

LAB CHRONICLE

OrderID:	Q2008	OrderDate:	5/9/2025 3:21:23 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ 2025
Contact:	Mary I. Murphy	Location:	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2008-01	IDW-AQ-DRUM-633-0 5092025	Water			05/09/25			05/09/25
			Mercury	7470A		05/13/25	05/14/25	
			Metals ICP-TAL	6010D		05/12/25	05/14/25	

Hit Summary Sheet SW-846

SDG No.: Q2008

Order ID: Q2008

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ 20

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : IDW-AQ-DRUM-633-05092025									
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Aluminum	5450		5.67	40.0	50.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Arsenic	2.66	J	2.56	7.50	10.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Barium	104		7.28	12.5	50.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Beryllium	2.42	J	0.28	0.75	3.00	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Calcium	64100		117	250	1000	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Chromium	50.2		1.06	2.50	5.00	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Cobalt	45.4		1.13	3.75	15.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Copper	156		2.30	8.00	10.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Iron	118000		11.7	40.0	50.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Magnesium	16100		122	250	1000	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Manganese	7830		2.97	7.50	10.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Mercury	0.082	J	0.076	0.16	0.20	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Nickel	98.9		1.53	5.00	20.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Potassium	32200		459	800	1000	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Silver	1.92	J	0.81	2.50	5.00	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Sodium	1100000		434	500	1000	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Thallium	5.02	J	2.19	10.0	20.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Vanadium	73.8		3.13	10.0	20.0	ug/L
Q2008-01	IDW-AQ-DRUM-633-05092025	Water	Zinc	518		8.33	7.50	20.0	ug/L



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	05/09/25
Project:	Former Schlumberger Site Princeton NJ 2025	Date Received:	05/09/25
Client Sample ID:	IDW-AQ-DRUM-633-05092025	SDG No.:	Q2008
Lab Sample ID:	Q2008-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5450		1	5.67	40.0	50.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-36-0	Antimony	6.25	U	1	3.38	6.25	25.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-38-2	Arsenic	2.66	J	1	2.56	7.50	10.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-39-3	Barium	104		1	7.28	12.5	50.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-41-7	Beryllium	2.42	J	1	0.28	0.75	3.00	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-43-9	Cadmium	0.75	U	1	0.25	0.75	3.00	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-70-2	Calcium	64100		1	117	250	1000	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-47-3	Chromium	50.2		1	1.06	2.50	5.00	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-48-4	Cobalt	45.4		1	1.13	3.75	15.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-50-8	Copper	156		1	2.30	8.00	10.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7439-89-6	Iron	118000		1	11.7	40.0	50.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7439-92-1	Lead	4.80	U	1	1.15	4.80	6.00	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7439-95-4	Magnesium	16100		1	122	250	1000	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7439-96-5	Manganese	7830		1	2.97	7.50	10.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7439-97-6	Mercury	0.082	JN	1	0.076	0.16	0.20	ug/L	05/13/25 09:49	05/14/25 14:18	7470A	
7440-02-0	Nickel	98.9		1	1.53	5.00	20.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-09-7	Potassium	32200		1	459	800	1000	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7782-49-2	Selenium	8.00	U	1	4.82	8.00	10.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-22-4	Silver	1.92	J	1	0.81	2.50	5.00	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-23-5	Sodium	1100000		1	434	500	1000	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-28-0	Thallium	5.02	J	1	2.19	10.0	20.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-62-2	Vanadium	73.8		1	3.13	10.0	20.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010
7440-66-6	Zinc	518		1	8.33	7.50	20.0	ug/L	05/12/25 10:15	05/14/25 15:09	6010D	SW3010

Color Before: Colorless

Clarity Before: Cloudy

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



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
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
ICV08	Mercury	3.70	4.0	93	90 - 110	CV	05/14/2025	11:42	LB135763

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

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
CCV22	Mercury	4.97	5.0	100	90 - 110	CV	05/14/2025	11:46	LB135763
CCV23	Mercury	5.44	5.0	109	90 - 110	CV	05/14/2025	12:24	LB135763
CCV24	Mercury	5.50	5.0	110	90 - 110	CV	05/14/2025	12:51	LB135763
CCV25	Mercury	4.82	5.0	96	90 - 110	CV	05/14/2025	13:28	LB135763
CCV26	Mercury	5.14	5.0	103	90 - 110	CV	05/14/2025	13:55	LB135763
CCV27	Mercury	4.71	5.0	94	90 - 110	CV	05/14/2025	14:23	LB135763
CCV28	Mercury	4.80	5.0	96	90 - 110	CV	05/14/2025	14:39	LB135763
CCV29	Mercury	5.15	5.0	103	90 - 110	CV	05/14/2025	14:57	LB135763

