

LAB CHRONICLE

OrderID:	Q3574	OrderDate:	11/7/2025 10:02:13 AM
Client:	Pacific Commercial Services Inc.	Project:	Kilo Pier
Contact:	Wendi Zheng	Location:	--Select--,J22,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3574-01	304641-01 Liquid	Water			11/04/25			11/07/25
			Mercury	7470A		11/10/25	11/10/25	
			Metals ICP-TAL	6010D		11/10/25	11/10/25	
Q3574-02	304641-01 Liquid	TCLP			11/04/25			11/07/25
			TCLP ICP Metals	6010D		11/12/25	11/12/25	
			TCLP Mercury	7470A		11/12/25	11/12/25	



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

Hit Summary Sheet
SW-846

SDG No.:	Q3574	Order ID:	Q3574
Client:	Pacific Commercial Services Inc.	Project ID:	Kilo Pier

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 304641-01 Liquid									
Q3574-02	304641-01 Liquid	TCLP	Barium	88.3		7.28	12.5	50.0	ug/L
Q3574-02	304641-01 Liquid	TCLP	Chromium	3.40	J	1.06	2.50	5.00	ug/L
Q3574-02	304641-01 Liquid	TCLP	Lead	13.0		1.15	4.80	6.00	ug/L



SAMPLE DATA

Report of Analysis

Client: Pacific Commercial Services Inc.
Project: Kilo Pier
Client Sample ID: 304641-01 Liquid
Lab Sample ID: Q3574-02
Level (low/med): low

Date Collected: 11/04/25
Date Received: 11/07/25
SDG No.: Q3574
Matrix: TCLP
% Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-38-2	Arsenic	7.50	U	1	2.56	7.50	10.0	ug/L	11/12/25 12:30	11/12/25 18:26	6010D	SW3050
7440-39-3	Barium	88.3	N	1	7.28	12.5	50.0	ug/L	11/12/25 12:30	11/12/25 18:26	6010D	SW3050
7440-43-9	Cadmium	0.75	U	1	0.25	0.75	3.00	ug/L	11/12/25 12:30	11/12/25 18:26	6010D	SW3050
7440-47-3	Chromium	3.40	J	1	1.06	2.50	5.00	ug/L	11/12/25 12:30	11/12/25 18:26	6010D	SW3050
7439-92-1	Lead	13.0		1	1.15	4.80	6.00	ug/L	11/12/25 12:30	11/12/25 18:26	6010D	SW3050
7439-97-6	Mercury	1.60	U	1	0.76	1.60	2.00	ug/L	11/12/25 11:30	11/12/25 15:02	7470A	M7470A
7782-49-2	Selenium	8.00	U	1	4.82	8.00	10.0	ug/L	11/12/25 12:30	11/12/25 18:26	6010D	SW3050
7440-22-4	Silver	2.50	U	1	0.81	2.50	5.00	ug/L	11/12/25 12:30	11/12/25 18:26	6010D	SW3050

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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
ICV111	Mercury	3.82	4.0	95	90 - 110	CV	11/12/2025	14:32	LB137868

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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
CCV66	Mercury	5.12	5.0	102	90 - 110	CV	11/12/2025	14:39	LB137868
CCV67	Mercury	5.08	5.0	102	90 - 110	CV	11/12/2025	15:16	LB137868
CCV68	Mercury	4.96	5.0	99	90 - 110	CV	11/12/2025	15:32	LB137868

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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	Arsenic	4150	4000	104	90 - 110	P	11/12/2025	16:56	LB137883
	Barium	7600	8000	95	90 - 110	P	11/12/2025	16:56	LB137883
	Cadmium	2010	2000	101	90 - 110	P	11/12/2025	16:56	LB137883
	Chromium	803	800	100	90 - 110	P	11/12/2025	16:56	LB137883
	Lead	3980	4000	100	90 - 110	P	11/12/2025	16:56	LB137883
	Selenium	4120	4000	103	90 - 110	P	11/12/2025	16:56	LB137883
	Silver	1040	1000	104	90 - 110	P	11/12/2025	16:56	LB137883

