



Industrial Plant, Co. Kildare Confidential Client

Hydrogeological Site Investigation, Pumping Tests, Water Environment Risk Assessment, Mitigation Measures and Compliance Monitoring Programs

AWN has carried out numerous extensive hydrogeological investigations and assessments at an existing Industrial Plant. Key studies include the following:

- Hydrogeological site investigation to establish groundwater conditions in the bedrock aquifer at proposed development and undertaking long-term groundwater monitoring (2011 and 2012);
- Design and supervision of pumping tests at selected bedrock boreholes to determine aquifer properties and estimation of potential dewatering rates during developments (2012);
- Hydrogeological assessment of the potential impact of proposed developments on the Water Environment, including cSAC (2011 and 2012);
- Design and implementation of mitigation measures, including continuous compliance monitoring of groundwater at sensitive Water Environment receptors. Agreeing mitigation measures with regulators (2012);
- Hydrogeological modelling of proposed excavations to assess the potential impact of the development on groundwater flow paths and groundwater contours (2012);
- Quantitative Water Environment risk assessment of soil leachate results to assess the potential impact on Water Environment receptors (2011).
- Soil, Geology and Hydrogeology Chapters for EISs for numerous planning applications (2011 – 2012)