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2350	2500	94	90 - 110	P	05/14/2025	13:24	LB135778
	Antimony	990	1000	99	90 - 110	P	05/14/2025	13:24	LB135778
	Arsenic	984	1000	98	90 - 110	P	05/14/2025	13:24	LB135778
	Barium	487	520	94	90 - 110	P	05/14/2025	13:24	LB135778
	Beryllium	497	510	98	90 - 110	P	05/14/2025	13:24	LB135778
	Cadmium	489	510	96	90 - 110	P	05/14/2025	13:24	LB135778
	Calcium	9150	10000	92	90 - 110	P	05/14/2025	13:24	LB135778
	Chromium	508	520	98	90 - 110	P	05/14/2025	13:24	LB135778
	Cobalt	482	520	93	90 - 110	P	05/14/2025	13:24	LB135778
	Copper	504	510	99	90 - 110	P	05/14/2025	13:24	LB135778
	Iron	10300	10000	104	90 - 110	P	05/14/2025	13:24	LB135778
	Lead	962	1000	96	90 - 110	P	05/14/2025	13:24	LB135778
	Magnesium	5880	6000	98	90 - 110	P	05/14/2025	13:24	LB135778
	Manganese	471	520	91	90 - 110	P	05/14/2025	13:24	LB135778
	Nickel	484	530	91	90 - 110	P	05/14/2025	13:24	LB135778
	Potassium	10700	9900	108	90 - 110	P	05/14/2025	13:24	LB135778
	Selenium	1010	1000	101	90 - 110	P	05/14/2025	13:24	LB135778
	Silver	272	250	109	90 - 110	P	05/14/2025	13:24	LB135778
	Sodium	10500	10000	105	90 - 110	P	05/14/2025	13:24	LB135778
	Thallium	1010	1000	101	95 - 105	P	05/14/2025	13:24	LB135778
	Vanadium	460	500	92	90 - 110	P	05/14/2025	13:24	LB135778
	Zinc	1010	1000	101	90 - 110	P	05/14/2025	13:24	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	100	100	100	80 - 120	P	05/14/2025	13:34	LB135778
	Antimony	52.2	50.0	104	80 - 120	P	05/14/2025	13:34	LB135778
	Arsenic	19.8	20.0	99	80 - 120	P	05/14/2025	13:34	LB135778
	Barium	92.3	100	92	80 - 120	P	05/14/2025	13:34	LB135778
	Beryllium	6.20	6.0	103	80 - 120	P	05/14/2025	13:34	LB135778
	Cadmium	6.13	6.0	102	80 - 120	P	05/14/2025	13:34	LB135778
	Calcium	2030	2000	102	80 - 120	P	05/14/2025	13:34	LB135778
	Chromium	9.42	10.0	94	80 - 120	P	05/14/2025	13:34	LB135778
	Cobalt	28.7	30.0	96	80 - 120	P	05/14/2025	13:34	LB135778
	Copper	22.6	20.0	113	80 - 120	P	05/14/2025	13:34	LB135778
	Iron	93.7	100	94	80 - 120	P	05/14/2025	13:34	LB135778
	Lead	12.3	12.0	103	80 - 120	P	05/14/2025	13:34	LB135778
	Magnesium	2080	2000	104	80 - 120	P	05/14/2025	13:34	LB135778
	Manganese	20.9	20.0	105	80 - 120	P	05/14/2025	13:34	LB135778
	Nickel	39.1	40.0	98	80 - 120	P	05/14/2025	13:34	LB135778
	Potassium	1890	2000	95	80 - 120	P	05/14/2025	13:34	LB135778
	Selenium	23.4	20.0	117	80 - 120	P	05/14/2025	13:34	LB135778
	Silver	9.52	10.0	95	80 - 120	P	05/14/2025	13:34	LB135778
	Sodium	1880	2000	94	80 - 120	P	05/14/2025	13:34	LB135778
	Thallium	39.9	40.0	100	80 - 120	P	05/14/2025	13:34	LB135778
	Vanadium	40.8	40.0	102	80 - 120	P	05/14/2025	13:34	LB135778
	Zinc	41.6	40.0	104	80 - 120	P	05/14/2025	13:34	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9980	10000	100	90 - 110	P	05/14/2025	14:51	LB135778
	Antimony	4930	5000	99	90 - 110	P	05/14/2025	14:51	LB135778
	Arsenic	4860	5000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Barium	9640	10000	96	90 - 110	P	05/14/2025	14:51	LB135778
	Beryllium	243	250	97	90 - 110	P	05/14/2025	14:51	LB135778
	Cadmium	2410	2500	96	90 - 110	P	05/14/2025	14:51	LB135778
	Calcium	24400	25000	98	90 - 110	P	05/14/2025	14:51	LB135778
	Chromium	979	1000	98	90 - 110	P	05/14/2025	14:51	LB135778
	Cobalt	2430	2500	97	90 - 110	P	05/14/2025	14:51	LB135778
	Copper	1230	1250	99	90 - 110	P	05/14/2025	14:51	LB135778
	Iron	4840	5000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Lead	4840	5000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Magnesium	24000	25000	96	90 - 110	P	05/14/2025	14:51	LB135778
	Manganese	2450	2500	98	90 - 110	P	05/14/2025	14:51	LB135778
	Nickel	2430	2500	97	90 - 110	P	05/14/2025	14:51	LB135778
	Potassium	24400	25000	97	90 - 110	P	05/14/2025	14:51	LB135778
	Selenium	4900	5000	98	90 - 110	P	05/14/2025	14:51	LB135778
	Silver	1220	1250	97	90 - 110	P	05/14/2025	14:51	LB135778
	Sodium	24800	25000	99	90 - 110	P	05/14/2025	14:51	LB135778
	Thallium	5040	5000	101	90 - 110	P	05/14/2025	14:51	LB135778
	Vanadium	2470	2500	99	90 - 110	P	05/14/2025	14:51	LB135778
	Zinc	2450	2500	98	90 - 110	P	05/14/2025	14:51	LB135778
CCV02	Aluminum	9710	10000	97	90 - 110	P	05/14/2025	15:53	LB135778
	Antimony	5020	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Arsenic	4980	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Barium	9410	10000	94	90 - 110	P	05/14/2025	15:53	LB135778
	Beryllium	229	250	92	90 - 110	P	05/14/2025	15:53	LB135778
	Cadmium	2430	2500	97	90 - 110	P	05/14/2025	15:53	LB135778
	Calcium	23700	25000	95	90 - 110	P	05/14/2025	15:53	LB135778
	Chromium	977	1000	98	90 - 110	P	05/14/2025	15:53	LB135778
	Cobalt	2440	2500	98	90 - 110	P	05/14/2025	15:53	LB135778
	Copper	1250	1250	100	90 - 110	P	05/14/2025	15:53	LB135778
	Iron	5010	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Lead	4880	5000	98	90 - 110	P	05/14/2025	15:53	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	23200	25000	93	90 - 110	P	05/14/2025	15:53	LB135778
	Manganese	2360	2500	94	90 - 110	P	05/14/2025	15:53	LB135778
	Nickel	2440	2500	98	90 - 110	P	05/14/2025	15:53	LB135778
	Potassium	25300	25000	101	90 - 110	P	05/14/2025	15:53	LB135778
	Selenium	5010	5000	100	90 - 110	P	05/14/2025	15:53	LB135778
	Silver	1210	1250	97	90 - 110	P	05/14/2025	15:53	LB135778
	Sodium	26200	25000	105	90 - 110	P	05/14/2025	15:53	LB135778
	Thallium	5080	5000	102	90 - 110	P	05/14/2025	15:53	LB135778
	Vanadium	2410	2500	96	90 - 110	P	05/14/2025	15:53	LB135778
	Zinc	2450	2500	98	90 - 110	P	05/14/2025	15:53	LB135778
CCV03	Aluminum	9750	10000	98	90 - 110	P	05/14/2025	16:44	LB135778
	Antimony	4910	5000	98	90 - 110	P	05/14/2025	16:44	LB135778
	Arsenic	4820	5000	96	90 - 110	P	05/14/2025	16:44	LB135778
	Barium	9260	10000	93	90 - 110	P	05/14/2025	16:44	LB135778
	Beryllium	240	250	96	90 - 110	P	05/14/2025	16:44	LB135778
	Cadmium	2390	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Calcium	23700	25000	95	90 - 110	P	05/14/2025	16:44	LB135778
	Chromium	988	1000	99	90 - 110	P	05/14/2025	16:44	LB135778
	Cobalt	2400	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Copper	1220	1250	98	90 - 110	P	05/14/2025	16:44	LB135778
	Iron	4820	5000	96	90 - 110	P	05/14/2025	16:44	LB135778
	Lead	4800	5000	96	90 - 110	P	05/14/2025	16:44	LB135778
	Magnesium	23400	25000	94	90 - 110	P	05/14/2025	16:44	LB135778
	Manganese	2350	2500	94	90 - 110	P	05/14/2025	16:44	LB135778
	Nickel	2400	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Potassium	24400	25000	98	90 - 110	P	05/14/2025	16:44	LB135778
	Selenium	4840	5000	97	90 - 110	P	05/14/2025	16:44	LB135778
	Silver	1210	1250	97	90 - 110	P	05/14/2025	16:44	LB135778
	Sodium	25200	25000	101	90 - 110	P	05/14/2025	16:44	LB135778
	Thallium	4970	5000	99	90 - 110	P	05/14/2025	16:44	LB135778
	Vanadium	2400	2500	96	90 - 110	P	05/14/2025	16:44	LB135778
	Zinc	2450	2500	98	90 - 110	P	05/14/2025	16:44	LB135778
CCV04	Aluminum	9660	10000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Antimony	4880	5000	98	90 - 110	P	05/14/2025	18:08	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4830	5000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Barium	9330	10000	93	90 - 110	P	05/14/2025	18:08	LB135778
	Beryllium	231	250	92	90 - 110	P	05/14/2025	18:08	LB135778
	Cadmium	2420	2500	97	90 - 110	P	05/14/2025	18:08	LB135778
	Calcium	23800	25000	95	90 - 110	P	05/14/2025	18:08	LB135778
