Department of Municipal Affairs and Environment

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
Avondale																		
Avondale	Lee's Pond	Dec 03, 2018	9.00	21	62.0	5.00	7.01	40		0.40	LTD	LTD	2.00	11	LTD	LTD	6	1
Bay de Verde																		
Bay de Verde	Island Pond	Nov 06, 2018	10.00	34	68.0	LTD	7.18	44		1.40	LTD	LTD	LTD	11	LTD	LTD	7	2
Bellevue Beach																		
Bellevue Beach	Unnamed Brook	Dec 04, 2018	LTD	118	61.0	2.00	5.75	40		1.00	LTD	LTD	1.00	13	LTD	LTD	7	2
Birchy Bay																		
Birchy Bay	Jumper's Pond	Nov 13, 2018	11.00	60	46.0	7.00	7.19	30		0.40	LTD	LTD	3.00	4	LTD	LTD	3	1
Biscay Bay																		
Biscay Bay	Unnamed Pond	Dec 04, 2018	9.00	71	74.0	LTD	7.17	48		2.00	LTD	LTD	LTD	15	LTD	LTD	7	3
Branch																		
Branch	Valley Pond	Dec 05, 2018	LTD	48	69.0	7.00	6.31	45		5.10	LTD	LTD	1.00	16	LTD	LTD	8	3
Brigus																		
Brigus (+Cupids, +South River)	Brigus Long Pond (to Brigus)	Dec 05, 2018	6.00	41	54.0	2.00	6.70	35		0.40	LTD	LTD	1.00	10	LTD	LTD	6	2
Buchans Junction																		
Buchans Junction	Lapland Pond	Nov 06, 2018	16.00	47	44.0	5.00	7.05	29		4.60	LTD	LTD	2.00	2	LTD	LTD	LTD	LTD
Burgeo																		
Burgeo	Long Pond	Nov 16, 2018	LTD	157	48.0	LTD	6.30	31		1.10	LTD	LTD	LTD	9	LTD	LTD	5	2
Cape St. George																		
Cape St. George, Red Brook, De-Grau, Marches Point	Rouzes Brook	Nov 26, 2018	231.00	4	449.0	218.00	8.29	292		0.20	0.01	LTD	56.00	20	LTD	LTD	11	5
Charlottetown (Labrador)																		
Charlottetown (Labrador)	Middle Pond	Oct 03, 2018	9.00	80	31.0	2.00	7.22	20		0.70	LTD	LTD	1.00	2	LTD	LTD	LTD	LTD
Charlottetown (Labrador) - PWDU	Middle Pond	Oct 03, 2018	9.00	80	31.0	2.00	7.22	20		0.70	LTD	LTD	1.00	2	LTD	LTD	LTD	LTD
Clarenville																		

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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
Clarenville																		
Clarenville, Shoal Harbour	Shoal Harbour River	Nov 28, 2018	LTD	53	44.0	2.00	6.52	29		0.70	LTD	LTD	1.00	6	LTD	LTD	4	1
Conception Bay South																		
Conception Bay South	Bay Bulls Big Pond	Dec 05, 2018	7.00	18	63.0	2.00	6.89	41		3.30	LTD	LTD	1.00	13	LTD	LTD	7	1
Corner Brook																		
Corner Brook (+Massey Drive, +Mount Moriah)	Trout Pond, Third Pond (2 intakes)	Dec 14, 2018	15.00	43	52.0	10.00	7.32	34		0.40	LTD	LTD	4.00	5	LTD	LTD	2	1
Crow Head																		
Crow Head	Oars Pond	Nov 20, 2018	10.00	18	192.0	20.00	6.82	125		5.20	0.02	LTD	3.00	44	LTD	1.000	28	7
Cupids																		
Cupids	Brigus Long Pond (to Brigus)	Dec 05, 2018	6.00	41	54.0	2.00	6.70	35		0.40	LTD	LTD	1.00	10	LTD	LTD	6	2
Deep Bight																		
Deep Bight	Deep Bight River	Dec 06, 2018	8.00	78	37.0	2.00	6.90	24		0.50	LTD	LTD	1.00	4	LTD	LTD	3	1
Francois																		
Francois	Our Pond	Dec 11, 2018	LTD	44	39.0	LTD	5.73	25		0.20	LTD	LTD	LTD	9	LTD	LTD	5	2
George's Brook-Milton																		
George's Brook-Milton	George's Brook	Nov 28, 2018	LTD	49	36.0	2.00	6.34	23		0.50	LTD	LTD	1.00	6	LTD	LTD	4	1
Georgetown																		
Georgetown	Third Pond	Dec 03, 2018	LTD	16	68.0	2.00	6.35	44		0.40	LTD	LTD	1.00	14	LTD	LTD	9	2
Happy Adventure																		
Happy Adventure	Goose Neck Pond	Nov 08, 2018	16.00	67	54.0	2.00	7.15	35		0.80	LTD	LTD	1.00	6	LTD	LTD	4	1
Harbour Grace																		
Harbour Grace, Harbour Grace South (+Riverhead)	Bannerman Lake	Dec 05, 2018	8.00	17	46.0	2.00	6.99	30		1.30	LTD	LTD	1.00	7	LTD	LTD	4	1
Heart's Delight-Islington																		
Heart's Delight-Islington	Long Pond	Nov 07, 2018	18.00	72	65.0	2.00	7.17	42		0.90	LTD	LTD	1.00	8	LTD	LTD	5	1
Hickman's Harbour-Robinson Bight																		

