

interest. At the brickyard unios, retaining their dark epidermis and having the valves united, are often found embedded in a few inches of blue clay immediately overlying the till. The sands above this contain more or less waterworn unios, pleuroceras, sphæriums, etc., while the overlying stratified clay beneath the middle till holds a little peaty matter, but nothing well enough preserved to be determinable.

At the Convict Cutting, too, the unio bed is disclosed, but some stratified, sandy clay beds in the upper part of the section have proved much more interesting, that patient collector, Mr. Townsend, having obtained from them a large number of leaves, among which he thinks are leaves of the oak, beech and willow. It is very difficult to preserve these leaf fragments, since the clay dries up and the brown traces of the outline and veining shrivel up and become almost unrecognizable.

Up to the present the unios have proved the most important finds along the Don. They include the *Unio phaseolus*, *U. clavus*, *U. pustulosus*, *U. pustulosus*, var. *schoolcrafti*, *U. occident* (?), *U. luteolus*, *U. undulatus*, *U. rectus*, *U. trigonus*, and *U. solidus*. The other shells obtained are *Sphærium striatinum*, *Pleurocera subulare*, *P. elevatum*, an undetermined species of the same genus and a single specimen which may be *P. pallidum*, *Physa ancillaria* and *Amnicola limosa*. I am indebted to Dr. Dall and his assistant, Mr. C. T. Simpson, for the determination of the above species, all of which occur at the brickyards and several of them at the other points. A few other fossils, including one or two species of ostracods, a number of elytra of beetles and one or two teeth, the latter found by Mr. Townsend, have been obtained at the Convict Cutting with the leaves, but have not yet been determined.

The plants include fragments of tree trunks, leaves, a very few mosses and chara. The specimens of wood have been determined by Professor Penhallow of McGill to be *Fraxinus quadrangulata*, *Quercus obtusiloba*, *Ulmus americana*, *Maclura aurantiaca* and *Picea sitchensis* (?). Some leaves sent from the Convict Cutting he considers to be of willows and poplars. Pro-