

MVLWB

Guide to the Land Use Permitting Process

June 1, 2013

Mackenzie Valley Land and Water Board
Gwich'in Land and Water Board
Sahtu Land and Water Board
Wek'èezhìi Land and Water Board



Mackenzie Valley Land and Water Board

Appendix B - Template for Environmental and Resource Impacts and Mitigation Measures Information

Proponents can use the following table to describe the effects of the proposed land use operation on land, water, flora, and fauna, as well as socio-economic impacts. This list is not all-inclusive, so if other impacts have been identified, proponents are encouraged to include them. Other sources of guidance to help identify potential impacts include the:

- Mackenzie Valley Environmental Impact Review Board's *Environmental Impact Assessment Guidelines* and *Socio-Economic Impact Assessment Guidelines*; and
- Yukon Environmental and Socio-economic Assessment Board's *Proponent's Guide to Project Proposal Submission to a Designated Office* (see sections 6.0 and 7.0).

Physical – Chemical Effects

IMPACT	MITIGATION
Ground Water	
<input type="checkbox"/> Water table alteration	
<input type="checkbox"/> Water quality changes	
<input type="checkbox"/> Infiltration changes	
<input type="checkbox"/> Other	
Surface Water	
<input type="checkbox"/> Flow or level changes	
<input type="checkbox"/> Water quality changes	
<input type="checkbox"/> Drainage pattern changes	
<input type="checkbox"/> Temperature	
<input type="checkbox"/> Wetland change/loss	
<input type="checkbox"/> Other	
Noise	
<input type="checkbox"/> Noise in/near water	
<input type="checkbox"/> Noise increase	
<input type="checkbox"/> Other	
Land	
<input type="checkbox"/> Geologic structure changes	
<input type="checkbox"/> Soil contamination	
<input type="checkbox"/> Buffer zone loss	

<input type="checkbox"/> Soil compaction and settling	
<input type="checkbox"/> Destabilization/erosion	
<input type="checkbox"/> Permafrost regime alteration	
<input type="checkbox"/> Explosives/scarring	
<input type="checkbox"/> Other (such as soil microbes)	
Non-renewable natural resources	
<input type="checkbox"/> Resource depletion	
<input type="checkbox"/> Other	
Air/climate/atmosphere	
<input type="checkbox"/> Other	

Biological Environment

IMPACT	MITIGATION
Vegetation	
<input type="checkbox"/> Species composition	
<input type="checkbox"/> Species introduction	
<input type="checkbox"/> Toxin/heavy accumulation	
<input type="checkbox"/> Other (such as species distribution, any rare species or species at risk, plant phenology, growth, and reproduction)	
Wildlife and fish	
<input type="checkbox"/> Effects on rare, threatened, or endangered species	
<input type="checkbox"/> Fish population changes	
<input type="checkbox"/> Waterfowl population changes	
<input type="checkbox"/> Breeding disturbance	
<input type="checkbox"/> Population reduction	
<input type="checkbox"/> Species diversity change	
<input type="checkbox"/> Health changes	
<input type="checkbox"/> Behavioural changes	
<input type="checkbox"/> Habitat changes/effects	
<input type="checkbox"/> Game species/effects	
<input type="checkbox"/> Toxins/heavy metals	
<input type="checkbox"/> Forestry changes	
<input type="checkbox"/> Agricultural changes	
<input type="checkbox"/> Other	

Interacting Environment

IMPACT	MITIGATION
Habitat and Communities	
<input type="checkbox"/> Predator-prey	
<input type="checkbox"/> Wildlife habitat/ecosystem composition changes	
<input type="checkbox"/> Reduction/removal of keystone or endangered species	
<input type="checkbox"/> Removal of wildlife corridor or buffer zone	
<input type="checkbox"/> Other	
Social and Economic	
<input type="checkbox"/> Planning/zoning changes or conflicts	
<input type="checkbox"/> Increase in urban facilities or services use	
<input type="checkbox"/> Rental house	
<input type="checkbox"/> Airport operations/capacity changes	
<input type="checkbox"/> Human health hazard	
<input type="checkbox"/> Impair the recreational use of water or aesthetic quality	
<input type="checkbox"/> Affect water use for other purposes	
<input type="checkbox"/> Affect other land use operations	
<input type="checkbox"/> Quality of life changes	
<input type="checkbox"/> Other	

Cultural and Heritage

IMPACT	MITIGATION
Habitat and Communities	
<input type="checkbox"/> Effects to historic property	
<input type="checkbox"/> Increased economic pressure on historic properties	
<input type="checkbox"/> Change to or loss of historic properties	
<input type="checkbox"/> Change to or loss of historic resources	
<input type="checkbox"/> Change to or loss of archaeological resources	
Social and Economic	
<input type="checkbox"/> Increased pressure on archaeological sites	
<input type="checkbox"/> Effects on Aboriginal lifestyle	
<input type="checkbox"/> Other	

The Mackenzie Valley Land and Water Board

www.mvlwb.com

Box 2130
7th Floor - 4922 48th Street
Yellowknife, NT X1A 2P6

Phone: (867) 669-0506

Fax: (867) 873-6610