Summary of toxicity testing 5/16/10.

Bioassay set-up continued until 0200h on 5/16/10 although weather conditions slowed the process of sorting organisms under the microscope stage, necessitating an abbreviated experimental design consisting of duplicated serial dilutions (100%, 56%, 36%, 18%, 10% 0%) of a sub-set of samples B20A (surface), B20D (100M), B20F(500m), B20H (1000M), B20I (1200M), B20J (1300), B20K (1400M), selected on the basis of the fluorometry profile (1 Km from well-head).

Extra rotifer cultures were initiated in case more were required and sufficient organisms were available for further bioassay of samples from sample site B21. Triplicate bioassays were set up for samples B21A, B21G and B21J in an effort to capture samples with fluorometry peaks. Again, weather conditions significantly hampered manipulation of organisms under the microscope. 24h counts (six per sample) were completed for exposed organisms from (undiluted) samples B19B, B19C and B19D (uncontaminated site). Survival was 90.3% in lab controls and between 92.9 – 93.3% in B19 field samples. At time of writing counts are continuing on 24h samples from the B20 samples.

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