



**CITY OF PORT ALBERNI - ENGINEERING DEPT.
FINISHED WATER QUALITY PARAMETERS - AVERAGE VALUES**

Parameter	Detection Limit	Units	Allowable Limit	Typical Range	Average* Value	Anderson Ave	Works Yard	Falls Road	Harbour Rd	Johnston Reservoir	Tebo Road	Wallace Street	Loewen Rd	Victoria Drive	Sunrise Est.
Conventional Parameters															
pH		units	6.5-8.5	7.2-7.8	7.40	7.40	7.23	7.45	7.36	7.41	7.44	7.37	7.43	7.46	7.49
Conductivity	1	uS/cm	--	90-110	92	95	78	97	95	93	93	92	91	93	91
True Color	5	co/pt	15	0-10	3	3	4	3	3	3	3	3	2	1	1.48
Turbidity	0.1	NTU	5	0.1-2.0	0.46	0.43	0.25	0.59	0.45	0.45	0.39	0.55	0.51	0.44	0.50
Hardness (CaCO3)	1	mg/l	200	16-60	44	46	33	46	45	45	44	45	45	48	48
Total Dissolved Solids	10	mg/l	500	70-100	59	59	64	62	60	59	61	60	52	55	54
Total Suspended Solids	1	mg/l		<1	1.05	1	<	1.35	1.79	0.64	0.92	2.03	0.53	0.72	0.79
Alkalinity Total	0.5	mg/l	--	15-76	46.0	48.9	42.7	48.7	46.3	45.1	48.8	47.2	41.2	47.1	43.8
Chloride	0.2	mg/l	250	1-5	3.5	3.5	3.1	3.5	3.4	3.4	3.5	3.4	3.8	3.7	3.8
Sulfate (as SO4)	1	mg/l	500	0.5-5	2.6	2.8	1.9	2.6	2.5	2.5	2.5	2.5	2.8	2.8	2.91
Nitrate and Nitrite(as N)	0.05	mg/l	10	0.003-0.1	0.12	0.06	<	0.06	0.05	0.06	0.06	0.07	0.05	0.60	0.06
Fluoride	0.05	mg/l	1.5	0-0.15	0.03	0.07	<	0.03	0.03	0.03	0.04	0.03	0.02	0.02	0.02
Cyanide	0.01	mg/l	0.2	<0.005	#DIV/0!	#DIV/0!	<	<	<	<	<	0.03	<	<	<
Biological Analysis															
Total Coliform	1	CFU/100ml	0	0-8	0.28	0.21	<	0.47	1.42	0.07	0.37	0.00	0.00	0.00	0.00
Fecal Coliform	1	CFU/100ml	0	0	0.00	0.00	<	<	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Metals Analysis															
Aluminum	0.15	mg/l		<0.15	0.19	0.18	<	0.18	0.19	0.17	0.18	0.21	0.18	0.19	0.20
Antimony	0.0005	mg/l		<0.15	<	<	<	<	<	<	<	<	<	<	<
Arsenic	0.0005	mg/l	0.05	<0.3	0.01	0.00	<	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Barium	0.009	mg/l	1.0	0-0.13	0.013	0.013	0.006	0.013	0.012	0.013	0.014	0.012	0.017	0.015	0.019
Beryllium	0.003	mg/l		<0.003	<	0	<	<	<	<	<	0.00	0.00	0.00	0.00
Boron	0.01	mg/l	5.0	0-0.03	0.20	0.21	0.10	0.19	0.20	0.19	0.17	0.17	0.27	0.26	0.29
Cadmium	0.001	mg/l	0.005	<0.025	<	0	<	<	<	<	<	<	<	<	0.00
Calcium	0.01	mg/l	--	5-25	16.43	15.96	11.97	17.46	16.50	16.55	16.71	16.90	16.62	17.68	17.91
Chromium	0.01	mg/l	0.05	<0.03	0.02	0	<	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.01