	Chromium	995	1000	100	90 - 110	P	05/14/2025	18:08	LB135778
	Cobalt	2420	2500	97	90 - 110	P	05/14/2025	18:08	LB135778
	Copper	1220	1250	98	90 - 110	P	05/14/2025	18:08	LB135778
	Iron	4990	5000	100	90 - 110	P	05/14/2025	18:08	LB135778
	Lead	4840	5000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Magnesium	23400	25000	94	90 - 110	P	05/14/2025	18:08	LB135778
	Manganese	2370	2500	95	90 - 110	P	05/14/2025	18:08	LB135778
	Nickel	2430	2500	97	90 - 110	P	05/14/2025	18:08	LB135778
	Potassium	25000	25000	100	90 - 110	P	05/14/2025	18:08	LB135778
	Selenium	4860	5000	97	90 - 110	P	05/14/2025	18:08	LB135778
	Silver	1220	1250	98	90 - 110	P	05/14/2025	18:08	LB135778
	Sodium	25600	25000	102	90 - 110	P	05/14/2025	18:08	LB135778
	Thallium	4910	5000	98	90 - 110	P	05/14/2025	18:08	LB135778
	Vanadium	2400	2500	96	90 - 110	P	05/14/2025	18:08	LB135778
	Zinc	2460	2500	98	90 - 110	P	05/14/2025	18:08	LB135778
CCV05	Aluminum	9540	10000	95	90 - 110	P	05/14/2025	19:21	LB135778
	Antimony	4830	5000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Arsenic	4790	5000	96	90 - 110	P	05/14/2025	19:21	LB135778
	Barium	9050	10000	90	90 - 110	P	05/14/2025	19:21	LB135778
	Beryllium	233	250	93	90 - 110	P	05/14/2025	19:21	LB135778
	Cadmium	2430	2500	97	90 - 110	P	05/14/2025	19:21	LB135778
	Calcium	23500	25000	94	90 - 110	P	05/14/2025	19:21	LB135778
	Chromium	992	1000	99	90 - 110	P	05/14/2025	19:21	LB135778
	Cobalt	2410	2500	97	90 - 110	P	05/14/2025	19:21	LB135778
	Copper	1200	1250	96	90 - 110	P	05/14/2025	19:21	LB135778
	Iron	4830	5000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Lead	4830	5000	96	90 - 110	P	05/14/2025	19:21	LB135778
	Magnesium	23300	25000	93	90 - 110	P	05/14/2025	19:21	LB135778
	Manganese	2310	2500	92	90 - 110	P	05/14/2025	19:21	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2440	2500	98	90 - 110	P	05/14/2025	19:21	LB135778
	Potassium	24200	25000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Selenium	4850	5000	97	90 - 110	P	05/14/2025	19:21	LB135778
	Silver	1210	1250	97	90 - 110	P	05/14/2025	19:21	LB135778
	Sodium	25000	25000	100	90 - 110	P	05/14/2025	19:21	LB135778
	Thallium	4960	5000	99	90 - 110	P	05/14/2025	19:21	LB135778
	Vanadium	2380	2500	95	90 - 110	P	05/14/2025	19:21	LB135778
	Zinc	2420	2500	97	90 - 110	P	05/14/2025	19:21	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2430	2500	97	90 - 110	P	05/15/2025	13:37	LB135794
	Antimony	991	1000	99	90 - 110	P	05/15/2025	13:37	LB135794
	Arsenic	997	1000	100	90 - 110	P	05/15/2025	13:37	LB135794
	Barium	515	520	99	90 - 110	P	05/15/2025	13:37	LB135794
	Beryllium	480	510	94	90 - 110	P	05/15/2025	13:37	LB135794
	Cadmium	500	510	98	90 - 110	P	05/15/2025	13:37	LB135794
	Calcium	9530	10000	95	90 - 110	P	05/15/2025	13:37	LB135794
	Chromium	506	520	97	90 - 110	P	05/15/2025	13:37	LB135794
	Cobalt	492	520	95	90 - 110	P	05/15/2025	13:37	LB135794
	Copper	508	510	100	90 - 110	P	05/15/2025	13:37	LB135794
	Iron	9530	10000	95	90 - 110	P	05/15/2025	13:37	LB135794
	Lead	989	1000	99	90 - 110	P	05/15/2025	13:37	LB135794
	Magnesium	5580	6000	93	90 - 110	P	05/15/2025	13:37	LB135794
	Manganese	492	520	94	90 - 110	P	05/15/2025	13:37	LB135794
	Nickel	494	530	93	90 - 110	P	05/15/2025	13:37	LB135794
	Potassium	9270	9900	94	90 - 110	P	05/15/2025	13:37	LB135794
	Selenium	1020	1000	102	90 - 110	P	05/15/2025	13:37	LB135794
	Silver	237	250	95	90 - 110	P	05/15/2025	13:37	LB135794
	Sodium	9880	10000	99	90 - 110	P	05/15/2025	13:37	LB135794
	Thallium	1030	1000	103	90 - 110	P	05/15/2025	13:37	LB135794
	Vanadium	474	500	95	90 - 110	P	05/15/2025	13:37	LB135794
	Zinc	1000	1000	100	90 - 110	P	05/15/2025	13:37	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	104	100	104	80 - 120	P	05/15/2025	13:42	LB135794
	Antimony	53.7	50.0	107	80 - 120	P	05/15/2025	13:42	LB135794
	Arsenic	23.2	20.0	116	80 - 120	P	05/15/2025	13:42	LB135794
	Barium	95.7	100	96	80 - 120	P	05/15/2025	13:42	LB135794
	Beryllium	5.98	6.0	100	80 - 120	P	05/15/2025	13:42	LB135794
	Cadmium	6.08	6.0	101	80 - 120	P	05/15/2025	13:42	LB135794
	Calcium	2010	2000	100	80 - 120	P	05/15/2025	13:42	LB135794
	Chromium	9.66	10.0	97	80 - 120	P	05/15/2025	13:42	LB135794
	Cobalt	29.2	30.0	97	80 - 120	P	05/15/2025	13:42	LB135794
	Copper	22.6	20.0	113	80 - 120	P	05/15/2025	13:42	LB135794
	Iron	98.5	100	98	80 - 120	P	05/15/2025	13:42	LB135794
	Lead	12.2	12.0	102	80 - 120	P	05/15/2025	13:42	LB135794
	Magnesium	2070	2000	103	80 - 120	P	05/15/2025	13:42	LB135794
	Manganese	20.6	20.0	103	80 - 120	P	05/15/2025	13:42	LB135794
	Nickel	39.6	40.0	99	80 - 120	P	05/15/2025	13:42	LB135794
	Potassium	1960	2000	98	80 - 120	P	05/15/2025	13:42	LB135794
	Selenium	20.1	20.0	100	80 - 120	P	05/15/2025	13:42	LB135794
	Silver	10.2	10.0	102	80 - 120	P	05/15/2025	13:42	LB135794
	Sodium	1890	2000	94	80 - 120	P	05/15/2025	13:42	LB135794
	Thallium	42.6	40.0	106	80 - 120	P	05/15/2025	13:42	LB135794
	Vanadium	38.4	40.0	96	80 - 120	P	05/15/2025	13:42	LB135794
	Zinc	42.8	40.0	107	80 - 120	P	05/15/2025	13:42	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9930	10000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Antimony	4920	5000	98	90 - 110	P	05/15/2025	14:18	LB135794
	Arsenic	4990	5000	100	90 - 110	P	05/15/2025	14:18	LB135794
	Barium	9620	10000	96	90 - 110	P	05/15/2025	14:18	LB135794
	Beryllium	252	250	101	90 - 110	P	05/15/2025	14:18	LB135794
	Cadmium	2470	2500	99	90 - 110	P	05/15/2025	14:18	LB135794
	Calcium	24700	25000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Chromium	1010	1000	101	90 - 110	P	05/15/2025	14:18	LB135794
	Cobalt	2490	2500	100	90 - 110	P	05/15/2025	14:18	LB135794
	Copper	1250	1250	100	90 - 110	P	05/15/2025	14:18	LB135794
	Iron	4870	5000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Lead	4990	5000	100	90 - 110	P	05/15/2025	14:18	LB135794
	Magnesium	24100	25000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	14:18	LB135794
	Nickel	2470	2500	99	90 - 110	P	05/15/2025	14:18	LB135794
	Potassium	24200	25000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Selenium	4940	5000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Silver	1240	1250	100	90 - 110	P	05/15/2025	14:18	LB135794
	Sodium	24300	25000	97	90 - 110	P	05/15/2025	14:18	LB135794
	Thallium	4970	5000	99	90 - 110	P	05/15/2025	14:18	LB135794
	Vanadium	2430	2500	97	90 - 110	P	05/15/2025	14:18	LB135794
	Zinc	2530	2500	101	90 - 110	P	05/15/2025	14:18	LB135794
CCV02	Aluminum	9960	10000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Antimony	4950	5000	99	90 - 110	P	05/15/2025	15:05	LB135794
	Arsenic	5050	5000	101	90 - 110	P	05/15/2025	15:05	LB135794
	Barium	9610	10000	96	90 - 110	P	05/15/2025	15:05	LB135794
	Beryllium	249	250	100	90 - 110	P	05/15/2025	15:05	LB135794
	Cadmium	2480	2500	99	90 - 110	P	05/15/2025	15:05	LB135794
	Calcium	24800	25000	99	90 - 110	P	05/15/2025	15:05	LB135794
	Chromium	1010	1000	101	90 - 110	P	05/15/2025	15:05	LB135794
	Cobalt	2510	2500	100	90 - 110	P	05/15/2025	15:05	LB135794
	Copper	1260	1250	101	90 - 110	P	05/15/2025	15:05	LB135794
	Iron	5010	5000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Lead	5030	5000	100	90 - 110	P	05/15/2025	15:05	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24200	25000	97	90 - 110	P	05/15/2025	15:05	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	15:05	LB135794
