

## Lagoon Discharge Flow Monitoring

### ***Open Channel Flow Monitoring without a Flume or Weir***



The Township of South Glengarry in Eastern Ontario discharges continuously from their 72,000 m<sup>3</sup> sewage lagoon. But they ran into flow measurement problems when their magnetic flowmeter was unable to detect seasonal low flow rates.



**Area-Velocity Flow Sensor**

Operations Manager, Shawn Killoran selected a Greyline AVFM 5.0 Area-Velocity Flow Monitor because it was simple to install in a horizontal discharge pipe from the lagoon and because it could accurately detect and monitor the full range of flow rates up to 3,800 m<sup>3</sup>/D.

Township operators liked the Greyline AVFM 5.0 datalogger reporting system where formatted flow reports (total, minimum, maximum and average) could be downloaded automatically to a USB memory stick without carrying a laptop to the site.



The AVFM 5.0 flowmeter electronics were AC-powered and installed in an insulated shed along with a sampler.



The sealed ultrasonic flow sensor was mounted through a tee section at the invert of the 12" PVC horizontal pipe and connected to the flowmeter electronics through a watertight cable. A stainless steel bracket was screwed into the pipe to secure the sensor in place.

After several months of operation, no algae, sediment or weed build-up was observed on the sensor. But the mounting location was fitted with a removable cover to allow periodic cleaning if required.

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