000	80		P
Lead	ug/L	75 - 125	2420		1.00	U	2500	97		P
Magnesium	ug/L	75 - 125	54500		9620		50000	90		P
Manganese	ug/L	75 - 125	5480		651		5000	97		P
Nickel	ug/L	75 - 125	490		11.4		500	96		P
Potassium	ug/L	75 - 125	29700		8840		25000	83		P
Selenium	ug/L	75 - 125	496		5.00	U	500	99		P
Silver	ug/L	75 - 125	85.7		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	57200		7570		50000	99		P
Thallium	ug/L	75 - 125	493		0.23	J	500	99		P
Vanadium	ug/L	75 - 125	464		0.27	J	500	93		P
Zinc	ug/L	75 - 125	4940		4.13	J	5000	99		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>JACOBS Engineering Group, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q2250</u>
contract: <u>JACO05</u>	lab code: <u>CHEM</u>	case no.: <u>Q2250</u> sas no.: <u>Q2250</u>
matrix: <u>Water</u>	sample id: <u>Q2237-02</u>	client id: <u>TW-WTS-10MS</u>
Percent Solids for Sample: NA	Spiked ID: Q2237-02MS	Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	5.01		0.20	U	4.0	125	N	CV

metals

- 5a -

MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. level: low sdg no.: Q2250
contract: JACO05 lab code: CHEM case no.: Q2250 sas no.: Q2250
matrix: Water sample id: Q2237-02 client id: TW-WTS-10MSD
Percent Solids for Sample: NA Spiked ID: Q2237-02MSD Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	5.01		0.20	U	4.0	125	N	CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Level:** LOW **Client ID:** MW-17B-55-060425A
Sample ID: Q2234-01 **Spiked ID:** Q2234-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	0.86	J	0.94	J	500	0	N	P
Silver	ug/L	75 - 125	82.0		1.00	U	500	16	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Level:** LOW **Client ID:** MW-17B-55-060425A
Sample ID: Q2234-08 **Spiked ID:** Q2234-08A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	0.91	J	0.88	J	500	0	N	P
Silver	ug/L	75 - 125	84.7		1.00	U	500	17	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Level:** LOW **Client ID:** TW-WTS-10A
Sample ID: Q2237-02 **Spiked ID:** Q2237-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.09		0.20	U	4.00	102		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-01 **Client ID:** MW-17B-55-060425DUP
Percent Solids for Sample: NA **Duplicate ID** Q2234-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	68.7		61.6		11		P
Antimony	ug/L	20	0.39	J	0.35	J	11		P
Arsenic	ug/L	20	0.94	J	0.69	J	31	*	P
Barium	ug/L	20	461		455		1		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	32000		31900		0		P
Chromium	ug/L	20	0.21	J	0.23	J	9		P
Cobalt	ug/L	20	8.11		8.00		1		P
Copper	ug/L	20	2.00	U	2.00	U			P
Iron	ug/L	20	6790		6740		1		P
Lead	ug/L	20	1.00	U	1.00	U			P
Magnesium	ug/L	20	9240		8980		3		P
Manganese	ug/L	20	621		618		0		P
Nickel	ug/L	20	12.1		11.9		2		P
Potassium	ug/L	20	9030		8990		0		P
Selenium	ug/L	20	5.00	U	5.00	U			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	8060		7880		2		P
Thallium	ug/L	20	0.22	J	0.23	J	4		P
Vanadium	ug/L	20	0.73	J	0.68	J	7		P
Zinc	ug/L	20	5.06		5.17		2		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-02 **Client ID:** MW-17B-55-060425MSD
Percent Solids for Sample: NA **Duplicate ID** Q2234-03 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	7550		7550		0		P
Antimony	ug/L	20	492		492		0		P
Arsenic	ug/L	20	0.97	J	0.92	J	5		P
Barium	ug/L	20	2620		2650		1		P
Beryllium	ug/L	20	494		488		1		P
Cadmium	ug/L	20	478		480		0		P
Calcium	ug/L	20	77700		76600		1		P
Chromium	ug/L	20	442		434		2		P
Cobalt	ug/L	20	471		455		3		P
Copper	ug/L	20	4710		4750		1		P
Iron	ug/L	20	26600		26600		0		P
Lead	ug/L	20	2410		2390		1		P
Magnesium	ug/L	20	53400		53300		0		P
Manganese	ug/L	20	5390		5450		1		P
Nickel	ug/L	20	481		482		0		P
