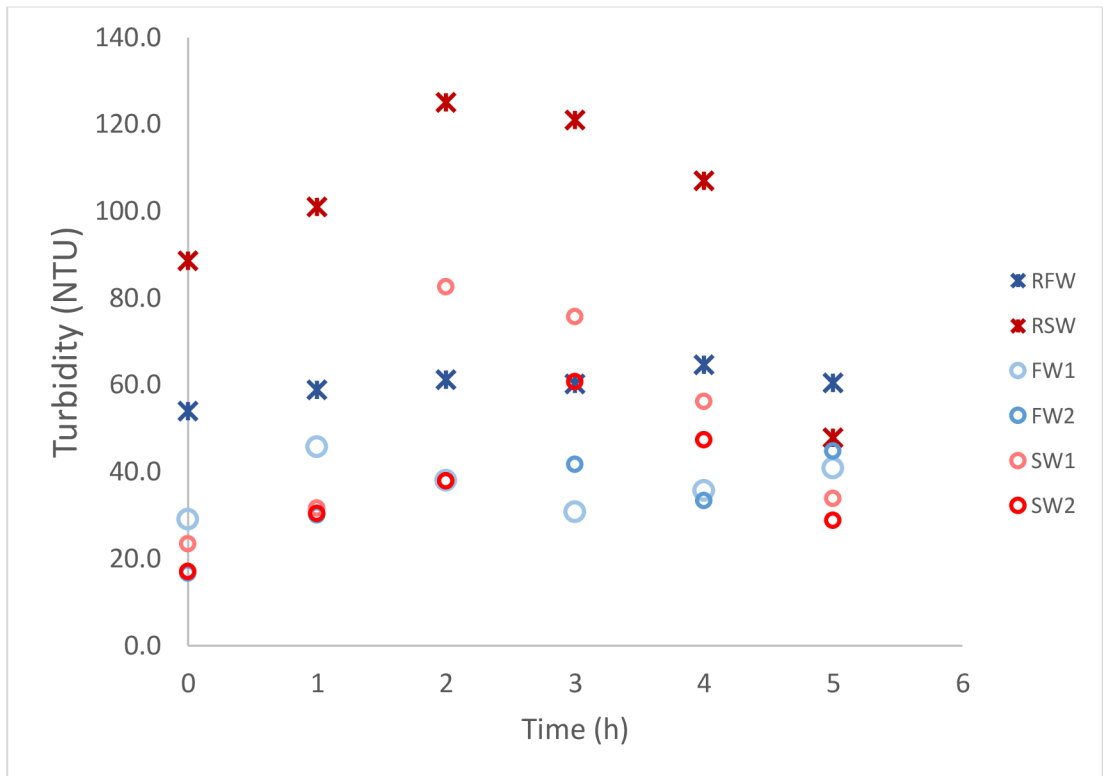
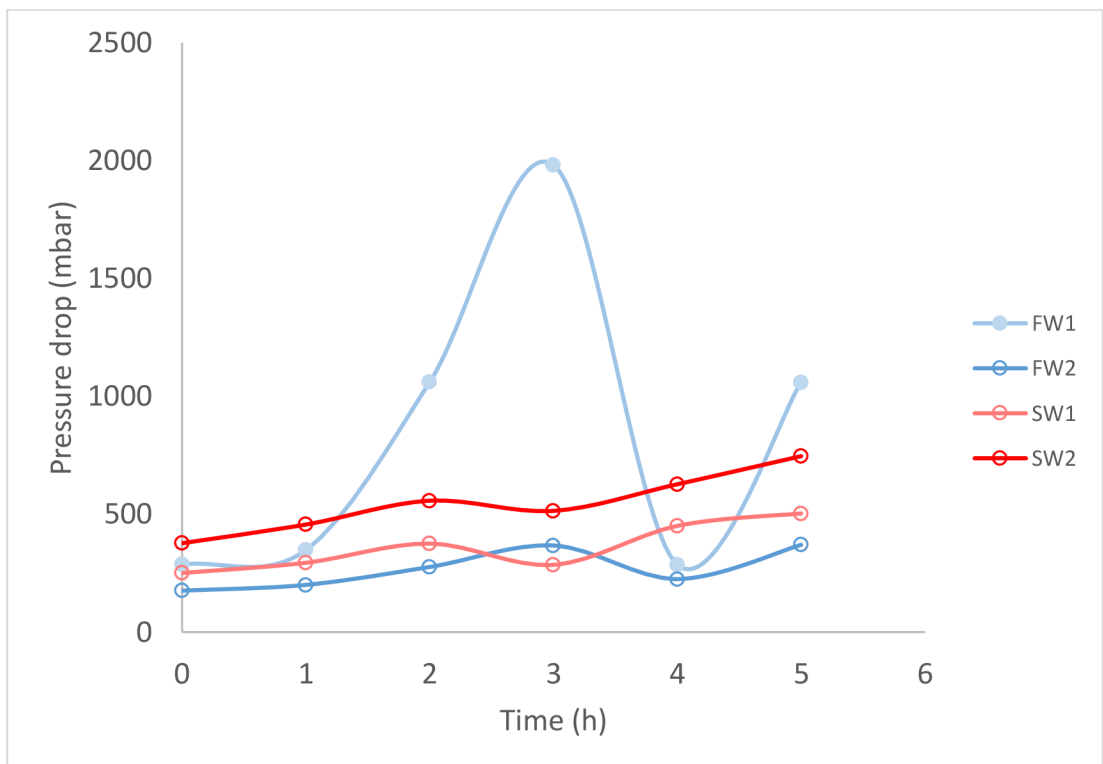


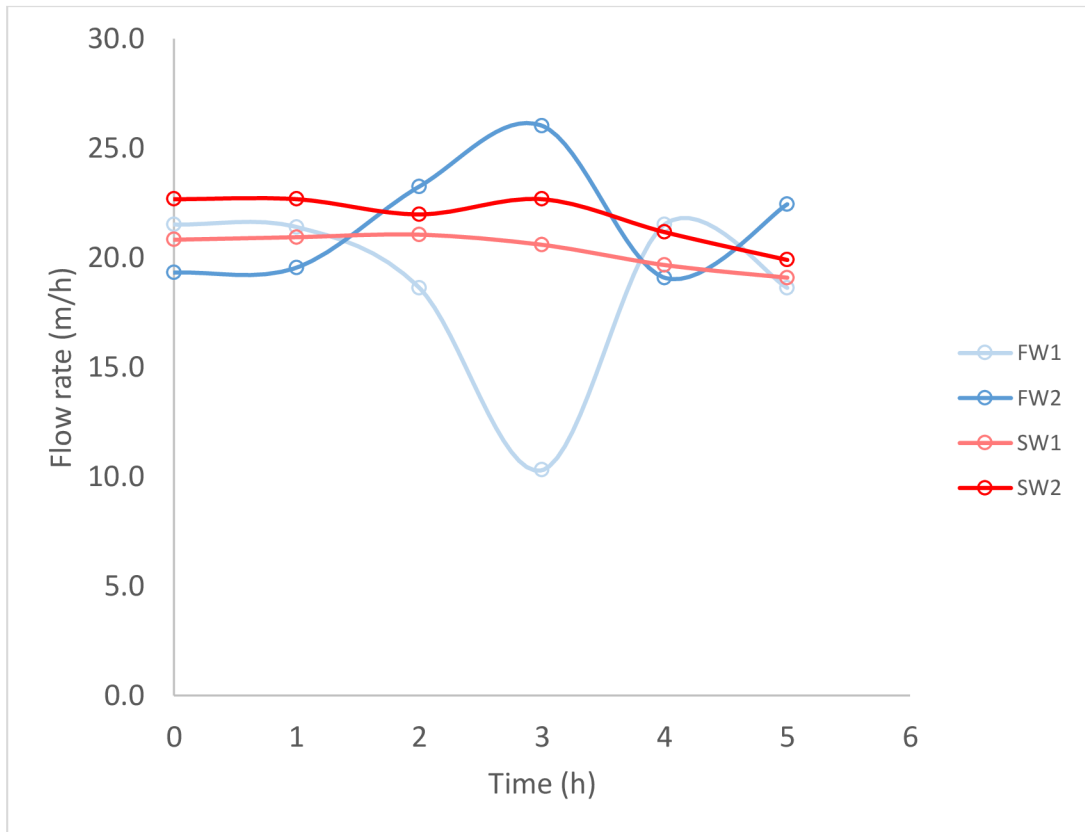
## 7 Appendix



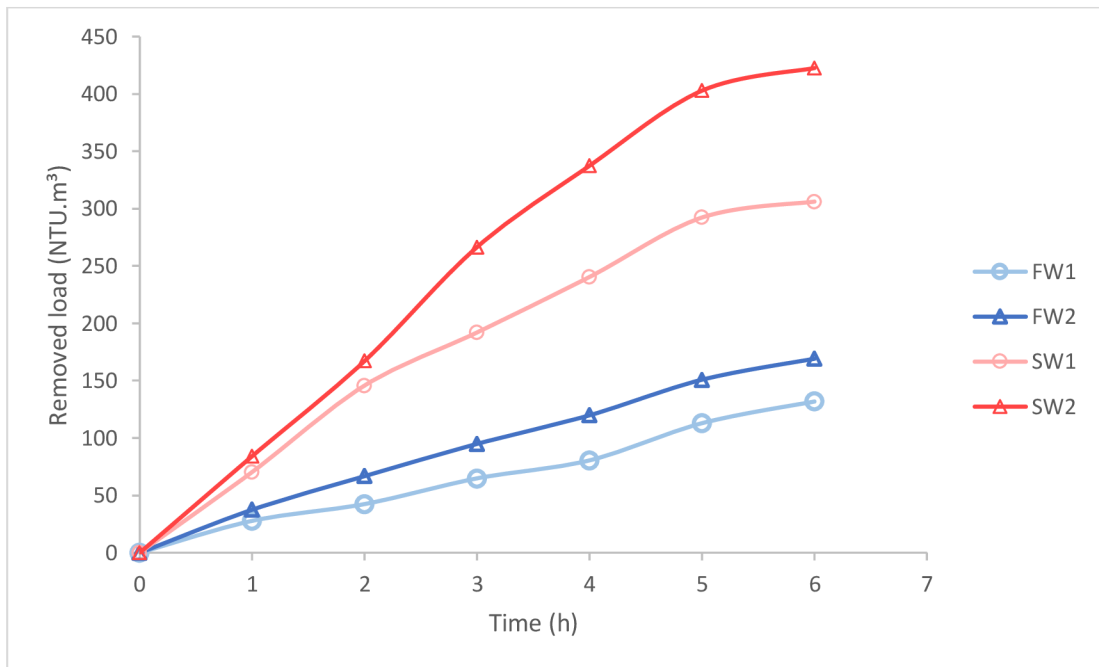
**Figure 23:** Turbidity measured on 02.11.2022



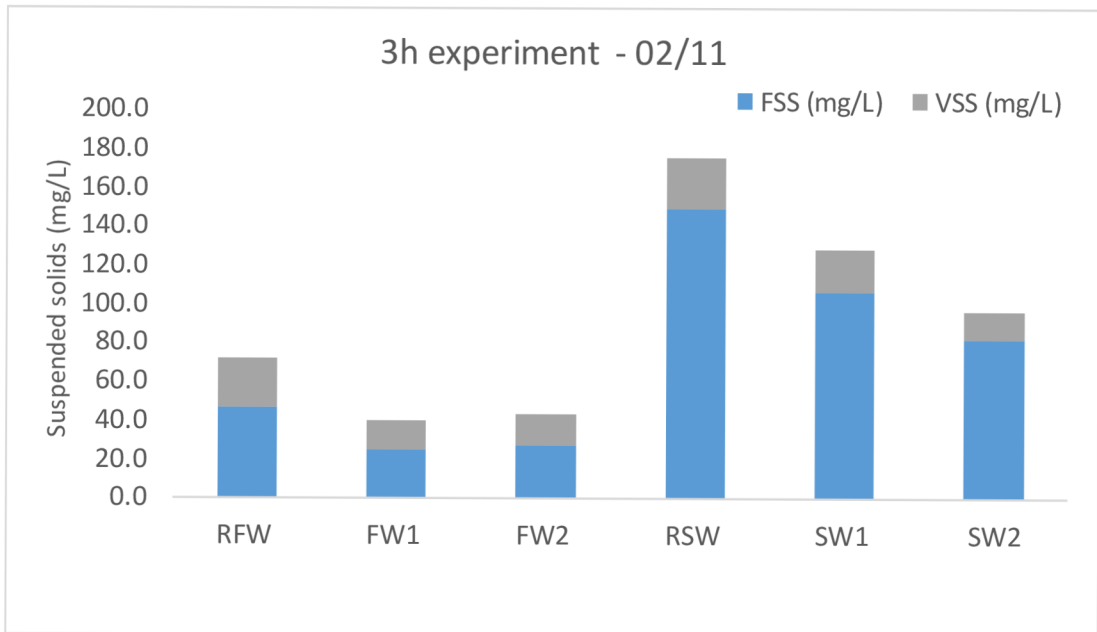
**Figure 24:** Pressure drop collected on 02.11.2022



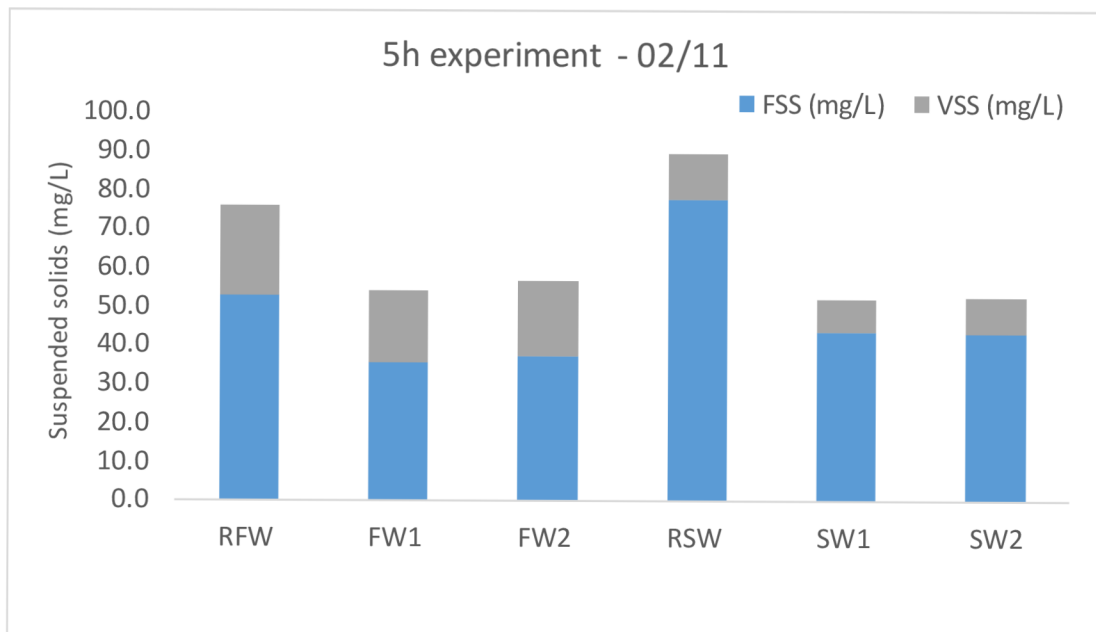
**Figure 25:** Measured flow rate on 02.11.2022



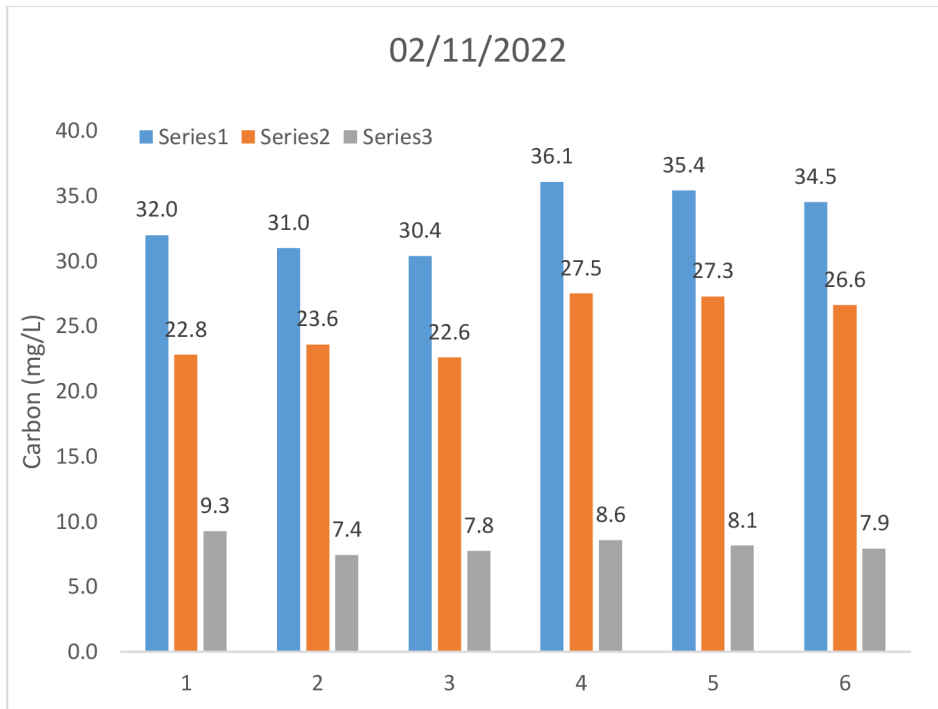
**Figure 26:** Filters removed load on 02.11.2022



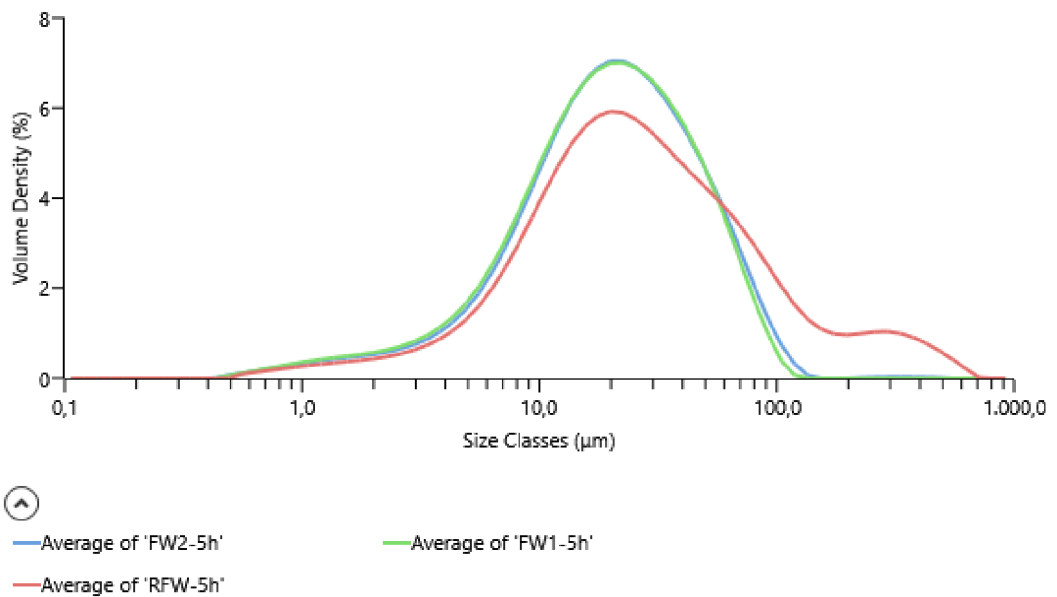
**Figure 27:** TSS measurement collected on 02.11.2022



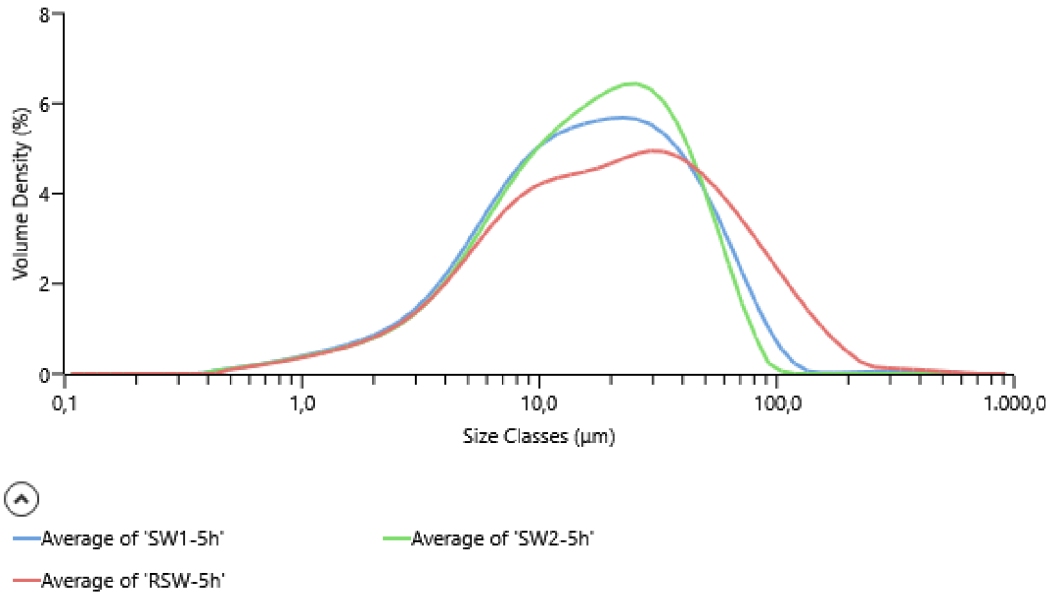
**Figure 28:** TSS measurement after five hours from experimental run on 02.11.2022



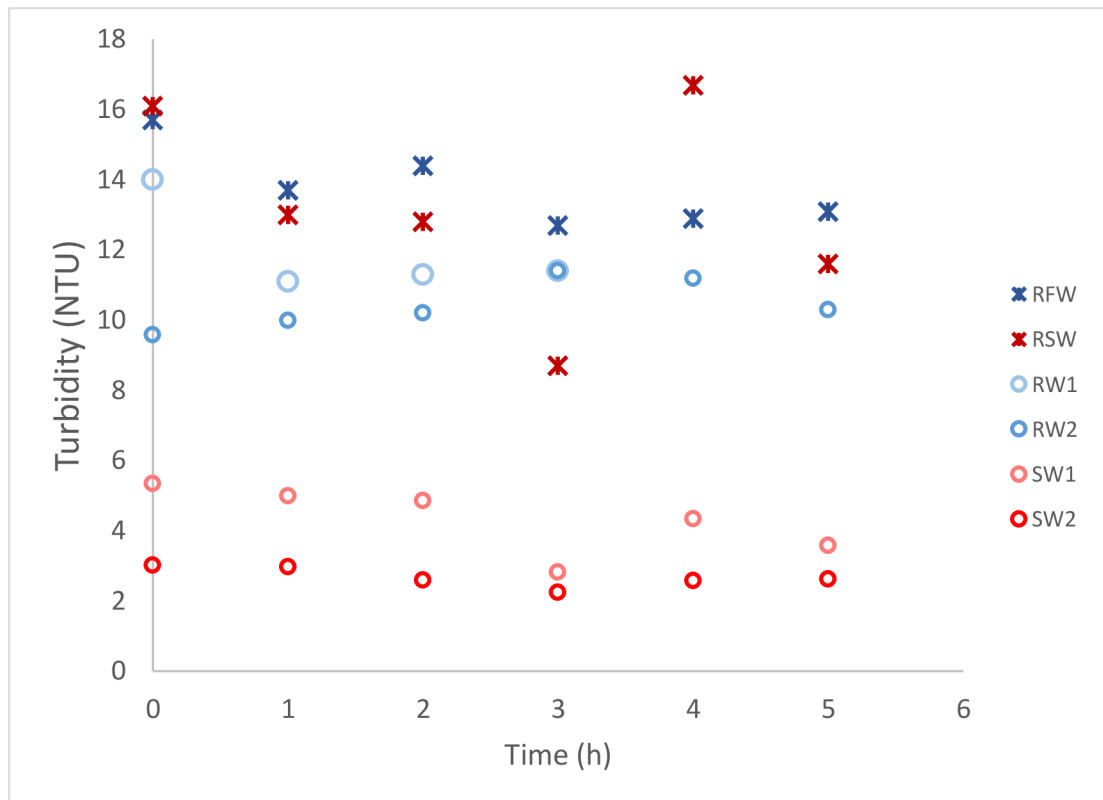
**Figure 29:** TOC measurement



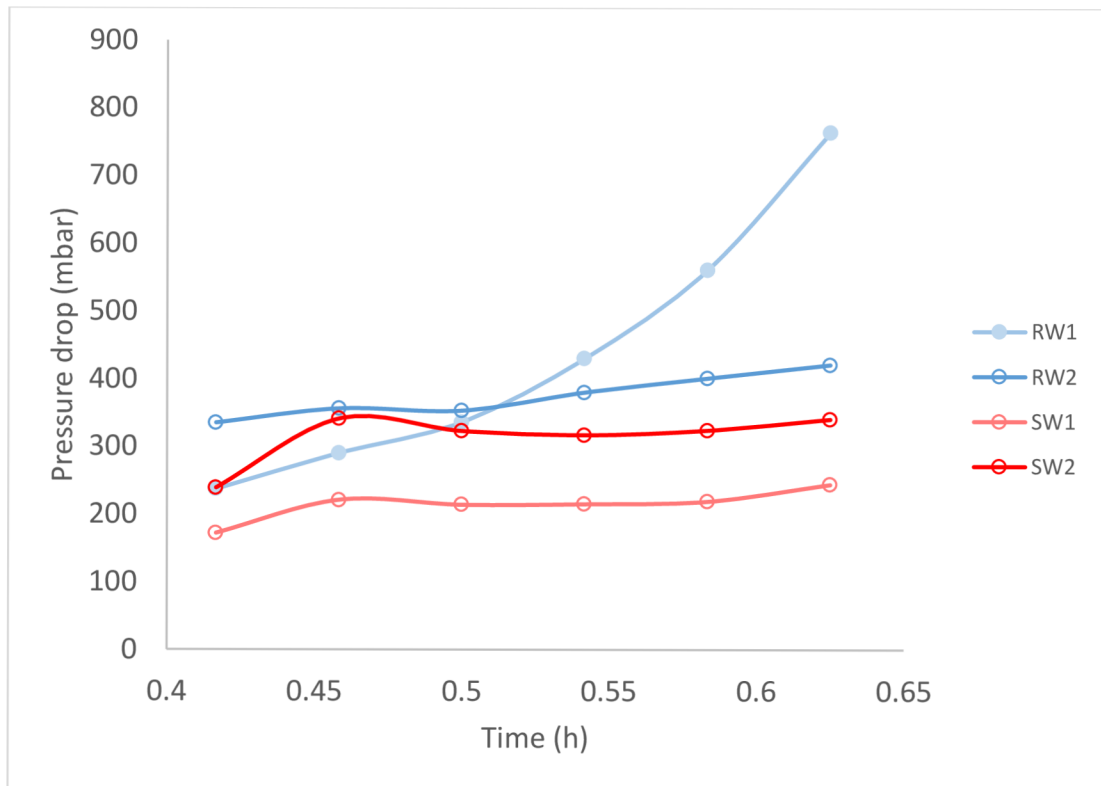
**Figure 30:** Particle size averages for fresh water measured on 02.11.2022



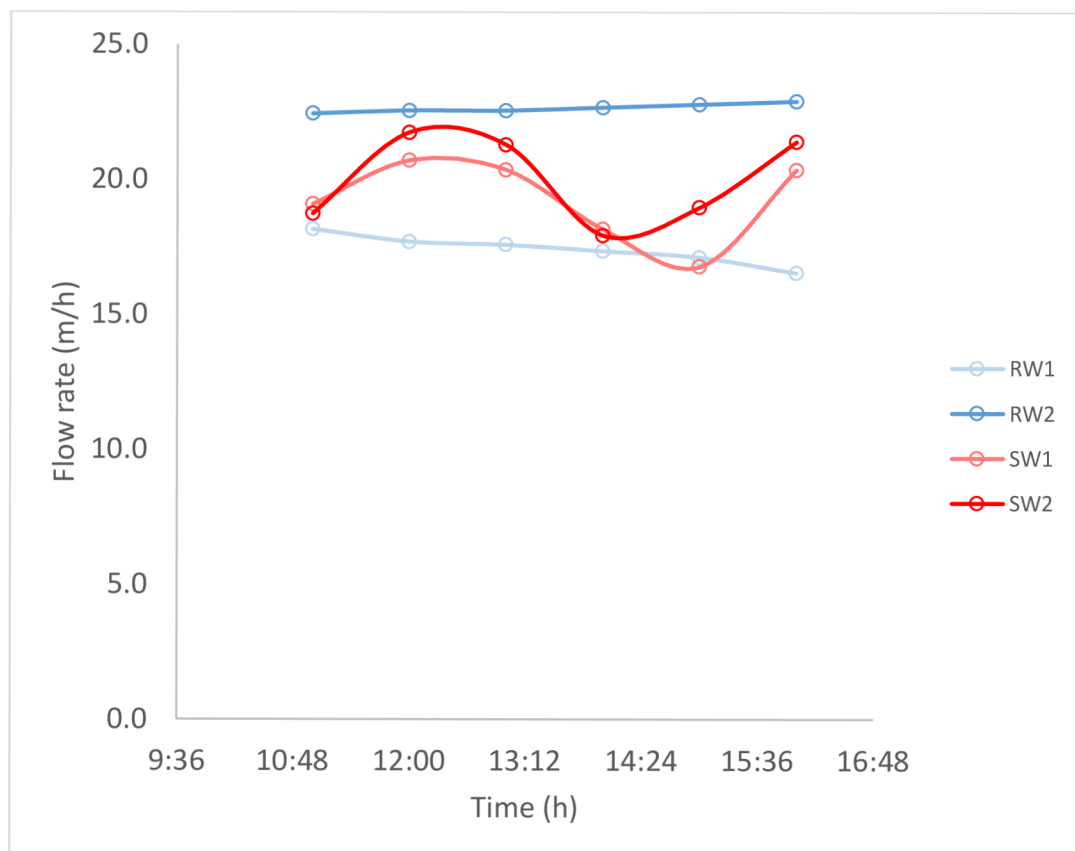
**Figure 31:** Particle size averages for sea water measured on 02.11.2022



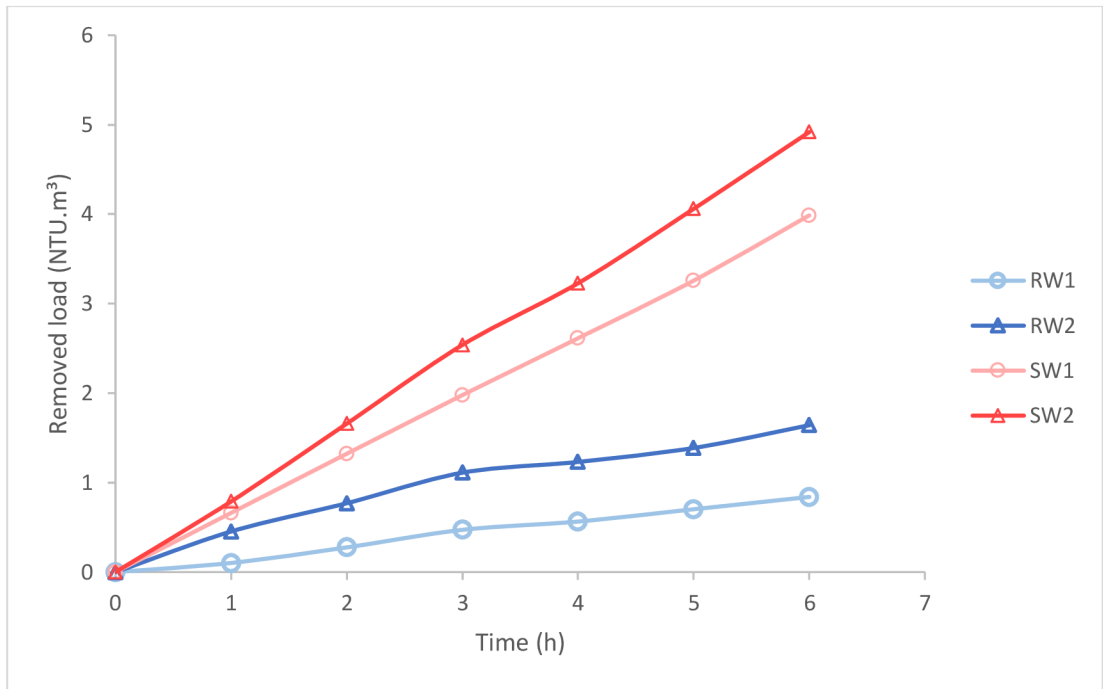
**Figure 32:** Measured turbidity for treated & untreated water collected on 28.09.2022



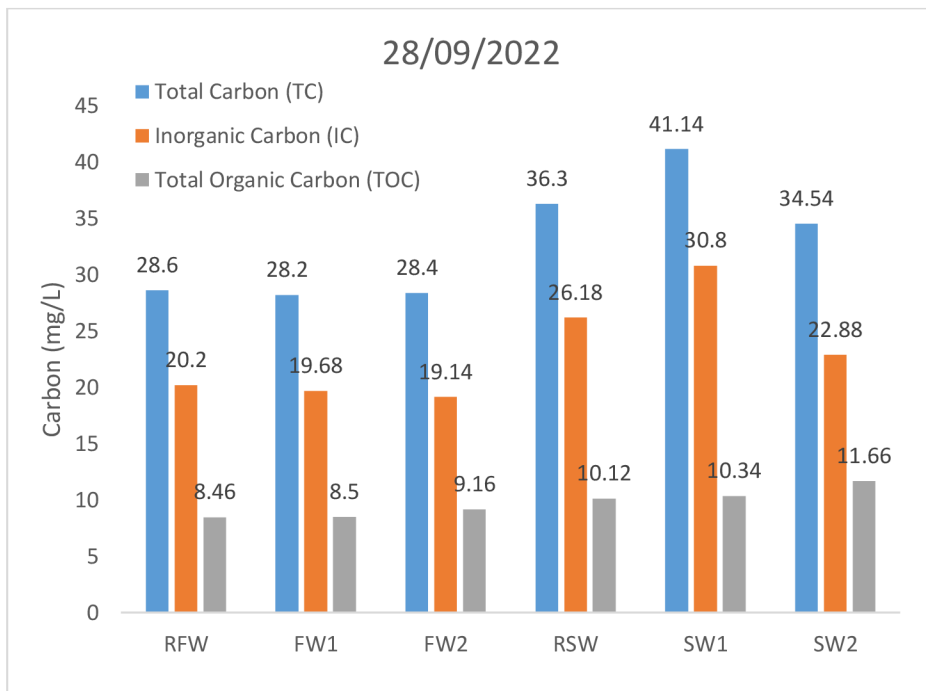
**Figure 33:** Measured pressure over experimental run on 28.09.2022



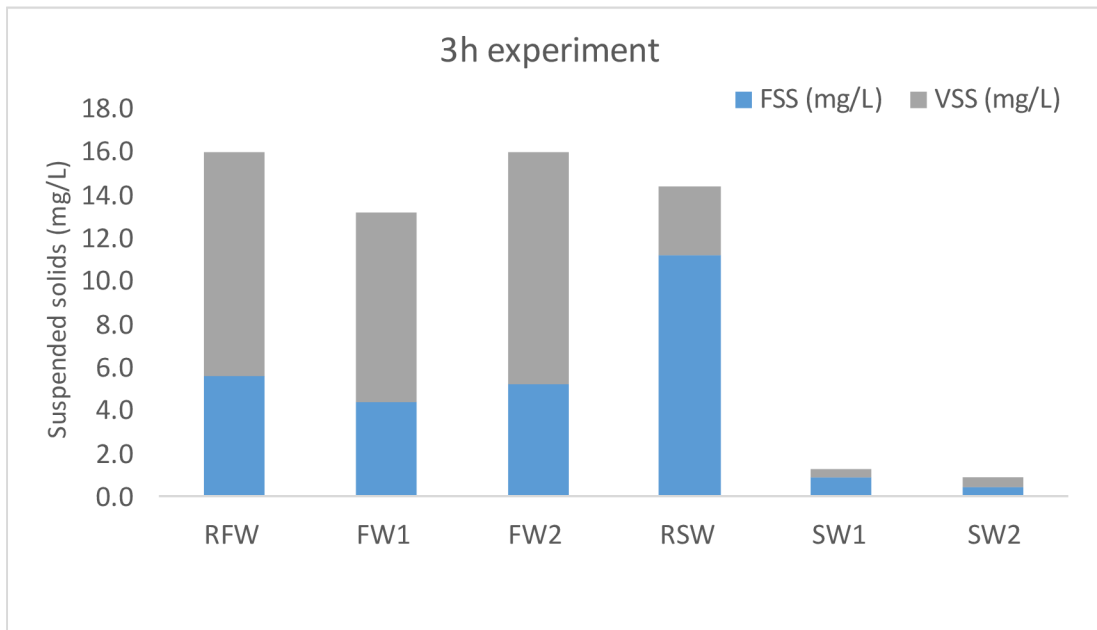
**Figure 34:** Measured flow collected on 28.09.2022



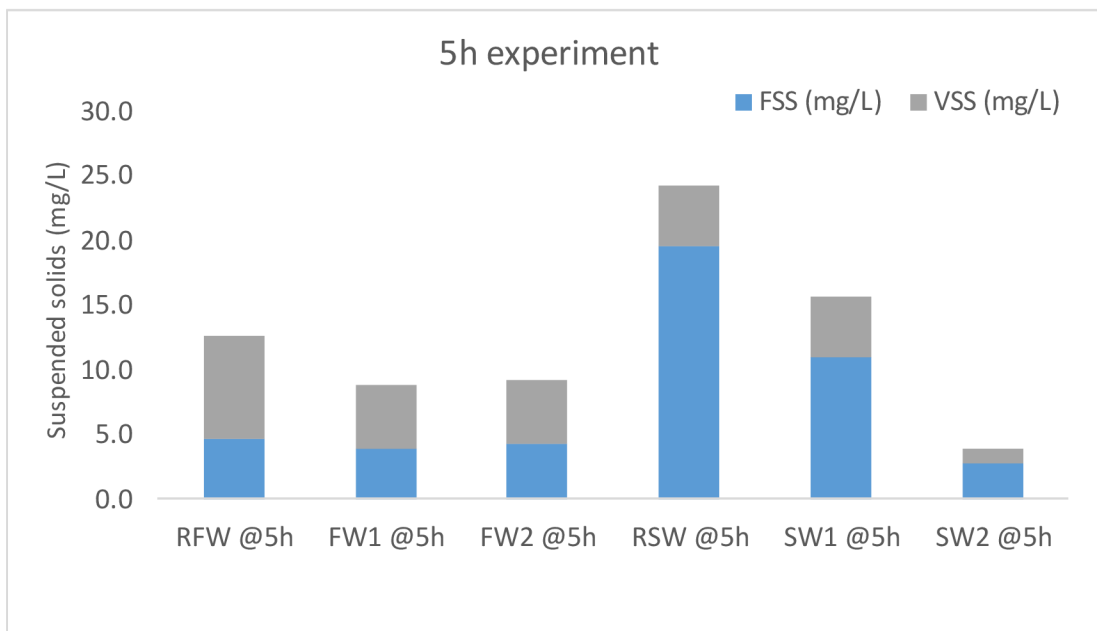
**Figure 35:** Removed load collected on 28.09.2022 calculated in excel



**Figure 36:** TOC measured from samples at end of experiment run

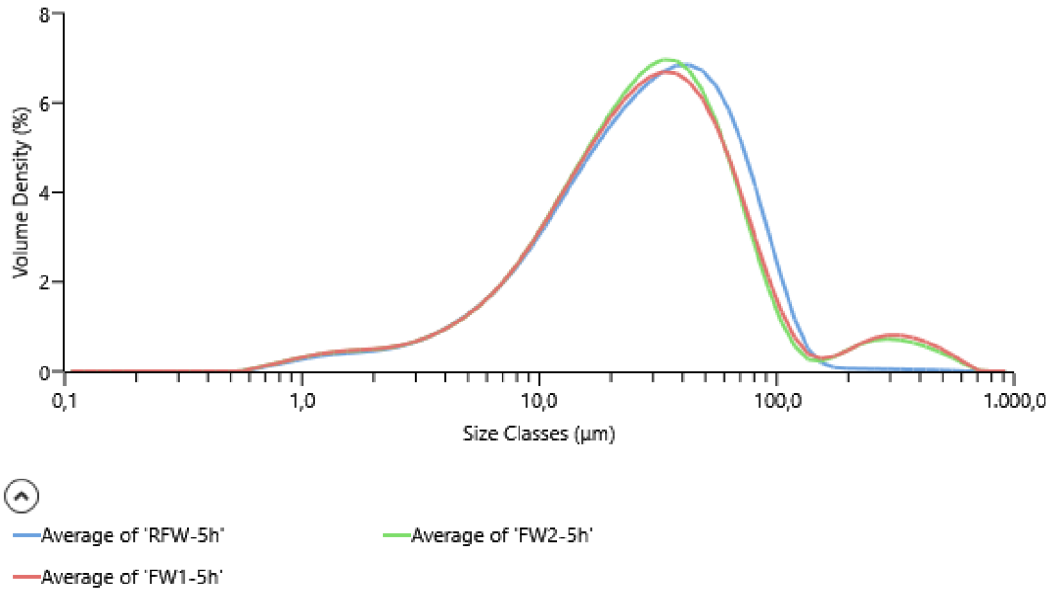


**Figure 37:** TSS measurement performed three hours after start of experiment on 28.09.2022

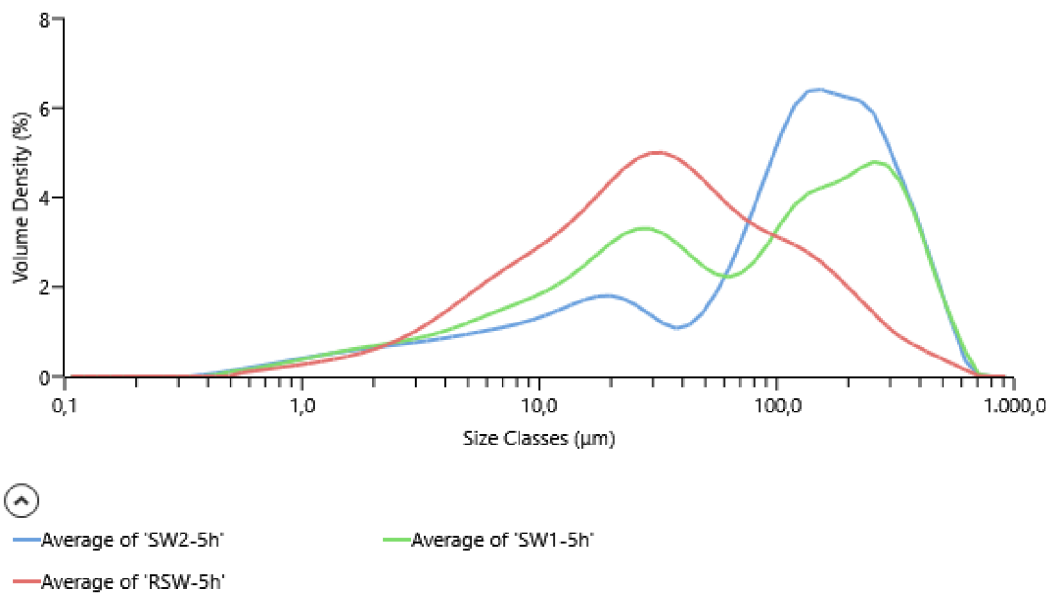


**Figure 38:** TSS performed at end of experiment on 28.09.2022

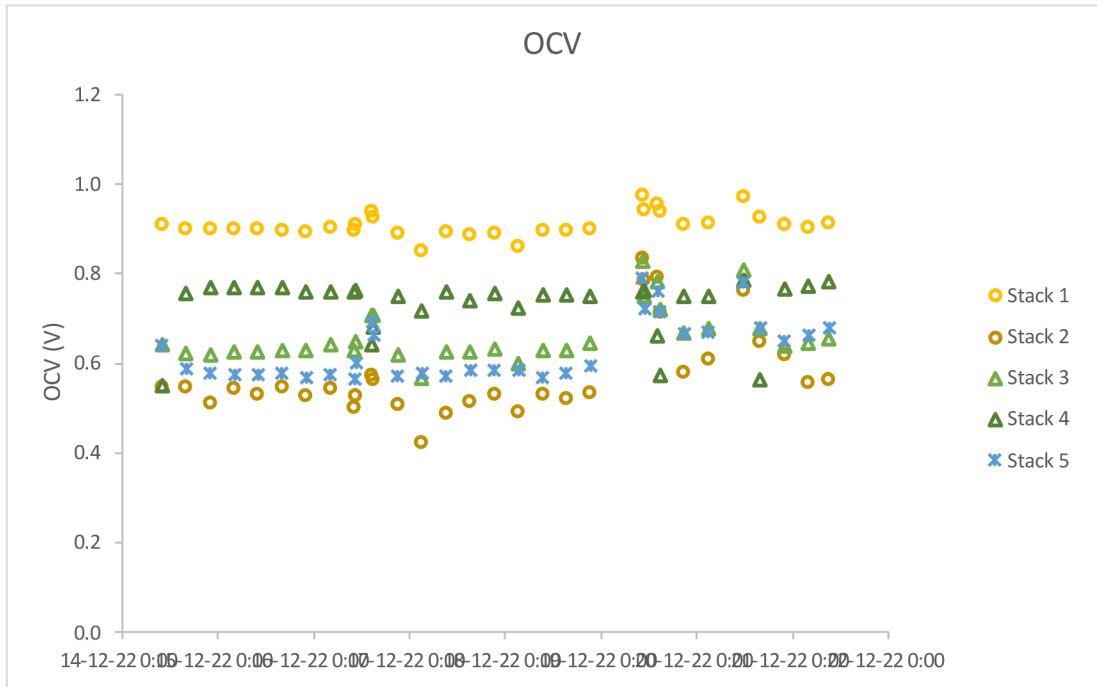




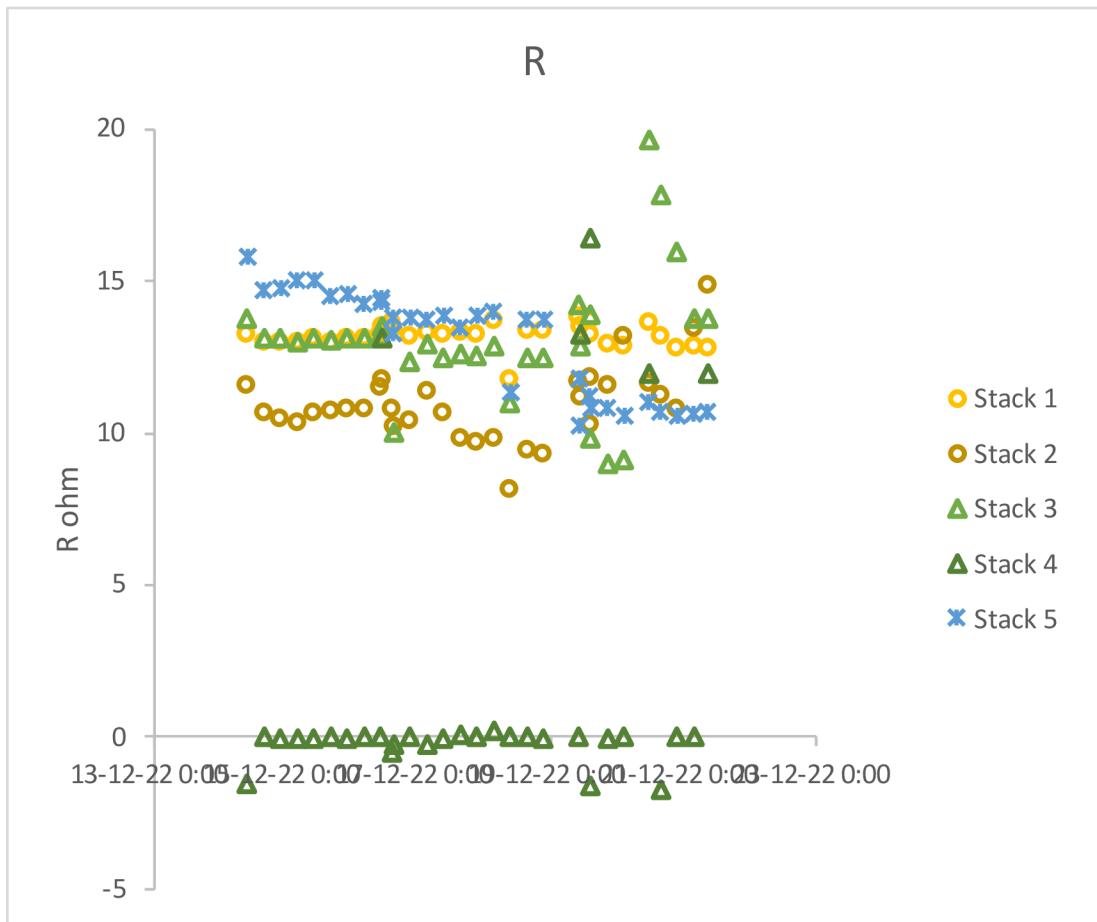
**Figure 39:** Average particle size of particulates in fresh water samples collected on 28.09.2022



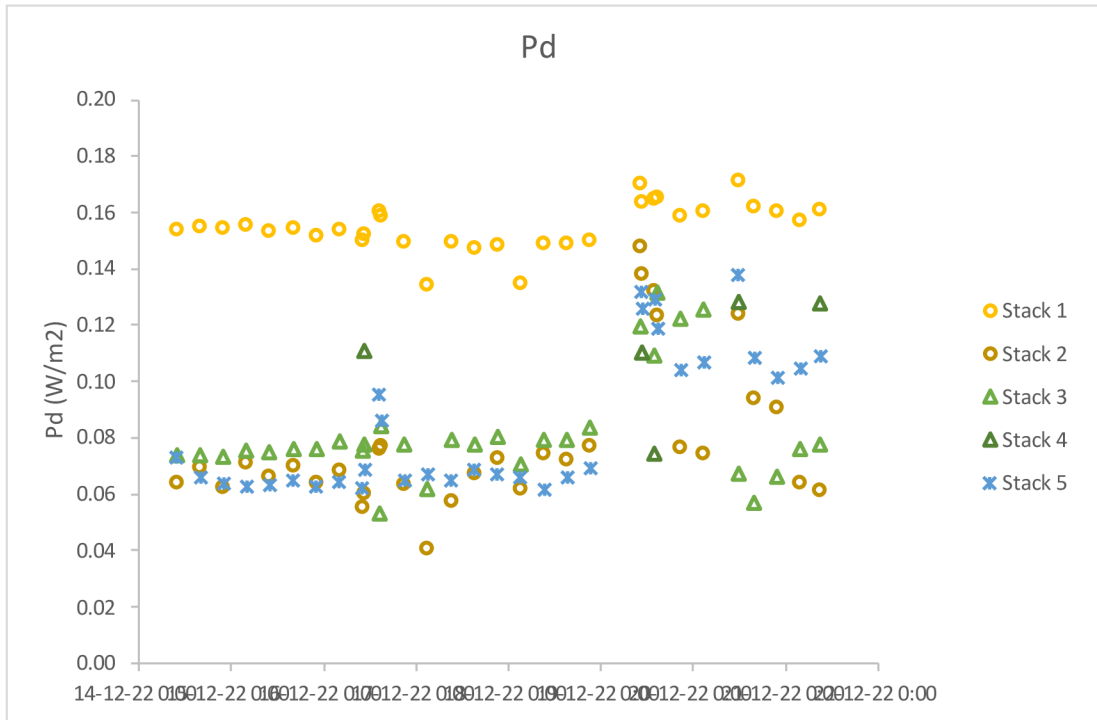
**Figure 40:** Particulate matter size of treated & untreated salt water samples collected on 28.09.2022



**Figure 41:** Power potential from stacks measured on (Iviumstat, Ivium Technologies, Netherlands) Stack 1 & 2 received sand filtered water at high velocity, Stack 3 & 4 received AFM filtered water at high velocity, and Stack 5 received sand filtered water at low velocity.



**Figure 42:** Total resistance in stacks measured on (Iviumstat, Ivium Technologies, Netherlands) Stack 1 & 2 received sand filtered water at high velocity, Stack 3 & 4 received AFM filtered water at high velocity, and Stack 5 received sand filtered water at low velocity.



**Figure 43:** Power density from Stack 1 & 2 which received sand filtered water at high velocity, Stack 3 & 4 which received AFM filtered water at high velocity, and Stack 5 which received sand filtered water at low velocity.