**Supplementary Table 1**

The 13 diatom species that comprised at least 10% or more of the diatom assemblage at some point within the core.

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| --- | --- | --- |
| *Achnanthidium minutissiumum* (Kützing) Czarnecki | *Achnanthidium Latecephalum* Kobayasi | *Fragilaria virescens* Ralfs |
|
| *Gomphonema brebissonii* Kützing | *Psammothidium helveticum* (Hustedt) Bukhtiyarova and Round | *Pinnularia saprophila* Lange-Bertalot, Kobayasi and Krammer |
| *Planothidium lanceolatum* (Brébisson ex Kützing) Lange-Bertalot | *Diploneis ovalis* (Ehrenberg) Cleve | *Aulacoseira alpigena* (Grunow) Krammer |
| *Cyclotella meneghiniana* (Kützing) | *Staurosira construens* Ehrenberg | *Staurosira construens var. venter* (Ehrenberg) Hamilton |
| *Staurosirella pinnata* (Ehrenberg) Williams and Round |  |  |