

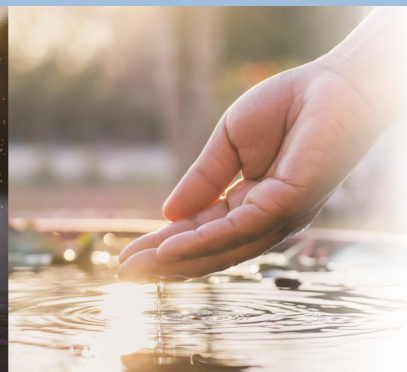
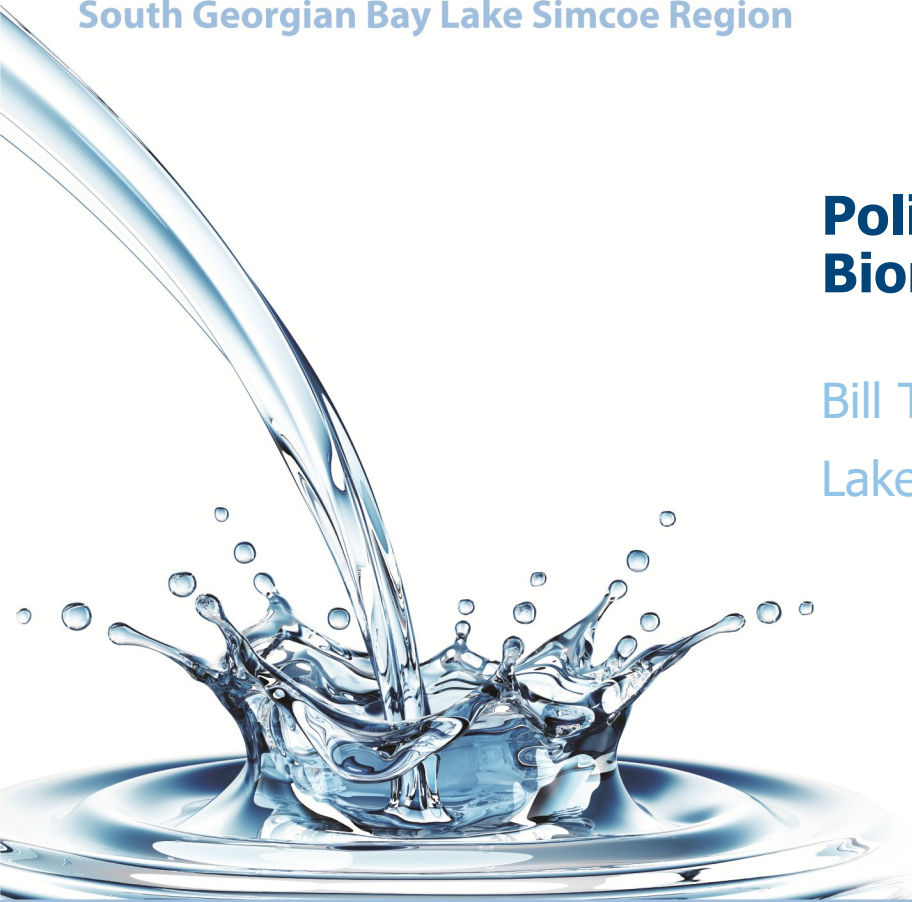
Source Water Protection

South Georgian Bay Lake Simcoe Region

Policies for the Storage of Waste Biomass

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Water
is **life.**
Protect
Yours.