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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	Arsenic	21.5	20.0	107	80 - 120	P	11/12/2025	17:25	LB137883
	Barium	101	100	101	80 - 120	P	11/12/2025	17:25	LB137883
	Cadmium	5.74	6.0	96	80 - 120	P	11/12/2025	17:25	LB137883
	Chromium	10.2	10.0	102	80 - 120	P	11/12/2025	17:25	LB137883
	Lead	9.89	12.0	82	80 - 120	P	11/12/2025	17:25	LB137883
	Selenium	17.6	20.0	88	80 - 120	P	11/12/2025	17:25	LB137883
	Silver	11.2	10.0	112	80 - 120	P	11/12/2025	17:25	LB137883

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Pacific Commercial Services Inc.
Contract: PACI01
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

SDG No.: Q3574
Lab Code: ACE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	5040	5000	101	90 - 110	P	11/12/2025	18:01	LB137883
	Barium	9410	10000	94	90 - 110	P	11/12/2025	18:01	LB137883
	Cadmium	2390	2500	96	90 - 110	P	11/12/2025	18:01	LB137883
	Chromium	985	1000	98	90 - 110	P	11/12/2025	18:01	LB137883
	Lead	4730	5000	95	90 - 110	P	11/12/2025	18:01	LB137883
	Selenium	4800	5000	96	90 - 110	P	11/12/2025	18:01	LB137883
	Silver	1200	1250	96	90 - 110	P	11/12/2025	18:01	LB137883
CCV02	Arsenic	5130	5000	102	90 - 110	P	11/12/2025	19:04	LB137883
	Barium	9190	10000	92	90 - 110	P	11/12/2025	19:04	LB137883
	Cadmium	2410	2500	96	90 - 110	P	11/12/2025	19:04	LB137883
	Chromium	1000	1000	100	90 - 110	P	11/12/2025	19:04	LB137883
	Lead	4790	5000	96	90 - 110	P	11/12/2025	19:04	LB137883
	Selenium	4910	5000	98	90 - 110	P	11/12/2025	19:04	LB137883
	Silver	1210	1250	97	90 - 110	P	11/12/2025	19:04	LB137883
CCV03	Arsenic	5220	5000	104	90 - 110	P	11/12/2025	20:29	LB137883
	Barium	9550	10000	96	90 - 110	P	11/12/2025	20:29	LB137883
	Cadmium	2400	2500	96	90 - 110	P	11/12/2025	20:29	LB137883
	Chromium	1000	1000	100	90 - 110	P	11/12/2025	20:29	LB137883
	Lead	4770	5000	95	90 - 110	P	11/12/2025	20:29	LB137883
	Selenium	5020	5000	100	90 - 110	P	11/12/2025	20:29	LB137883
	Silver	1240	1250	99	90 - 110	P	11/12/2025	20:29	LB137883
CCV04	Arsenic	5310	5000	106	90 - 110	P	11/12/2025	21:46	LB137883
	Barium	9420	10000	94	90 - 110	P	11/12/2025	21:46	LB137883
	Cadmium	2640	2500	105	90 - 110	P	11/12/2025	21:46	LB137883
	Chromium	1100	1000	110	90 - 110	P	11/12/2025	21:46	LB137883
	Lead	5200	5000	104	90 - 110	P	11/12/2025	21:46	LB137883
	Selenium	5170	5000	103	90 - 110	P	11/12/2025	21:46	LB137883
	Silver	1350	1250	108	90 - 110	P	11/12/2025	21:46	LB137883
CCV05	Arsenic	5030	5000	100	90 - 110	P	11/12/2025	22:16	LB137883
	Barium	9330	10000	93	90 - 110	P	11/12/2025	22:16	LB137883
	Cadmium	2420	2500	97	90 - 110	P	11/12/2025	22:16	LB137883
	Chromium	1000	1000	100	90 - 110	P	11/12/2025	22:16	LB137883
	Lead	4740	5000	95	90 - 110	P	11/12/2025	22:16	LB137883
	Selenium	4790	5000	96	90 - 110	P	11/12/2025	22:16	LB137883

