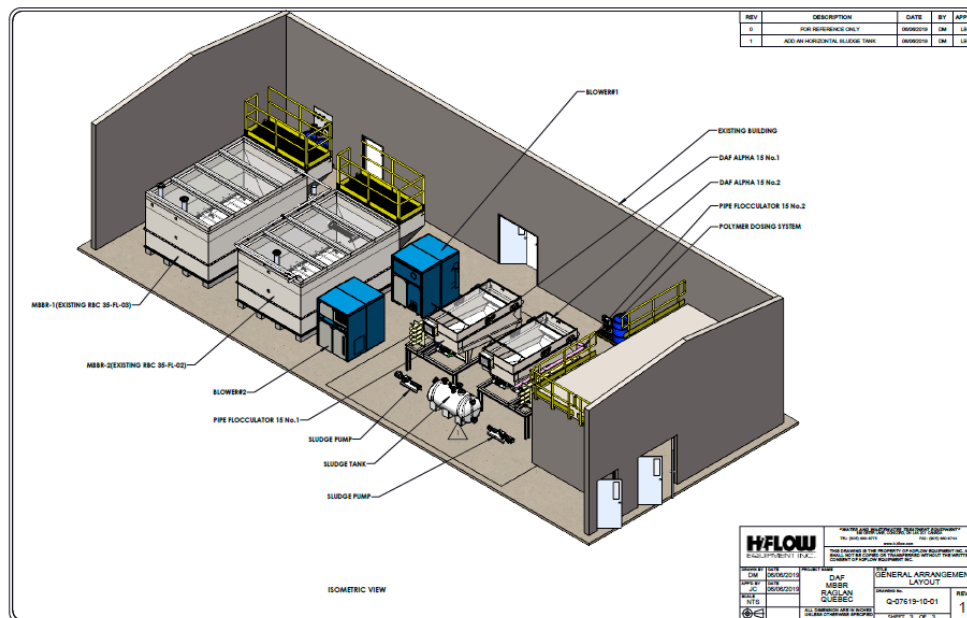


Organics Removal, Nitrification and Secondary Clarification



Case Study Details

H2Flow supplied a system to treat the process wastewater of a mining company in Nunavik, Canada.

The scope of supply included a grease and sand trap, as well as the complete refurbishment of an existing rotating biological contactor (RBC) system with a moving bed biofilm reactor for organic removal and nitrification, followed by secondary clarification by dissolved air flotation (DAF) technology.

The grease and sand trap system included a 1,000-gallon triple-basin grease interceptor, based on a 390 m³/day design flowrate.

The MBBR system was designed based on a 323 m³/day flowrate. The MBBR system consisted of two moving bed biofilm reactors in series. Each reactor was filled with BWT-15 carrier media of 828 m²/m³ protected surface area. Two PD blower packages were also provided.

The clarifier system components consisted of two DAF ALPHA 15 units and two pipe flocculator (PF 15) units, each with an average design flowrate of 15 m³/hr.