Feedback on draft amendment was of 5 types

1. Typographic
2. Mapping
3. Threats enumeration
4. Status of Issues
- 5. Policy conformity**



Policy conformity

- The plan amendment includes bringing our policies into conformity with Province's revised Technical Rules
- Technical Rule changes included introduction of some new threat sub-categories
- One was overlooked: the storage of waste biomass

What is waste biomass (O. Reg. 347)

“waste biomass” means organic matter that is derived from a plant or animal, that is available on a renewable basis and that is,

- a) waste from harvesting or processing agricultural products or forestry products,
- b) waste resulting from the rendering of animals or animal by-products,
- c) solid or liquid material that results from the treatment of wastewater generated by a manufacturer of pulp, paper, recycled paper or paper products, including corrugated cardboard,
- d) waste from food processing and preparation operations, or
- e) woodwaste;

Comparison

- **Processed organic waste** means waste that is predominantly organic in composition and has been treated by aerobic or anaerobic digestion, or other means of stabilization, and includes sewage residue from sewage works
- **Non-agricultural source materials** means any of the following materials (other than compost), if the materials are intended to be applied to land as nutrients:
 1. Pulp and paper biosolids.
 2. Sewage biosolids.
 3. Anaerobic digestion output
 4. Any other material,
 - i. that is not from an agricultural source and that is capable of being applied to land as a nutrient, and
 - ii. that is not an agricultural source material; (“matières de source non agricole”, “MSNA”)

What is waste biomass (in practice)

- By-products or waste products of manufacturing processes
- Managed (already) through an Environmental Compliance Approval
- If stored in a vulnerable area, now potentially a significant drinking water threat

What are the circumstances

Circumstances	WHPA: Vulnerability Score for Above Grade Storage	WHPA: Vulnerability Score for Partially Below Grade Storage	WHPA: Vulnerability Score for Below Grade Storage	IPZ/WHPA-E: Vulnerability Score for Above Grade Storage	IPZ/WHPA-E: Vulnerability Score for Partially Below Grade Storage	IPZ/WHPA-E: Vulnerability Score for Below Grade Storage
< 0.5 tonnes	N/A	N/A	N/A	N/A	N/A	N/A
0.5-5 tonnes	N/A	10	10	10	10	N/A
> 5 tonnes	10	10	10	9-10	9-10	N/A
Pathogens (any amount)	WHPA-A/B 10	WHPA-A/B 10	WHPA-A/B 10	8-10	8-10	10

Recommended policy approach

Treat the storage of waste biomass as we do the storage of processed organic waste and non-agricultural source material:

- The existing and future handling and storage of processed organic waste or waste biomass is prohibited within WHPA-A and IPZ-1 where the activity is or would be a significant drinking water threat.
- Where the handling and storage of processed organic waste or waste biomass is a significant drinking water threat MECP shall ensure that the Environmental Compliance Approval prohibits its handling and storage ~~of processed organic waste~~ within a WHPA-A and IPZ-1, and includes appropriate terms and conditions to ensure the activity ceases to be a significant drinking water threat outside of WHPA-A/IPZ-1. The Environmental Compliance Approval shall also list the relevant Drinking Water System and activity(ies) which is a significant drinking water threat

However ...

- Waste biomass includes some material that may be lower risk:
 - waste from harvesting or processing agricultural products or forestry products,
 - Woodwaste
- Nitrogen might be released to the environment slowly
- Prohibiting all waste biomass in WHPA-A / IPZ-1 might be heavy handed

Alternative policy wording

Focus greatest restriction on pathogens:

- The existing and future handling and storage of processed organic waste or waste biomass where it might be a source of pathogens is prohibited within WHPA-A and IPZ-1 where the activity is or would be a significant drinking water threat.
- Where the existing and future handling and storage of waste biomass, which is not a source of pathogens, within the WHPA-A and IPZ-1 is a significant drinking water threat MECP shall ensure the Environmental Compliance Approval includes appropriate terms and conditions to ensure the activity ceases to be ...
- Where the handling and storage of processed organic waste or waste biomass where it might be a source of pathogens is a significant drinking water threat MECP shall ensure that the Environmental Compliance Approval prohibits its handling and storage of ~~processed organic waste~~ within a WHPA-A and IPZ-1, and includes appropriate terms and conditions to ensure the activity ceases to be a significant drinking water threat outside of WHPA-A/IPZ-1. The Environmental Compliance Approval shall also list the relevant Drinking Water System and activity(ies) which is a significant drinking water threat

Thank you

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