

# WESTEND REGIONAL SEWAGE SERVICES COMMISSION LAGOON UPGRADE

In 2010, the Westend Regional Sewage Services Commission identified the need to upgrade the existing wastewater system to meet the needs of future community growth and address future regulatory and environmental requirements. This started the process of assessing the system to determine the community's future needs and is ending with the facility that has now been constructed.

The Commission's Lagoon Upgrade project addresses critical infrastructure that is integral to municipal and regional growth and development, and, in addition, reduces the environmental impact to the Sheep River through effluent release.

**Grant Funding from the Province of Alberta through the Alberta Municipal Water/Wastewater Partnership (AMWWP) and the Federal Government through the Investing in Canada Infrastructure Program (ICIP) has made this upgrade project possible.**



The original wastewater system, consisting of an aerated lagoon, has been upgraded to meet new regulatory requirements for Ammonia, Phosphorus and Coliform removal while also planning for future growth and redundancy. The system upgrades/additions include the following:

- ✓ Replacement of aging infrastructure, including the lagoon aeration system and transfer lift station
- ✓ Addition of a SAGR (Submerged Aerated Gravel Filter) system for Ammonia removal
- ✓ Addition of a Tertiary Facility for:
  - Phosphorus removal (disk filter and chemical injection)
  - Coliform removal (UV system)
- ✓ Addition of a backup power generator
- ✓ Addition of a Diffuser in the Sheep River (facilitates mixing of treated effluent in the river)