



Gartner
Lee

Weather: Drizzle, cold and very windy

Hackett River

Table 1. August 21 & 22 2004 Surface Water Sampling

Station ID	Station Name	Easting*	Northing*	Electrical Conductivity (uS/cm @ 25°C)	Temperature (°C)	pH	D.O. (mg/L)	Comments
1	Upper Sunken Lake	620,506	7,32,454	81.8	5.8	6.86	11.6	Accessed sample location by foot from camp. No outflow - via ground most likely, except for during spring melt. lake level had dropped sign since high flow (~1 m). Sample from west shore <1/2 way from inlet. Outlet during peak flow - see picture. No direct flow link to Lower Sunken Lake. Outlet from Camp Lake. Flowing. Bouldery, would be hard to gauge.
2	Boot Lake	616,596	7,312,574	51.9	7.7	6.99	11.50	Accessed sample location by helicopter. Sample location at narrows (east shore). Active drilling going on at time of sampling on east side of lake.
3	Cleaver Lake	615,002	7,312,873	201.9	8	7.38	12	Accessed sample location by helicopter. Sampled from island in centre.
4	Anne Lake	613,150	7,313,592	161.8	7.8	7.70	11.60	Accessed site by helicopter. Sampled from north side - middle of lake.
5	Mara u/s	612,725	7,317,976	26.3	7.5	7.05	11.50	Accessed site by helicopter. Sample location below rapids area, upstream of drainage input from project area. Ripples/rapids followed by slower deeper pools. Too wide/strong to wade to get width. Fair bit of flow.
6	Mara d/s	613,598	7,319,459	19.2	7.3	7.20	11.90	Accessed by helicopter. Sample location downstream from confluence of potential drainage of project area. Downstream of rapids. Too wide/deep/fast to wade.
8	Banana Lake	620,083	7,313,515	65.8	6.4	7.57	11.80	Accessed site by foot from camp. Sample taken from southern portion of lake from east shore. Lots of orange staining on rocks at outlet. Sample taken u/s (north) of gossan on eastern shore of the lake.
11/12	Camp Lake	619,867	7,312,883	83.4	8.1	7.01	10.80	Sampled from approximate deepest portion of the lake as per Miller (1978). Access by zodiac. Although not as windy as previous days, still a substantial amount of wind. Hard to keep the zodiac in place. Depth sampler was in at approx. 30° angle from surface due to wind effects.
11 Bott.	Camp Lake (bottom)	619,867	7,312,883	42.0	7.0	6.97		Sample depth ~ 13m. Could not use O ₂ probe for depth due to wind effects. Zodiac drifted significantly during sampling.
11 Mid.	Camp Lake (middle)	619,867	7,312,883	48.2	6.5	6.93		Middle ~ 9m. Could not use O ₂ probe for depth due to windy conditions.
9	Hackett u/s	626,719	7,311,986	38.4	5.1	7.50	11.70	Accessed site by helicopter. Sample take upstream of confluence with Camp Creek. Entire section more like a lake due to low flow - no flow measurement.
10	Hackett d/s	626,808	7,312,124	22.4	6.1	7.34	12.20	Accessed site by helicopter. Sample take downstream of confluence with Camp Creek, prior to ripple section. Again deep pool with no noticable flow - like a lake. According to the pilot, many of the streams which are now dry have substantial flow during freshette, i.e. stream d/s of Lower Sunken Lake.
7	Cigar Lake	624,786	7,306,581	40.4	5.5	6.96	12.30	Accessed by Helicopter. Sample location taken on the south side of the lake east of the outlet. Old tent frame on south east end of lake. Intended for reference.

Notes

* UTM Zone 12, NAD83