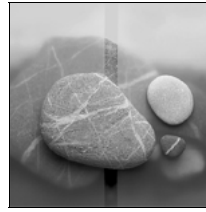


## Community Association WWTP Worblental Sanitation sludge processing



### Project description

Project planning and restoration of the sludge processing plant in the context of a master's planner mandate by the engineering team CSD Inc. / Ryser Engineers Inc.

- Location : ARA Worblental, Worblaufen Switzerland
- Reference person : J. van Elewout, plant manager
- Duration: 1997-2002
- Entire construction sum: 19.6 Mio. CHF
- Entire fee sum: 2.5 Mio CHF

### Highlights

The restoration program covers:

- Restoration of the 3 existing digestion chambers (2x2'000m<sup>3</sup> + 4'000m<sup>3</sup>).
- Restoration of the conduit and gas installations.
- Construction of 3 secondary thickener (3x850m<sup>3</sup>) chambers
- Restoration and construction of subsurface conduit tunnels.
- Construction of a block heat power plant.
- Updating the central control room.
- Restoration of the supply measurement.
- Technical and electro mechanical restoration of the building containing the rake's.
- Restoration and extension of process water catchments and process water distributions.

### Our services

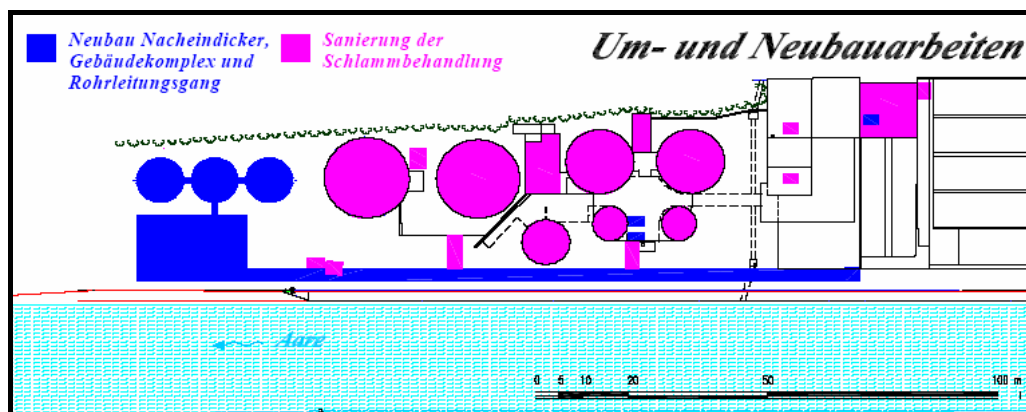
- Lead management of the engineering team.
- Project planning and realisation of restoration measures (digestion chambers, fresh sludge processing, subsurface pipeline tunnel, gas installations, supply amount measurement screenings processing).
- Conduct an environmental compatibility assay, incl. the compilation of a concept for engineering measures.



**Picture left:**  
 Sanitation of the existing sludge processing. During the modification phase the works are in that way coordinated, that the line operation (in a reduction availability) is ensured anytime.



**Picture right:**  
 New building of the secondary thickener and of the premises for this part of the installation. Most advanced technics is combined with existing parts of the installation.



**Picture above:** From one source, modification and new building works WWTP Worblental, from the planning to the turnkey agreement