

TRIECA | 2017 CONFERENCE

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Wildlife-Friendly Erosion & Sediment Control

A black bear is looking over a wire fence. The bear's head is in the center, with its eyes and nose visible. The background is a gravelly area with some sparse vegetation and trees in the distance.

Risa Olekshy
Environmental Impact Assessment Biologist
Manitoba Infrastructure

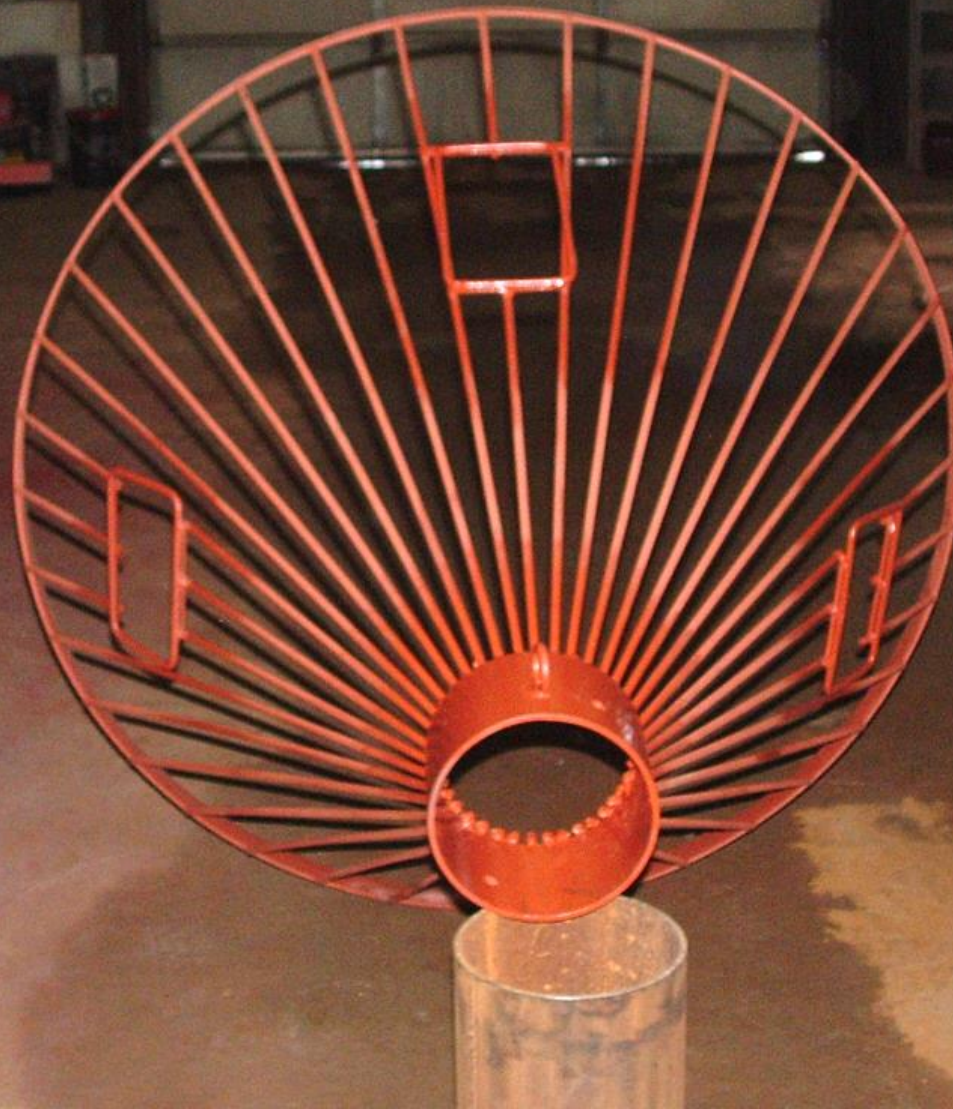
Beavers







Beaver Cones





Pond Levellers



- Keep water at desired level
- Inexpensive
- Ok for small fish (not big)
- Require maintenance



'Beaver Deceivers'



- 5-sided 'cage' with floor
- Allow most fish passage
- Still require maintenance
- Used around the world





‘Beaver Spurs’



100% Biodegradable Erosion Control Blanket



Polypropylene ECB



Juvenile Pike Trapped in Poly ECB



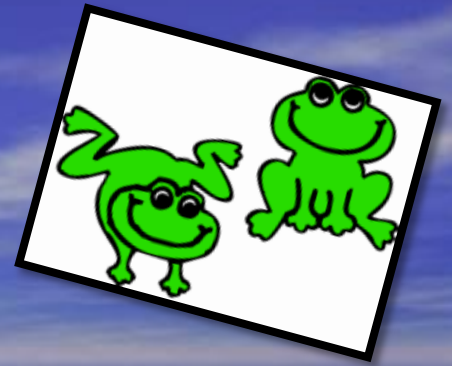
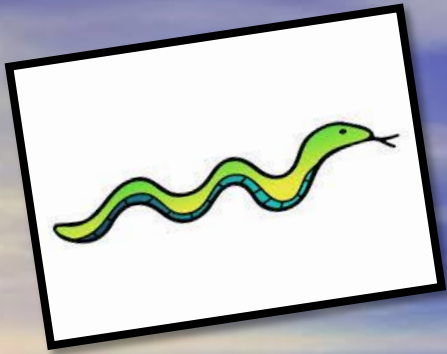
Garter Snake Trapped in Poly ECH