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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	Silver	1260	1250	101	90 - 110	P	11/12/2025	22:16	LB137883
CCV06	Arsenic	5080	5000	102	90 - 110	P	11/12/2025	22:53	LB137883
	Barium	9580	10000	96	90 - 110	P	11/12/2025	22:53	LB137883
	Cadmium	2430	2500	97	90 - 110	P	11/12/2025	22:53	LB137883
	Chromium	1000	1000	100	90 - 110	P	11/12/2025	22:53	LB137883
	Lead	4780	5000	96	90 - 110	P	11/12/2025	22:53	LB137883
	Selenium	4860	5000	97	90 - 110	P	11/12/2025	22:53	LB137883
	Silver	1260	1250	101	90 - 110	P	11/12/2025	22:53	LB137883



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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	0.23	0.2	113	70 - 130	CV	11/12/2025	14:44	LB137868
CRI01	Arsenic	17.1	20.0	86	65 - 135	P	11/12/2025	22:07	LB137883
	Barium	94.0	100	94	65 - 135	P	11/12/2025	22:07	LB137883
	Cadmium	5.94	6.0	99	65 - 135	P	11/12/2025	22:07	LB137883
	Chromium	10.9	10.0	109	65 - 135	P	11/12/2025	22:07	LB137883
	Lead	11.8	12.0	99	65 - 135	P	11/12/2025	22:07	LB137883
	Selenium	21.6	20.0	108	65 - 135	P	11/12/2025	22:07	LB137883
	Silver	9.58	10.0	96	65 - 135	P	11/12/2025	22:07	LB137883



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB111	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	11/12/2025	14:34	LB137868

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB66	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	11/12/2025	14:42	LB137868
CCB67	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	11/12/2025	15:18	LB137868
CCB68	Mercury	0.076	+/-0.2	U	0.16	0.20	CV	11/12/2025	15:34	LB137868

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Arsenic	5.12	+/-10	U	15.0	20.0	P	11/12/2025	17:35	LB137883
	Barium	14.6	+/-50	U	25.0	100	P	11/12/2025	17:35	LB137883
	Cadmium	0.50	+/-3	U	1.50	6.00	P	11/12/2025	17:35	LB137883
	Chromium	2.12	+/-5	U	5.00	10.0	P	11/12/2025	17:35	LB137883
	Lead	2.30	+/-6	U	9.60	12.0	P	11/12/2025	17:35	LB137883
	Selenium	9.64	+/-10	U	16.0	20.0	P	11/12/2025	17:35	LB137883
	Silver	1.62	+/-5	U	5.00	10.0	P	11/12/2025	17:35	LB137883

