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Gryaab improves the reduction of nitrogen at Ryaverket in Gothenburg, Sweden, with biofilm technology from AnoxKaldnes.

AnoxKaldnes AB in Lund has acquired one of its largest contracts to date. The contract, worth 20 million SEK (2.7 million USD), includes the delivery of carrier material to Ryaverket in Gothenburg, Sweden.

Gryaab's wastewater treatment plant Ryaverket in Gothenburg has difficulties meeting its discharge limit for nitrogen. Gryaab's board of directors made the decision in the 8th of June to extend the treatment plant. The goal is to decrease the discharge of nitrogen from 10 – 12 mg/l to values below 10 mg/l. Gryaab is the company responsible for the treatment of wastewater in the region of Gothenburg and is owned in common by the Gothenburg municipality and the municipalities surrounding Gothenburg. More information about Gryaab's investment for an improved coastal environment can be found at www.gryaab.se.

Gryaab is treating the highest inflow of wastewater within the Nordic countries and this is accomplished on a very limited surface. The company is therefore forced to find very efficient and compact solutions to clean this wastewater. AnoxKaldnes are pleased that Gryaab, known to be in the technology forefront, chose a process solution based on Kaldnes Moving Bed™ biofilm technology.

The construction of the new basins that will improve the nitrogen reduction at Ryaverket started 2nd October. The new basins will be half filled with suspended carrier material from AnoxKaldnes. Bacteria grown on the carriers transform the dissolved nitrogen in the wastewater into nitrogen gas, which is released into the air that already contains around 80% of nitrogen gas. This extension of the plant will lead to decreased release of nitrogen to Västerhavet. The reason for the harsh nitrogen limits is that nitrogen causes eutrophication in the sea.

AnoxKaldnes is an independent developer and global provider of leading edge technology for biological treatment of industrial and municipal wastewater. For more information about AnoxKaldnes products and services visit us at www.anoxkaldnes.com