

Source Water Quality for Public Water Supplies in Newfoundland and Labrador

Physical Parameters and Major Ions

Serviced Area(s)	Source Name	Sample Date	Alkalinity	Colour	Conductivity	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulphate
		Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Guidelines for Canadian Drinking Water Quality			15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
	Aesthetic (A) or Contaminant (C) Parameter			A			A	A		C	C			A	C		A	A
Appleton																		
Appleton (+Glenwood)	Gander Lake (The Outflow)	Nov 26, 2024	3.00	<u>49</u>	23.0	6.10	6.52	13		<div>1.50</div>	LTD	LTD	1.30	3	LTD	0.200	2	LTD
Avondale																		
Avondale	Lees Pond	Dec 11, 2024	5.00	<u>28</u>	47.0	7.50	6.93	26		0.40	LTD	LTD	2.00	9	LTD	0.280	6	LTD
Bay de Verde																		
Bay de Verde	Island Pond	Dec 04, 2024	LTD	<u>64</u>	46.0	3.80	<u>5.47</u>	25		0.86	LTD	LTD	0.36	11	LTD	0.390	7	2
Bellburns																		
Bellburns	Bound Brook Tributary	Nov 08, 2024	160.00	<u>32</u>	360.0	160.00	8.14	200		0.30	LTD	LTD	44.00	14	LTD	0.600	8	5
Bellevue Beach																		
Bellevue Beach	Unnamed Brook	Dec 05, 2024	LTD	<u>170</u>	44.0	6.10	<u>5.66</u>	24		0.70	LTD	LTD	1.40	9	LTD	0.180	5	1
Benton																		
Benton	Little Pond	Dec 10, 2024	LTD	<u>150</u>	97.0	5.80	<u>5.71</u>	54		<div>1.30</div>	LTD	LTD	1.60	23	LTD	0.260	17	3
Birchy Bay																		
Birchy Bay	Jumper's Pond	Nov 18, 2024	4.60	<u>70</u>	47.0	14.00	<u>6.49</u>	26		0.82	LTD	LTD	3.70	8	LTD	0.300	5	LTD
Biscay Bay																		
Biscay Bay	Unnamed Pond	Nov 19, 2024	LTD	<u>85</u>	31.0	2.50	<u>5.16</u>	17		0.86	LTD	LTD	0.24	6	LTD	0.220	4	1
Brent's Cove																		
Brent's Cove	Paddy's Pond	Dec 03, 2024	LTD	<u>170</u>	49.0	7.10	<u>5.35</u>	27		<div>1.10</div>	LTD	LTD	1.50	10	LTD	0.350	6	1
Buchans Junction																		
Buchans Junction	Lapland Pond	Dec 02, 2024	4.00	<u>59</u>	17.0	7.00	6.53	10		<div>4.10</div>	LTD	LTD	2.20	2	LTD	LTD	1	LTD
Burgeo																		
Burgeo	Long Pond	Nov 21, 2024	LTD	<u>240</u>	38.0	5.70	<u>5.16</u>	21		<div>1.20</div>	LTD	LTD	1.10	7	LTD	0.330	6	2
Cape St. George																		
Cape St. George, Red Brook, De-Grau, Marches Point	Rouzes Brook	Dec 16, 2024	200.00	8	440.0	230.00	8.32	250		LTD	LTD	LTD	60.00	16	LTD	0.750	11	4
Charlottetown (Labrador)																		

