

# Regional District of Nanaimo - Water Services Department

## San Pareil 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	995 Sabine	0	0	0	0	9	6.8	0.74	38	0	79.8	0.01	0.003
12-Jan-10	Lot 4 San Malo	0	0	0	0	8	6.5	0.89	35	0	72.8		
20-Jan-10	813 Alder	0	0	0	0	9		0.43	82	0.1	172.4		
26-Jan-10	875 Seashell Pl	0	0	0	0	8	6.4	0.31	44	0	93.7		
	Average	0	0	0	0	8.5	6.6	0.59	49.8	0.0	104.7	0.01	0.003
	Maximum	0	0	0	0	9	6.8	0.89	82	0.1	172.4	0.01	0.003
	Minimum	0	0	0	0	8	6.4	0.31	35	0	72.8	0.01	0.003

**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	995 Sabine	0	0	0	0	9	6.3	0.41	44	0	93.8	0.03	0.009
17-Feb-10	962 Ballenas Rd	0	0	0	0	9	6.4	0.60	41	0	87.4		
23-Feb-10	793 Terrien Way	0	0	0	0	8	6.1	0.70	40	0	86.8		
23-Feb-10	787 San Malo	0	0	0	0	8	6.0	0.51	40	0	87.4		
	Average	0	0	0	0	8.5	6.2	0.56	41.3	0.0	88.9	0.03	0.009
	Maximum	0	0	0	0	9	6.4	0.7	44	0	93.8	0.03	0.009
	Minimum	0	0	0	0	8	6	0.41	40	0	86.8	0.03	0.009

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3-Mar-10	995 Sabine			0	0	9	6.4	0.73	37	0	78.4	0.01	0.001
9-Mar-10	787 San Malo	0	0	0	0	8	6	0.54	38	0	81.6		
17-Mar-10	793 Terrien Way	0	0	0	0	9	5.9	0.84	34	0	73.8		
24-Mar-10	962 Ballenas Rd	0	0	0	0	9	5.9	0.50	34	0	71.7		
30-Mar-10	995 Sabine	0	0	0	0	9	6.5	0.49	33	0	69.9		
	Average	0	0	0	0	8.8	6.1	0.62	35.2	0.0	75.1	0.01	0.001
	Maximum	0	0	0	0	9	6.5	0.84	38	0	81.6	0.01	0.001
	Minimum	0	0	0	0	8	5.9	0.49	33	0	69.9	0.01	0.001

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7-Apr-10	787 San Malo	0	0	0	0	9	6	1.26	34	0	73.7	0.02	0.020
13-Apr-10	793 Terrien Way	0	0	0	0	8	6	0.95	32	0	68.2		
20-Apr-10	962 Ballenas Rd	0	0	0	0	9	6.5	0.67	33	0	70.5		
27-Apr-10	995 Sabine	0	0	0	0	10	6.4	0.35	33	0	70		
	Average	0	0	0	0	9.0	6.2	0.81	33.0	0.0	70.6	0.02	0.02
	Maximum	0	0	0	0	10	6.5	1.26	34	0	73.7	0.02	0.02
	Minimum	0	0	0	0	8	6	0.35	32	0	68.2	0.02	0.02

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9-Jun-10	787 San Malo	0	0	0	0		6.8	0.71	33	0	70	0.02	0.001
15-Jun-10	793 Terrien Rd	0	0	0	0		6.7	0.97	31	0	66.7		
22-Jun-10	962 Ballenas Rd	0	0	0	0		6.5	0.85	34	0	71.3		
29-Jun-10	995 Sabine	0	0	0	0		6.3	0.91	42	0	89		
	Average	0	0	0	0	#DIV/0!	6.6	0.86	35.0	0.0	74.3	0.02	0.001
	Maximum	0	0	0	0	0	6.8	0.97	42	0	89	0.02	0.001
	Minimum	0	0	0	0	0	6.3	0.71	31	0	66.7	0.02	0.001

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4-May-10	787 San Malo	0	0	0	0	11	6.4	0.71	39	0	83	0.02	0.001
12-May-10	793 Terrien Way	0	0	0	0	9	6.2	0.71	31	0	66.2		
19-May-10	962 Ballenas	0	0	0	0	13	6.5	0.72	34	0	72		
25-May-10	995 Sabine	0	0	0	0	n/a	6.4	0.87	35	0	74		
	Average	0	0	0	0	11.0	6.4	0.75	34.8	0.0	73.8	0.02	0.001
	Maximum	0	0	0	0	13	6.5	0.87	39	0	83	0.02	0.001
	Minimum	0	0	0	0	9	6.2	0.71	31	0	66.2	0.02	0.001

