

| GENERAL INFORMATION | |
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| Parameter name | Hydraulic transmissivity |
| Name of the layer in EGD Map Viewer | Hydraulic transmissivity of the karst shallow aquifer, Cork Hydraulic transmissivity of the karst deep aquifer, Cork |
| Original name of the layer uploaded to EGD database | PP07_GSI_hydraulic_transmissivity_karst-aquifer_shallow-bedrock PP07_GSI_hydraulic_transmissivity_karst-aquifer_deep-bedrock |
| Category | Resources for open-loop systems |
| Definition | The rate of groundwater flow laterally through an aquifer, determined by hydraulic conductivity and container thickness. |
| Harmonized unit | m ² /d |
| Relevance for shallow geothermal energy | Property relevant for designing open-loop installations of shallow geothermal energy systems . |
| Data type | Continuous data layer |
| Data format | raster |
| Projection | EPSG: 3034 |
| Dataset selected for pilot area | Cork, Zaragoza, Girona |

| ATTRIBUTES | |
|------------|-------------------|
| Unit | m ² /d |

| DATA SOURCE | |
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| Pilot area | Cork |
| Data source | Derived from academia and the Geological Survey Ireland's aquifer parameters database. |
| Contact data owner | taly.hunterwilliams@gsi.ie |
| Last Update | 12/05/2021 |

| Explanatory text English |
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| <p>Hydraulic transmissivity – karst aquifer, Cork. This dataset contains a record of hydraulic transmissivity for the regionally important karst aquifer (dominated by diffuse flow (Rkd)) in the Cork pilot area. The data are derived from academia and the Geological Survey Ireland's aquifer parameters database. Representative bulk values have been assigned to the karst aquifer due to a lack of available field and pumping test data.</p> <p>The conceptual model for the karst aquifer comprises two depth-based zones: (1) a more fractured and more permeable shallow bedrock zone; and (2) a less fractured and less permeable deep bedrock zone. The total thickness of the karst aquifer in the pilot area has been defined as 200 m, with the shallow bedrock zone comprising the first ~40 m.</p> <p>DISCLAIMER</p> |

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Data coordinate reference system reprojected from EPSG:2157 – IRENET 95 / Irish Transverse Mercator to EPSG:3034 - ETRS89-extended / LCC Europe.