

Renfrew County and District Health Unit

What You Should Know About Flooded Septic Systems

A well-maintained and constructed septic system will better withstand the stresses of heavy rains or flooding. Regular inspection is necessary to ensure proper functioning.

During heavy rains and floods, the ground can become saturated, preventing proper operation of the system. For example, a septic tank can collapse or float out of position. Signs that a septic system is not working properly include the following:

- Sinks drain slowly
- Toilets drain slowly
- Floor drains overflow
- Sewage becomes visible outside the home especially over the top of the septic system



Before a Flood:

To prepare your septic system before an emergency such as a flood, hurricane, or earthquake:

- Seal the access holes and/or inspection ports to keep excess water out of the septic tank
- Be sure your septic tank is at least half full to prevent it from collapsing or floating
- If your septic system requires electricity:
 - Turn off the pump at the circuit box before the area floods
 - Waterproof all electrical connections to avoid electrical shock or damage to wiring, pumps, and the electrical system

During a Flood:

During an emergency such as a flood, reduce the amount of water used by limiting toilet flushing, dishwashing, washing clothes, and showering.

Severe flooding can put drinking water wells at increased risk for contamination from flood water that may contain sewage. If your water well is submerged by flood water or you detect a noticeable change in the water's taste and appearance, then the well water should be boiled for at least one minute before using.

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After a Flood:

CAUTION: If your well was under water, do not drink well water until you know it is safe. Use a safe water supply like bottled or municipally-treated water, or boiled water. Be aware that flood water may contain sewage.

If sewage has backed up into the basement, clean the area and disinfect surfaces in contact with flood water. Use a chlorine solution of a half cup of chlorine bleach to four liters of water to disinfect the area thoroughly. Upholstery and hard-to-clean surfaces cannot be disinfected adequately and should be discarded or disinfected by a professional.

Precautions related to septic systems during and after a flood include:

- Avoid contact with any septic system electrical devices until they are dry, clean and inspected for damage.
- During flooded conditions, do not pump out the septic tank more than halfway or the tank may float out of the ground and damage the inlet and outlet fittings.
- Septic tanks must only be pumped out by a licensed sewage hauler. Wastes cannot be discharged onto the surface of the ground or into watercourses.
- Pump the septic tank as soon as possible after the flood. Be sure to pump both the tank and pump chamber if applicable. This will remove silt and debris that may have washed into the system. Reduce all nonessential water use (for example, dishwashing, washing clothes, showering) until flood water has disappeared over the sewage bed.
- Flush toilets as little as possible or use a temporary toilet during a flood. Only begin re-using the septic system when flood waters have receded below the level of the leaching bed.
- Inspect the access covers to the septic tank to make sure they are not loose or damaged. Have your septic tank professionally inspected and serviced if you suspect damage. Signs of damage include settling or an inability to accept water.
- Check the vegetation over your septic system. Repair erosion damage and sod or reseed areas as necessary to provide turf grass cover.
- Do not compact the soil over the soil absorption field by driving or operating equipment in the area. Saturated soil is especially susceptible to compaction, which can reduce the soil absorption field's ability to treat waste water and lead to system failure.

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7 International Drive

Pembroke, ON, K8A 6W5

613-735-8666 or 1-800-267-1097, Ext. 666