



Wastewater Treatment Plant Information Sheet

Valard is seeking approval from the Ministry of the Environment, Conservation and Parks (MECP) to install mobile sewage treatment plants at the camp locations.

Mobile sewage treatment plants are designed for efficiency and mobility when installed in remote areas. Each design is site specific, based on the size of the camp, soil conditions and other design factors.

Systems will meet all relevant design codes and regulations, industry standards and accepted practices. The system will be maintained in good working order by trained personnel and experienced in the operation of wastewater treatment plants.

The treatment system consists of 2 parts:

- Container #1 – Pre-Treatment Unit
- Container #2 – Reactor Unit

Both containers have the dimensions – 8' x 9.5' x 40' long and are fully insulated.

The treatment plant is designed to treat a daily average of 22,730 litres.

Treatment Process

The wastewater flows through four stages in Container #1 and two stages in Container #2. Raw wastewater is pumped from a collections tank or pump station into the first of two Trash Tanks in Container #1. Wastewater then flows into the Aeration Chamber, from there to the Settling Chamber and last the Flow Equalizer Tank. Wastewater is then pumped to Container #2.

In Container #2, the wastewater passes by gravity through four reaction chambers to increase the stability of the treatment process. Each chamber also has a clarifying zone after each stage of the aeration process.

Wastewater lastly flows through two sets of UV lights before final discharge. Treated wastewater then leaves the treatment plant and is transferred to a subsurface septic bed which is specifically designed to the conditions of the Camp site. Where soil conditions are not favorable for a septic bed, waste water will be collected and hauled off-site to a treatment facility.

TYPICAL MOBILE TREATMENT SYSTEM (CANWEST TANKS & ECOLOGICAL SYSTEMS LTD.)



End View of Container

Container Side View

Systems may vary in size

For more information:

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