

## Project 9 - Trading ports and also inland waterway traffic

Comments:

CATEGORY	FACTOR	COMMENTS
AIR	carbon dioxide (CO <sub>2</sub> )	greenhouse gas
	non-methane volatile organic compounds (NMVOC)	volatile, climate change, flora, human health, aquatic life, reference <a href="#">1</a>
	oxides of nitrogen (NO <sub>x</sub> ) / NxO	acid rain, flora, human health, aquatic life
	oxides of sulphur (SO <sub>x</sub> )	
	other hazardous substances	
	heavy metals:	reference <a href="#">2</a>
	lead (Pb)	human health, soil, flora, aquatic life
	particle emissions	climate change, historical sites
	noise	human health
	vibration	
WATER	ballast water	water quality, aquatic life
	de-icing agents	
	dredge spoils	
	heavy metals:	
	lead (Pb)	
	nutrients C/N/P	
	oil products	
	other hazardous substances	
	streamflow variation	shoreline erosion, land use, aquatic life
	changes to estuaries	
	suspended solids	water quality, aquatic life
	dissolved solids	
	total solids	
	sedimentation	changes in water flow, aquatic life
	scouring	
	turbidity	aquatic life
	temperature	water quality, aquatic life
colour		
odour		
CLIMATE	changes in ambient air temperature	
	changes in surface water temperature	
	particle emissions	
	greenhouse gas emissions	CO <sub>2</sub> , CO <sub>2</sub> , NO <sub>x</sub> , NxO, SO <sub>x</sub>
FLORA	disturbance of aquatic habitat	pollutants, waterway traffic
	disturbance of plant habitat	
	decrease in biodiversity	
	impact of threatened species	
	changes in species population	
	changes in aquatic food web	
	changes in mammal food web	
impact on protected areas		
FAUNA	migratory changes - birds	pollutants, waterway traffic
	migratory changes - fish	
	decrease in biodiversity	
	impact on threatened species	
	changes in species population	
	impact on threatened area	
	changes in mammal food web	

CATEGORY	FACTOR	COMMENTS
<b>SOIL</b>	soil contamination	emissions, spills
	coast line erosion	
	river bank erosion	
<b>LANDSCAPE</b>	land use changes	
	visual aspects	
	physical composition	
	impact on sensitive lands	
<b>HISTORICAL MONUMENTS</b>	archaeological changes	acid rain, soiling, staining
	palaeontological changes	
	changes to historical sites	
<b>HUMAN HEALTH &amp; SAFETY</b>	changes in ambient noise levels	
	changes in disease incidence	
	risk of spills	
	risk of surface water contamination	
	risk of explosions	
<b>CULTURAL HERITAGE</b>	cultural changes	
	land use changes	
	way of life	
<b>SOCIO-ECONOMIC</b>	changes to well being of life	
	changes to quality of life	
	quality of recreational facilities	
	quantity of recreational facilities	
	present use of natural resources	
	potential use of natural resources	
	employment opportunity	
	economic development - transboundary	

References

1. Proceedings of the EMEP Workshop on Emission Inventory Techniques, Regensburg, Germany, 2-5 July, 1991, EMEP/CCC-Report 1/91
2. Economic Commission for Europe Convention of Long-range Transboundary Air Pollution, Task Force on Heavy Metal Emissions, June 1994
3. Economic Commission for Europe, Convention on the Transboundary Effects of Industrial Accidents
4. Economic Commission for Europe, State of Knowledge Report of the UN ECE Task Force on Persistent Organic Pollutants
5. Recommendations to ECE Governments on the Prevention of Water Pollution from Hazardous Substances