

Environmental Monitoring (DO)

Environmental monitoring is vast challenge and covers many aspects from water and air to waste. The mine must monitor these media and demonstrate that there is no negative impact. The mine must assess the assimilative capacity of the receiving environment.

The potential impact from a mine can be over a very wide area with respect to environmental emissions. Monitoring must look at dispersion of discharges in the atmosphere and within water bodies and groundwater.

The frequency required for monitoring will be site specific and will depend on sensitivities specific to each site. It would be expected that a mine will have monitoring data that is on a daily basis for many parameters.

Environmental monitoring may include the monitoring of any plumes that may be caused by mining operations.

Environmental monitoring will include noise and vibration, which are often the source of complaints from neighbours.

Environmental monitoring will also include the measuring of biological components (flora and fauna) to demonstrate that biodiversity and species numbers are in line with the numbers reported in preplanning reports.

Relevant EO Products

- [Kopie von Product Sheet: Air Quality CH4](#)
- [Product Sheet: Air Quality Particulate Matter](#)
- [Product Sheet: Air Quality CH4](#)
- [Product Sheet: Waste Accumulation Monitoring](#)
- [Product Sheet: Ground Water Monitoring](#)
- [Product Sheet: Water Quality](#)
- [Product Sheet: Air Quality NO2 and SO2](#)
- [Product Sheet: Air Quality CO2](#)
- [Product Sheet: Soil Moisture](#)
- [Product Sheet: Hydrological Network and Surface Water Dynamics](#)
- [Product Sheet: Soil structure and chemistry](#)