Cobalt	0.02	mg/l		<0.02	0.03	0	<	0.03	0.03	0.03	0.03	0.04	0.02	0.03	0.02
Copper	0.008	mg/l	1.0	<0.015	0.03	0	0.06	0.05	0.02	0.04	0.02	0.02	0.02	0.02	0.02
Iron	0.03	mg/l	0.3	.03-1.50	0.05	0.05	<	0.06	0.05	0.05	0.06	0.05	0.05	0.05	0.04
Lead	0.0005	mg/l	0.05	<0.004	0.002	0.001	<	0.00	0.001	0.00	0.002	0.00	0.00	0.00	0.00
Magnesium	0.01	mg/l		0.5-1.3	1.01	1.52	0.64	0.88	1.00	1.00	0.88	0.96	1.03	1.11	1.03
Manganese	0.004	mg/l	0.05	.005-.05	0.006	0.011	0.004	0.007	0.007	0.006	0.01	0.01	0.01	0.01	0.00
Mercury	0.0001	mg/l	0.001	<0.00005	<	0	<	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Molybdenum	0.02	mg/l		<0.04	<	0	<	0.02	<	0.02	<	0.02	0.03	<	<
Nickel	0.05	mg/l		<0.025	<	0	<	0.04	0.08	0.06	0.03	0.05	0.09	0.05	0.04
Phosphorus	0.065	mg/l		<0.4	<	1	<	0.52	0.53	0.40	0.11	0.09	0.49	0.57	0.55
Potassium	0.01	mg/l		0.1-0.3	0.32	0.61	0.11	0.30	0.27	0.28	0.25	0.55	0.27	0.25	0.30
Silicon	0.08	mg/l		1-4	2.5	2.3	1.5	2.2	2.1	7.3	2.2	2.3	1.58	1.55	1.60
Silver	0.01	mg/l	0.05	<0.03	<	<	<	0.97	0.97	0.49	0.97	<	0.97	0.97	0.97
Sodium	0.1	mg/l	20	1-3	3.1	6.5	1.8	2.4	2.6	2.5	2.3	4.5	2.7	2.7	3.1
Strontium	0.001	mg/l	1	<0.001	0.034	0.038	0.024	0.036	0.033	0.035	0.034	0.035	0.034	0.036	0.036
Tin	0.06	mg/l		<0.03	<	0	<	0.18	0.18	0.12	0.25	0.17	0.16	0.16	0.15
Titanium	0.006	mg/l		<0.006	<	0	<	0.03	0.02	0.03	0.01	0.01	0.02	0.02	0.02
Vanadium	0.01	mg/l		<0.01	<	0	<	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.01
Zinc	0.015	mg/l	5.0	<0.015	0.015	0.015	<	0.016	0.015	0.013	0.01	0.01	0.02	0.01	0.02
Zirconium	0.015	mg/l		<0.015	<	0	<	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chlorine Residual Levels															
Free Chlorine	0.02	mg/l	0.02-0.7	0.05-0.50	0.28	0.53					0.02		<	<	<
Chlorine Byproducts (Trihalomethanes)															
Bromodichloromethane	0.0001	mg/l			0.0022	0.0008	0.0018	0.0022	0.0018	0.0020	0.0020	0.0018	0.0024	0.0020	0.01
Bromoform	0.0002	mg/l			0.0008	<	<	<	0.0008	0.0012	0.0005	0.0005	<	<	<
Chloroform	0.0003	mg/l			0.0195	0.0084	0.0304	0.0224	0.0124	0.0203	0.0210	0.0160	0.0219	0.0176	0.02
Dibromochloromethane	0.0001	mg/l			0.0039	0.0007	<	0.0049	0.0009	0.0021	0.0008	0.0188	0.0025	0.0020	0.00
Total Trihalomethanes	0.0002	mg/l	0.35	0.00-0.03	0.0229	0.0092	0.0322	0.0258	0.0148	0.0225	0.0235	0.0263	0.0245	0.0200	0.03

* Average of 7 locations Quarterly tested