Biodegradable Erosion Control Blanket meets all Material Specifications for:

- ✓ Longevity
- ✓ Slope Gradient
- ✓ Permissible Shear Stress (Pa)
- ✓ Cover Factor





**Manitoba Infrastructure is the
1st Canadian DOT to mandate
100% Biodegradable ECB**





Alternatives To Silt Fence



Topsoil Berms





Culvert Outlet Pools



Culvert Outlet Pools

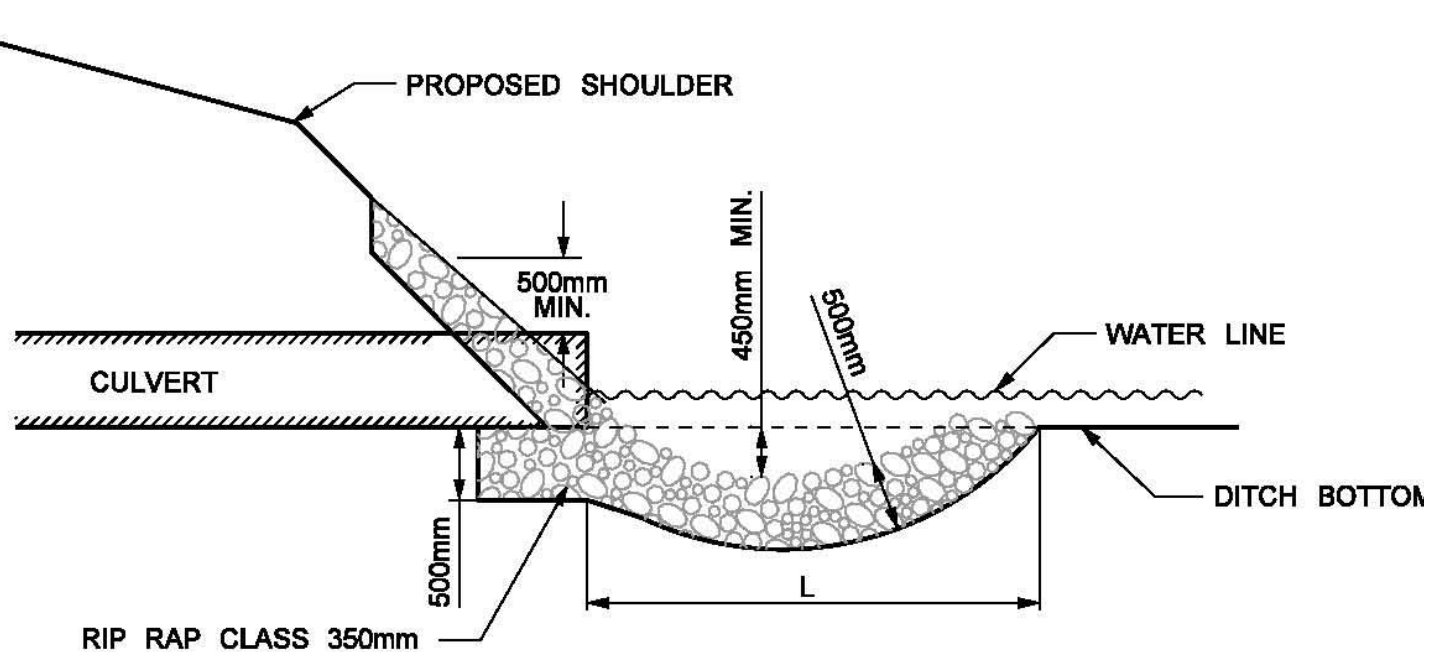


Culvert Outlet Habitat Pool



Culvert Pools

NOTE:
POOLS WILL BE CONSTRUCTED AT ALL SITES
AS DIRECTED BY ENGINEER.



If $D < 800\text{mm}$ $L = 4\text{m}$
If D is $800 - 1300\text{mm}$ $L = 6\text{m}$
If $D < 1300\text{mm}$ $L = 14\text{m}$

Provide Velocity Dissipation & Habitat



- ✓ Velocity dissipation
- ✓ Decreased maintenance
- ✓ Wildlife habitat



**Biodegradable
ECB**

**Reduce
silt fence
90%**

**Non-lethal
beaver
control**

**Culvert
habitat
pools**

**What's
next?**

Churchill

Questions?