	Nickel	2480	2500	99	90 - 110	P	05/15/2025	15:05	LB135794
	Potassium	24700	25000	99	90 - 110	P	05/15/2025	15:05	LB135794
	Selenium	4980	5000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Silver	1250	1250	100	90 - 110	P	05/15/2025	15:05	LB135794
	Sodium	25000	25000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Thallium	4980	5000	100	90 - 110	P	05/15/2025	15:05	LB135794
	Vanadium	2450	2500	98	90 - 110	P	05/15/2025	15:05	LB135794
	Zinc	2530	2500	101	90 - 110	P	05/15/2025	15:05	LB135794
CCV03	Aluminum	9950	10000	100	90 - 110	P	05/15/2025	15:53	LB135794
	Antimony	4890	5000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Arsenic	4930	5000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Barium	9350	10000	94	90 - 110	P	05/15/2025	15:53	LB135794
	Beryllium	261	250	104	90 - 110	P	05/15/2025	15:53	LB135794
	Cadmium	2430	2500	97	90 - 110	P	05/15/2025	15:53	LB135794
	Calcium	24500	25000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Chromium	995	1000	100	90 - 110	P	05/15/2025	15:53	LB135794
	Cobalt	2460	2500	98	90 - 110	P	05/15/2025	15:53	LB135794
	Copper	1240	1250	99	90 - 110	P	05/15/2025	15:53	LB135794
	Iron	4540	5000	91	90 - 110	P	05/15/2025	15:53	LB135794
	Lead	4930	5000	99	90 - 110	P	05/15/2025	15:53	LB135794
	Magnesium	24100	25000	96	90 - 110	P	05/15/2025	15:53	LB135794
	Manganese	2430	2500	97	90 - 110	P	05/15/2025	15:53	LB135794
	Nickel	2440	2500	98	90 - 110	P	05/15/2025	15:53	LB135794
	Potassium	22700	25000	91	90 - 110	P	05/15/2025	15:53	LB135794
	Selenium	4860	5000	97	90 - 110	P	05/15/2025	15:53	LB135794
	Silver	1220	1250	98	90 - 110	P	05/15/2025	15:53	LB135794
	Sodium	22900	25000	92	90 - 110	P	05/15/2025	15:53	LB135794
	Thallium	4910	5000	98	90 - 110	P	05/15/2025	15:53	LB135794
	Vanadium	2410	2500	96	90 - 110	P	05/15/2025	15:53	LB135794
	Zinc	2460	2500	98	90 - 110	P	05/15/2025	15:53	LB135794
CCV04	Aluminum	9920	10000	99	90 - 110	P	05/15/2025	16:39	LB135794
	Antimony	4830	5000	96	90 - 110	P	05/15/2025	16:39	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	4930	5000	99	90 - 110	P	05/15/2025	16:39	LB135794
	Barium	9520	10000	95	90 - 110	P	05/15/2025	16:39	LB135794
	Beryllium	251	250	100	90 - 110	P	05/15/2025	16:39	LB135794
	Cadmium	2450	2500	98	90 - 110	P	05/15/2025	16:39	LB135794
	Calcium	24500	25000	98	90 - 110	P	05/15/2025	16:39	LB135794
	Chromium	998	1000	100	90 - 110	P	05/15/2025	16:39	LB135794
	Cobalt	2480	2500	99	90 - 110	P	05/15/2025	16:39	LB135794
	Copper	1240	1250	99	90 - 110	P	05/15/2025	16:39	LB135794
	Iron	4680	5000	94	90 - 110	P	05/15/2025	16:39	LB135794
	Lead	4960	5000	99	90 - 110	P	05/15/2025	16:39	LB135794
	Magnesium	23800	25000	95	90 - 110	P	05/15/2025	16:39	LB135794
	Manganese	2420	2500	97	90 - 110	P	05/15/2025	16:39	LB135794
	Nickel	2440	2500	98	90 - 110	P	05/15/2025	16:39	LB135794
	Potassium	23300	25000	93	90 - 110	P	05/15/2025	16:39	LB135794
	Selenium	4830	5000	97	90 - 110	P	05/15/2025	16:39	LB135794
	Silver	1220	1250	98	90 - 110	P	05/15/2025	16:39	LB135794
	Sodium	23400	25000	94	90 - 110	P	05/15/2025	16:39	LB135794
	Thallium	4890	5000	98	90 - 110	P	05/15/2025	16:39	LB135794
	Vanadium	2420	2500	97	90 - 110	P	05/15/2025	16:39	LB135794
	Zinc	2440	2500	97	90 - 110	P	05/15/2025	16:39	LB135794
CCV05	Aluminum	10100	10000	101	90 - 110	P	05/15/2025	17:27	LB135794
	Antimony	4810	5000	96	90 - 110	P	05/15/2025	17:27	LB135794
	Arsenic	4940	5000	99	90 - 110	P	05/15/2025	17:27	LB135794
	Barium	9330	10000	93	90 - 110	P	05/15/2025	17:27	LB135794
	Beryllium	266	250	106	90 - 110	P	05/15/2025	17:27	LB135794
	Cadmium	2470	2500	99	90 - 110	P	05/15/2025	17:27	LB135794
	Calcium	25300	25000	101	90 - 110	P	05/15/2025	17:27	LB135794
	Chromium	1030	1000	103	90 - 110	P	05/15/2025	17:27	LB135794
	Cobalt	2500	2500	100	90 - 110	P	05/15/2025	17:27	LB135794
	Copper	1240	1250	99	90 - 110	P	05/15/2025	17:27	LB135794
	Iron	4850	5000	97	90 - 110	P	05/15/2025	17:27	LB135794
	Lead	5580	5000	112	90 - 110	P	05/15/2025	17:27	LB135794
	Magnesium	24900	25000	100	90 - 110	P	05/15/2025	17:27	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	17:27	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	2600	2500	104	90 - 110	P	05/15/2025	17:27	LB135794
	Potassium	23300	25000	93	90 - 110	P	05/15/2025	17:27	LB135794
	Selenium	4820	5000	96	90 - 110	P	05/15/2025	17:27	LB135794
	Silver	1260	1250	101	90 - 110	P	05/15/2025	17:27	LB135794
	Sodium	23600	25000	94	90 - 110	P	05/15/2025	17:27	LB135794
	Thallium	4880	5000	98	90 - 110	P	05/15/2025	17:27	LB135794
	Vanadium	2440	2500	98	90 - 110	P	05/15/2025	17:27	LB135794
	Zinc	7780	2500	311	90 - 110	P	05/15/2025	17:27	LB135794
CCV06	Aluminum	9950	10000	100	90 - 110	P	05/15/2025	17:41	LB135794
	Antimony	4800	5000	96	90 - 110	P	05/15/2025	17:41	LB135794
	Arsenic	4900	5000	98	90 - 110	P	05/15/2025	17:41	LB135794
	Barium	9440	10000	94	90 - 110	P	05/15/2025	17:41	LB135794
	Beryllium	263	250	105	90 - 110	P	05/15/2025	17:41	LB135794
	Cadmium	2470	2500	99	90 - 110	P	05/15/2025	17:41	LB135794
	Calcium	25200	25000	101	90 - 110	P	05/15/2025	17:41	LB135794
	Chromium	1020	1000	102	90 - 110	P	05/15/2025	17:41	LB135794
	Cobalt	2490	2500	100	90 - 110	P	05/15/2025	17:41	LB135794
	Copper	1230	1250	98	90 - 110	P	05/15/2025	17:41	LB135794
	Iron	4860	5000	97	90 - 110	P	05/15/2025	17:41	LB135794
	Lead	5000	5000	100	90 - 110	P	05/15/2025	17:41	LB135794
	Magnesium	24600	25000	99	90 - 110	P	05/15/2025	17:41	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	17:41	LB135794
	Nickel	2460	2500	98	90 - 110	P	05/15/2025	17:41	LB135794
	Potassium	23500	25000	94	90 - 110	P	05/15/2025	17:41	LB135794
	Selenium	4790	5000	96	90 - 110	P	05/15/2025	17:41	LB135794
	Silver	1250	1250	100	90 - 110	P	05/15/2025	17:41	LB135794
	Sodium	23600	25000	95	90 - 110	P	05/15/2025	17:41	LB135794
	Thallium	4950	5000	99	90 - 110	P	05/15/2025	17:41	LB135794
	Vanadium	2450	2500	98	90 - 110	P	05/15/2025	17:41	LB135794
	Zinc	2500	2500	100	90 - 110	P	05/15/2025	17:41	LB135794
CCV07	Aluminum	9840	10000	98	90 - 110	P	05/15/2025	18:47	LB135794
	Antimony	4680	5000	94	90 - 110	P	05/15/2025	18:47	LB135794
	Arsenic	4790	5000	96	90 - 110	P	05/15/2025	18:47	LB135794
	Barium	9280	10000	93	90 - 110	P	05/15/2025	18:47	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	262	250	105	90 - 110	P	05/15/2025	18:47	LB135794
	Cadmium	2440	2500	98	90 - 110	P	05/15/2025	18:47	LB135794
	Calcium	25000	25000	100	90 - 110	P	05/15/2025	18:47	LB135794
	Chromium	1030	1000	103	90 - 110	P	05/15/2025	18:47	LB135794
	Cobalt	2460	2500	99	90 - 110	P	05/15/2025	18:47	LB135794
	Copper	1210	1250	97	90 - 110	P	05/15/2025	18:47	LB135794
	Iron	4790	5000	96	90 - 110	P	05/15/2025	18:47	LB135794
	Lead	4940	5000	99	90 - 110	P	05/15/2025	18:47	LB135794
	Magnesium	24600	25000	98	90 - 110	P	05/15/2025	18:47	LB135794
	Manganese	2450	2500	98	90 - 110	P	05/15/2025	18:47	LB135794
	Nickel	2430	2500	97	90 - 110	P	05/15/2025	18:47	LB135794
	Potassium	23200	25000	93	90 - 110	P	05/15/2025	18:47	LB135794
	Selenium	4640	5000	93	90 - 110	P	05/15/2025	18:47	LB135794
	Silver	1230	1250	99	90 - 110	P	05/15/2025	18:47	LB135794
	Sodium	23200	25000	93	90 - 110	P	05/15/2025	18:47	LB135794
	Thallium	4850	5000	97	90 - 110	P	05/15/2025	18:47	LB135794
	Vanadium	2430	2500	97	90 - 110	P	05/15/2025	18:47	LB135794
	Zinc	2480	2500	99	90 - 110	P	05/15/2025	18:47	LB135794



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Fax : 908 789 8922

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc. SDG No.: Q2008
Contract: JACO05 Lab Code: CHEM Case No.: Q2008 SAS No.: Q2008
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	0.18	0.2	89	70 - 130	CV	05/14/2025	11:54	LB135763
CRI01	Aluminum	91.1	100	91	65 - 135	P	05/14/2025	13:43	LB135778
	Antimony	50.6	50.0	101	65 - 135	P	05/14/2025	13:43	LB135778
	Arsenic	19.9	20.0	99	65 - 135	P	05/14/2025	13:43	LB135778
	Barium	85.9	100	86	65 - 135	P	05/14/2025	13:43	LB135778
	Beryllium	5.80	6.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Cadmium	6.01	6.0	100	65 - 135	P	05/14/2025	13:43	LB135778
	Calcium	1910	2000	95	65 - 135	P	05/14/2025	13:43	LB135778
	Chromium	9.05	10.0	90	65 - 135	P	05/14/2025	13:43	LB135778
	Cobalt	29.0	30.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Copper	22.3	20.0	112	65 - 135	P	05/14/2025	13:43	LB135778
	Iron	93.3	100	93	65 - 135	P	05/14/2025	13:43	LB135778
	Lead	11.1	12.0	92	65 - 135	P	05/14/2025	13:43	LB135778
	Magnesium	1970	2000	98	65 - 135	P	05/14/2025	13:43	LB135778
	Manganese	19.4	20.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Nickel	38.8	40.0	97	65 - 135	P	05/14/2025	13:43	LB135778
	Potassium	1920	2000	96	65 - 135	P	05/14/2025	13:43	LB135778
	Selenium	22.6	20.0	113	65 - 135	P	05/14/2025	13:43	LB135778
	Silver	9.49	10.0	95	65 - 135	P	05/14/2025	13:43	LB135778
	Sodium	1890	2000	94	65 - 135	P	05/14/2025	13:43	LB135778
	Thallium	39.1	40.0	98	65 - 135	P	05/14/2025	13:43	LB135778
	Vanadium	38.4	40.0	96	65 - 135	P	05/14/2025	13:43	LB135778
	Zinc	42.2	40.0	106	65 - 135	P	05/14/2025	13:43	LB135778
CRI01	Aluminum	102	100	102	65 - 135	P	05/15/2025	13:51	LB135794
	Antimony	52.8	50.0	106	65 - 135	P	05/15/2025	13:51	LB135794
	Arsenic	21.4	20.0	107	65 - 135	P	05/15/2025	13:51	LB135794
	Barium	94.3	100	94	65 - 135	P	05/15/2025	13:51	LB135794
	Beryllium	5.81	6.0	97	65 - 135	P	05/15/2025	13:51	LB135794
	Cadmium	6.05	6.0	101	65 - 135	P	05/15/2025	13:51	LB135794
	Calcium	2010	2000	100	65 - 135	P	05/15/2025	13:51	LB135794
	Chromium	9.78	10.0	98	65 - 135	P	05/15/2025	13:51	LB135794
	Cobalt	29.2	30.0	97	65 - 135	P	05/15/2025	13:51	LB135794
	Copper	22.2	20.0	111	65 - 135	P	05/15/2025	13:51	LB135794
	Iron	104	100	104	65 - 135	P	05/15/2025	13:51	LB135794
	Lead	12.3	12.0	102	65 - 135	P	05/15/2025	13:51	LB135794

Metals

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CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRI01	Magnesium	2060	2000	103	65 - 135	P	05/15/2025	13:51	LB135794
	Manganese	20.4	20.0	102	65 - 135	P	05/15/2025	13:51	LB135794
	Nickel	39.1	40.0	98	65 - 135	P	05/15/2025	13:51	LB135794
	Potassium	1920	2000	96	65 - 135	P	05/15/2025	13:51	LB135794
	Selenium	22.4	20.0	112	65 - 135	P	05/15/2025	13:51	LB135794
	Silver	10.1	10.0	101	65 - 135	P	05/15/2025	13:51	LB135794
	Sodium	1880	2000	94	65 - 135	P	05/15/2025	13:51	LB135794
	Thallium	42.5	40.0	106	65 - 135	P	05/15/2025	13:51	LB135794
	Vanadium	38.1	40.0	95	65 - 135	P	05/15/2025	13:51	LB135794
	Zinc	42.5	40.0	106	65 - 135	P	05/15/2025	13:51	LB135794



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Fax : 908 789 8922

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	JACOBS Engineering Group, Inc.				SDG No.:	Q2008				
Contract:	JACO05	Lab Code:	CHEM	Case No.:	Q2008	SAS No.:	Q2008			
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB08	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	11:44	LB135763

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB22	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	11:51	LB135763
CCB23	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	12:26	LB135763
CCB24	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	12:54	LB135763
CCB25	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	13:30	LB135763
CCB26	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	13:57	LB135763
CCB27	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:25	LB135763
CCB28	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:41	LB135763
CCB29	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	05/14/2025	14:59	LB135763

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	13:38	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	13:38	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	13:38	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	13:38	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	13:38	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	13:38	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	13:38	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	13:38	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	13:38	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	13:38	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	13:38	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	13:38	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	13:38	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	13:38	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	13:38	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	13:38	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	13:38	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	13:38	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	13:38	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	13:38	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	13:38	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	13:38	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	14:56	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	14:56	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	14:56	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	14:56	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	14:56	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	14:56	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	14:56	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	14:56	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	14:56	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	14:56	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	14:56	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	14:56	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	14:56	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	14:56	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	14:56	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	14:56	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	14:56	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	14:56	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	14:56	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	14:56	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	14:56	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	14:56	LB135778
CCB02	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	15:57	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	15:57	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	15:57	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	15:57	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	15:57	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	15:57	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	15:57	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	15:57	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	15:57	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	15:57	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	15:57	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	15:57	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	15:57	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	15:57	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	15:57	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	15:57	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	15:57	LB135778

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2008								
Contract: JACO05	Lab Code: CHEM	Case No.: Q2008	SAS No.: Q2008							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	15:57	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	15:57	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	15:57	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	15:57	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	15:57	LB135778
CCB03	Aluminum	15.4	+/-100	J	80.0	100	P	05/14/2025	16:48	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	16:48	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	16:48	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	16:48	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	16:48	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	16:48	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	16:48	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	16:48	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	16:48	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	16:48	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	16:48	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	16:48	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	16:48	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	16:48	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	16:48	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	16:48	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	16:48	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	16:48	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	16:48	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	16:48	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	16:48	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	16:48	LB135778
CCB04	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	18:12	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	18:12	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	18:12	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	18:12	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	18:12	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	18:12	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	18:12	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	18:12	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	18:12	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	18:12	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	18:12	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	18:12	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2008								
Contract: JACO05	Lab Code: CHEM	Case No.: Q2008		SAS No.: Q2008						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	18:12	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	18:12	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	18:12	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	18:12	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	18:12	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	18:12	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	18:12	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	18:12	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	18:12	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	18:12	LB135778
CCB05	Aluminum	100	+/-100	U	80.0	100	P	05/14/2025	19:25	LB135778
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/14/2025	19:25	LB135778
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	19:25	LB135778
	Barium	100	+/-100	U	25.0	100	P	05/14/2025	19:25	LB135778
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	19:25	LB135778
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/14/2025	19:25	LB135778
	Calcium	2000	+/-2000	U	500	2000	P	05/14/2025	19:25	LB135778
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	19:25	LB135778
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/14/2025	19:25	LB135778
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	19:25	LB135778
	Iron	100	+/-100	U	80.0	100	P	05/14/2025	19:25	LB135778
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/14/2025	19:25	LB135778
	Magnesium	2000	+/-2000	U	500	2000	P	05/14/2025	19:25	LB135778
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/14/2025	19:25	LB135778
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/14/2025	19:25	LB135778
	Potassium	2000	+/-2000	U	1600	2000	P	05/14/2025	19:25	LB135778
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/14/2025	19:25	LB135778
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/14/2025	19:25	LB135778
	Sodium	2000	+/-2000	U	1000	2000	P	05/14/2025	19:25	LB135778
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	19:25	LB135778
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/14/2025	19:25	LB135778
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/14/2025	19:25	LB135778

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	13:47	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	13:47	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	13:47	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	13:47	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	13:47	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	13:47	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	13:47	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	13:47	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	13:47	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	13:47	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	13:47	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	13:47	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	13:47	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	13:47	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	13:47	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	13:47	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	13:47	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	13:47	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	13:47	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	13:47	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	13:47	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	13:47	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2008								
Contract: JACO05	Lab Code: CHEM	Case No.: Q2008		SAS No.: Q2008						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	14:22	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	14:22	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	14:22	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	14:22	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	14:22	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	14:22	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	14:22	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	14:22	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	14:22	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	14:22	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	14:22	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	14:22	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	14:22	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	14:22	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	14:22	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	14:22	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	14:22	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	14:22	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	14:22	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	14:22	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	14:22	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	14:22	LB135794
CCB02	Aluminum	13.0	+/-100	J	80.0	100	P	05/15/2025	15:09	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	15:09	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:09	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	15:09	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:09	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:09	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	15:09	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:09	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	15:09	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:09	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	15:09	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	15:09	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	15:09	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:09	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	15:09	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	15:09	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:09	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:09	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	15:09	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:09	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:09	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	15:09	LB135794
CCB03	Aluminum	22.1	+/-100	J	80.0	100	P	05/15/2025	15:57	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	15:57	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:57	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	15:57	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:57	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	15:57	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	15:57	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:57	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	15:57	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:57	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	15:57	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	15:57	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	15:57	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	15:57	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	15:57	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	15:57	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	15:57	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	15:57	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	15:57	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:57	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	15:57	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	15:57	LB135794
CCB04	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	16:44	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	16:44	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	16:44	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	16:44	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	16:44	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	16:44	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	16:44	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	16:44	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	16:44	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	16:44	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	16:44	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	16:44	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	16:44	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	16:44	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	16:44	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	16:44	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	16:44	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	16:44	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	16:44	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	16:44	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	16:44	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	16:44	LB135794
CCB05	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	17:31	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	17:31	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:31	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	17:31	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:31	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:31	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	17:31	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:31	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	17:31	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:31	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	17:31	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	17:31	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	17:31	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:31	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	17:31	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	17:31	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:31	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:31	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	17:31	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:31	LB135794
CCB06	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:31	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	17:31	LB135794
	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	17:56	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	17:56	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:56	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	17:56	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:56	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	17:56	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	17:56	LB135794

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2008								
Contract: JACO05	Lab Code: CHEM	Case No.: Q2008		SAS No.: Q2008						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:56	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	17:56	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:56	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	17:56	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	17:56	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	17:56	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	17:56	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	17:56	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	17:56	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	17:56	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	17:56	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	17:56	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:56	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	17:56	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	17:56	LB135794
CCB07	Aluminum	100	+/-100	U	80.0	100	P	05/15/2025	18:52	LB135794
	Antimony	50.0	+/-50.0	U	12.5	50.0	P	05/15/2025	18:52	LB135794
	Arsenic	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	18:52	LB135794
	Barium	100	+/-100	U	25.0	100	P	05/15/2025	18:52	LB135794
	Beryllium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	18:52	LB135794
	Cadmium	6.00	+/-6.00	U	1.50	6.00	P	05/15/2025	18:52	LB135794
	Calcium	2000	+/-2000	U	500	2000	P	05/15/2025	18:52	LB135794
	Chromium	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	18:52	LB135794
	Cobalt	30.0	+/-30.0	U	7.50	30.0	P	05/15/2025	18:52	LB135794
	Copper	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	18:52	LB135794
	Iron	100	+/-100	U	80.0	100	P	05/15/2025	18:52	LB135794
	Lead	12.0	+/-12.0	U	9.60	12.0	P	05/15/2025	18:52	LB135794
	Magnesium	2000	+/-2000	U	500	2000	P	05/15/2025	18:52	LB135794
	Manganese	20.0	+/-20.0	U	15.0	20.0	P	05/15/2025	18:52	LB135794
	Nickel	40.0	+/-40.0	U	10.0	40.0	P	05/15/2025	18:52	LB135794
	Potassium	2000	+/-2000	U	1600	2000	P	05/15/2025	18:52	LB135794
	Selenium	20.0	+/-20.0	U	16.0	20.0	P	05/15/2025	18:52	LB135794
	Silver	10.0	+/-10.0	U	5.00	10.0	P	05/15/2025	18:52	LB135794
	Sodium	2000	+/-2000	U	1000	2000	P	05/15/2025	18:52	LB135794
	Thallium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	18:52	LB135794
	Vanadium	40.0	+/-40.0	U	20.0	40.0	P	05/15/2025	18:52	LB135794
	Zinc	40.0	+/-40.0	U	15.0	40.0	P	05/15/2025	18:52	LB135794

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167980BL		WATER		Batch Number:		PB167980		Prep Date:	05/13/2025	
	Mercury	0.20	<0.20	U	0.16	0.20	CV	05/14/2025	13:53	LB135763

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB167955BL	WATER			Batch Number:		PB167955		Prep Date:	05/12/2025	
	Aluminum	50.0	<50.0	U	40.0	50.0	P	05/14/2025	18:25	LB135778
	Antimony	25.0	<25.0	U	6.25	25.0	P	05/14/2025	18:25	LB135778
	Arsenic	10.0	<10.0	U	7.50	10.0	P	05/14/2025	18:25	LB135778
	Barium	50.0	<50.0	U	12.5	50.0	P	05/14/2025	18:25	LB135778
	Beryllium	3.00	<3.00	U	0.75	3.00	P	05/14/2025	18:25	LB135778
	Cadmium	3.00	<3.00	U	0.75	3.00	P	05/14/2025	18:25	LB135778
	Calcium	1000	<1000	U	250	1000	P	05/14/2025	18:25	LB135778
	Chromium	5.00	<5.00	U	2.50	5.00	P	05/14/2025	18:25	LB135778
	Cobalt	15.0	<15.0	U	3.75	15.0	P	05/14/2025	18:25	LB135778
	Copper	10.0	<10.0	U	8.00	10.0	P	05/14/2025	18:25	LB135778
	Iron	50.0	<50.0	U	40.0	50.0	P	05/14/2025	18:25	LB135778
	Lead	6.00	<6.00	U	4.80	6.00	P	05/14/2025	18:25	LB135778
	Magnesium	1000	<1000	U	250	1000	P	05/14/2025	18:25	LB135778
	Manganese	10.0	<10.0	U	7.50	10.0	P	05/14/2025	18:25	LB135778
	Nickel	20.0	<20.0	U	5.00	20.0	P	05/14/2025	18:25	LB135778
	Potassium	1000	<1000	U	800	1000	P	05/14/2025	18:25	LB135778
	Selenium	10.0	<10.0	U	8.00	10.0	P	05/14/2025	18:25	LB135778
	Silver	5.00	<5.00	U	2.50	5.00	P	05/14/2025	18:25	LB135778
	Sodium	1000	<1000	U	500	1000	P	05/14/2025	18:25	LB135778
	Thallium	20.0	<20.0	U	10.0	20.0	P	05/14/2025	18:25	LB135778
	Vanadium	20.0	<20.0	U	10.0	20.0	P	05/14/2025	18:25	LB135778
	Zinc	20.0	<20.0	U	7.50	20.0	P	05/14/2025	18:25	LB135778

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	234000	255000	92	216000	294000	05/14/2025	14:09	LB135778
	Antimony	-3.07			-50	50	05/14/2025	14:09	LB135778
	Arsenic	4.85			-20	20	05/14/2025	14:09	LB135778
	Barium	1.76	6.0	29	-94	106	05/14/2025	14:09	LB135778
	Beryllium	1.12			-6	6	05/14/2025	14:09	LB135778
	Cadmium	-3.09	1.0	309	-5	7	05/14/2025	14:09	LB135778
	Calcium	218000	245000	89	208000	282000	05/14/2025	14:09	LB135778
	Chromium	52.2	52.0	100	42	62	05/14/2025	14:09	LB135778
	Cobalt	0.31			-30	30	05/14/2025	14:09	LB135778
	Copper	0.58	2.0	29	-18	22	05/14/2025	14:09	LB135778
	Iron	93300	101000	92	85600	116500	05/14/2025	14:09	LB135778
	Lead	0.26			-12	12	05/14/2025	14:09	LB135778
	Magnesium	228000	255000	89	216000	294000	05/14/2025	14:09	LB135778
	Manganese	3.08	7.0	44	-13	27	05/14/2025	14:09	LB135778
	Nickel	1.20	2.0	60	-38	42	05/14/2025	14:09	LB135778
	Potassium	22.4			0	0	05/14/2025	14:09	LB135778
	Selenium	-3.16			-20	20	05/14/2025	14:09	LB135778
	Silver	0.95			-10	10	05/14/2025	14:09	LB135778
	Sodium	71.8			0	0	05/14/2025	14:09	LB135778
	Thallium	6.83			-40	40	05/14/2025	14:09	LB135778
	Vanadium	0.97			-40	40	05/14/2025	14:09	LB135778
	Zinc	3.75			-40	40	05/14/2025	14:09	LB135778
ICSAB01	Aluminum	236000	247000	96	209000	285000	05/14/2025	14:16	LB135778
	Antimony	592	618	96	525	711	05/14/2025	14:16	LB135778
	Arsenic	108	104	104	88.4	120	05/14/2025	14:16	LB135778
	Barium	442	537	82	437	637	05/14/2025	14:16	LB135778
	Beryllium	446	495	90	420	570	05/14/2025	14:16	LB135778
	Cadmium	933	972	96	826	1120	05/14/2025	14:16	LB135778
	Calcium	219000	235000	93	199000	271000	05/14/2025	14:16	LB135778
	Chromium	525	542	97	460	624	05/14/2025	14:16	LB135778
	Cobalt	463	476	97	404	548	05/14/2025	14:16	LB135778
	Copper	468	511	92	434	588	05/14/2025	14:16	LB135778
	Iron	94500	99300	95	84400	114500	05/14/2025	14:16	LB135778
	Lead	46.1	49.0	94	37	61	05/14/2025	14:16	LB135778
	Magnesium	230000	248000	93	210000	286000	05/14/2025	14:16	LB135778
	Manganese	446	507	88	430	584	05/14/2025	14:16	LB135778
	Nickel	916	954	96	810	1100	05/14/2025	14:16	LB135778
	Potassium	-47.9			0	0	05/14/2025	14:16	LB135778
	Selenium	40.7	46.0	88	26	66	05/14/2025	14:16	LB135778
	Silver	203	201	101	170	232	05/14/2025	14:16	LB135778
	Sodium	-147			0	0	05/14/2025	14:16	LB135778
	Thallium	104	108	96	68	148	05/14/2025	14:16	LB135778

Metals
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INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	445	491	91	417	565	05/14/2025	14:16	LB135778
	Zinc	981	952	103	809	1095	05/14/2025	14:16	LB135778
ICSA01	Aluminum	232000	255000	91	216000	294000	05/15/2025	14:01	LB135794
	Antimony	-2.73			-50	50	05/15/2025	14:01	LB135794
	Arsenic	5.60			-20	20	05/15/2025	14:01	LB135794
	Barium	2.71	6.0	45	-94	106	05/15/2025	14:01	LB135794
	Beryllium	1.30			-6	6	05/15/2025	14:01	LB135794
	Cadmium	-3.02	1.0	302	-5	7	05/15/2025	14:01	LB135794
	Calcium	220000	245000	90	208000	282000	05/15/2025	14:01	LB135794
	Chromium	52.3	52.0	101	42	62	05/15/2025	14:01	LB135794
	Cobalt	1.23			-30	30	05/15/2025	14:01	LB135794
	Copper	-2.10	2.0	105	-18	22	05/15/2025	14:01	LB135794
	Iron	93300	101000	92	85600	116500	05/15/2025	14:01	LB135794
	Lead	1.30			-12	12	05/15/2025	14:01	LB135794
	Magnesium	231000	255000	91	216000	294000	05/15/2025	14:01	LB135794
	Manganese	7.39	7.0	106	-13	27	05/15/2025	14:01	LB135794
	Nickel	1.31	2.0	66	-38	42	05/15/2025	14:01	LB135794
	Potassium	3.65			0	0	05/15/2025	14:01	LB135794
	Selenium	-5.78			-20	20	05/15/2025	14:01	LB135794
	Silver	-0.091			-10	10	05/15/2025	14:01	LB135794
	Sodium	-5.99			0	0	05/15/2025	14:01	LB135794
	Thallium	6.40			-40	40	05/15/2025	14:01	LB135794
	Vanadium	1.49			-40	40	05/15/2025	14:01	LB135794
	Zinc	3.33			-40	40	05/15/2025	14:01	LB135794
ICSAB01	Aluminum	231000	247000	94	209000	285000	05/15/2025	14:05	LB135794
	Antimony	574	618	93	525	711	05/15/2025	14:05	LB135794
	Arsenic	107	104	103	88.4	120	05/15/2025	14:05	LB135794
	Barium	449	537	84	437	637	05/15/2025	14:05	LB135794
	Beryllium	448	495	90	420	570	05/15/2025	14:05	LB135794
	Cadmium	951	972	98	826	1120	05/15/2025	14:05	LB135794
	Calcium	220000	235000	94	199000	271000	05/15/2025	14:05	LB135794
	Chromium	525	542	97	460	624	05/15/2025	14:05	LB135794
	Cobalt	470	476	99	404	548	05/15/2025	14:05	LB135794
	Copper	453	511	89	434	588	05/15/2025	14:05	LB135794
	Iron	93800	99300	94	84400	114500	05/15/2025	14:05	LB135794
	Lead	45.4	49.0	93	37	61	05/15/2025	14:05	LB135794
	Magnesium	231000	248000	93	210000	286000	05/15/2025	14:05	LB135794
	Manganese	454	507	90	430	584	05/15/2025	14:05	LB135794
	Nickel	924	954	97	810	1100	05/15/2025	14:05	LB135794
	Potassium	-15.5			0	0	05/15/2025	14:05	LB135794
	Selenium	37.6	46.0	82	26	66	05/15/2025	14:05	LB135794
	Silver	214	201	106	170	232	05/15/2025	14:05	LB135794

Metals

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INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Sodium	-57.9			0	0	05/15/2025	14:05	LB135794
	Thallium	104	108	96	68	148	05/15/2025	14:05	LB135794
	Vanadium	442	491	90	417	565	05/15/2025	14:05	LB135794
	Zinc	965	952	101	809	1095	05/15/2025	14:05	LB135794



METAL

QC

DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2008

contract: JACO05 **lab code:** CHEM **case no.:** Q2008 **sas no.:** Q2008

matrix: Water **sample id:** Q1985-01 **client id:** RW8-BW-20250507MS

Percent Solids for Sample: NA **Spiked ID:** Q1985-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	86 - 115	967		24.0	J	1000	94		P
Antimony	ug/L	88 - 113	384		25.0	U	400	96		P
Arsenic	ug/L	87 - 113	394		10.0	U	400	98		P
Barium	ug/L	88 - 113	95.0		50.0	U	100	95		P
Beryllium	ug/L	89 - 112	90.9		3.00	U	100	91		P
Cadmium	ug/L	88 - 113	99.0		3.00	U	100	99		P
Calcium	ug/L	87 - 113	1880		1380		500	100		P
Chromium	ug/L	90 - 113	199		2.48	J	200	98		P
Cobalt	ug/L	89 - 114	98.0		15.0	U	100	98		P
Copper	ug/L	86 - 114	140		10.0	U	150	93		P
Iron	ug/L	87 - 115	2170		678		1500	99		P
Lead	ug/L	86 - 113	471		6.00	U	500	94		P
Magnesium	ug/L	85 - 113	2250		1330		1000	92		P
Manganese	ug/L	90 - 114	170		52.0		100	118	N	P
Nickel	ug/L	88 - 113	241		20.0	U	250	96		P
Potassium	ug/L	86 - 114	351000		333000		5000	359		P
Selenium	ug/L	83 - 114	916		10.0	U	1000	92		P
Silver	ug/L	84 - 115	29.9		5.00	U	37.5	80	N	P
Sodium	ug/L	87 - 115	48000		44800		1500	217		P
Thallium	ug/L	85 - 114	905		20.0	U	1000	90		P
Vanadium	ug/L	90 - 111	141		20.0	U	150	94		P
Zinc	ug/L	87 - 115	101		20.0	U	100	101		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2008
contract: JACO05 **lab code:** CHEM **case no.:** Q2008 **sas no.:** Q2008
matrix: Water **sample id:** Q1985-01 **client id:** RW8-BW-20250507MSD
Percent Solids for Sample: NA **Spiked ID:** Q1985-01MSD **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	86 - 115	962		24.0	J	1000	94		P
Antimony	ug/L	88 - 113	381		25.0	U	400	95		P
Arsenic	ug/L	87 - 113	391		10.0	U	400	98		P
Barium	ug/L	88 - 113	93.2		50.0	U	100	93		P
Beryllium	ug/L	89 - 112	92.2		3.00	U	100	92		P
Cadmium	ug/L	88 - 113	98.3		3.00	U	100	98		P
Calcium	ug/L	87 - 113	1840		1380		500	92		P
Chromium	ug/L	90 - 113	198		2.48	J	200	98		P
Cobalt	ug/L	89 - 114	97.2		15.0	U	100	97		P
Copper	ug/L	86 - 114	138		10.0	U	150	92		P
Iron	ug/L	87 - 115	2140		678		1500	97		P
Lead	ug/L	86 - 113	469		6.00	U	500	94		P
Magnesium	ug/L	85 - 113	2220		1330		1000	89		P
Manganese	ug/L	90 - 114	113		52.0		100	61	N	P
Nickel	ug/L	88 - 113	238		20.0	U	250	95		P
Potassium	ug/L	86 - 114	343000		333000		5000	207		P
Selenium	ug/L	83 - 114	915		10.0	U	1000	92		P
Silver	ug/L	84 - 115	29.3		5.00	U	37.5	78	N	P
Sodium	ug/L	87 - 115	46900		44800		1500	141		P
Thallium	ug/L	85 - 114	895		20.0	U	1000	90		P
Vanadium	ug/L	90 - 111	139		20.0	U	150	93		P
Zinc	ug/L	87 - 115	100		20.0	U	100	100		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2008
contract: JACO05 **lab code:** CHEM **case no.:** Q2008 **sas no.:** Q2008
matrix: Water **sample id:** Q2008-01 **client id:** IDW-AQ-DRUM-633-05092025MS
Percent Solids for Sample: NA **Spiked ID:** Q2008-01MS **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	82 - 119	3.56		0.082	J	4.0	87		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2008</u>		
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2008</u>	sas no.:	<u>Q2008</u>
matrix:	<u>Water</u>	sample id:	<u>Q2008-01</u>	client id:	<u>IDW-AQ-DRUM-633-05092025MSD</u>		
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2008-01MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>		

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.25		0.082	J	4.0	79	N	CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
Matrix: Water **Level:** LOW **Client ID:** RW8-BW-20250507A
Sample ID: Q1985-01 **Spiked ID:** Q1985-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Manganese	ug/L	90 - 114	140		52.0		100	88	N	P
Silver	ug/L	84 - 115	25.3		5.00	U	37.5	68	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
Matrix: Water **Level:** LOW **Client ID:** IDW-AQ-DRUM-633-05092025A
Sample ID: Q2008-01 **Spiked ID:** Q2008-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.86		0.082	J	4.00	94		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
Matrix: Water **Sample ID:** Q1985-01 **Client ID:** RW8-BW-20250507DUP
Percent Solids for Sample: NA **Duplicate ID** Q1985-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	24.0	J	31.0	J	25		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	50.0	U	50.0	U			P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	1380		1390		1		P
Chromium	ug/L	20	2.48	J	2.47	J	0		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	10.0	U	10.0	U			P
Iron	ug/L	20	678		687		1		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	1330		1320		1		P
Manganese	ug/L	20	52.0		18.7		94	*	P
Nickel	ug/L	20	20.0	U	20.0	U			P
Potassium	ug/L	20	333000		344000		3		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	44800		46000		3		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	20.0	U	20.0	U			P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
Matrix: Water **Sample ID:** Q1985-01MS **Client ID:** RW8-BW-20250507MSD
Percent Solids for Sample: NA **Duplicate ID** Q1985-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	967		962		1		P
Antimony	ug/L	20	384		381		1		P
Arsenic	ug/L	20	394		391		1		P
Barium	ug/L	20	95.0		93.2		2		P
Beryllium	ug/L	20	90.9		92.2		1		P
Cadmium	ug/L	20	99.0		98.3		1		P
Calcium	ug/L	20	1880		1840		2		P
Chromium	ug/L	20	199		198		1		P
Cobalt	ug/L	20	98.0		97.2		1		P
Copper	ug/L	20	140		138		1		P
Iron	ug/L	20	2170		2140		1		P
Lead	ug/L	20	471		469		0		P
Magnesium	ug/L	20	2250		2220		1		P
Manganese	ug/L	20	170		113		40	*	P
Nickel	ug/L	20	241		238		1		P
Potassium	ug/L	20	351000		343000		2		P
Selenium	ug/L	20	916		915		0		P
Silver	ug/L	20	29.9		29.3		2		P
Sodium	ug/L	20	48000		46900		2		P
Thallium	ug/L	20	905		895		1		P
Vanadium	ug/L	20	141		139		1		P
Zinc	ug/L	20	101		100		1		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
Matrix: Water **Sample ID:** Q2008-01 **Client ID:** IDW-AQ-DRUM-633-05092025DUP
Percent Solids for Sample: NA **Duplicate ID** Q2008-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.082	J	0.20	U	200.0		CV

