



## CHESTERMERE LIFT STATIONS

Lift Stations are used for pumping wastewater, or sewage, from lower to higher elevations. Since Chestermere is very flat, the elevation is not sufficient for sewage to flow by gravity to its end destination – the wastewater treatment plant in the City of Calgary.



The key parts of a lift station are:

- Incoming pipe (receives flow by gravity);
- Solids grinder or macerator (to remove coarse materials);
- Mixer;
- Wet well (for storage of waste water);
- Submersible pumps;
- Discharge pipe (forcemain);
- Hydrogen sulfide control system;
- Flow meter;
- Gas detection system;
- Hoist for pump retrieval;
- Power supply system;
- Main electrical panels and the control system.

With the completion of Lift Station 13, Chestermere now has 14 lift stations which is adequate to manage a flow threshold of approximately 290 liters / second (appropriate for an estimated total population of 30,000).



## How A Lift Station Works

Wastewater is collected from homes and commercial buildings throughout Chestermere via a series of underground pipes. This wastewater, or sewage, eventually flows to a lift station by gravity, where it is pumped from the lift station to a higher elevation, and eventually from the last lift station to the City of Calgary for treatment at their wastewater treatment plant

At the lift station, wastewater enters the wet well and fills to a point where the submersible pump turns on. The pumps reduce the level of the wastewater in the well to a pre-set level. Then the pumps turn off. This process continues around the clock. The pumps operate more during peak flow periods and less during low flow periods such as overnight.

Chestermere's lift stations are remotely monitored at a control centre, 24 hours a day, 7 days a week. Certified operators perform routine inspection and maintenance activities during normal working hours. Our highly-trained operators are also on-call around-the-clock to respond to emergencies.

Each lift station is designed to effectively manage noise from operations, keeping sound levels very low such that you cannot hear anything exterior to the building. The facilities are also equipped with HVAC systems that minimize the smell of wastewater outside the wet well.

## About CUI

Chestermere Utilities Incorporated (CUI) is a wholly-owned subsidiary of the City of Chestermere providing safe and efficient water, wastewater, storm water, solid waste and recycling services to residents and businesses located in Chestermere, Alberta. The utility was established as a standalone corporation in 2012.

## Contact Us

CUI is committed to operating with openness and transparency. We want our customers to be informed of our services and up-to-date with the latest on what's going on at CUI. Additional information about our services is available at [www.cuinc.ca](http://www.cuinc.ca).

We always welcome questions and feedback and invite you to connect with us via email, by phone, or in-person at our office.

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