

## **AMBARL? LANDSLIDE, ISTANBUL – TURKEY**

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The pipeline that carries natural gas from northeast Europe to Izmit and Ankara enters into the Sea of Marmara over the critically stable slopes of Tertiary age soils facing the sea. The 350 meter long section of this gas pipeline between the pigging station and the Sea of Marmara was out of order for a short time owing to the landslide in 1989. This is caused by the faulty section of waste site constructed to the west of the pipeline near the pipeline. After the landslide, pipeline moved 8 m in an area that was 70 m wide and caused to swell in toe about 4 meter. In this study, fast repair work of the pipeline that meets energy requirements of many industrial facilities in the region and changes in physical and mechanical properties of the lithologies over time are described. In this large paleolandslide area, engineering applications for the stability of the pipeline in the future is discussed.