



Figure 2 Time series of (A) surface water level (SW level) and groundwater level (m NAP), (B) net rainfall (daily water surplus (+) (blue) and deficiency (-) (darkblue), mm d⁻¹) and daily pumping volume (Pump m³ d⁻¹), (C) hourly time series of EC (μS/cm) and NH₄-N (mg N L⁻¹), and (D) hourly TP, turbidity, (E) discrete samples of Fe (total iron in water column) and O₂ concentrations (mg L⁻¹). The dots in (C) and (D) are the corresponding discrete sampling data, which are plotted to show their close match to the continuous time series data, as well as to fill in the gaps. All data were monitored at the pump station. The transparent pink blocks are the selected rain events for further analysis in section 3.3.