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Arsenic	5.12	+/-10	U	15.0	20.0	P	11/12/2025	18:13	LB137883
	Barium	14.6	+/-50	U	25.0	100	P	11/12/2025	18:13	LB137883
	Cadmium	0.50	+/-3	U	1.50	6.00	P	11/12/2025	18:13	LB137883
	Chromium	2.12	+/-5	U	5.00	10.0	P	11/12/2025	18:13	LB137883
	Lead	2.30	+/-6	U	9.60	12.0	P	11/12/2025	18:13	LB137883
	Selenium	9.64	+/-10	U	16.0	20.0	P	11/12/2025	18:13	LB137883
	Silver	1.68	+/-5	J	5.00	10.0	P	11/12/2025	18:13	LB137883
CCB02	Arsenic	5.12	+/-10	U	15.0	20.0	P	11/12/2025	19:24	LB137883
	Barium	14.6	+/-50	U	25.0	100	P	11/12/2025	19:24	LB137883
	Cadmium	0.50	+/-3	U	1.50	6.00	P	11/12/2025	19:24	LB137883
	Chromium	2.12	+/-5	U	5.00	10.0	P	11/12/2025	19:24	LB137883
	Lead	2.30	+/-6	U	9.60	12.0	P	11/12/2025	19:24	LB137883
	Selenium	9.64	+/-10	U	16.0	20.0	P	11/12/2025	19:24	LB137883
	Silver	1.62	+/-5	U	5.00	10.0	P	11/12/2025	19:24	LB137883
CCB03	Arsenic	5.12	+/-10	U	15.0	20.0	P	11/12/2025	20:37	LB137883
	Barium	14.6	+/-50	U	25.0	100	P	11/12/2025	20:37	LB137883
	Cadmium	0.50	+/-3	U	1.50	6.00	P	11/12/2025	20:37	LB137883
	Chromium	2.12	+/-5	U	5.00	10.0	P	11/12/2025	20:37	LB137883
	Lead	2.30	+/-6	U	9.60	12.0	P	11/12/2025	20:37	LB137883
	Selenium	9.64	+/-10	U	16.0	20.0	P	11/12/2025	20:37	LB137883
	Silver	1.62	+/-5	U	5.00	10.0	P	11/12/2025	20:37	LB137883
CCB04	Arsenic	5.12	+/-10	U	15.0	20.0	P	11/12/2025	22:03	LB137883
	Barium	14.6	+/-50	U	25.0	100	P	11/12/2025	22:03	LB137883
	Cadmium	0.50	+/-3	U	1.50	6.00	P	11/12/2025	22:03	LB137883
	Chromium	2.12	+/-5	U	5.00	10.0	P	11/12/2025	22:03	LB137883
	Lead	2.30	+/-6	U	9.60	12.0	P	11/12/2025	22:03	LB137883
	Selenium	9.64	+/-10	U	16.0	20.0	P	11/12/2025	22:03	LB137883
	Silver	1.62	+/-5	U	5.00	10.0	P	11/12/2025	22:03	LB137883
CCB05	Arsenic	5.12	+/-10	U	15.0	20.0	P	11/12/2025	22:20	LB137883
	Barium	14.6	+/-50	U	25.0	100	P	11/12/2025	22:20	LB137883
	Cadmium	0.50	+/-3	U	1.50	6.00	P	11/12/2025	22:20	LB137883
	Chromium	2.12	+/-5	U	5.00	10.0	P	11/12/2025	22:20	LB137883
	Lead	2.30	+/-6	U	9.60	12.0	P	11/12/2025	22:20	LB137883
	Selenium	9.64	+/-10	U	16.0	20.0	P	11/12/2025	22:20	LB137883
	Silver	1.62	+/-5	U	5.00	10.0	P	11/12/2025	22:20	LB137883
CCB06	Arsenic	5.12	+/-10	U	15.0	20.0	P	11/12/2025	22:57	LB137883
	Barium	14.6	+/-50	U	25.0	100	P	11/12/2025	22:57	LB137883
	Cadmium	0.50	+/-3	U	1.50	6.00	P	11/12/2025	22:57	LB137883
	Chromium	2.12	+/-5	U	5.00	10.0	P	11/12/2025	22:57	LB137883

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Lead	2.30	+/-6	U	9.60	12.0	P	11/12/2025	22:57	LB137883
	Selenium	9.64	+/-10	U	16.0	20.0	P	11/12/2025	22:57	LB137883
	Silver	1.62	+/-5	U	5.00	10.0	P	11/12/2025	22:57	LB137883

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170490TB		WATER		Batch Number:		PB170511		Prep Date:	11/12/2025	
	Mercury	0.76	<2	U	1.60	2.00	CV	11/12/2025	15:23	LB137868
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170493TB		WATER		Batch Number:		PB170511		Prep Date:	11/12/2025	
	Mercury	0.76	<2	U	1.60	2.00	CV	11/12/2025	15:25	LB137868
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170511BL		WATER		Batch Number:		PB170511		Prep Date:	11/12/2025	
	Mercury	0.076	<0.2	U	0.16	0.20	CV	11/12/2025	14:51	LB137868

