





Consequence	
Description	
Insignificant	
Minor impact on a household (e.g. one person with upset stomach)	
Moderate impact on a household or minor impact on the community	
Major impact on a household or moderate impact on the community	
Catastrophic impact on the community (e.g. death)	























## Common on-site wastewater treatment system failures (US EPA, 2002)

Type of Failure	Evidence of Failure
Hydraulic Failure	Untreated or partially treated sewage pooling on ground surfaces, sewage backup in plumbing fixtures, sewage breakouts on hill slopes
Pollutant contamination of groundwater	High nitrate levels in drinking water wells; taste or odour problems in well water caused by untreated, poorly treated, or partially treated wastewater; presence of well water
Microbial contamination of ground and surface water	Shellfish bed bacterial contamination, recreational beach closures due to high bacterial levels, contamination of drinking water wells with faecal bacteria or other faecal indicators
Nutrient contamination of surface water	Algal blooms, high aquatic plant productivity, low dissolved oxygen concentrations
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## **On-site System Failure**

How significant is failure?

To determine this, we need to consider:

- The consequence of failure (public health, environmental and socio-economic impacts);
- The likelihood that consequences will manifest themselves.

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## **On-site System Failure**

- Should failure be risk-based?
- Do you assign a risk category to OSM on the basis of the hazards associated with that system, and audit those with the highest risk?
- What are the benefits of this approach?