



**Water Cooperatives „Dingdorf Wasser“ and
„Dingdorf Abwasser“**

- Foundation of water cooperatives 17.10.2006
- Start construction of the plants in June 2009
- Commissioning of both plants in June 2010



Water Cooperatives Dingdorf; April 2018; Weseiy

Water Cooperatives Dingdorf

Motivation:

- Extreme drought summer 2003
- The community Neumarkt im Mühlkreis supplied the inhabitants whose wells were dry
- Two kilometers distance to the nearest public water supply
- Test drilling and pumping test 2006 and 2007



Water Cooperatives Dingdorf; April 2018; Weseiy

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Water Cooperatives Dingdorf

- until the joint construction of the facilities, each house of Dingdorf had its own well and its own cesspool
- These wells were different productive
- during dry weather periods, water had to be transported



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Water Supply



Cistern / space for technology



Water Cooperatives Dingdorf, April 2018, Wesely

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Water Supply

Water extraction - drill well:

- construction of the drill well in June 2006
- possible flow rate 25,9 m3 per day (0.3 l/s)
- total depth 61.5 meters



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Water Supply

cistern:

- 2x20 m³ water tank
- space for technology
- deacidification (+calcium)
- 2460 meters of water pipes
- terrain is cleverly used;
- cistern is located above the village
- supplying all users without pumps (pressure reducing necessary).



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Wastewater Disposal

- terrain is cleverly used (the village is located on a mountainside)
- the plant is below the village
- pumping stations are not necessary

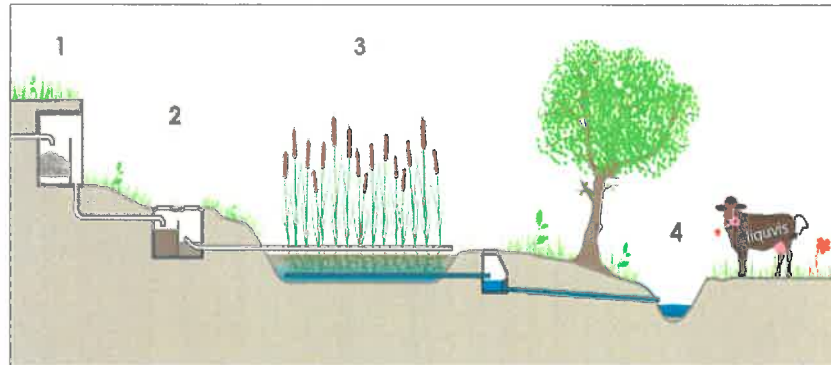


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Wastewater Disposal

How it works: 1. Rotting Station, 2. Pump shaft, 3. Reedbed – Inspection shaft, 4. after inspection - piping into public water



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Wastewater Disposal

Commissioning distribution device – reed bed



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Wastewater Disposal (example authority test)

3.2. Grenzwerte (maximale Konzentrationen) im Kläranlagenablauf

Parameter	Messwert (mg/l)	Grenzwert (mg/l)
BSB ₅	0,9	25
CSB	22,4	90
NH ₄ -N	0,079	*10
TOC	7,80	30

* bei Ablauftemperaturen > 12° C

Parameter:

- **BSB₅**: Biological oxygen demand as a pollutant parameter of wastewater
- **CSB**: chemical oxygen demand as a parameter for pollutants released into the wastewater
- **NH₄-N**: Ammonium nitrogen in the wastewater is degraded by microorganisms to nitrate
- **TOC**: Sum of organic carbon as a load parameter of the wastewater

Messwert

measured value

Grenzwert

wird per
Bescheid
festgelegt

limit value
will be
determined by
authority

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Wastewater Disposal

Operation:

- Village community cares for soil filters
- Lawn care and straw Management of the rotting station by all members (annual list)



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