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Instrument: P4

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170490TB		WATER		Batch Number:		PB170507		Prep Date:	11/12/2025	
	Arsenic	2.56	<5	U	7.50	10.0	P	11/12/2025	18:34	LB137883
	Barium	7.28	<25	U	12.5	50.0	P	11/12/2025	18:34	LB137883
	Cadmium	0.25	<1.5	J	0.75	3.00	P	11/12/2025	18:34	LB137883
	Chromium	2.5	<2.5	J	2.50	5.00	P	11/12/2025	18:34	LB137883
	Lead	1.15	<3	U	4.80	6.00	P	11/12/2025	18:34	LB137883
	Selenium	4.82	<5	U	8.00	10.0	P	11/12/2025	18:34	LB137883
	Silver	0.81	<2.5	U	2.50	5.00	P	11/12/2025	18:34	LB137883
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170493TB		WATER		Batch Number:		PB170507		Prep Date:	11/12/2025	
	Arsenic	2.56	<5	U	7.50	10.0	P	11/12/2025	18:38	LB137883
	Barium	7.28	<25	U	12.5	50.0	P	11/12/2025	18:38	LB137883
	Cadmium	0.25	<1.5	U	0.75	3.00	P	11/12/2025	18:38	LB137883
	Chromium	2.5	<2.5	J	2.50	5.00	P	11/12/2025	18:38	LB137883
	Lead	1.15	<3	U	4.80	6.00	P	11/12/2025	18:38	LB137883
	Selenium	4.82	<5	U	8.00	10.0	P	11/12/2025	18:38	LB137883
	Silver	0.81	<2.5	U	2.50	5.00	P	11/12/2025	18:38	LB137883
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB170507BL		WATER		Batch Number:		PB170507		Prep Date:	11/12/2025	
	Arsenic	2.56	<5	U	7.50	10.0	P	11/12/2025	18:17	LB137883
	Barium	7.28	<25	U	12.5	50.0	P	11/12/2025	18:17	LB137883
	Cadmium	0.25	<1.5	U	0.75	3.00	P	11/12/2025	18:17	LB137883
	Chromium	1.06	<2.5	U	2.50	5.00	P	11/12/2025	18:17	LB137883
	Lead	1.15	<3	U	4.80	6.00	P	11/12/2025	18:17	LB137883
	Selenium	4.82	<5	U	8.00	10.0	P	11/12/2025	18:17	LB137883
	Silver	0.81	<2.5	U	2.50	5.00	P	11/12/2025	18:17	LB137883

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: <u>Pacific Commercial Services Inc.</u>	SDG No.: <u>Q3574</u>
Contract: <u>PACI01</u>	Lab Code: <u>ACE</u>
ICS Source: <u>EPA</u>	Instrument ID: <u>P4</u>

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	Arsenic	7.40			-20	20	11/12/2025	17:44	LB137883
	Barium	8.38	6.0	140	-94	106	11/12/2025	17:44	LB137883
	Cadmium	-0.82	1.0	82	-5	7	11/12/2025	17:44	LB137883
	Chromium	50.4	52.0	97	42	62	11/12/2025	17:44	LB137883
	Lead	-8.49			-12	12	11/12/2025	17:44	LB137883
	Selenium	-3.77			-20	20	11/12/2025	17:44	LB137883
	Silver	8.44			-10	10	11/12/2025	17:44	LB137883
ICSAB01	Arsenic	113	104	109	88.4	120	11/12/2025	17:48	LB137883
	Barium	464	537	86	437	637	11/12/2025	17:48	LB137883
	Cadmium	966	972	99	826	1120	11/12/2025	17:48	LB137883
	Chromium	558	542	103	460	624	11/12/2025	17:48	LB137883
	Lead	38.8	49.0	79	37	61	11/12/2025	17:48	LB137883
	Selenium	38.7	46.0	84	26	66	11/12/2025	17:48	LB137883
	Silver	204	201	102	170	232	11/12/2025	17:48	LB137883