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		Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Guidelines for Canadian Drinking Water Quality			15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
	Aesthetic (A) or Contaminant (C) Parameter			A			A	A		C	C			A	C		A	A
Charlottetown (Labrador)																		
Charlottetown (Labrador)	Middle Pond	Oct 10, 2024	3.00	<u>65</u>	20.0	5.10	6.51	11		<div>1.30</div>	LTD	LTD	1.10	2	LTD	0.200	2	LTD
Charlottetown (Labrador) - PWDU	Middle Pond	Oct 10, 2024	3.00	<u>65</u>	20.0	5.10	6.51	11		<div>1.30</div>	LTD	LTD	1.10	2	LTD	0.200	2	LTD
Churchill Falls																		
Churchill Falls	Smallwood Reservoir	Oct 15, 2024	26.00	13	25.0	11.00	7.22	14		0.68	LTD	LTD	2.80	LTD	LTD	0.270	1	LTD
Clarenville																		
Clarenville, Shoal Harbour	Shoal Harbour River	Dec 05, 2024	11.00	<u>45</u>	69.0	5.70	6.95	38		0.43	LTD	LTD	1.60	5	LTD	0.170	3	LTD
Come By Chance																		
Come By Chance	Butchers Brook	Dec 02, 2024	5.30	<u>100</u>	27.0	7.60	6.68	15		<div>2.30</div>	LTD	LTD	2.20	3	LTD	LTD	3	LTD
Conception Bay South																		
Conception Bay South	Bay Bulls Big Pond	Dec 10, 2024	LTD	<u>31</u>	46.0	4.30	<u>6.27</u>	26		0.53	LTD	LTD	0.89	10	LTD	0.250	6	LTD
Conne River																		
Conne River	Southwest Brook	Nov 12, 2024	LTD	<u>83</u>	20.0	3.60	<u>5.71</u>	11		0.59	LTD	LTD	0.82	3	LTD	0.130	2	LTD
Corner Brook																		
Corner Brook (+Massey Drive, +Mount Moriah)	Trout Pond, Third Pond (2 intakes)	Dec 03, 2024	18.00	<u>52</u>	55.0	22.00	7.37	31		<div>1.10</div>	LTD	LTD	7.20	4	LTD	0.330	2	LTD
Crow Head																		
Crow Head	Oars Pond	Nov 20, 2024	7.70	<u>84</u>	300.0	38.00	6.68	170		<div>1.30</div>	LTD	LTD	6.60	80	LTD	1.500	41	9
Daniel's Harbour																		
Daniel's Harbour	Unnamed Spring & Brook	Nov 08, 2024	240.00	LTD	680.0	240.00	7.95	380		0.10	LTD	LTD	56.00	70	LTD	1.300	50	13
Deadman's Bay																		
Deadman's Bay	Deadman's Pond	Nov 26, 2024	LTD	<u>150</u>	53.0	4.90	<u>4.91</u>	30		0.99	LTD	LTD	0.68	11	LTD	0.270	6	LTD
Dover																		
Dover	Hare Bay Pond	Dec 03, 2024	LTD	<u>220</u>	26.0	4.20	<u>5.61</u>	15		0.79	LTD	LTD	0.88	5	LTD	0.250	3	LTD
Elliston																		
Elliston	Big Pond	Nov 27, 2024	LTD	<u>30</u>	49.0	3.50	<u>5.83</u>	27		0.30	LTD	LTD	0.40	11	LTD	0.250	7	2

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			Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Guidelines for Canadian Drinking Water Quality			15		6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
			Aesthetic (A) or Contaminant (C) Parameter			A		A	A		C	C			A	C		A	A
Fogo Island																			
Seldom-Little Seldom	Bullock Cove Pond	Dec 11, 2024	2.00	<u>200</u>	66.0	8.60	<u>5.75</u>	37		<div>2.50</div>	LTD	LTD	1.40	14	LTD	0.390	10	2	
Seldom-Little Seldom - PWDU	Bullock Cove Pond	Dec 11, 2024	2.00	<u>200</u>	66.0	8.60	<u>5.75</u>	37		<div>2.50</div>	LTD	LTD	1.40	14	LTD	0.390	10	2	
Fortune																			
Fortune (+Grand Bank)	Horsebrook	Nov 05, 2024	3.60	<u>56</u>	37.0	5.10	6.55	20		0.71	LTD	LTD	1.10	7	LTD	0.380	5	2	
George's Brook-Milton																			
George's Brook-Milton	George's Brook	Dec 02, 2024	2.40	<u>57</u>	29.0	5.60	<u>6.34</u>	16		0.73	LTD	LTD	1.50	5	LTD	0.180	3	LTD	
Glenwood																			
Glenwood	Gander Lake (The Outflow)	Nov 26, 2024	3.00	<u>49</u>	23.0	6.10	6.52	13		<div>1.50</div>	LTD	LTD	1.30	3	LTD	0.200	2	LTD	
Grand Bank																			
Grand Bank	Horsebrook	Nov 05, 2024	3.60	<u>56</u>	37.0	5.10	6.55	20		0.71	LTD	LTD	1.10	7	LTD	0.380	5	2	
Grand Le Pierre																			
Grand Le Pierre	Nip Nose Pond	Nov 07, 2024	2.80	<u>93</u>	21.0	4.10	<u>6.27</u>	12		0.34	LTD	LTD	1.10	3	LTD	0.140	2	1	
Happy Adventure																			
Happy Adventure	Goose Neck Pond	Nov 26, 2024	LTD	<u>120</u>	32.0	6.00	<u>5.79</u>	18		0.91	LTD	LTD	1.50	6	LTD	0.250	4	LTD	
Harbour Grace																			
Harbour Grace, Harbour Grace South (+Riverhead)	Bannerman Lake	Nov 25, 2024	3.60	<u>35</u>	30.0	6.10	6.61	17		0.62	LTD	LTD	1.50	6	LTD	0.210	4	1	
Harbour Main-Chapel's Cove-Lakeview																			
Harbour Main, Chapel's Cove, Lakeview	Maloney's River	Dec 11, 2024	4.90	<u>32</u>	65.0	9.10	6.88	36		0.34	LTD	LTD	2.60	13	LTD	0.270	9	1	
Hare Bay																			
Hare Bay (+Dover)	Hare Bay Pond	Dec 03, 2024	LTD	<u>220</u>	26.0	4.20	<u>5.61</u>	15		0.79	LTD	LTD	0.88	5	LTD	0.250	3	LTD	
Heart's Delight-Islington																			
Heart's Delight-Islington	Long Pond	Dec 10, 2024	LTD	<u>100</u>	35.0	5.50	<u>5.86</u>	20		1.00	LTD	LTD	1.10	6	LTD	0.290	5	LTD	
Hermitage																			

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			Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Guidelines for Canadian Drinking Water Quality		15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
			Aesthetic (A) or Contaminant (C) Parameter		A			A	A		C	C			A	C		A	A
Hermitage																			
Hermitage-Sandyville	Granfer's Pond	Nov 19, 2024	LTD	<u>130</u>	39.0	5.90	<u>5.43</u>	22		<div>1.60</div>	LTD	LTD	1.10	8	LTD	0.290	6	2	
Hermitage-Sandyville - PWDU	Granfer's Pond	Nov 19, 2024	LTD	<u>130</u>	39.0	5.90	<u>5.43</u>	22		<div>1.60</div>	LTD	LTD	1.10	8	LTD	0.290	6	2	
Hickman's Harbour-Robinson Bight																			
Hickman's Harbour-Robinson Bight	Big Loss Pound Pond	Dec 02, 2024	7.00	<u>30</u>	36.0	9.50	6.88	20		0.95	LTD	LTD	2.60	5	LTD	0.150	3	2	
Hopedale																			
Hopedale	American Pond	Oct 23, 2024	2.50	<u>29</u>	26.0	5.30	<u>6.43</u>	15		<div>1.10</div>	LTD	LTD	1.20	5	LTD	0.220	3	LTD	
Howley																			
Howley	Sandy Lake	Nov 14, 2024	6.10	<u>61</u>	29.0	7.40	6.84	16		<div>1.60</div>	LTD	LTD	1.90	4	LTD	0.240	3	LTD	
Howley - PWDU	Sandy Lake	Nov 14, 2024	6.10	<u>61</u>	29.0	7.40	6.84	16		<div>1.60</div>	LTD	LTD	1.90	4	LTD	0.240	3	LTD	
Humber Arm South																			
Frenchman's Cove Area	Gurges Pond	Nov 27, 2024	16.00	13	74.0	20.00	7.30	41		0.59	LTD	LTD	5.10	9	LTD	0.380	6	4	
Indian Bay																			
Indian Bay	Indian Bay Brook	Dec 03, 2024	2.80	<u>33</u>	27.0	5.70	<u>6.48</u>	15		0.67	LTD	LTD	1.20	5	LTD	0.170	3	LTD	
Jackson's Cove-Langdon's Cove-Silverdale																			
Silverdale, Nickey's Nose Cove	Nickey's Nose Cove Pond	Nov 25, 2024	13.00	14	96.0	18.00	7.17	54		0.64	LTD	LTD	5.20	19	LTD	0.260	12	3	
Keels																			
Keels	Boland's Pond	Nov 27, 2024	LTD	<u>160</u>	84.0	6.50	<u>4.71</u>	47		<div>1.10</div>	LTD	LTD	0.69	18	LTD	0.600	10	3	
L'Anse au Loup																			
L'Anse au Loup	L'anse Au Loup River	Oct 09, 2024	15.00	<u>24</u>	46.0	18.00	7.26	26		0.41	LTD	LTD	5.00	3	LTD	0.230	2	LTD	
LaScie																			
La Scie	Stakes Pond	Dec 03, 2024	LTD	<u>220</u>	110.0	9.20	<u>5.58</u>	60		<div>2.70</div>	LTD	LTD	2.40	13	LTD	0.310	8	1	
Labrador City																			
Labrador City	Beverly Lake	Oct 16, 2024	51.00	12	110.0	9.70	7.95	64		<div>1.20</div>	LTD	LTD	2.40	2	LTD	0.240	1	2	
Lark Harbour																			

