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Generalized Geologic Map for Land-Use Planning: Lewis County, Kentucky

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Flood information is available from the National Flood Insurance Program (NFIP) and the Kentucky Department of Insurance. Floodplains are areas where flooding can occur as a result of water accumulation. Floodplains are identified on the flood hazard maps. Flood zone information is provided by the United States Geological Survey (USGS) and the Federal Emergency Management Agency (FEMA).

Clay shales (unit 7) are favorable for pond construction, but create structural challenges in road and building construction. They also provide soils for agricultural purposes, such as irrigation. Clay shales are also used as a source of water for the community. This is shown in the photo by Dan Carey, Kentucky Geological Survey.

For Planning Use Only

Therefore, when considering the construction of a new foundation or a significant modification to an existing one, it is important to understand the geological characteristics of the area. This includes the presence of clay shales and other materials that may affect the stability of the foundation.

Slope Stability

Slope stability is an important consideration when planning land use. The stability of a slope depends on factors such as the slope angle, the type of soil, and the weather conditions. In areas with steep slopes, it is important to consider the possibility of erosion and landslides.

Land Use Planning Guidelines

The Land Use Planning Guidelines are designed to help landowners and developers make informed decisions about the use of their land. These guidelines take into account the geological and environmental characteristics of the area and provide recommendations for land use.

Swelling and Shrinking Shales

Swelling and shrinking shales are a problem in this area. These shales can expand and contract due to changes in moisture content, which can cause damage to buildings and infrastructure. It is important to consider the potential for swelling and shrinking shales when planning land use in this area.

Additional Resources

For more information, contact the Kentucky Geological Survey or visit their website at www.kgs.uky.edu. This map is designed to provide a general overview of the geological characteristics of Lewis County, Kentucky. For specific information about a particular location, contact a local geologist or a land use planning expert.