

EPB 410- Installation of New Drinking Water and Sewage Works Technology in Saskatchewan

The Water Security Agency (WSA) encourages municipalities, systems owners and other interested parties to look for innovative ways to meet provincial drinking water and wastewater standards and requirements.

The WSA considers two options when evaluating drinking water and wastewater projects involving technologies that are new or un-proven in Saskatchewan:

1. Approval by Regulatory History

In this case, the interested parties must show that the new or unproven technology has a track record of approval by other municipal regulatory agencies. In this case, the WSA looks for:

- proof that the new or unproven technology has a track record of approval by other regulatory agencies and a history of successful operation, including but not limited to technical performance and operation under climatic conditions similar to Saskatchewan's; and
- a statement stamped by a Professional Engineer, licensed to practice in Saskatchewan, that the new technology meets all provincial standards, guidelines or requirements for performance and quality as a means to protect public health and the environment.

2. Approval by Verification or Certification

For this option, verification or certification by a third-party evaluation agency is required. The evaluation agency could be the Environmental Technology Verification Program (ETV), the National Sanitation Foundation (NSF), or a similar agency. Information for these agencies can be found online at <http://www.etvcanada.ca/> or <http://www.nsf.org/consumer-resources>. The WSA does not endorse any specific evaluation agency.

For this option, the WSA also requires a statement stamped by a Professional Engineer, licensed to practice in Saskatchewan, that the new technology meets all provincial standards, guidelines or requirements for performance and quality as a means to protect public health and the environment.

For Approval of Pilot Plants

Pilot plants or small-scale plants are commonly used to demonstrate new technology. Until the full performance of pilot plants can be assured, installation at drinking water or wastewater treatment facilities may represent a threat to health or environmental quality, therefore it is important that these are not installed unless approved by the WSA. For pilot plants and applications, all technical information submitted to the WSA must be reviewed and stamped by a Professional Engineer, licensed to practice in Saskatchewan, and include a statement that the new technology will not negatively impact public health and environmental quality.

The WSA will review these applications and issue a Permit for Construction of Waterworks or Sewage Works once provincial requirements are met. The issued permit contains conditions of the construction and helps to protect public health and the environment. For more information on provincial approval of new drinking water and wastewater technology, or information on how to conduct a pilot plant, contact one of the WSA's Approvals Engineers at (306) 787-6517.