Project 11 - Dams and Reservoirs

Comments:

CATEGORY	FACTOR	COMMENTS
AIR	odour	human health
	noise	
	vibration	
WATER	heavy metals:	molecular bonding in soils, reference 2, human
	mercury (Hg)	health, flora, fauna, aquatic life
	arsenic (As)	
	selenium (Se)	
	vanadium (Vn)	
	beryllium (Be)	
	faecal coliforms	water quality, aquatic life, human health
	nutrients	water quality, aquatic life
	biological oxygen demand (BOD)	
	chemical oxygen demand (COD)	
	total organic carbon (TOC)	
	dissolved oxygen	
	inundation of lands	landscape, flora, fauna, soil, socio-economic
	basin hydraulic loss	aquatic life, landscape, soil
	streamflow variation	aquatic life, landscape, erosion/ sedimentation, flora, fauna
	changes to estuaries	aquatic life, flora, fauna, landscape, erosion
	sedimentation	aquatic life, water quality
	scouring	aquatic life
	turbidity	aquatic life, water quality
	change in pH	
CLIMATE	changes in surface water temperature	
	changes in humidity	
FLORA	changes in natural vegetation	reservoir, changes in water system
	disturbance of aquatic habitat	
	disturbance of plant habitat	
	disturbance of natural vegetation	
	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 - fish	reservoir, changes in water system
	migratory changes - mammals	
	disturbance of wildlife habitat	
	decrease in biodiversity	
	impact on threatened species	
	changes in species population	
	changes in mammal food web	
SOIL	shoreline erosion	changes in water system
LANDSCAPE	land use changes	
	visual aspects	
	physical composition	
	impact on sensitive lands	
HISTORICAL	historical sites	changes in water levels
MONUMENTS	archaeological changes	
	palaeontological changes	

CATEGORY	FACTOR	COMMENTS
HUMAN HEALTH	changes in disease incidence	
& SAFETY	increase in parasitic disease	increase humidity along shoreline, changes in natural vegetation
	risk of surface water contamination	heavy metals in intermolecular bonding of soils, other pollutants
CULTURAL	cultural changes	
HERITAGE	land use changes	
	way of life	
SOCIO-	changes to well being of life	
ECONOMIC	changes to quality of life	
	quality of recreational facilities	
	quantity of recreational facilities	
	present use of natural resources	
	potential use of natural resources	increase recreation, fishing, swimming
	employment opportunity	recreation facilities, dam site
	economic development - transboundary	hydro-electricity sales, recreational opportunities

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