

and I have found it necessary to run the tap a considerable time to collect any appreciable quantity.

As already stated, my investigations have been confined to the tap water in the School of Practical Science; and, while admitting that other taps in different parts of the city would probably give different results as to quantity, yet I think the quality would be found to be practically the same.

APRIL 7th, 1883.

EXPLANATION OF THE FIGURES IN PLATE.

FIG. 1. —*Melosira dentata*, n. sp., filament of 4 frustules.

FIG. 2. —*Closterium*, sp. ?

FIG. 3. —*Clos. filiforme*, n. sp.

FIG. 4. —Unknown form—probably a Desmid.

FIGS. 5, 6. —Encysted forms of *Dinobryon sertularia*, Ehr.

FIG 7. —Flagellate Infusorian allied to *Bicosoea lacustris*, J. Clark, and *Stylobryon petiolatum*, Duj.; e, eye-spot; cv, contractile vacuole; lb, lateral bands.

