

OR/14/044 Modelled volume, purpose and scale

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Terrington, R L, Shelley, C, and Ramos Cabrera, L. 2014. Model metadata report for the Leeds-Aire Valley 3D geological model. *British Geological Survey Internal Report*, OR/14/044.

The Leeds Aire Valley 3D model is of the Artificial and Superficial deposits only. The model covers an area of approximately 40 km² ranges in thickness between 1 to 20 m and extends in elevation from 15 m to 75 m OD. The model cross-sections are aligned in a north west to south west and south west to north east direction along the River Aire valley, which extends across the south eastern part of the Leeds urban centre (Figure 1). The model was constructed to inform the Anthropogenic Processes Project about the types of superficial deposits in the Aire valley and their general thickness. Artificial ground has also been modelled as a base layer from which the Anthropogenic Processes Project would enhance this layer with further data and information from various detailed studies on the boreholes and historical landuse.

As the model extends across and along the River Aire Valley in an urban centre, much of the natural Holocene (e.g. Alluvium and River Terrace Deposits) and Devensian (e.g. glacial deposits such as Till, Glaciolacustrine and Glacial Fluvial deposits) are covered by artificial ground. Further details of these units can be found in [Modelled surfaces/volumes](#).

[File:OR14044fig1.jpg](#)

Figure 1 Cross-section distribution of the GSI3D model constructed for the Leeds-Aire Valley region.

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