Potassium	ug/L	20	29800		29800		0		P
Selenium	ug/L	20	483		484		0		P
Silver	ug/L	20	82.8		82.4		0		P
Sodium	ug/L	20	56400		57000		1		P
Thallium	ug/L	20	477		487		2		P
Vanadium	ug/L	20	458		453		1		P
Zinc	ug/L	20	4910		4920		0		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-08 **Client ID:** MW-17B-55-060425DUP
Percent Solids for Sample: NA **Duplicate ID** Q2234-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	17.9	J	17.4	J	3		P
Antimony	ug/L	20	0.28	J	0.29	J	4		P
Arsenic	ug/L	20	0.88	J	0.88	J	0		P
Barium	ug/L	20	462		471		2		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	34100		35000		3		P
Chromium	ug/L	20	2.00	U	2.00	U			P
Cobalt	ug/L	20	8.20		8.24		0		P
Copper	ug/L	20	2.00	U	2.00	U			P
Iron	ug/L	20	6980		7010		0		P
Lead	ug/L	20	1.00	U	1.00	U			P
Magnesium	ug/L	20	9620		9680		1		P
Manganese	ug/L	20	651		653		0		P
Nickel	ug/L	20	11.4		11.8		3		P
Potassium	ug/L	20	8840		8810		0		P
Selenium	ug/L	20	5.00	U	5.00	U			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	7570		7800		3		P
Thallium	ug/L	20	0.23	J	0.22	J	4		P
Vanadium	ug/L	20	0.27	J	0.26	J	4		P
Zinc	ug/L	20	4.13	J	4.18	J	1		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-09 **Client ID:** MW-17B-55-060425MSD
Percent Solids for Sample: NA **Duplicate ID** Q2234-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	7720		7600		2		P
Antimony	ug/L	20	509		507		0		P
Arsenic	ug/L	20	0.90	J	0.88	J	2		P
Barium	ug/L	20	2730		2750		1		P
Beryllium	ug/L	20	498		495		1		P
Cadmium	ug/L	20	496		491		1		P
Calcium	ug/L	20	79400		80200		1		P
Chromium	ug/L	20	454		446		2		P
Cobalt	ug/L	20	471		465		1		P
Copper	ug/L	20	4880		4800		2		P
Iron	ug/L	20	27300		26900		1		P
Lead	ug/L	20	2440		2420		1		P
Magnesium	ug/L	20	55000		54500		1		P
Manganese	ug/L	20	5630		5480		3		P
Nickel	ug/L	20	496		490		1		P
Potassium	ug/L	20	30300		29700		2		P
Selenium	ug/L	20	493		496		1		P
Silver	ug/L	20	85.4		85.7		0		P
Sodium	ug/L	20	58100		57200		2		P
Thallium	ug/L	20	495		493		0		P
Vanadium	ug/L	20	472		464		2		P
Zinc	ug/L	20	5070		4940		3		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2250</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2250</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2237-02</u>	Client ID:	<u>TW-WTS-10DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2237-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2250</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2250</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2237-02MS</u>	Client ID:	<u>TW-WTS-10MSD</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2237-02MSD	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	5.01		5.01		0		CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168360BS							
Aluminum	ug/L	10000	8600		86	80 - 120	P
Antimony	ug/L	500	513		103	80 - 120	P
Arsenic	ug/L	500	502		100	80 - 120	P
Barium	ug/L	2500	2530		101	80 - 120	P
Beryllium	ug/L	500	504		101	80 - 120	P
Cadmium	ug/L	500	509		102	80 - 120	P
Calcium	ug/L	50000	49300		99	80 - 120	P
Chromium	ug/L	500	471		94	80 - 120	P
Cobalt	ug/L	500	471		94	80 - 120	P
Copper	ug/L	5000	5030		101	80 - 120	P
Iron	ug/L	25000	23800		95	80 - 120	P
Lead	ug/L	2500	2540		102	80 - 120	P
Magnesium	ug/L	50000	47800		96	80 - 120	P
Manganese	ug/L	5000	5050		101	80 - 120	P
Nickel	ug/L	500	501		100	80 - 120	P
Potassium	ug/L	25000	25000		100	80 - 120	P
Selenium	ug/L	500	496		99	80 - 120	P
Silver	ug/L	500	493		99	80 - 120	P
Sodium	ug/L	50000	51800		104	80 - 120	P
Thallium	ug/L	500	502		100	80 - 120	P
Vanadium	ug/L	500	469		94	80 - 120	P
Zinc	ug/L	5000	5090		102	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Case No.: Q2250