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008
Matrix: Water **Sample ID:** Q2008-01MS **Client ID:** IDW-AQ-DRUM-633-05092025MSD
Percent Solids for Sample: NA **Duplicate ID** Q2008-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.56		3.25		9		CV

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167955BS							
Aluminum	ug/L	1000	914		91	80 - 120	P
Antimony	ug/L	400	382		96	80 - 120	P
Arsenic	ug/L	400	382		96	80 - 120	P
Barium	ug/L	100	107		107	80 - 120	P
Beryllium	ug/L	100	96.5		96	80 - 120	P
Cadmium	ug/L	100	97.5		98	80 - 120	P
Calcium	ug/L	500	461	J	92	80 - 120	P
Chromium	ug/L	200	190		95	80 - 120	P
Cobalt	ug/L	100	94.5		94	80 - 120	P
Copper	ug/L	150	145		97	80 - 120	P
Iron	ug/L	1500	1400		93	80 - 120	P
Lead	ug/L	500	473		95	80 - 120	P
Magnesium	ug/L	1000	872	J	87	80 - 120	P
Manganese	ug/L	100	92.3		92	80 - 120	P
Nickel	ug/L	250	240		96	80 - 120	P
Potassium	ug/L	5000	4550		91	80 - 120	P
Selenium	ug/L	1000	973		97	80 - 120	P
Silver	ug/L	37.5	34.3		92	80 - 120	P
Sodium	ug/L	1500	1330		89	80 - 120	P
Thallium	ug/L	1000	968		97	80 - 120	P
Vanadium	ug/L	150	139		93	80 - 120	P
Zinc	ug/L	100	94.6		95	80 - 120	P

Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2008
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2008 **SAS No.:** Q2008

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB167980BS Mercury	ug/L	4.0	3.71		93	82 - 119	CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

RW8-BW-20250507L

Lab Name: Chemtech Consulting Group

Contract: JAC005

Lab Code: CHEM **Lb No.:** lb135794

Lab Sample ID : Q1985-01L

SDG No.: Q2008

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	24.0	J	47.8	J	99		P
Antimony	25.0	U	125	U			P
Arsenic	10.0	U	50.0	U			P
Barium	50.0	U	250	U			P
Beryllium	3.00	U	15.0	U			P
Cadmium	3.00	U	15.0	U			P
Calcium	1380		1330	J	4		P
Chromium	2.48	J	25.0	U	100.0		P
Cobalt	15.0	U	75.0	U			P
Copper	10.0	U	50.0	U			P
Iron	678		612		10		P
Lead	6.00	U	30.0	U			P
Magnesium	1330		1270	J	5		P
Manganese	52.0		49.6	J	5		P
Nickel	20.0	U	100	U			P
Potassium	333000		304000		9		P
Selenium	10.0	U	50.0	U			P
Silver	5.00	U	25.0	U			P
Sodium	44800		40500		10		P
Thallium	20.0	U	100	U			P
Vanadium	20.0	U	100	U			P
Zinc	20.0	U	100	U			P

Metals

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ICP SERIAL DILUTIONS

SAMPLE NO.

IDW-AQ-DRUM-633-05092025L

Lab Name: Chemtech Consulting Group

Contract: JACO05

Lab Code: CHEM

Lb No.: lb135763

Lab Sample ID : Q2008-01L

SDG No.: Q2008

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				
Mercury	0.082	J	1.00	U	100.0		CV



METAL PREPARATION & INSTRUMENT DATA

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	-0.0075970	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMEN CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Instrument ID: _____

Date: _____

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

Metals

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ICP INTERELEMENT CORRECTION FACTORS

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2008

Contract: JACO05

Lab Code: CHEM

Case No.: Q2008

SAS No.: Q2008

Instrument ID: _____

Date: _____

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Calcium	373.690	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Magnesium	279.079	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	SDG No.:	<u>Q2008</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2008</u>
		SAS No.:	<u>Q2008</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167955							
PB167955BL	PB167955BL	MB	WATER	05/12/2025	50.0	25.0	
PB167955BS	PB167955BS	LCS	WATER	05/12/2025	50.0	25.0	
Q1985-01DUP	RW8-BW-20250507DUP	DUP	WATER	05/12/2025	50.0	25.0	
Q1985-01MS	RW8-BW-20250507MS	MS	WATER	05/12/2025	50.0	25.0	
Q1985-01MSD	RW8-BW-20250507MSD	MSD	WATER	05/12/2025	50.0	25.0	
Q2008-01	IDW-AQ-DRUM-633-05092025	SAM	WATER	05/12/2025	50.0	25.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	SDG No.:	<u>Q2008</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>Q2008</u>
		SAS No.:	<u>Q2008</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB167980							
PB167980BL	PB167980BL	MB	WATER	05/13/2025	30.0	30.0	
PB167980BS	PB167980BS	LCS	WATER	05/13/2025	30.0	30.0	
Q2008-01	IDW-AQ-DRUM-633-05092025	SAM	WATER	05/13/2025	30.0	30.0	
Q2008-01DUP	IDW-AQ-DRUM-633-05092025DUP	DUP	WATER	05/13/2025	30.0	30.0	
Q2008-01MS	IDW-AQ-DRUM-633-05092025MS	MS	WATER	05/13/2025	30.0	30.0	
Q2008-01MSD	IDW-AQ-DRUM-633-05092025MSD	MSD	WATER	05/13/2025	30.0	30.0	

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** Q2008 **Sas no.:** Q2008

Sdg no.: Q2008

Instrument id number: _____ **Method:** _____

Run number: LB135763

Start date: 05/14/2025 **End date:** 05/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1127	HG
S0.2	S0.2	1	1130	HG
S2.5	S2.5	1	1132	HG
S5	S5	1	1134	HG
S7.5	S7.5	1	1136	HG
S10	S10	1	1139	HG
ICV08	ICV08	1	1142	HG
ICB08	ICB08	1	1144	HG
CCV22	CCV22	1	1146	HG
CCB22	CCB22	1	1151	HG
CRA	CRA	1	1154	HG
CCV23	CCV23	1	1224	HG
CCB23	CCB23	1	1226	HG
CCV24	CCV24	1	1251	HG
CCB24	CCB24	1	1254	HG
CCV25	CCV25	1	1328	HG
CCB25	CCB25	1	1330	HG
PB167980BL	PB167980BL	1	1353	HG
CCV26	CCV26	1	1355	HG
CCB26	CCB26	1	1357	HG
PB167980BS	PB167980BS	1	1400	HG
Q2008-01	IDW-AQ-DRUM-633-05092025	1	1418	HG
Q2008-01DUP	IDW-AQ-DRUM-633-05092025	1	1420	HG
CCV27	CCV27	1	1423	HG
CCB27	CCB27	1	1425	HG
Q2008-01MS	IDW-AQ-DRUM-633-05092025	1	1427	HG
Q2008-01MSD	IDW-AQ-DRUM-633-05092025	1	1429	HG
CCV28	CCV28	1	1439	HG
CCB28	CCB28	1	1441	HG
Q2008-01L	IDW-AQ-DRUM-633-05092025	5	1452	HG
Q2008-01A	IDW-AQ-DRUM-633-05092025	1	1455	HG
CCV29	CCV29	1	1457	HG
CCB29	CCB29	1	1459	HG

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** Q2008

Sas no.: Q2008

Sdg no.: Q2008

Instrument id number: **Method:**

Run number: LB135778

Start date: 05/14/2025 **End date:** 05/14/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1216	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1221	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1225	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1229	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1233	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1324	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1338	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1409	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1416	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1451	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1456	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2008-01	IDW-AQ-DRUM-633-05092025	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1644	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1648	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1808	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1812	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167955BL	PB167955BL	1	1825	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB167955BS	PB167955BS	1	1904	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1921	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1925	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** Q2008

Sas no.: Q2008

Sdg no.: Q2008

Instrument id number: **Method:**

Run number: LB135794

Start date: 05/15/2025 **End date:** 05/15/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1312	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1316	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1320	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1324	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1329	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1333	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1337	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1342	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1347	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1351	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1401	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1405	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1418	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1422	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1505	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1509	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01DUP	RW8-BW-20250507DUP	1	1544	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01L	RW8-BW-20250507L	5	1548	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1553	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1557	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01MS	RW8-BW-20250507MS	1	1601	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01MSD	RW8-BW-20250507MSD	1	1605	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q1985-01A	RW8-BW-20250507A	1	1610	Ag,Mn
CCV04	CCV04	1	1639	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1644	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	1727	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	1731	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	1741	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	1756	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	1847	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	1852	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn