



## Ellison Comprehensive Water Quality Results

Please note that water quality can change drastically in Ellison and Dry Valley as these areas can be supplied with water from the creek only; from the creek augmented by wells; or with wells only (when flows are low, and during spring freshet). **The following results are for the well only.**

Parameter	Aug 7/14	Sept 17/15	Sept 15/16	Sept 29/17	Units	Canadian Guidelines for Drinking Water
<b>General Inorganic Parameters</b>						
Alkalinity (total)	254	179	189	181	mg/L as CaCo <sub>3</sub>	No Guideline
Hardness (total)	296	215	211	203	mg/L as CaCo <sub>3</sub>	No Guideline
Chloride	8.36	16.3	6.2	8.04	mg/L	AO <250
Color (true)	<5	<5	<5	<5.0	Color Units	AO<15 TCU
Conductivity@ 25	651	419	407	389	Umhos/cm	No Guideline
Cyanide	<0.010	<0.010	<0.0020	<0.0020	mg/L	MAC < 0.2
Fluoride	0.33	0.13	0.13	0.54	mg/L	MAC < 1.5
Nitrite	<0.010	<0.010	<0.010	<0.010	mg/L as N	MAC < 1
Nitrate	0.018	1.81	1.62	1.76	mg/L as N	MAC < 10
pH	7.92	7.77	7.98	7.73	pH units	AO=6.5-8.5
Sulphate	87.5	17.2	15.8	15.5	mg/L	AO <500
Dissolved Solids (total)	381	239	228	223	mg/L	AO <500
Turbidity	0.4	0.2	0.35	0.31	NTU	<1
Transmissivity @ 254nm	96.7	95.4	N/A	N/A	No Guideline	No Guideline
<b>Microbiological Parameters</b>						
Total Coliform	<1	<1	<1	<1	CFU/100ml	MAC <1
E. coli	<1	<1	<1	<1	CFU/100ml	MAC <1

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Aluminum	<0.05	<0.05	<0.05	<0.0050	mg/L	OG <0.1
Antimony	0.001	<0.001	<0.001	<0.00020	mg/L	MAC =0.006
Arsenic	<0.005	<0.005	<0.0050	0.00076	mg/L	MAC = 0.01
Barium	0.05	<0.05	<0.050	0.0354	mg/L	MAC =1
Beryllium	<0.001	<0.001	N/A	N/A	mg/L	No Guideline
Boron	<0.04	<0.04	0.228	0.0070	mg/L	MAC =5
Cadmium	<0.0001	<0.0001	0.00013	0.000057	mg/L	MAC =0.005
Calcium	63.4	59.2	55.9	54.2	mg/L	No Guideline
Chromium	<0.005	<0.005	<0.005	<0.00050	mg/L	MAC =0.05
Cobalt	<0.0005	<0.0005	<0.0005	<0.00010	mg/L	No Guideline
Copper (Total)	0.003	0.006	0.0029	0.00191	mg/L	AO ≤1
Iron	0.46	<0.10	<0.10	0.086	mg/L	AO ≤0.3
Lead	<0.001	<0.001	<0.001	0.00048	mg/L	MAC =0.01
Magnesium	33.3	16.4	17.4	16.4	mg/L	No Guideline
Manganese	0.140	0.084	0.091	0.0880	mg/L	AO ≤0.05
Mercury	<0.0002	<0.00002	<0.00002	<0.000010	mg/L	MAC =0.001
Molybdenum	0.019	0.001	0.0019	0.00144	mg/L	No Guideline
Nickel	<0.002	<0.002	<0.002	0.00164	mg/L	No Guideline
Phosphorus	<0.2	<0.2	N/A	N/A	mg/L	No Guideline
Potassium	3.3	2.2	2.14	2.09	mg/L	No Guideline
Selenium	<0.005	<0.005	<0.005	0.00164	mg/L	MAC =0.05
Silicon	11	12	N/A	N/A	mg/L	No Guideline
Silver	<0.0005	<0.0005	N/A	N/A	mg/L	No Guideline
Sodium	29.8	10.6	8.53	8.29	mg/L	AO ≤200
Uranium	0.0060	0.0022	0.00274	0.00259	mg/L	MAC =0.02
Zinc	<0.04	<0.04	<0.04	0.0062	mg/L	AO ≤5

MAC=Maximum Acceptable Concentration

AO=Aesthetic Objective