SAS No.: Q2250

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168379BS Mercury	ug/L	4.0	4.27		107	80 - 120	CV

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

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	1800	100		100		100		100		100	
S2	S2	1807	100		104		100		100		101	
S3	S3	1814	104		105		103		104		103	
S4	S4	1818	103		105		103		102		103	
S5	S5	1821	103		103		101		99		102	
S6	S6	1824	102		101		103		101		107	
S7	S7	1827	100		101		103		99		107	
S8	S8	1830	101		105		103		96		104	
ICV01	ICV01	1848	97		103		103		103		104	
LLICV01	LLICV01	1900	96		105		104		103		102	
ICB01	ICB01	1907	96		103		104		102		103	
ICSA01	ICSA01	1910	97		104		103		101		107	
ICSAB01	ICSAB01	1913	96		103		105		101		110	
CCV01	CCV01	1929	93		102		103		98		104	
CCB01	CCB01	1935	97		104		105		103		105	
CRI	CRI	1939	97		103		104		103		105	
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	103		109		108		102		110	
CCB02	CCB02	1958	99		104		106		104		106	
PB168360BL	PB168360BL	2002	99		104		106		105		108	
PB168360BS	PB168360BS	2005	100		107		108		104		110	
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-0	2012	104		118		119		118		121	
Q2234-01L	MW-17B-55-0	2016	96		109		110		109		112	
Q2234-02	MW-17B-55-0	2019	104		120		120		114		122	
Q2234-03	MW-17B-55-0	2022	104		117		119		117		121	
Q2234-01A	MW-17B-55-0	2025	103		118		120		115		122	
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	95		107		110		102		113	
CCB03	CCB03	2041	95		103		106		105		108	
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										
Q2234-08DUP	MW-17B-55-0	2051	105		119		121		117		122	
Q2234-08L	MW-17B-55-0	2054	93		108		110		108		112	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

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
Q2234-09	MW-17B-55-0	2057	105		121		121		117		122	
Q2234-10	MW-17B-55-0	2100	104		117		120		114		121	
Q2234-08A	MW-17B-55-0	2103	104		117		122		117		124	
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	93		108		112		104		115	
CCB04	CCB04	2123	93		107		109		108		110	
Q2250-05	EB02-060525	2127	103		120		122		123		126	
Q2250-07	EB02-060525	2130	101		118		121		119		124	
CCV05	CCV05	2134	93		109		108		102		111	
CCB05	CCB05	2145	91		106		109		107		110	

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1800	100		100		100		100		100	
S2	S2	1807	101		100		100		99		101	
S3	S3	1814	103		102		102		105		104	
S4	S4	1818	100		100		100		103		101	
S5	S5	1821	100		100		99		103		104	
S6	S6	1824	102		100		99		104		103	
S7	S7	1827	102		103		100		106		107	
S8	S8	1830	103		102		95		105		105	
ICV01	ICV01	1848	102		103		103		105		105	
LLICV01	LLICV01	1900	101		103		103		105		104	
ICB01	ICB01	1907	101		102		103		104		105	
ICSA01	ICSA01	1910	101		102		100		105		106	
ICSAB01	ICSAB01	1913	101		102		100		106		106	
CCV01	CCV01	1929	104		104		98		106		106	
CCB01	CCB01	1935	101		103		103		104		105	
CRI	CRI	1939	100		103		103		104		104	
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	106		107		100		107		109	
CCB02	CCB02	1958	103		104		104		105		105	
PB168360BL	PB168360BL	2002	102		104		104		105		106	
PB168360BS	PB168360BS	2005	105		105		103		109		109	
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-0	2012	114		116		115		117		118	
Q2234-01L	MW-17B-55-0	2016	105		108		107		108		109	
Q2234-02	MW-17B-55-0	2019	114		114		112		117		117	
Q2234-03	MW-17B-55-0	2022	113		115		112		117		116	
Q2234-01A	MW-17B-55-0	2025	114		115		113		118		118	
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	105		106		100		108		109	
CCB03	CCB03	2041	102		104		103		105		106	
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										
Q2234-08DUP	MW-17B-55-0	2051	114		117		115		119		120	
Q2234-08L	MW-17B-55-0	2054	105		109		108		110		110	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
Q2234-09	MW-17B-55-0	2057	113		116		113		119		119	
Q2234-10	MW-17B-55-0	2100	115		115		113		118		118	
Q2234-08A	MW-17B-55-0	2103	115		116		113		119		118	
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	106		109		103		109		111	
CCB04	CCB04	2123	105		106		107		110		110	
Q2250-05	EB02-060525	2127	115		119		118		118		121	
Q2250-07	EB02-060525	2130	113		118		116		117		120	
CCV05	CCV05	2134	106		109		102		109		111	
CCB05	CCB05	2145	104		107		106		109		108	

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

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	1800	100		100							
S2	S2	1807	99		101							
S3	S3	1814	103		105							
S4	S4	1818	102		105							
S5	S5	1821	105		105							
S6	S6	1824	105		106							
S7	S7	1827	106		105							
S8	S8	1830	105		98							
ICV01	ICV01	1848	103		104							
LLICV01	LLICV01	1900	105		104							
ICB01	ICB01	1907	101		103							
ICSA01	ICSA01	1910	105		103							
ICSAB01	ICSAB01	1913	108		106							
CCV01	CCV01	1929	104		99							
CCB01	CCB01	1935	105		104							
CRI	CRI	1939	105		104							
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	111		104							
CCB02	CCB02	1958	106		104							
PB168360BL	PB168360BL	2002	109		107							
PB168360BS	PB168360BS	2005	109		107							
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-06	2012	119		117							
Q2234-01L	MW-17B-55-06	2016	110		110							
Q2234-02	MW-17B-55-06	2019	122		117							
Q2234-03	MW-17B-55-06	2022	123		117							
Q2234-01A	MW-17B-55-06	2025	120		118							
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	112		105							
CCB03	CCB03	2041	108		107							
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
Q2234-08DUP	MW-17B-55-06	2051	123		121							
Q2234-08L	MW-17B-55-06	2054	111		110							
Q2234-09	MW-17B-55-06	2057	124		120							
Q2234-10	MW-17B-55-06	2100	122		119							
Q2234-08A	MW-17B-55-06	2103	123		120							
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	114		106							
CCB04	CCB04	2123	110		109							
Q2250-05	EB02-060525	2127	125		124							
Q2250-07	EB02-060525	2130	122		121							
CCV05	CCV05	2134	113		104							
CCB05	CCB05	2145	110		107							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1800	100									
S2	S2	1807	100									
S3	S3	1814	103									
S4	S4	1818	103									
S5	S5	1821	103									
S6	S6	1824	102									
S7	S7	1827	103									
S8	S8	1830	95									
ICV01	ICV01	1848	104									
LLICV01	LLICV01	1900	103									
ICB01	ICB01	1907	103									
ICSA01	ICSA01	1910	102									
ICSAB01	ICSAB01	1913	103									
CCV01	CCV01	1929	98									
CCB01	CCB01	1935	103									
CRI	CRI	1939	103									
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	101									
CCB02	CCB02	1958	104									
PB168360BL	PB168360BL	2002	105									
PB168360BS	PB168360BS	2005	104									
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-06	2012	115									
Q2234-01L	MW-17B-55-06	2016	108									
Q2234-02	MW-17B-55-06	2019	113									
Q2234-03	MW-17B-55-06	2022	114									
Q2234-01A	MW-17B-55-06	2025	114									
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	100									
CCB03	CCB03	2041	105									
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
Q2234-08DUP	MW-17B-55-06	2051	117									
Q2234-08L	MW-17B-55-06	2054	109									
Q2234-09	MW-17B-55-06	2057	115									
Q2234-10	MW-17B-55-06	2100	115									
Q2234-08A	MW-17B-55-06	2103	114									
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	103									
CCB04	CCB04	2123	107									
Q2250-05	EB02-060525	2127	118									
Q2250-07	EB02-060525	2130	116									
CCV05	CCV05	2134	101									
CCB05	CCB05	2145	107									

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

MW-17B-55-060425L

Lab Name: Chemtech Consulting Group

Contract: JAC005

Lab Code: CHEM **Lb No.:** lb136121 **Lab Sample ID :** Q2234-01L **SDG No.:** Q2250

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			
Aluminum	68.7		59.1	J	14		P
Antimony	0.39	J	10.0	U	100.0		P
Arsenic	0.94	J	0.80	J	15		P
Barium	461		447		3		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	32000		29700		7		P
Chromium	0.21	J	10.0	U	100.0		P
Cobalt	8.11		7.95		2		P
Copper	2.00	U	10.0	U			P
Iron	6790		6620		3		P
Lead	1.00	U	5.00	U			P
Magnesium	9240		8020		13		P
Manganese	621		614		1		P
Nickel	12.1		11.5		5		P
Potassium	9030		8340		8		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	8060		7030		13		P
Thallium	0.22	J	5.00	U	100.0		P
Vanadium	0.73	J	0.60	J	18		P
Zinc	5.06		25.0	U	100.0		P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

MW-17B-55-060425L

Lab Name: Chemtech Consulting Group

Contract: JACO05

Lab Code: CHEM Lb No.: lb136121 Lab Sample ID : Q2234-08L SDG No.: Q2250

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	17.9	J	22.6	J	26		P
Antimony	0.28	J	10.0	U	100.0		P
Arsenic	0.88	J	0.85	J	3		P
Barium	462		457		1		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	34100		34200		1		P
Chromium	2.00	U	10.0	U			P
Cobalt	8.20		8.10		1		P
Copper	2.00	U	10.0	U			P
Iron	6980		6960		0		P
Lead	1.00	U	5.00	U			P
Magnesium	9620		8770		9		P
Manganese	651		649		0		P
Nickel	11.4		11.7		3		P
Potassium	8840		8170		8		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	7570		6800		10		P
Thallium	0.23	J	0.30	J	30		P
Vanadium	0.27	J	25.0	U	100.0		P
Zinc	4.13	J	25.0	U	100.0		P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TW-WTS-10L

Lab Name: Chemtech Consulting Group **Contract:** JACO05
Lab Code: CHEM **Lb No.:** lb136079 **Lab Sample ID :** Q2237-02L **SDG No.:** Q2250
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
Mercury	0.20 U	1.00 U			CV



METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Method:

Case No.: Q2250 **SAS No.:** Q2250

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168360							
PB168360BL	PB168360BL	MB	WATER	06/09/2025	50.0	50.0	
PB168360BS	PB168360BS	LCS	WATER	06/09/2025	50.0	50.0	
Q2234-01DUP	MW-17B-55-060425DUP	DUP	WATER	06/09/2025	50.0	50.0	
Q2234-02	MW-17B-55-060425MS	MS	WATER	06/09/2025	50.0	50.0	
Q2234-03	MW-17B-55-060425MSD	MSD	WATER	06/09/2025	50.0	50.0	
Q2234-08DUP	MW-17B-55-060425DUP	DUP	WATER	06/09/2025	50.0	50.0	
Q2234-09	MW-17B-55-060425MS	MS	WATER	06/09/2025	50.0	50.0	
Q2234-10	MW-17B-55-060425MSD	MSD	WATER	06/09/2025	50.0	50.0	
Q2250-05	EB02-060525	SAM	WATER	06/09/2025	50.0	50.0	
Q2250-07	EB02-060525	SAM	WATER	06/09/2025	50.0	50.0	

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Method: _____

Case No.: Q2250

SAS No.: Q2250

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168379							
PB168379BL	PB168379BL	MB	WATER	06/09/2025	30.0	30.0	
PB168379BS	PB168379BS	LCS	WATER	06/09/2025	30.0	30.0	
Q2237-02DUP	TW-WTS-10DUP	DUP	WATER	06/09/2025	30.0	30.0	
Q2237-02MS	TW-WTS-10MS	MS	WATER	06/09/2025	30.0	30.0	
Q2237-02MSD	TW-WTS-10MSD	MSD	WATER	06/09/2025	30.0	30.0	
Q2250-05	EB02-060525	SAM	WATER	06/09/2025	30.0	30.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** Q2250 **Sas no.:** Q2250

Sdg no.: Q2250

Instrument id number: **Method:**

Run number: LB136079

Start date: 06/10/2025 **End date:** 06/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1008	HG
S0.2	S0.2	1	1010	HG
S2.5	S2.5	1	1013	HG
S5	S5	1	1015	HG
S7.5	S7.5	1	1020	HG
S10	S10	1	1030	HG
ICV31	ICV31	1	1039	HG
ICB31	ICB31	1	1041	HG
CCV17	CCV17	1	1043	HG
CCB17	CCB17	1	1048	HG
CRA	CRA	1	1056	HG
CCV18	CCV18	1	1132	HG
CCB18	CCB18	1	1137	HG
CCV19	CCV19	1	1212	HG
CCB19	CCB19	1	1214	HG
CCV20	CCV20	1	1257	HG
CCB20	CCB20	1	1259	HG
PB168379BL	PB168379BL	1	1313	HG
PB168379BS	PB168379BS	1	1318	HG
Q2237-02DUP	TW-WTS-10DUP	1	1323	HG
Q2237-02MS	TW-WTS-10MS	1	1325	HG
CCV21	CCV21	1	1330	HG
CCB21	CCB21	1	1332	HG
Q2237-02MSD	TW-WTS-10MSD	1	1335	HG
Q2250-05	EB02-060525	1	1337	HG
Q2237-02L	TW-WTS-10L	5	1400	HG
Q2237-02A	TW-WTS-10A	1	1405	HG
CCV22	CCV22	1	1428	HG
CCB22	CCB22	1	1430	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** Q2250

Sas no.: Q2250

Sdg no.: Q2250

Instrument id number: **Method:**

Run number: LB136121

Start date: 06/11/2025 **End date:** 06/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1800	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1807	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1814	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1818	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1821	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1824	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1827	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1830	Fe,Al,Ca,K,Mg,Na
ICV01	ICV01	1	1848	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1900	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1907	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1910	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1913	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1929	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1935	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1939	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1952	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1958	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168360BL	PB168360BL	1	2002	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168360BS	PB168360BS	1	2005	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-01DUP	MW-17B-55-060425DUP	1	2012	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-01L	MW-17B-55-060425L	5	2016	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-02	MW-17B-55-060425MS	1	2019	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-03	MW-17B-55-060425MSD	1	2022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-01A	MW-17B-55-060425A	1	2025	Ag,As
CCV03	CCV03	1	2035	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	2041	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-08DUP	MW-17B-55-060425DUP	1	2051	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-08L	MW-17B-55-060425L	5	2054	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-09	MW-17B-55-060425MS	1	2057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-10	MW-17B-55-060425MSD	1	2100	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-08A	MW-17B-55-060425A	1	2103	Ag,As
CCV04	CCV04	1	2116	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2123	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2250-05	EB02-060525	1	2127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2250-07	EB02-060525	1	2130	Fe
CCV05	CCV05	1	2134	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2145	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn