



The wastewater generated from the backwashing of membrane filtration shall contain no more than 150 mg/L of suspended solids (TSS). None of the other water quality parameters are significant enough to be noted in the backwash water quality. The TSS values are estimated based upon the raw water quality and backwash frequency. It is understood that analytical tests on the water samples could be provided once the system is in operation to get more accurate results. Samples from backwash can be taken and measured initially weekly; followed by monthly and then annually in order to confirm the discharged water quality and negligible impact on land.

It is expected that the water treatment plant shall have negligible impact due to backwash water disposal and thus can be safely disposed onto nearby land without any environmental issues. It is to be noted that earlier 5 similar plants (using same technology) were commissioned at Trout Lake, Lutsel K'e, Jean Marie River, Wrigley and Food Good Hope (all in Northwest Territories). These plants are currently operating and discharging backwash water to the environment with little to no impact and are meeting regulations.

A handwritten signature in blue ink that reads "Kaushik Biswas".

KAUSHIK BISWAS, PHD, P.ENG.
SENIOR ENGINEER - WATER/WASTEWATER
AWC WATER SOLUTIONS LTD.
P 604 638 0760 ext 529
C 604 363 4967