

Gold Mining Facility



Case Study Details

H2Flow was contracted by a gold mining client located in Suriname for the supply and design of several stages of their effluent treatment system. It included jet mixing, denitrification / aeration based on moving bed bioreactor technology (MBBR) in concrete tanks utilizing media from Biowater. The treatment reduces copper-cyanide complexes, heavy metals in solutions and nitrates by biological treatment. The project was completed in March of 2017.

Design Parameters	Influent	Effluent
Flowrate	1,200 m ³ /hr	1,200 m ³ /hr
Peak Instantaneous Flowrate	1,800 m ³ /hr	1,800 m ³ /hr
Nitrate-N (NO ₃ -N)	30 mg/L (864 kg/day)	< 10 mg/L
Wastewater Temperature	25°C	5°C
Site Elevation of WWT System	80 m AMSL	0 m AMSL