

**CITY OF PORT ALBERNI - ENGINEERING DEPT.  
RAW WATER QUALITY PARAMETERS - ANNUAL AVERAGES**

Parameter	Units	Allowable Limit	Typical Range	Average China Cr.	(Scr Chamber)	Average Somass	(Intake)
					Average Bainbridge		Average Bainbridge
pH	units	6.5-8.5	6.5-8.1	7.70	7.24	7.38	3.68
Conductivity (det lim 1)	uS/cm	--	40-150	110	56	42	24
True Color (det lim 5)	co/pt	15	0-10	3	6	5	3
Turbidity	NTU	5	0.1-5.0	0.55	0.68	0.70	0.25
Hardness (CaCO3)	mg/l	0-75	16-60	50	24	19	10
Total Dissolved Solids	mg/l	500	17-130	68	36	25	14
Total Suspended Solids	mg/l		0-1	2	1	3	0
Alkalinity Total	mg/l	--	15-76	55.6	28.7	21.5	11.0
Chloride	mg/l	250	1-5	3.0	2.1	1.5	0.9
Sulfate (as SO4)	mg/l	500	0.5-5	2.47	1.64	1.44	0.00
Nitrate and Nitrite(as N)(lim 0.05)	mg/l	10	0.003-0.1	0.06	0.04	0.04	0.01
Fluoride (det lim 0.05)	mg/l	1.5	0-0.15	0.04	0.03	0.03	0.01
Total Organic Carbon C	mg/l			1.3	1.9	1.4	0.9
Cyanide (det lim 0.005)	mg/l	0.2	<0.005	0.002	0.000	0.000	<
				0.00	0.00		
Total Coliform (pre disinfection)	MPN/100ml	10	0-200	133.25	185.63	528.09	7.00
Fecal Coliform (pre disinfection)	MPN/100ml	0	0-50	2.22	3.19	9.11	0.00
Giardia Cysts viable	#/700l		0	0.32	0.57	#DIV/0!	<
Cryptosporidium Cysts viable	#/700l		0	0.71	0.08	#DIV/0!	0.86
Aluminum (det lim 0.15)	mg/l		<0.15	0.30	0.25	0.21	0.06
Antimony (det lim 0.15)	mg/l	0.006	<0.15	#DIV/0!	#DIV/0!	#DIV/0!	<
Arsenic (det lim 0.3)	mg/l	0.025	<0.3	0.0	0.0	0.0	<
Barium (det lim 0.001)	mg/l	1.0	0-.013	0.010	0.009	0.003	<
Beryllium (det lim 0.003)	mg/l		<0.003	#DIV/0!	0.004	0.005	<
Boron (det lim 0.01)	mg/l	5.0	0-.03	0.15	0.17	0.24	<
Cadmium (det lim 0.025)	mg/l	0.005	<0.025	0.000	0.001	0.016	<
Calcium (det lim 0.01)	mg/l	200	5-25	18.39	8.40	6.66	3.38
Chromium (det lim 0.03)	mg/l	0.05	<0.03	0.02	0.01	0.01	<
Cobalt (det lim 0.02)	mg/l		<0.02	0.03	0.02	0.02	0.01
Copper (det lim 0.015)	mg/l	1.0	<0.015	0.021	0.024	0.030	<
Iron (det lim 0.03)	mg/l	0.3	.03-.150	0.03	0.10	0.07	0.03
Lead (det lim <.001)	mg/l	0.01	<0.004	0.002	0.002	0.066	<
Magnesium (det lim 0.01)	mg/l	50	0.5-1.3	1.12	0.83	0.61	0.42
Manganese (det lim <.003)	mg/l	0.05	.005-.05	0.005	0.008	0.004	0.002
Mercury ( lim <.00005)	mg/l	0.001	<0.00005	0.00031	0.00024	0.00025	<
Molybdenum (det lim 0.04)	mg/l		<0.04	0.02	#DIV/0!	0.02	<
Nickel (det lim 0.025)	mg/l		<0.025	0.1	#DIV/0!	#DIV/0!	<
Phosphorus (det lim 0.4)	mg/l		<0.4	0.1	0.1	0.0	<
Potassium (det lim .01)	mg/l		0.1-0.3	0.25	0.26	0.22	0.03
Silicon (det lim <.08)	mg/l		1-4	2.42	2.04	1.53	0.59
Silver (det lim 0.03)	mg/l	0.05	<0.03	#DIV/0!	#DIV/0!	#DIV/0!	<
Sodium (det lim 0.1)	mg/l	200	1-3	2.3	2.1	1.5	0.82
Strontium(det lim <.001)	mg/l		<0.001	0.038	0.023	0.010	0.010
Tin (det lim 0.03)	mg/l		<0.03	0.27	0.27	0.37	<
Titanium (det lim 0.006)	mg/l		<0.006	0.015	0.012	0.016	<
Vanadium (det lim 0.01)	mg/l		<0.01	0.02	0.01	0.01	<
Zinc (det lim 0.015)	mg/l	5.0	<0.015	0.013	0.020	0.055	0.006
Zirconium (det lim 0.015)	mg/l		<0.015	0.000	#DIV/0!	#DIV/0!	