

How to use this figure:

Unless proper care is taken, point sources which may potentially contaminate groundwater include: waste disposal sites; chemical or fuel storage sites; sewage lagoons; oil or gas pipelines; oil, gas, or water wells; feedlots; accidental spill sites along roads, in farmyards, etc. Since the Grimshaw Aquifer is predominantly an unconfined aquifer, it is vulnerable to contamination from these sources. The locations and types of some of the more prominent types of potential point contamination sources are shown on the adjacent figure. To give a preliminary indication of the level of protection against groundwater contamination, these potential contamination sources are shown along with the preliminary clay cover map. Additional field investigations and analysis, under the direction of a professional hydrogeologist, would be required to evaluate the contamination risk at any specific existing or proposed site.

This site is inactive as a modified landfill. It is still being used to store dry waste such as brush, car bodies, old appliances, building site waste, etc.

Data used to prepare figure

This figure was prepared from known potential source of contamination identified by Cowan (1994). The following sources were used to verify and add information in February 1998.

- Fuel Tanks – Petroleum Tank Management Association of Alberta
 - Tank Management Systems.
- Gravel Pits – Alberta Environmental Protection
 - Environmental Management System.
 - Land Status Automated System
- Landfills – Air Photo – review
- Landfills – Peace Health Region

LEGEND

- Approximate extent of Grimshaw Gravels Aquifer
 - Sewage lagoon
 - 1 – 4 fuel storage tanks
 - 5 – 53 fuel storage tanks
 - ▼ Gravel pit
 - ▲ Inactive landfill
 - ◆ Active landfill
 - ⊕ Groundwater pesticide analysis site
 - Areas vulnerable to contamination: extent of clay cover less than or equal to 4 metres
 - Contour showing depth to clay cover (metres)
 - Primary and Secondary Paved Roads
 - Northwestern Utilities Limited 3" and 4" diameter natural gas pipeline
 - Gas Pipeline – NOVA Gas Transmission Ltd. transports sweet natural gas. Sweet refers to gas that contains no water, hydrogen sulfide, or hydrocarbon liquids.
- Note: Fuel storage tanks on farms, for individual farm use and at isolated construction projects, are not required to be registered.



GRIMSHAW GRAVELS AQUIFER		
POTENTIAL POINT SOURCES OF CONTAMINATION		
Scale AS SHOWN	Date Updated – July, 1996 March, 1998	FIGURE B12

