



Regional District of Nanaimo - Water Services Department

Englishman River Water Analysis - 2010 Monthly Report



Date	Sample Location (Address)	Health Department		In-House									
		Fecal Coliform *	Total Coliform *	Fecal Coliform *	Total Coliform *	Temp. (°C)	pH	Free Chlorine Residual (mg/L)	Total Dissolved Solids (mg/L)	Salinity (%)	Conductivity (µS/cm)	Total Iron (mg/L)	Manganese (mg/L)
5-Jan-10	1969 Kaye Road	0	0	0	0		6.8	0.38	161	0.2	341	0	0.046
12-Jan-10	900 Stonefly Close			0	0	10	7.4	0.53	162	0.2	342		
20-Jan-10	1969 Kaye Road			0	0	7		0.40	162	0.2	340		
26-Jan-10	900 Stonefly Close			0	0	8	7.5	0.66	162	0.2	342		
	Average	0	0	0	0	8.3	7.2	0.49	161.8	0.2	341.3	0.00	0.046
	Maximum	0	0	0	0	10	7.5	0.66	162	0.2	342	0	0.046
	Minimum	0	0	0	0	7	6.8	0.38	161	0.2	340	0	0.046

Red font indicates non-compliance with Canadian Drinking Water Guidelines

Aesthetic Objective for Iron is • 0.3 mg/L

Aesthetic Objective for Manganese is • 0.05mg/L

*Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.



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9-Feb-10	1969 Kaye Road	0	0	0	0	8	7.5	0.54	162	0.2	342	0.01	0.035
17-Feb-10	900 Stonefly CI			0	0	7	7.5	0.63	163	0.2	342		
23-Feb-10	1969 Kaye Road			0	0	7	6.8	0.54	163	0.2	343		
	Average	0	0	0	0	7.3	7.3	0.57	162.7	0.2	342.3	0.01	0.035
	Maximum	0	0	0	0	8	7.5	0.63	163	0.2	343	0.01	0.035
	Minimum	0	0	0	0	7	6.8	0.54	162	0.2	342	0.01	0.035

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3-Mar-10	900 Stonefly Cl.			0	0	7	7.4	0.72	163	0.2	343	0.01	0.043
9-Mar-10	1969 Kaye Road			0	0	7	6.8	0.53	162	0.2	341		
17-Mar-10	1969 Kaye Road	0	0	0	0	7	7.3	0.63	166	0.2	348		
24-Mar-10	2235 Rascal Ln			0	0	8	7.3	0.59	163	0.2	343		
30-Mar-10	1969 Kaye Road			0	0	7	7.3	0.55	161	0.2	339		
	Average	0	0	0	0	7.2	7.2	0.60	163.0	0.2	342.8	0.01	0.043
	Maximum	0	0	0	0	8	7.4	0.72	166	0.2	348	0.01	0.043
	Minimum	0	0	0	0	7	6.8	0.53	161	0.2	339	0.01	0.043

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7-Apr-10	900 Stonefly			0	0	8	7.3	0.75	163	0.2	343	0	0.033
13-Apr-10	1969 Kaye Rd	0	0	0	0	8	7.4	0.62	163	0.2	343		
20-Apr-10	2235 Rascal Lane			0	0	9	7.3	0.70	162	0.2	341		
27-Apr-10	900 Stonefly			0	0	11	6.8	0.56	165	0.2	348		
	Average	0	0	0	0	9.0	7.2	0.66	163.3	0.2	343.8	0.00	0.033
	Maximum	0	0	0	0	11	7.4	0.75	165	0.2	348	0	0.033
	Minimum	0	0	0	0	8	6.8	0.56	162	0.2	341	0	0.033

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4-May-10	1969 Kaye Rd	0	0	0	0	11	7.3	0.53	160	0.2	357	0.03	0.097
12-May-10	1969 Kaye Rd			0	0	10	6.9	0.54	173	0.2	361		
19-May-10	900 Stonefly			0	0	11	7.5	1	175	0.2	368		
25-May-10	2235 Rascal Ln			0	0	n/a	7.3	0.91	176	0.2	369		
	Average	0	0	0	0	10.7	7.3	0.75	171.0	0.2	363.8	0.03	0.097
	Maximum	0	0	0	0	11	7.5	1	176	0.2	369	0.03	0.097
	Minimum	0	0	0	0	10	6.9	0.53	160	0.2	357	0.03	0.097

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9-Jun-10	1969 Kaye Road	0	0	0	0		8.1	0.73	177	0.2	371	0.01	0.026
15-Jun-10	2235 Rascal Lane			0	0		7.9	0.74	175	0.2	368		
22-Jun-10	900 Stonefly CI			0	0		7.8	0.59	185	0.2	391		
29-Jun-10	1969 Kaye Road			0	0		7.3	0.62	187	0.2	390		
	Average	0	0	0	0	#DIV/0!	7.8	0.67	181.0	0.2	380.0	0.01	0.026
	Maximum	0	0	0	0	0	8.1	0.74	187	0.2	391	0.01	0.026
	Minimum	0	0	0	0	0	7.3	0.59	175	0.2	368	0.01	0.026