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Pacific Commercial Services Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3574</u>
contract: <u>PACI01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3604-02</u>	client id: <u>S-2MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3604-02MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	87 - 113	393		10.0	U	400	98		P
Barium	ug/L	88 - 113	476		395		100	82	N	P
Cadmium	ug/L	88 - 113	94.7		3.00	U	100	95		P
Chromium	ug/L	90 - 113	206		4.51	J	200	101		P
Lead	ug/L	86 - 113	459		2.84	J	500	91		P
Mercury	ug/L	82 - 119	39.3		0.83	J	40.0	96		CV
Selenium	ug/L	83 - 114	920		10.0	U	1000	92		P
Silver	ug/L	84 - 115	34.3		5.00	U	37.5	92		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Pacific Commercial Services Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3574</u>
contract: <u>PACI01</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3604-02</u>	client id: <u>S-2MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3604-02MSD</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
Arsenic	ug/L	87 - 113	375		10.0	U	400	94		P
Barium	ug/L	88 - 113	474		395		100	79	N	P
Cadmium	ug/L	88 - 113	89.6		3.00	U	100	90		P
Chromium	ug/L	90 - 113	192		4.51	J	200	94		P
Lead	ug/L	86 - 113	435		2.84	J	500	86		P
Mercury	ug/L	82 - 119	39.0		0.83	J	40.0	96		CV
Selenium	ug/L	83 - 114	876		10.0	U	1000	88		P
Silver	ug/L	84 - 115	32.2		5.00	U	37.5	86		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client:	<u>Pacific Commercial Services Inc.</u>	SDG No.:	<u>Q3574</u>
Contract:	<u>PACI01</u>	Lab Code:	<u>ACE</u>
Matrix:	<u>Water</u>	Level:	<u>LOW</u>
Sample ID:	<u>Q3604-02</u>	Client ID:	<u>S-2A</u>
Spiked ID:	<u>Q3604-02A</u>		

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Barium	ug/L	88 - 113	475		395		100	80	N	P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Pacific Commercial Services Inc. **Level:** LOW **SDG No.:** Q3574
Contract: PACI01 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q3604-02 **Client ID:** S-2DUP
Percent Solids for Sample: NA **Duplicate ID** Q3604-02DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	395		396		0		P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Chromium	ug/L	20	4.51	J	4.17	J	8		P
Lead	ug/L	20	2.84	J	1.61	J	55		P
Mercury	ug/L	20	0.83	J	2.00	U	200.0		CV
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Pacific Commercial Services Inc. **Level:** LOW **SDG No.:** Q3574
Contract: PACI01 **Lab Code:** ACE
Matrix: Water **Sample ID:** Q3604-02MS **Client ID:** S-2MSD
Percent Solids for Sample: NA **Duplicate ID** Q3604-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	ug/L	20	393		375		5		P
Barium	ug/L	20	476		474		0		P
Cadmium	ug/L	20	94.7		89.6		6		P
Chromium	ug/L	20	206		192		7		P
Lead	ug/L	20	459		435		5		P
Mercury	ug/L	20	39.3		39.0		1		CV
Selenium	ug/L	20	920		876		5		P
Silver	ug/L	20	34.3		32.2		6		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client:	<u>Pacific Commercial Services Inc.</u>	SDG No.:	<u>Q3574</u>
Contract:	<u>PACI01</u>	Lab Code:	<u>ACE</u>

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170507BS							
Arsenic	ug/L	400	388		97	87 - 113	P
Barium	ug/L	100	95.5		96	88 - 113	P
Cadmium	ug/L	100	91.0		91	88 - 113	P
Chromium	ug/L	200	197		98	90 - 113	P
Lead	ug/L	500	447		89	86 - 113	P
Selenium	ug/L	1000	928		93	83 - 114	P
Silver	ug/L	37.5	36.1		96	84 - 115	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB170511BS Mercury	ug/L	4.0	3.90		98	82 - 119	CV