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6-Jul-10	878 San Malo	0	0	0	0		6.5	0.98	39	0	82	0.01	0.002
13-Jul-10	932 Balenas	0	0	0	0		6.4	0.88	39	0	81		
21-Jul-10	995 Sabine	0	0	0	0	14	6.8	0.96	38	0	80		
26-Jul-10	793 Terrien	0	0	0	0	13	6.5	0.76	43	0	91		
	Average	0	0	0	0	13.5	6.6	0.90	39.8	0.0	83.5	0.01	0.002
	Maximum	0	0	0	0	14	6.8	0.98	43	0	91	0.01	0.002
	Minimum	0	0	0	0	13	6.4	0.76	38	0	80	0.01	0.002

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4-Aug-10	787 San Malo	0	0	0	0	16	6.8	0.64	42	0	90	0.02	0.001
9-Aug-10	962 Ballenas	0	0	0	0	15	6.7	0.57	43	0	90.4		
17-Aug-10	793 Terrien	0	0	0	0	13	6.5	0.67	44	0	93.8		
23-Aug-10	995 Sabine	0	0	0	0	15	6.7	0.72	58	0	128		
31-Aug-10	793 Terrien			0	0	13	6.7	0.64	45	0	95		
	Average	0	0	0	0	14.4	6.7	0.65	46.4	0.0	99.4	0.02	0.001
	Maximum	0	0	0	0	16	6.8	0.72	58	0	128	0.02	0.001
	Minimum	0	0	0	0	13	6.5	0.57	42	0	90	0.02	0.001

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8-Sep-10	787 San Malo	0	0	0	0	16	6.3	0.61	48	0	98	0.03	0.002
15-Sep-10	793 Terrien	0	0	0	0	13	6.3	0.61	46	0	97		
21-Sep-10	995 Sabine	0	0	0	0	15	6.8	0.49	47	0	99		
28-Sep-10	962 Ballenas	0	0	0	0	15	7	0.69	48	0	101		
	Average	0	0	0	0	14.8	6.6	0.60	47.3	0.0	98.8	0.03	0.002
	Maximum	0	0	0	0	16	7	0.69	48	0	101	0.03	0.002
	Minimum	0	0	0	0	13	6.3	0.49	46	0	97	0.03	0.002

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5-Oct-10	787 San Malo	0	0	0	0	14	6.7	0.56	43	0	91.9	0.03	0.004
13-Oct-10	793 Terrien Way	0	0	0	0	13	6.8	0.32	43	0	91.8		
18-Oct-10	995 Sabine	0	0	0	0		7.3	0.81	45	0	96		
25-Oct-10	962 Balenas	0	0	0	0	12	7.2	0.4	47	0	100		
	Average	0	0	0	0	13.0	7.0	0.52	44.5	0.0	94.9	0.03	0.004
	Maximum	0	0	0	0	14	7.3	0.81	47	0	100	0.03	0.004
	Minimum	0	0	0	0	12	6.7	0.32	43	0	91.8	0.03	0.004

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2-Nov-10	787 San Malo	0	0	0	0	12	6.7	0.61	42	0	87.8	0.02	0.003
9-Nov-10	793 Terrien Way	0	0	0	0	11	6.8	0.65	37	0	78.1		
16-Nov-10	962 Ballenas	0	0	0	0	11	6.9	0.47	39	0	83.2		
24-Nov-10	995 Sabine	A	A	0	0	9	6.5	0.67	38	0	84		
30-Nov-10	787 San Malo			0	0	10	7	0.61	36	0	77		
	Average	0	0	0	0	10.6	6.8	0.60	38.4	0.0	82.0	0.02	0.003
	Maximum	0	0	0	0	12	7	0.67	42	0	87.8	0.02	0.003
	Minimum	0	0	0	0	9	6.5	0.47	36	0	77	0.02	0.003

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A-Transport time too long to laboratory.

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7-Dec-10	787 San Malo	0	0	0	0	8	6.4	0.72	38	0	80.3	0.03	0.023
7-Dec-10	793 Terrien	0	0	0	0			0.95					
14-Dec-10	995 Sabine	0	0	0	0		6.9	0.57	40	0	84.6		
14-Dec-10	962 Ballenas	0	0	0	0			0.48					
21-Dec-10	995 Sabine			0	0		6.5	0.67	39	0	87		
30-Dec-10	793 Terrien			0	1		7.2	0.75	45	0	97		
	Average	0	0	0	0.16667	8.0	6.8	0.69	40.5	0.0	87.2	0.03	0.023
	Maximum	0	0	0	1	8	7.2	0.95	45	0	97	0.03	0.023
	Minimum	0	0	0	0	8	6.4	0.48	38	0	80.3	0.03	0.023

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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.