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6-Jul-10	1969 Kaye Rd	0	0	0	0		7.6	0.68	186	0.2	386	0.02	0.041
13-Jul-10	900 Stonefly			0	0		7.9	0.92	179	0.2	376		
21-Jul-10	1969 Kaye Rd			0	0	15	7.6	0.94	186	0.2	384		
27-Jul-10	900 Stonefly			0	0	11	7.8	0.78	183	0.2	456		
	Average	0	0	0	0	13.0	7.7	0.83	183.5	0.2	400.5	0.02	0.041
	Maximum	0	0	0	0	15	7.9	0.94	186	0.2	456	0.02	0.041
	Minimum	0	0	0	0	11	7.6	0.68	179	0.2	376	0.02	0.041

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4-Aug-10	1969 Kaye	0	0	0	0	15	7.9	0.68	184	0.2	385	0.02	0.042
9-Aug-10	900 Stonefly CI			0	0	12	7.1	0.56	187	0.2	392		
17-Aug-10	2235 Rascal			0	0	14	7.1	0.57	188	0.2	394		
23-Aug-10	1969 Kaye			0	0	15.5	7.9	0.84	188	0.2	394		
31-Aug-10	2235 Rascal			0	0	14	8.1	0.58	186	0.2	390		
	Average	0	0	0	0	14.1	7.6	0.65	186.6	0.2	391.0	0.02	0.042
	Maximum	0	0	0	0	15.5	8.1	0.84	188	0.2	394	0.02	0.042
	Minimum	0	0	0	0	12	7.1	0.56	184	0.2	385	0.02	0.042

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8-Sep-10	1969 Kaye			0	0	15	7.7	0.64	191	0.2	398	0.02	0.07
15-Sep-10	900 Stonefly			0	0	14	7.4	0.51	189	0.2	396		
21-Sep-10	2235 Rascal			0	0	13	7.5	0.36	187	0.2	391		
28-Sep-10	1969 Kaye	0	0	0	0	14	7.8	0.45	186	0.2	389		
	Average	0	0	0	0	14.0	7.6	0.49	188.3	0.2	393.5	0.02	0.07
	Maximum	0	0	0	0	15	7.8	0.64	191	0.2	398	0.02	0.07
	Minimum	0	0	0	0	13	7.4	0.36	186	0.2	389	0.02	0.07

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5-Oct-10	1969 Kaye Road			0	0	13	7.4	0.58	189	0.2	396	0.01	0.039
13-Oct-10	900 Stonefly CI			0	0	10	7.6	0.88	193	0.2	404		
18-Oct-10	1969 Kaye Road	0	0	0	0		7.6	0.84	195	0.2	408		
25-Oct-10	2235 Rascal			0	0	13	8	0.94	190	0.2	402		
	Average	0	0	0	0	12.0	7.7	0.81	191.8	0.2	402.5	0.01	0.039
	Maximum	0	0	0	0	13	8	0.94	195	0.2	408	0.01	0.039
	Minimum	0	0	0	0	10	7.4	0.58	189	0.2	396	0.01	0.039

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2-Nov-10	2235 Rascal Lane			0	0	10	7.3	0.73	193	0.2	404	0.01	0.047
9-Nov-10	1969 Kaye	0	0	0	0	10	7.6	0.68	191	0.2	399		
16-Nov-10	900 Stonefly			0	0	9	7.9	0.70	190	0.2	399		
24-Nov-10	2235 Rascal Lane			0	0	9	7.6	0.62	187	0.2	391		
30-Nov-10	2235 Rascal Lane			0	1	7	8	0.61	189	0.2	394		
	Average	0	0	0	0.2	9.0	7.7	0.67	190.0	0.2	397.4	0.01	0.047
	Maximum	0	0	0	1	10	8	0.73	193	0.2	404	0.01	0.047
	Minimum	0	0	0	0	7	7.3	0.61	187	0.2	391	0.01	0.047

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Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Total coliforms can be an indicator of adverse water quality if the result in the resample is positive (US Environmental Protection Agency). RDN water samples are always tested for fecal coliform bacteria at the same time as total coliforms to rule out the presence of harmful pathogens. If background bacteria (BG), total or fecal bacteria are detected location is resampled. If the bacteria test is overgrown (OG) location is also resampled.



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7-Dec-10	1969 Kaye	0	0	0	0	7	7.1	0.59	191	0.2	400	0.01	0.054
14-Dec-10	900 Stonefly			0	0		7.5	0.76	187	0.2	390		
21-Dec-10	2235 Rascal			0	0		7.4	0.62	191	0.2	400		
30-Dec-10	1969 Kaye			0	1		7.9	0.61	185	0.2	387		
	Average	0	0	0	0.25	7.0	7.5	0.65	188.5	0.2	394.3	0.01	0.054
	Maximum	0	0	0	1	7	7.9	0.76	191	0.2	400	0.01	0.054
	Minimum	0	0	0	0	7	7.1	0.59	185	0.2	387	0.01	0.054

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