

Hydrological expert opinion for the spring Waldmühlen in Luisenthal

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Services provided:

For the spring Waldmühlen in Luisenthal by Ohrdruf the hydrological expert opinion was drawn up. The objective of the study was to determine the geological/hydrogeological conditions as well as to determine the spring catchment area. The basis of the investigation was to verify whether the spring can be used as a mineral water.

Location: Ohrdruf, Thuringia

Client: private

Beneficiary: private

Year: 2005



Initial situation:

The spring appeared at the bottom of the bedrock and drained into the river Ohre. Tectonic structures caused the water discharge from the steep layers. Large-sized rewetting zones in the entire surrounding of the spring pointed out the abundant discharge of the hydraulically relevant structures. The water is low mineralised and neutral, which corresponds to the alkaline earth water with predominant hydrogen-carbonate units.



Services provided:

- Evaluation of existing local and regional hydro-geological maps and reports
- Verification and interpretation of location and altitude of the spring, type of the spring, hydraulic stress, average filling rate, chemical type of water
- Natural description, classification and assessment of above and under ground catchment areas
- Recommendations for further actions