

WATER MANAGEMENT CASE STUDY

Company: Swerock AB

Location: Sweden

Type of site: Quarry / Sand and gravel pit

Potential impact on water or groundwater

Emissions of:

1. Fines
2. Nitrogen
3. Diesel
4. Chemicals

Description of the good practice

1. Sedimentation pond
2. Nitrogen trap, if it is possible to convey water from the quarries to a wetland and there is economic and practicable
3. Refueling on hard surfaces, good supply of absorption products
4. Chemicals stored in locked containers with receptacle, good supply of absorption products

Description of the positive effects on water/groundwater

1. Reduce the amount of sediment materials in the water leaving the quarry area.
2. Nitrogen absorbed by vegetation, organically bound nitrogen settle and denitrification
3. Spill of diesel at fueling stops in the paved surface, does not go into the ground
4. No spillage of chemicals. Unauthorized persons can't access them and cause damage.