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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
Hickman's Harbour-Robinson Bight																		
Hickman's Harbour-Robinson Bight	Big Loss Pound Pond	Nov 28, 2018	11.00	14	50.0	5.00	6.81	32		0.90	LTD	LTD	2.00	5	LTD	LTD	3	2
Howley																		
Howley	Sandy Lake	Nov 16, 2018	7.00	54	43.0	2.00	6.83	28		2.40	LTD	LTD	1.00	4	LTD	LTD	3	LTD
Howley - PWDU	Sandy Lake	Nov 16, 2018	7.00	54	43.0	2.00	6.83	28		2.40	LTD	LTD	1.00	4	LTD	LTD	3	LTD
Indian Bay																		
Indian Bay	Indian Bay Brook	Nov 22, 2018	LTD	33	27.0	LTD	6.58	18		1.40	LTD	LTD	LTD	4	LTD	LTD	2	LTD
Keels																		
Keels	Boland's Pond	Nov 21, 2018	8.00	154	75.0	LTD	6.73	49		0.70	LTD	LTD	LTD	14	LTD	LTD	9	2
L'Anse au Loup																		
L'Anse au Loup	L'anse Au Loup River	Oct 02, 2018	12.00	30	39.0	14.00	7.09	25		0.40	LTD	LTD	4.00	3	LTD	LTD	LTD	1
Labrador City																		
Labrador City	Beverly Lake	Oct 18, 2018	49.00	5	104.0	46.00	7.50	68		0.40	LTD	LTD	10.00	3	LTD	1.000	LTD	2
Lourdes																		
Lourdes (+West Bay)	Victor's Brook	Nov 20, 2018	92.00	34	279.0	105.00	8.05	181		0.40	0.01	LTD	32.00	29	LTD	LTD	13	5
Mainland																		
Mainland	Caribou Brook	Nov 20, 2018	174.00	9	403.0	179.00	8.27	262		0.40	0.02	LTD	55.00	23	LTD	LTD	13	6
Mary's Harbour																		
Mary's Harbour	St. Mary's River	Oct 02, 2018	8.00	46	27.0	LTD	7.14	18		0.80	LTD	LTD	LTD	3	LTD	LTD	LTD	LTD
Mary's Harbour - PWDU	St. Mary's River	Oct 02, 2018	8.00	46	27.0	LTD	7.14	18		0.80	LTD	LTD	LTD	3	LTD	LTD	LTD	LTD
Massey Drive																		
Massey Drive	Trout Pond, Third Pond (2 intakes)	Dec 14, 2018	15.00	43	52.0	10.00	7.32	34		0.40	LTD	LTD	4.00	5	LTD	LTD	2	1
Mount Moriah																		
Mount Moriah	Trout Pond, Third Pond (2 intakes)	Dec 14, 2018	15.00	43	52.0	10.00	7.32	34		0.40	LTD	LTD	4.00	5	LTD	LTD	2	1
Mount Pearl																		

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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
Mount Pearl																		
Mount Pearl	Bay Bulls Big Pond	Dec 05, 2018	7.00	18	63.0	2.00	6.89	41		3.30	LTD	LTD	1.00	13	LTD	LTD	7	1
Newman's Cove																		
Newman's Cove	Heale Pond Brook	Nov 21, 2018	LTD	154	70.0	LTD	6.16	46		2.00	LTD	LTD	LTD	14	LTD	LTD	9	2
Paradise																		
Paradise	Bay Bulls Big Pond	Dec 05, 2018	7.00	18	63.0	2.00	6.89	41		3.30	LTD	LTD	1.00	13	LTD	LTD	7	1
Phillips Head																		
Phillips Head	Dogberry Brook	Nov 28, 2018	14.00	72	46.0	10.00	6.87	30		0.40	LTD	LTD	4.00	4	LTD	LTD	3	1
Pilley's Island																		
Pilley's Island	Loadabats Pond	Nov 13, 2018	69.00	14	249.0	62.00	7.82	162		0.60	0.02	LTD	20.00	33	LTD	LTD	21	2
Pleasantview																		
Pleasantview	Little Arm Pond	Nov 28, 2018	10.00	87	52.0	7.00	6.62	34		0.60	LTD	LTD	3.00	7	LTD	LTD	5	2
Plum Point																		
Plum Point	Grand Pond	Nov 08, 2018	92.00	44	254.0	84.00	8.01	165		0.70	LTD	LTD	17.00	24	LTD	LTD	14	2
Point Lance																		
Point Lance	Unnamed Pond	Dec 05, 2018	9.00	60	137.0	17.00	6.90	89		1.50	LTD	LTD	2.00	30	LTD	LTD	14	4
Point Leamington																		
Point Leamington	Little Pond	Nov 07, 2018	11.00	70	43.0	5.00	6.81	28		0.60	LTD	LTD	2.00	3	LTD	LTD	3	LTD
Portugal Cove-St. Phillips																		
Portugal Cove-St. Phillips	Bay Bulls Big Pond	Dec 05, 2018	7.00	18	63.0	2.00	6.89	41		3.30	LTD	LTD	1.00	13	LTD	LTD	7	1
Ramea																		
Ramea	Northwest Pond	Dec 06, 2018	LTD	201	644.0	54.00	5.52	419		2.60	0.05	0.53	5.00	166	0.130	4.000	93	20
Ramea - PWDU	Northwest Pond	Dec 06, 2018	LTD	201	644.0	54.00	5.52	419		2.60	0.05	0.53	5.00	166	0.130	4.000	93	20
Roddickton-Bide Arm																		
Roddickton	East Brook Pond	Nov 05, 2018	71.00	30	147.0	64.00	7.77	96		0.60	LTD	LTD	19.00	5	LTD	LTD	3	1

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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
Salvage																		
Salvage	Wild Cove Pond	Nov 08, 2018	5.00	123	92.0	5.00	6.42	60		0.80	LTD	LTD	2.00	19	LTD	LTD	12	3
South River																		
South River	Brigus Long Pond (to Brigus)	Dec 05, 2018	6.00	41	54.0	2.00	6.70	35		0.40	LTD	LTD	1.00	10	LTD	LTD	6	2
St. Alban's																		
St. Alban's	Well Field	Oct 02, 2018	11.00	17	49.0	10.00	6.36	32		0.30	LTD	LTD	4.00	5	LTD	LTD	3	4
St. Alban's	Well Field	Oct 02, 2018	9.00	LTD	49.0	10.00	6.35	32		0.10	LTD	LTD	4.00	5	LTD	LTD	3	4
St. Anthony																		
St. Anthony	St. Anthony Pond	Nov 06, 2018	30.00	63	85.0	22.00	7.54	55		0.50	LTD	LTD	2.00	6	LTD	LTD	3	1
St. Anthony Bight																		
St. Anthony Bight	Cabbox Pond	Nov 06, 2018	LTD	179	50.0	5.00	5.91	32		0.80	LTD	LTD	2.00	9	LTD	LTD	5	1
St. Bride's																		
St. Bride's	North Side Brook	Dec 05, 2018	LTD	52	77.0	9.00	6.29	50		0.60	LTD	LTD	2.00	18	LTD	LTD	8	2
St. Bride's	South Side Brook	Dec 05, 2018	LTD	13	108.0	13.00	6.45	70		1.20	LTD	LTD	2.00	26	LTD	LTD	13	3
St. John's																		
St. John's (+Mt. Pearl, +Paradise, +Portugal Cove-St. Phillips, +CBS)	Bay Bulls Big Pond	Dec 05, 2018	7.00	18	63.0	2.00	6.89	41		3.30	LTD	LTD	1.00	13	LTD	LTD	7	1
St. John's	Windsor Lake	Dec 12, 2018	LTD	5	98.0	2.00	6.56	64		0.40	LTD	LTD	1.00	21	LTD	LTD	13	2
St. John's	Petty Harbour Long Pond	Dec 12, 2018	LTD	14	39.0	LTD	5.90	25		0.70	LTD	LTD	LTD	9	LTD	LTD	5	1
Sunnyside (T.B.)																		
Sunnyside	Center Cove River	Nov 09, 2018	LTD	31	42.0	2.00	6.37	27		0.40	LTD	LTD	1.00	6	LTD	LTD	4	2
Torbay																		
Torbay	North Pond	Nov 02, 2018	5.00	9	64.0	2.00	6.60	42		0.60	LTD	LTD	1.00	13	LTD	LTD	8	3
Trout River																		
Trout River	Feeder Brook	Nov 19, 2018	43.00	10	124.0	38.00	7.84	81		0.40	LTD	LTD	2.00	12	LTD	LTD	6	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
West Bay																		
West Bay	Victor's Brook	Nov 20, 2018	92.00	34	279.0	105.00	8.05	181		0.40	0.01	LTD	32.00	29	LTD	LTD	13	5

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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

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 Exceedances **X.XX**

Aesthetic Exceedances **X.XX**

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 encrustration 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