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		Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Guidelines for Canadian Drinking Water Quality			15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
	Aesthetic (A) or Contaminant (C) Parameter			A			A	A		C	C			A	C		A	A
Lark Harbour																		
Lark Harbour	Fairfax Brook	Nov 27, 2024	13.00	45	78.0	18.00	7.24	44		1.50	LTD	LTD	3.10	12	LTD	0.290	8	3
Little Bay																		
Little Bay	Mine Pond	Nov 25, 2024	28.00	42	130.0	56.00	7.40	71		1.20	LTD	LTD	18.00	5	LTD	0.160	3	27
Little St. Lawrence																		
Little St. Lawrence	Butler's Brook (2 Intakes)	Nov 05, 2024	5.00	43	45.0	7.50	6.75	25		0.57	LTD	LTD	1.60	8	0.180	0.340	5	2
Lourdes																		
Lourdes (+West Bay)	Victor's Brook	Dec 16, 2024	89.00	60	240.0	110.00	7.98	130		0.64	LTD	LTD	32.00	18	LTD	0.430	11	5
Lushes Bight-Beaumont-Beaumont North																		
Lushes Bight, Beaumont	Milkboy's Pond/Gull Pond	Nov 27, 2024	3.20	59	53.0	10.00	6.34	29		0.63	LTD	LTD	2.70	10	LTD	0.170	6	2
Lushes Bight, Beaumont - PWDU	Milkboy's Pond/Gull Pond	Nov 27, 2024	3.20	59	53.0	10.00	6.34	29		0.63	LTD	LTD	2.70	10	LTD	0.170	6	2
Mainland																		
Mainland	Caribou Brook	Dec 16, 2024	160.00	8	370.0	190.00	8.12	210		0.20	LTD	LTD	57.00	19	LTD	0.640	13	7
Mary's Harbour																		
Mary's Harbour	St. Mary's River	Oct 09, 2024	LTD	65	17.0	3.40	6.04	9		1.10	LTD	LTD	0.78	2	LTD	0.150	2	LTD
Mary's Harbour - PWDU	St. Mary's River	Oct 09, 2024	LTD	65	17.0	3.40	6.04	9		1.10	LTD	LTD	0.78	2	LTD	0.150	2	LTD
Massey Drive																		
Massey Drive	Trout Pond, Third Pond (2 intakes)	Dec 03, 2024	18.00	52	55.0	22.00	7.37	31		1.10	LTD	LTD	7.20	4	LTD	0.330	2	LTD
Mount Moriah																		
Mount Moriah	Trout Pond, Third Pond (2 intakes)	Dec 03, 2024	18.00	52	55.0	22.00	7.37	31		1.10	LTD	LTD	7.20	4	LTD	0.330	2	LTD
Mount Pearl																		
Mount Pearl	Bay Bulls Big Pond	Dec 10, 2024	LTD	31	46.0	4.30	6.27	26		0.53	LTD	LTD	0.89	10	LTD	0.250	6	LTD
Nain																		
Nain	Trouser Lake	Oct 22, 2024	5.30	LTD	25.0	6.20	6.58	14		0.26	LTD	LTD	1.70	2	LTD	0.170	2	2
Natuashish																		

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			Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Guidelines for Canadian Drinking Water Quality		15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
			Aesthetic (A) or Contaminant (C) Parameter		A			A	A		C	C			A	C		A	A
Natuashish																			
Natuashish (Sango Bay)	Sango Brook and Wellfield	Nov 11, 2024	9.50	<u>22</u>	71.0	12.00	7.25	40		<div>2.90</div>	LTD	LTD	2.70	12	0.300	0.730	9	2	
Natuashish (Sango Bay)	Sango Brook and Wellfield	Nov 11, 2024	67.00	LTD	1,000.0	92.00	8.09	<u>560</u>		0.10	0.17	LTD	13.00	250	<div>2.200</div>	8.500	150	40	
New-Wes-Valley																			
Wesleyville-Badger's Quay-Pool's Island, Brookfield-Poundcove-Newtown-Templeman	Little Northwest Pond	Dec 03, 2024	LTD	<u>230</u>	61.0	6.70	<u>5.05</u>	34		0.59	LTD	LTD	1.20	12	LTD	0.400	9	3	
Norris Point																			
Norris Point	Neddy Harbour Pond	Nov 14, 2024	120.00	12	270.0	130.00	8.13	150		0.50	LTD	LTD	29.00	10	LTD	0.430	6	2	
Paradise																			
Paradise	Bay Bulls Big Pond	Dec 10, 2024	LTD	<u>31</u>	46.0	4.30	<u>6.27</u>	26		0.53	LTD	LTD	0.89	10	LTD	0.250	6	LTD	
Parkers Cove																			
Parkers Cove	Unnamed brook	Nov 04, 2024	LTD	<u>150</u>	27.0	3.70	<u>5.31</u>	15		<div>1.60</div>	LTD	LTD	0.71	5	LTD	0.210	3	LTD	
Phillips Head																			
Phillips Head	Dogberry Brook	Nov 12, 2024	9.60	<u>63</u>	50.0	18.00	7.11	28		0.77	LTD	LTD	5.50	6	LTD	LTD	4	1	
Pilley's Island																			
Pilley's Island	Loadabats Pond	Nov 27, 2024	60.00	<u>25</u>	210.0	62.00	7.81	120		0.50	LTD	LTD	20.00	26	LTD	0.550	18	3	
Pleasantview																			
Pleasantview	Little Arm Pond	Nov 12, 2024	8.70	<u>62</u>	68.0	16.00	7.01	38		<div>1.40</div>	LTD	LTD	4.20	10	LTD	0.320	7	5	
Point Leamington																			
Point Leamington	Little Pond	Nov 05, 2024	9.00	<u>45</u>	44.0	14.00	6.99	24		0.72	LTD	LTD	4.20	6	LTD	0.240	4	2	
Point of Bay																			
Point of Bay	Indian Cove Pond	Nov 13, 2024	14.00	<u>50</u>	64.0	19.00	7.25	36		0.55	LTD	LTD	6.00	9	LTD	0.290	6	1	
Port Anson																			
Port Anson	Anchor Pond	Nov 27, 2024	6.40	<u>90</u>	47.0	13.00	6.69	26		0.72	LTD	LTD	3.60	9	LTD	0.190	5	1	
Portland Creek																			

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Serviced Area(s)	Source Name	Sample Date	Alkalinity	Colour	Conductivity	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulphate
		Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Guidelines for Canadian Drinking Water Quality			15		6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
		Aesthetic (A) or Contaminant (C) Parameter			A		A	A		C	C			A	C		A	A
Portland Creek																		
Portland Creek	Unnamed Streams	Nov 08, 2024	170.00	26	370.0	160.00	8.07	200		0.19	LTD	LTD	56.00	15	LTD	0.690	10	3
Portugal Cove-St. Phillips																		
Portugal Cove-St. Phillips	Bay Bulls Big Pond	Dec 10, 2024	LTD	31	46.0	4.30	6.27	26		0.53	LTD	LTD	0.89	10	LTD	0.250	6	LTD
Pouch Cove																		
Pouch Cove	North Three Island Pond	Nov 28, 2024	2.20	100	47.0	6.40	6.41	26		1.20	LTD	LTD	1.20	9	LTD	0.410	6	2
Robert's Arm																		
Robert's Arm	Young's Pond / Dam Pond	Nov 27, 2024	35.00	31	64.0	22.00	7.29	36		0.57	LTD	LTD	6.50	7	LTD	0.160	4	LTD
Rocky Harbour																		
Rocky Harbour	Gull Pond	Nov 14, 2024	67.00	48	160.0	73.00	7.92	91		0.78	LTD	LTD	19.00	9	LTD	0.430	5	2
Rose Blanche-Harbour Le Cou																		
Rose Blanche-Harbour Le Cou	Rose Blanche Brook	Nov 05, 2024	LTD	100	33.0	4.50	5.79	19		0.80	LTD	LTD	1.10	7	LTD	0.310	5	1
Seal Cove (FB)																		
Seal Cove, F.B.	Big Black Duck Pond	Nov 19, 2024	LTD	170	38.0	5.80	5.45	21		1.70	LTD	LTD	1.00	8	LTD	0.300	6	2
Seal Cove, F.B. - PWDU	Big Black Duck Pond	Nov 19, 2024	LTD	170	38.0	5.80	5.45	21		1.70	LTD	LTD	1.00	8	LTD	0.300	6	2
Seal Cove (WB)																		
Seal Cove, W.B.	Seal Cove Brook & Long Pond	Nov 06, 2024	9.60	71	63.0	15.00	7.11	35		0.72	LTD	LTD	4.50	LTD	LTD	0.480	6	LTD
Seal Cove, W.B. - PWDU	Seal Cove Brook & Long Pond	Nov 06, 2024	9.60	71	63.0	15.00	7.11	35		0.72	LTD	LTD	4.50	LTD	LTD	0.480	6	LTD
Southern Harbour																		
Southern Harbour	Brigades Pond	Dec 02, 2024	6.30	64	33.0	9.00	6.83	18		1.00	LTD	LTD	2.70	5	LTD	0.260	4	1
Springdale																		
Springdale	Sullivan's Pond (2 Intakes)	Nov 25, 2024	15.00	21	47.0	19.00	7.29	26		0.68	LTD	LTD	5.90	3	LTD	0.100	2	1
St. Bernard's-Jacques Fontaine																		
St. Bernard's-Jacques Fontaine	Rattle Brook	Nov 07, 2024	LTD	88	30.0	5.10	6.05	17		0.54	LTD	LTD	1.20	6	LTD	0.180	4	1
St. Bride's																		

Source Water Quality for Public Water Supplies in Newfoundland and Labrador

Physical Parameters and Major Ions

Serviced Area(s)	Source Name	Sample Date	Alkalinity	Colour	Conductivity	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulphate	
			Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Guidelines for Canadian Drinking Water Quality		15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
			Aesthetic (A) or Contaminant (C) Parameter		A			A	A		C	C			A	C		A	A
St. Bride's																			
St. Bride's	North Side Brook	Dec 13, 2024	4.00	<u>46</u>	64.0	8.20	<u>6.44</u>	35		0.36	LTD	LTD	1.40	14	LTD	0.480	8	1	
St. Bride's	South Side Brook	Dec 13, 2024	3.50	<u>95</u>	53.0	9.40	<u>6.12</u>	29		0.54	LTD	LTD	2.10	11	LTD	0.310	6	1	
St. John's																			
St. John's (+Mt. Pearl, +Paradise, +Portugal Cove-St. Phillips, +CBS)	Bay Bulls Big Pond	Dec 10, 2024	LTD	<u>31</u>	46.0	4.30	<u>6.27</u>	26		0.53	LTD	LTD	0.89	10	LTD	0.250	6	LTD	
St. John's	Windsor Lake	Dec 04, 2024	LTD	10	74.0	5.70	<u>6.40</u>	41		0.38	LTD	LTD	1.30	18	LTD	0.300	11	2	
St. John's	Petty Harbour Long Pond	Dec 04, 2024	LTD	<u>23</u>	34.0	3.60	<u>5.93</u>	19		0.84	LTD	LTD	0.54	8	LTD	0.280	5	1	
Tilt Cove																			
Tilt Cove	Castle Rock Pond	Dec 03, 2024	43.00	15	120.0	50.00	7.64	64		0.74	LTD	LTD	11.00	9	LTD	0.160	5	2	
Trout River																			
Trout River	Feeder Brook	Nov 14, 2024	40.00	15	100.0	44.00	7.78	57		0.42	LTD	LTD	3.00	7	LTD	0.150	4	2	
West Bay																			
West Bay	Victor's Brook	Dec 16, 2024	89.00	<u>60</u>	240.0	110.00	7.98	130		0.64	LTD	LTD	32.00	18	LTD	0.430	11	5	
Wild Cove																			
Wild Cove	Hedderson's Pond Brook	Nov 06, 2024	8.50	<u>91</u>	53.0	17.00	6.93	29		<div>1.20</div>	LTD	LTD	5.00	8	LTD	0.790	4	1	

Source Water Quality for Public Water Supplies in Newfoundland and Labrador

Physical Parameters and Major Ions

Serviced Area(s)	Source Name	Sample Date	Alkalinity	Colour	Conductivity	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulphate
		Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		Guidelines for Canadian Drinking Water Quality		15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
		Aesthetic (A) or Contaminant (C) Parameter		A			A	A		C	C			A	C		A	A

Source water samples are collected directly from the source such as a groundwater well, lake, pond, or stream prior to disinfection or other treatment. The source water quality is analyzed to determine the quality of water that flows into your water treatment and distribution system. The quality of this water is a direct indicator of the health of the ecosystem that makes up the natural drainage basin, well head recharge area or watershed area. Monitoring of source water quality is the most important tool to assess the impact of land use changes on source water quality, the presence of disinfection by-product (DBP) pre-cursors and to ensure the integrity of a public water supply. The values for each parameter are as reported by the lab and verified by the department.

Quality Assurance / Quality Control (QA/QC) - The department is striving to improve the quality of the data using standard QA/QC protocols. This is an evolving process which may result in minor changes to the reported data.

LTD - Less Than Detection Limit - The detection limit is the lowest concentration of a substance that can be determined using a particular test method and instrument. Detection limits vary from parameter to parameter and change from time to time due to improvements in analytical procedures and equipment.

The exceedance report for source water provides a brief discussion and interpretation of health related water quality parameters, if any, that exceed the acceptable limits as set out in the Guidelines for Canadian Drinking Water Quality (GCDWQ). This comparison is only for screening purposes since at present there are no guidelines for untreated source water. The GCDWQ applies to water at the consumers tap. However in the absence of water treatment these guidelines could be applicable to source water quality

Aesthetic (A) Parameters - Aesthetic parameters reflect substances or characteristics of drinking water that can affect its acceptance by consumers but which usually do not pose any health effects. Aesthetic exceedances are highlighted in blue text and underlined.

Contaminants (C) - Contaminants are substances that are known or suspected to cause adverse effects on the health of some people when present in concentrations greater than the established Maximum Acceptable Concentrations (MACs) or the Interim Maximum Acceptable Concentrations (IMACs) of the GCDWQ. Each MAC has been derived to safeguard health assuming lifelong consumption of drinking water containing the substance at that concentration. IMACs are reviewed periodically as new information becomes available. Please consult your Medical Officer of Health for additional information on the health aspects on contaminants. Contaminant exceedances are highlighted in red text and enclosed in a box.

The reported information is for supplies selected for sampling and may not include all public water supplies.

Contaminant and Aesthetic Exceedances

Turbidity - The maximum acceptable concentration for turbidity is 1 NTU. Turbidity refers to the water's ability to transmit light or the cloudiness of the water. Turbidity in tap water can be the result of turbid raw water and influences within the distribution system. Turbidity is usually the result of fine organic and inorganic particles which do not settle out. Increased turbidity of drinking water results in it being less aesthetically pleasing, and may interfere with the disinfection process.

Boron - The interim maximum acceptable concentration for boron in drinking water is 5.0 mg/L. Boron is widespread in the environment, occurring naturally in over 80 minerals and in the earth's crust. Levels in well water have been reported to be more variable and often higher than those in surface waters, most likely due to erosion from natural resources. High levels of this contaminant can cause adverse health effects for some people

Fluoride - The maximum acceptable concentration for fluoride in drinking water is 1.5mg/L. The fluoride concentration in natural water varies widely as it depends on such factors as the source of the water and the geological formations present. Trace amounts of fluoride may be essential for human nutrition and the presence of small quantities leads to a reduction of dental caries. High levels of this contaminant can cause adverse health effects for some people.

Colour - An aesthetic objective of 15 true colour units (TCU) has been established for colour in drinking water. Colour in drinking water may be due to the presence of coloured organic substances or metals such as iron, manganese and copper. Highly coloured industrial wastes also contribute to colour. The presence of colour is not directly linked to health but it can be aesthetically displeasing.

pH -The acceptable range for drinking water pH is 6.5 - 8.5. The control of pH is primarily based on minimizing corrosion and encrustation in the distribution system. Tap water with low pH may accelerate the corrosion process in the distribution system, and contribute to increased levels of copper, lead and possibly other metals. Incrustation and scaling problems may become more frequent above pH 8.5

TDS - The aesthetic objective for TDS in drinking water is 500 mg/L. The term "total dissolved solids"(TDS) refers mainly to the inorganic substances that are dissolved in water. At low levels TDS contributes to the palatability of water. At high levels it may cause excessive hardness, taste, mineral deposition and corrosion.

Chloride - The aesthetic objective for chloride in drinking water is 250 mg/L. Chloride can be in water from a variety of sources, including the dissolution of salt deposits and salting of roads for ice control. No evidence has been found suggesting that ingestion of chloride is harmful to humans. However, high levels of chloride in water can impart undesirable tastes to water and beverages prepared from water.

Sodium - The aesthetic objective for sodium in drinking water is 200 mg/L. Since the body has very effective means to control levels of sodium, sodium is not an acutely toxic element in the normal range of environmental or dietary concentrations. At extremely high dosages it has adverse health effects. Sodium levels may be of interest to authorities who wish to prescribe sodium restricted diets for their patients..

Sulphate - The aesthetic objective for sulphate in drinking water is 500 mg/L. Sulphates, which occur naturally in numerous minerals, are used in the mining and pulping industries and in wood preservation. Large quantities of sulphate can result in catharsis and gastrointestinal irritation. The presence of sulphate above the aesthetic limit can result in noticeable taste. Some sensitive individuals may find the taste objectionable at lower sulphate concentrations

mg/L = milligrams per litre or parts per million µS/cm = micro Siemens per centimeter NTU = nephelometric turbidity units TDS = total dissolved solids TSS = total suspended solids TCU = true colour units Nitrate(ite) = Nitrate + Nitrite DOC = dissolved organic carbon

Notes:
Guidelines for Canadian Drinking Water Quality have not been developed for all the parameters listed in this report.
pH has no units