



Water Testing Results from Spruce Point Mine Site Grass River Provincial Park, Manitoba

Water samples collected on October 15, 2013 from mine effluent pond in Grass River Provincial Park.

Water sample results compared with Canadian Council of Ministers of Environment Guidelines for the Protection of Aquatic Life

	Grass River Park Pond (µg/L)	CCME Guideline for Protection of Aquatic Life (µg/L)
Aluminium	78.1	5 to 100 ¹
Arsenic	149	5
Cadmium	281	0.09 to 1 ²
Chromium	62	8.9 ³
Cobalt	1 270	110 ⁴
Copper	64 600	2 to 4 ⁵
Iron	336 000	300
Nickel	712	25 to 150 ⁶
Phosphorus	530	35 to 100 ⁷
Selenium	9.1	1
Zinc	120	30

1. Depending on pH, lower value if pH is less than 6.5 as is the case in the pond.
2. Depending on hardness
3. Interim guideline for tri-valent chromium, the more common variety in the environment.
4. BC water quality guideline
5. Depending on hardness
6. Depending on hardness
7. Depending on productivity of water body