

Summer Village of Grandview

Selection and installation of a Wastewater Holding Tank

General Guidelines

The Summer Village of Grandview is currently finalizing the design for a low pressure effluent wastewater system. This system will have a pump in each holding tank which will pump effluent into the collection line.

The requirements for a new installation of a wastewater holding tank must consider the following:

- The holding tank must have two chambers
- Each chamber must be accessible through a separate riser. This is necessary because a pump assembly must be installed into the second chamber. Single riser, two chamber tanks do not provide sufficient clearance for the installation of the pump and pump assembly.
- The minimum size of the holding tank is 1200 gal.
- The location of the tank should be placed in a location with consideration of a future connection to the collection line adjacent to the road. Exact placement should be discussed with the development officer.
- Specific details for interior and exterior plumbing of new tanks and for electrical requirements are currently being prepared. Discuss these details with the Development Officer prior to ordering a new tank.

Regulatory Requirements for Wastewater Holding Tanks

Note: this is not a complete list of the regulator requirements. Please refer to the referenced Standard of Practice and the Municipal Land Use Bylaw.

The installation of a wastewater holding tank requires that:

- A development permit must be obtained from the Summer Village.
- The installation must be made in accordance with the latest edition of the *Alberta Private Sewage Systems Standard of Practice*.
- The installation must be made by a certified installer who has a PSDE ticket. The Village Office or the Municipal Affairs web site can supply a list of certified installers.

- Holding tanks shall be designated and manufactured in accordance with the CSA B66-10 Standard and shall be certified by an accredited testing agency.
- Consideration must be given to the buoyant forces associated with high water tables when choosing the holding tank material. Most residents use concrete tanks.
- All greywater must be plumbed to the holding tank.
- Holding tanks with less than 1.2 m of earth cover must be insulated. Consult the development officer for details.
- All tank access openings shall be equipped with a secure lid or cover to increase safety and prevent accidental entry. All manholes access openings shall be insulated to the required specification.
- Above grade tank access openings shall be located at a height above the surrounding landscape that ensures surface water will drain away from the access openings.
- Where high groundwater conditions are identified, special considerations must be given to anti-flotation measures and additional hydraulic stresses.
- The completed new installation must be inspected by a Safety Codes Officer.
- Deep buried tanks installed to accommodate basement plumbing are not recommended; rather it is suggested to use a separate grinder pump and pump vault to pump waste to a shallower tank installation. This reduces the risk of tank failure because of high stress loads.
- The Standard of Practice requires that holding tanks shall not be located within:
 - o 10 m (33 feet) from a water source;
 - o 10 m (33 feet) from a water course;
 - o 1 m (3.25 feet) from a property line however 3 m is preferred for maintenance and upgrading;
 - o 1 m (3.25 feet) from a building however 3 m is preferred for maintenance and upgrading.

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