



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	May 2/13	Aug 7/14	Sept 17/15	Sept 15/16	Units	Canadian Guidelines for Drinking Water
General Inorganic Parameters						
Alkalinity (total)	263	254	179	189	mg/L as CaCo3	No Guideline
Hardness (total)	295	296	215	211	mg/L as CaCo3	No Guideline
Chloride	9.75	8.36	16.3	6.2	mg/L	AO <250
Color (true)	<5	<5	<5	<5	Color Units	AO<15 TCU
Conductivity@ 25	668	651	419	407	Umhos/cm	No Guideline
Cyanide	<0.010	<0.010	<0.010	<0.0020	mg/L	MAC < 0.2
Fluoride	0.44	0.33	0.13	0.13	mg/L	MAC < 1.5
Nitrite	<0.010	<0.010	<0.010	<0.010	mg/L as N	MAC < 1
Nitrate	0.049	0.018	1.81	1.62	mg/L as N	MAC < 10
pH	8.06	7.92	7.77	7.98	pH units	AO=6.5-8.5
Sulphate	89.9	87.5	17.2	15.8	mg/L	AO <500
Dissolved Solids (total)	392	381	239	228	mg/L	AO <500
Turbidity	0.5	0.4	0.2	0.35	NTU	<1
Transmissivity @ 254nm	90.7	96.7	95.4	N/A	No Guideline	No Guideline
Turbidity of 0.0 to 1.0 NTU is considered "Good" by IHA Turbidity of 1.0 to 5.0 NTU is considered "Fair" by IHA = Water Quality Advisory Turbidity of >5.0 NTU is considered "Poor" by IHA = Boil Water Notice						
Microbiological Parameters						

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Total Coliform	<1	<1	<1	<1	CFU/100ml	MAC <1
E. coli	<1	<1	<1	<1	CFU/100ml	MAC <1
Total Recoverable Metals by ICPMS						
Parameter	May 2/13	Aug 7/14	Sept 17/15	Sept 15/16	Units	Canadian Guidelines for Drinking Water
Aluminum	<0.05	<0.05	<0.05	<0.05	mg/L	OG <0.1
Antimony	<0.001	0.001	<0.001	<0.001	mg/L	MAC =0.006
Arsenic	<0.005	<0.005	<0.005	<0.0050	mg/L	MAC = 0.01
Barium	<0.05	0.05	<0.05	<0.050	mg/L	MAC =1
Beryllium	<0.001	<0.001	<0.001	N/A	mg/L	No Guideline
Boron	<0.04	<0.04	<0.04	0.228	mg/L	MAC =5
Cadmium	<0.0001	<0.0001	<0.0001	0.00013	mg/L	MAC =0.005
Calcium	62	63.4	59.2	55.9	mg/L	No Guideline
Chromium	<0.005	<0.005	<0.005	<0.005	mg/L	MAC =0.05
Cobalt	<0.0005	<0.0005	<0.0005	<0.0005	mg/L	No Guideline
Copper (Total)	0.003	0.003	0.006	0.0029	mg/L	AO ≤1
Iron	0.5	0.46	<0.10	<0.10	mg/L	AO ≤0.3
Lead	<0.001	<0.001	<0.001	<0.001	mg/L	MAC =0.01
Magnesium	34.0	33.3	16.4	17.4	mg/L	No Guideline
Manganese	0.137	0.140	0.084	0.091	mg/L	AO ≤0.05
Mercury	<0.0002	<0.0002	<0.00002	<0.00002	mg/L	MAC =0.001
Molybdenum	0.021	0.019	0.001	0.0019	mg/L	No Guideline
Nickel	<0.002	<0.002	<0.002	<0.002	mg/L	No Guideline
Phosphorus	<0.2	<0.2	<0.2	N/A	mg/L	No Guideline
Potassium	3.5	3.3	2.2	2.14	mg/L	No Guideline
Selenium	<0.005	<0.005	<0.005	<0.005	mg/L	MAC =0.05
Silicon	8	11	12	N/A	mg/L	No Guideline
Silver	<0.0005	<0.0005	<0.0005	N/A	mg/L	No Guideline
Sodium	31.8	29.8	10.6	8.53	mg/L	AO ≤200
Uranium	0.0057	0.0060	0.0022	0.00274	mg/L	MAC =0.02
Zinc	<0.04	<0.04	<0.04	<0.04	mg/L	AO≤5
MAC=Maximum Acceptable Concentration			AO=Aesthetic Objective			