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

S-2L

Lab Name: Alliance **Contract:** PACI01
Lab Code: ACE **Lb No.:** lb137883 **Lab Sample ID :** Q3604-02L **SDG No.:** Q3574
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				
Arsenic	10.0	U	50.0	U				P
Barium	395		395		0			P
Cadmium	3.00	U	15.0	U				P
Chromium	4.51	J	25.0	U	100.0			P
Lead	2.84	J	30.0	U	100.0			P
Mercury	0.83	J	10.0	U	100.0			CV
Selenium	10.0	U	50.0	U				P
Silver	5.00	U	25.0	U				P



METAL PREPARATION & INSTRUMENT DATA

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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
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
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		As	Ba	Be	Cd	Co
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0003170	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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Cr	Cu	K	Mn	Mo
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Instrument ID:

Date:

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave- Length (nm)	ICP Interelement Correction Factors For:				
		Na	Ni	Pb	Sb	Se
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
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
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

Metals

- 11 -

ICP INTERELEMENT CORRECTION FACTORS

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

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
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
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Lead	220.353	0.0000000	-0.0003610	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

METAL PREPARATION & ANALYICAL SUMMARY

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170507							
PB170490TB	PB170490TB	MB	WATER	11/12/2025	50.0	25.0	
PB170493TB	PB170493TB	MB	WATER	11/12/2025	50.0	25.0	
PB170507BL	PB170507BL	MB	WATER	11/12/2025	50.0	25.0	
PB170507BS	PB170507BS	LCS	WATER	11/12/2025	50.0	25.0	
Q3574-02	304641-01 Liquid	SAM	WATER	11/12/2025	50.0	25.0	
Q3604-02DUP	S-2DUP	DUP	WATER	11/12/2025	50.0	25.0	
Q3604-02MS	S-2MS	MS	WATER	11/12/2025	50.0	25.0	
Q3604-02MSD	S-2MSD	MSD	WATER	11/12/2025	50.0	25.0	

Metals

- 13 -

SAMPLE PREPARATION SUMMARY

Client: Pacific Commercial Services Inc.

SDG No.: Q3574

Contract: PACI01

Lab Code: ACE

Method: _____

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB170511							
PB170490TB	PB170490TB	MB	WATER	11/12/2025	3.0	30.0	
PB170493TB	PB170493TB	MB	WATER	11/12/2025	3.0	30.0	
PB170511BL	PB170511BL	MB	WATER	11/12/2025	30.0	30.0	
PB170511BS	PB170511BS	LCS	WATER	11/12/2025	30.0	30.0	
Q3574-02	304641-01 Liquid	SAM	WATER	11/12/2025	3.0	30.0	
Q3604-02DUP	S-2DUP	DUP	WATER	11/12/2025	3.0	30.0	
Q3604-02MS	S-2MS	MS	WATER	11/12/2025	3.0	30.0	
Q3604-02MSD	S-2MSD	MSD	WATER	11/12/2025	3.0	30.0	

metals
- 14 -
ANALYSIS RUN LOG

Client: Pacific Commercial Services Inc.

Contract: PACI01

Lab code: ACE

Sdg no.: Q3574

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

Run number: LB137868

Start date: 11/12/2025 **End date:** 11/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1415	HG
S0.2	S0.2	1	1417	HG
S2.5	S2.5	1	1419	HG
S5	S5	1	1425	HG
S7.5	S7.5	1	1427	HG
S10	S10	1	1429	HG
ICV111	ICV111	1	1432	HG
ICB111	ICB111	1	1434	HG
CCV66	CCV66	1	1439	HG
CCB66	CCB66	1	1442	HG
CRA	CRA	1	1444	HG
PB170511BL	PB170511BL	1	1451	HG
PB170511BS	PB170511BS	1	1459	HG
Q3574-02	304641-01 Liquid	1	1502	HG
Q3604-02DUP	S-2DUP	1	1509	HG
Q3604-02MS	S-2MS	1	1514	HG
CCV67	CCV67	1	1516	HG
CCB67	CCB67	1	1518	HG
Q3604-02MSD	S-2MSD	1	1520	HG
PB170490TB	PB170490TB	1	1523	HG
PB170493TB	PB170493TB	1	1525	HG
Q3604-02L	S-2L	5	1527	HG
CCV68	CCV68	1	1532	HG
CCB68	CCB68	1	1534	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: Pacific Commercial Services Inc.

Contract: PACI01

Lab code: ACE

Sdg no.: Q3574

Instrument id number:

Method:

Run number: LB137883

Start date: 11/12/2025

End date: 11/12/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1621	Ag,As,Ba,Cd,Cr,Pb,Se
S1	S1	1	1626	Ag,As,Ba,Cd,Cr,Pb,Se
S2	S2	1	1630	Ag,As,Ba,Cd,Cr,Pb,Se
S3	S3	1	1634	Ag,As,Ba,Cd,Cr,Pb,Se
S4	S4	1	1638	Ag,As,Ba,Cd,Cr,Pb,Se
S5	S5	1	1642	Ag,As,Ba,Cd,Cr,Pb,Se
ICV01	ICV01	1	1656	Ag,As,Ba,Cd,Cr,Pb,Se
LLICV01	LLICV01	1	1725	Ag,As,Ba,Cd,Cr,Pb,Se
ICB01	ICB01	1	1735	Ag,As,Ba,Cd,Cr,Pb,Se
ICSA01	ICSA01	1	1744	Ag,As,Ba,Cd,Cr,Pb,Se
ICSAB01	ICSAB01	1	1748	Ag,As,Ba,Cd,Cr,Pb,Se
CCV01	CCV01	1	1801	Ag,As,Ba,Cd,Cr,Pb,Se
CCB01	CCB01	1	1813	Ag,As,Ba,Cd,Cr,Pb,Se
PB170507BL	PB170507BL	1	1817	Ag,As,Ba,Cd,Cr,Pb,Se
PB170507BS	PB170507BS	1	1822	Ag,As,Ba,Cd,Cr,Pb,Se
Q3574-02	304641-01 Liquid	1	1826	Ag,As,Ba,Cd,Cr,Pb,Se
PB170490TB	PB170490TB	1	1834	Ag,As,Ba,Cd,Cr,Pb,Se
PB170493TB	PB170493TB	1	1838	Ag,As,Ba,Cd,Cr,Pb,Se
Q3604-02DUP	S-2DUP	1	1851	Ag,As,Ba,Cd,Cr,Pb,Se
Q3604-02L	S-2L	5	1855	Ag,As,Ba,Cd,Cr,Pb,Se
Q3604-02MS	S-2MS	1	1900	Ag,As,Ba,Cd,Cr,Pb,Se
CCV02	CCV02	1	1904	Ag,As,Ba,Cd,Cr,Pb,Se
CCB02	CCB02	1	1924	Ag,As,Ba,Cd,Cr,Pb,Se
Q3604-02MSD	S-2MSD	1	1928	Ag,As,Ba,Cd,Cr,Pb,Se
Q3604-02A	S-2A	1	1932	Ba
CCV03	CCV03	1	2029	Ag,As,Ba,Cd,Cr,Pb,Se
CCB03	CCB03	1	2037	Ag,As,Ba,Cd,Cr,Pb,Se
CCV04	CCV04	1	2146	Ag,As,Ba,Cd,Cr,Pb,Se
CCB04	CCB04	1	2203	Ag,As,Ba,Cd,Cr,Pb,Se
CRI01	CRI01	1	2207	Ag,As,Ba,Cd,Cr,Pb,Se
CCV05	CCV05	1	2216	Ag,As,Ba,Cd,Cr,Pb,Se
CCB05	CCB05	1	2220	Ag,As,Ba,Cd,Cr,Pb,Se
CCV06	CCV06	1	2253	Ag,As,Ba,Cd,Cr,Pb,Se
CCB06	CCB06	1	2257	Ag,As,Ba,Cd,Cr,Pb,Se