

# PROJECT DATA SHEET

## SITE CHARACTERISATION ASSESSMENT



**Project:** Site Characterisation Assessment for a 100 bed Nursing Home development

### Summary of Services:

- Desktop study
- On-site consultation and test site selection
- Hydrogeological assessment
- Percolation testing
- Trial hole analysis
- Soil / subsoil classification
- Detailed design of treatment plant and polishing filter
- Report for An Bord Pleanála

### Description:

- Site Characterisation Assessment (with an expanded study of the hydrogeological setting)
- Design Proposal
- Preliminary drawings
- Response to a Planning Appeal (An Bord Pleanála)

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Design, supply & construction of an upgraded on-site wastewater treatment system



### Works

BioCycle Ltd. were appointed by the client's representative, DBFL Consulting Engineers, to assess the suitability of a site in north County Dublin for the development of a proposed 100 bed nursing home. Following on from a desk study of the site, several potential test locations were investigated during an on-site consultation. Various factors were considered (e.g. distance to residential developments and potential receptors, surface water features, topography, etc.) were considered. A test location was ultimately selected that addressed the factors, was remote from potential receptors, and would ultimately facilitate the cost-effective development of a workable solution, based on satisfactory on-site assessment results.

The percolation and trial hole test results showed that acceptable residence times of the treated effluent in the soils could be achieved, indicating the ability to treat residual pollutants. A hydrogeological assessment, which was carried out in tandem with the on-site work, confirmed that the hydraulic capacity of the soils and the attenuation of effluent was such that risks to potential receptors were mitigated.

Third party objections to the proposed development were received by the local authority during the planning process, none of which related to the assessment of the site's suitability. Notwithstanding this, BioCycle Ltd. prepared a detailed submission to An Bord Pleanála on behalf of the client. A grant of permission was ultimately given by An Bord Pleanála, who noted the detailed submissions in terms of wastewater treatment and disposal (i.e. by BioCycle Ltd.), and considered that the proposed on-site treatment system was acceptable.

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