

**Table S1: Overview of sampling strategies and temporal framework.**

<b>Variables</b>	<b>Time of sampling</b>	<b>Sampling frequency</b>	<b>Sampling sites</b>
<b>Hydrological and Meteorological parameters</b>	March 2016 – October 2019	Monthly	See 2.2 section
<b>Geochemistry</b>	March 2016– July 2019	Monthly from March 2016 to April 2017 then quarterly until July 2019	A, B, C
<b>Oxygen profiling</b>	March 2016– July 2019	Monthly from March 2016 to April 2017 then quarterly until July 2019	C
<b>Granulometry</b>	March 2017 – Mars 2019	Monthly	A, B, C
<b>NDVI</b>	April 2017 – July 2019	Monthly	A, B, C
<b>Diatoms counting and identification</b>	April 2017 – July 2019	Monthly	B
<b>Foraminifera counting and identification</b>	March 2016 – October 2019	Monthly	A, B, C