



focus: RESEARCH & DEVELOPMENT



The Green Turtle research advantage

In the wastewater pre-treatment market, Green Turtle™ stands out from the competition as a recognized research leader.

It's what separates Green Turtle from plumbing fixture and commodity tank companies whose products were first conceptualized and designed more than half a century ago.

Green Turtle products such as Proceptor™ separators are designed, developed and rigorously tested at their Research and Development Center and water analysis lab in Toronto, Ontario. This facility performs tests from the bench top to full-scale commercial products and designs full-scale prototypes. And all analytical work done in the water analysis lab is performed quickly and efficiently, following the Standard Methods for Examination of Water and Wastewater, backed by the APHA, AWWA and WEF.

Accurately predicting capabilities

The R&D Center conducts market-driven applied research by a team of accomplished and experienced researchers who specialize in a broad range of scientific fields such as:

- Water and wastewater treatment
- Environmental engineering
- Hydraulics and fluid mechanics
- Materials science
- Applied and organic chemistry
- Physics

Together, they meticulously test our products by monitoring effluent quality with varying flow rates, concentrations of oil and solids, and temperatures, with the goal of providing you with the best product for your individual site conditions. Or, specific site conditions can be re-created to ensure your Proceptor operates at peak performance.

Improving current products while exploring new technologies

In addition to the rigorous testing of current products, Green Turtle is also investigating new products and technologies to benefit our customers. Some of the projects currently being explored include:

- Biological Oxygen Demand (BOD) reduction technology
- Ultrasonic technology for the measurement of solids, oil/grease levels in wastewater
- pH neutralization for industrial and institutional wastewater applications

Looking beyond our doors

Researchers at Green Turtle understand new wastewater pre-treatment technologies are constantly being invented – and that not all of these discoveries will take place within our laboratory.

Strategic partnerships with leading universities and research facilities throughout North America generate an ongoing exchange of knowledge and ideas to enhance Green Turtle's product development.

The research center also has the resources to verify the performance claims of other products to ensure validity and accuracy, giving Green Turtle the opportunity to assess upcoming industry trends and combine elements of new technology with its own.

Support beyond installation

Green Turtle is proud of each of its products and confident each Proceptor will meet your wastewater treatment needs. That's why each unit is backed by an industry-leading warranty. However, site conditions can be unpredictable or can change over time. If you have a question about Proceptor operation or effluent quality, Green Turtle has the staff and resources to assess the situation and address your questions.

Green Turtle staff can inspect the unit, conduct tests on its efficiency and collect effluent samples for analysis. Green Turtle will also review a customer's kitchen or business best management practices to identify unnecessary fat, oil and grease loading on the Proceptor.

With ongoing research to enhance current products and explore future technologies, and with ongoing support to ensure your interceptor or separator operates at peak performance, Green Turtle offers unparalleled value in the wastewater pre-treatment industry.