Project 6F - Manufacture of pharmaceuticals, medicinal chemicals and botanical products

Comments:

CATEGORY	FACTOR	COMMENTS
AIR	aldehydes	poisonous
	ammonia	hazardous substance, aquatic life, human health, water quality, reference 3
	aniline	hazardous substance, hazardous waste, human health
	arsenic	carcinogen, hazardous substance, hazardous waste, priority toxic pollutant, flora, fauna, human health, aquatic life
	ethylene oxide	potential occupational carcinogen, reference 3
	heavy metals	human health, flora, fauna, soil, reference 2
	non methane volatile organic carbons (NMVOC)	greenhouse gases, volatile, flora, reference 1
	persistent organic pollutants	reference <u>4</u>
	dioxins	priority pollutant, possible carcinogen, human health, aquatic life, soil
	phosgene	hazardous substance, hazardous waste, poison gas, human health, reference <u>3</u>
1	other hazardous substances	
	particle emissions	climate change, human health, historical sites
	odour	human health
WATER	alcohols	
	methyl alcohol	hazardous waste, human health, aquatic life
	aldehydes	n :
	formaldehyde	Poisonous
	ammonia	hazardous substance, aquatic life, human health, water quality, reference 3
	aniline	hazardous substance, hazardous waste, human health, no criteria set for water
	arsenic	carcinogen, hazardous substance, hazardous waste, priority toxic pollutant, flora, fauna, human health, aquatic life
	dichloroethelyne	hazardous waste, priority toxic pollutant, human health, aquatic life
	heavy metals	
	persistent organic pollutants	reference <u>4</u> & <u>5</u>
	dioxins	priority toxic pollutant, human health, aquatic life, possible carcinogen, soil
	organohalogen compounds	reference <u>5</u>
	chloroform	carcinogen, hazardous substance, hazardous waste, priority toxic pollutant, human health, aquatic life
	1,2-dichloroethane (ethylene dichloride)	carcinogen, hazardous substance, hazardous waste, priority toxic pollutant, flammable, human health, fauna, aquatic life, water
	tetrachloroethylene	carcinogen, hazardous waste, priority toxic pollutant, human health, fauna, aquatic life, water
	nutrients C/N/P	water quality, aquatic life
	other hazardous substances	
	biological oxygen demand (BOD)	
	chemical oxygen demand (COD)	
	dissolved oxygen	
	total organic carbon (TOC)	
	suspended solids	

CATEGORY	FACTOR	COMMENTS
	dissolved solids	water quality, aquatic life
	total solids	
	temperature	7
	change in pH	
	colour	water quality
	odour	water quanty
CLIMATE	changes in ambient air temperature	
<u> </u>	particle emissions	7
	greenhouse gas emissions	
FLORA	changes in natural vegetation	pollutants, project location
	disturbance of aquatic habitat	
	disturbance of plant habitat	7
	disturbance of natural vegetation	7
	decrease in biodiversity	7
	impact of threatened species	7
	changes in species population	7
	changes in aquatic food web	7
	changes in mammal food web	7
	impact on protected areas	7
FAUNA	disturbance of wildlife habitat	pollutants, project location
	decrease in biodiversity	7
	impact on threatened species	
	changes in species population	
	impact on threatened area	
	changes in mammal food web	
SOIL	soil acidification	heavy metals, other pollutants
	soil contamination	
LANDSCAPE	land use changes	
	visual aspects	
	physical composition	
	impact on sensitive lands	
HISTORICAL	changes to historical sites	acid rain pollution
MONUMENTS		
HUMAN HEALTH	changes in ambient noise levels	_
& SAFETY	changes in disease incidence	4
	risk of spills	4
	risk of surface water contamination	4
	risk of ground water contamination	4
	risk of explosions	
CULTURAL	cultural changes	4
HERITAGE	land use changes	4
COCIO	way of life	
SOCIO-	changes to well being of life	┥
ECONOMIC	changes to quality of life	4
	quality of recreational facilities	-
	quantity of recreational facilities	┥
	present use of natural resources	4
	potential use of natural resources	4
	employment opportunity	4
	economic development - transboundary	7

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