

Whiskey Creek Distribution (Tap Water) Analysis 979 Poplar Way

CDWG=Canadian Drinking Water Guidelines
OG= Operational Guidance Value

MAC=Maximum Acceptable Concentration
AO= Asthetic Objective.

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

Green font indicates a value flagged for operational consideration in the CDWG

	Units	CDWG		May 8 2017	May 7 2018	May 13 2019	May 21 2020	May 27 2021	May 19 2022	May 25 2023	May 9 2024	May 27 2025
Miscellaneous Inorganics												
Fluoride	mg/L	1.5	MAC	0.026	0.025	0.022	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Alkalinity (total as CaCO ₃)	mg/L			31.1	27.1	29.1	26	35	31	31	30	36
Anions												
Dissolved Sulphate	mg/L	500	AO	2.82	3.9	3	4.2	2.9	<1	<1.0	<1	1.6
Dissolved Chloride	mg/L	250	AO	12	12	21	23	16	2.3	1.4	1.6	<1
Nitrite	mg/L	1	MAC	<0.0050	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Miscellaneous												
Apparent Colour	Colour Unit			10	10	<2	5	5	<5	<5	<2	<2
Nutrients												
Total Ammonia	mg/L			0.12	<0.020	<0.015	0.041	<0.015	<0.015	<0.015	<0.015	<0.015
Physical Properties												
Conductivity	µS/cm			105	103	136	140	120	64	68	66	76
pH	pH	7.0:10.5	AO	7.62	7.53	6.99	7.13	7.6	6.91	6.92	7.09	7.19
TDS	mg/L	500	AO	80	56	100	100	110	42	44	56	48
Turbidity	NTU			0.19	0.17	0.22	0.12	0.35	0.17	0.12	<0.1	0.26
Microbiological Parameters												
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0	0
Calculated Parameters												
Total Hardness (CaCO ₃)	mg/L			42.9	35.7	47.1	41	38.1	26.5	201	26	30.8
Nitrate	mg/L	10	MAC	0.071	0.067	0.056	0.07	0.063	0.05	0.139	0.092	0.048
Elements												
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	0.000002	<0.0000019	<0.0000019	<0.0000019
Total Metals												
Total Aluminum	mg/L	0.1	OG	0.256	0.123	0.026	0.0865	0.235	0.0859	<0.003	<0.003	<0.003
Total Antimony	mg/L	0.006	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Arsenic	mg/L	0.01	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Barium	mg/L	1	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0012
Total Beryllium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Bismuth	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	<0.050	<0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00521	0.00931	0.00493	0.00704	0.00886	0.0316	0.00454	0.00687	0.00259
Total Iron	mg/L	0.3	AO	0.0114	0.0079	<0.005	0.0071	0.0081	0.00144	<0.005	<0.005	0.0055
Total Lead	mg/L	0.01	MAC	0.00028	0.00095	0.00025	0.00044	0.00116	0.00144	0.00023	0.00023	0.00023
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0028	0.0024	0.0018	0.0038	0.0026	0.0136	<0.001	<0.001	<0.001
Total Molybdenum	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Nickel	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			10.4	8.55	8.01	8.25	7.79	9.57	9.26	8.98	10.1
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.0233	0.0229	0.0288	0.0272	0.0227	0.0172	0.0175	0.0154	0.0196
Total Thallium	mg/L			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Tin	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Titanium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Vanadium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	0.0062	0.0056	<0.005	<0.005	0.0066	0.013	<0.005	<0.005	<0.005
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			11.5	9.52	12.6	10.9	10.1	7.34	7.58	7.14	9.54
Total Magnesium	mg/L			3.42	2.9	3.81	3.36	3.13	1.98	2.15	1.99	1.71
Total Potassium	mg/L			0.233	0.173	0.216	0.413	0.29	0.147	0.142	0.137	0.165
Total Sodium	mg/L	200	AO	6.95	5.75	6.19	7.66	7.14	2.67	2.75	2.55	2.67
Total Sulphur	mg/L			<3.0	<3.0	<3	<3	<3	<3	<3	<3	<3

Notes below about Aluminum and pH from: www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
T - treatment related parameter	Aluminum (1998)	None	Operational Guideline (OG): < 0.1 (conventional treatment); or < 0.2 (other treatment types)	Aluminum salts used as coagulants in drinking water treatment; naturally occurring.	There is no consistent, convincing evidence that aluminum in drinking water causes adverse health effects in humans.	The operational guideline applies to treatment plants using aluminum-based coagulants; it does not apply to naturally occurring aluminum found in groundwater. For treatment plants using aluminum-based coagulants, monthly samples should be taken of the water leaving the plant; the OGs are based on a running annual average of monthly samples.
T- treatment related parameter	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.