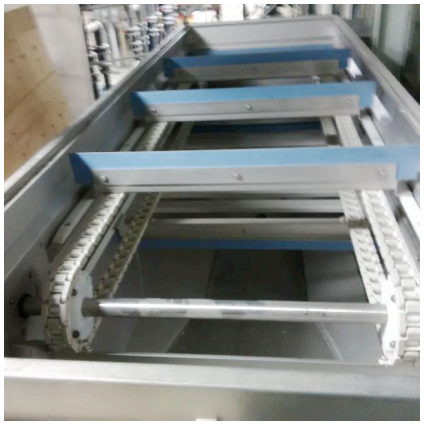
H2FLOW EQUIPMENT INC.

RPM Wastewater Treatment System

RPM Beauceville, Quebec

Wastewater Treatment System for Plastics Recycling Plant

Dissolved Air Floatation units



Case Study Details

Located in the picturesque town of Beauceville, Quebec, RPM is one of Canada's largest plastics recycling plant with an annual production capacity of over 65 million kilograms of recycled plastics**.**

Each month, RPM granulates millions of kilograms of resins, including HDPE, LDPE, PVC, PP and PS. Their range of granulators and shredders make it possible to process a wide variety of items. Blends are made from recycled post-industrial, post-consumer or virgin resin. They are suitable for use in extrusion, injection, rotomolding and thermo forming applications. During this process plastic is melted, homogenized and filtered to produce high-quality pellets.

RPM has designed and developed its own system for washing plastics – a highly effective process that enables them to remove impurities from dirty recyclables. The washwater process from the the plastics required wastewater treatment, and H2flow was contacted to provide a full system.

H2Fow's technical experts addressed all the challenges associated with this project to offer a complete solution for RPM's wastewater. The H2FLOW system utilizes Dissolved Air Floatation and a Biowater CMFF® two stage Moving Bed BioReactor technology for an easy to operate solution to the wastewater issue, producing high quality effluent.

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The key drivers for selection of the best available treatment technology were ease of operation, space saving, ability to produce consistent effluent quality suitable for municipal discharge, low operational and life cycle costs. The new treatment plant was also designed to handle not only high strength wastewater, but also large variations in flows and loadings due to the various types of washwater coming from the plastics recycling with minimal operator attention.

BIOWATER CMFF Bioreactor Units and Blowers

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