



## Appropriate Assessment Screening

Brews Hill Proposed Development

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## 1. Introduction

This report comprises information in support of screening for Appropriate Assessment (AA) in line with the requirements of Article 6[3] of the EU Habitats Directive (EC 92/43/EEC) on the Conservation of Natural Habitats and of Wild Fauna and Flora; the Planning and Development (Amendment) Act 2010; and the European Union (Birds and Natural Habitats) Regulations 2011 as amended, for the development of a small housing development at 43 and 44 Brews Hill, Navan, Co. Meath

This screening exercise aims to determine whether the proposed works have the potential to significantly impact upon the conservation objectives and overall integrity of any Natura 2000 sites. This assessment is based upon a desk study and field work carried out by suitably qualified ecologists. Also included is a general assessment of the ecological status of the site and the potential impacts of the proposed works on the ecology of the surrounding area, including Designated Sites.

The following definitions are used for the terms “impact” and “effect”:

**Impact** – Actions resulting in changes to an ecological feature, e.g. the construction activities of a development removing a hedgerow.

**Effect** – Outcome to an ecological feature from an impact, e.g. the effects on an animal population from loss of a hedgerow.

The Competent Authority is obliged to examine the likely significant effects individually or in combination, of the proposed development on European Designated Sites in light of their specific Qualifying Interests (QIs) and Conservation Objectives (COs). If AA screening determines that there is likely to be significant effects on one or more of these sites, or the impacts are uncertain, then full AA must be carried out for the proposed development, including the compilation of a Natura Impact Statement to inform the decision making.

For the purposes of this assessment, a “significant effect” is:

“...an effect that either supports or undermines biodiversity conservation objectives for ‘important ecological features’ ... or for biodiversity in general. Conservation objectives may be specific (e.g. for a

designated site) or broad (e.g. national/local nature conservation policy) or more wide-ranging (enhancement of biodiversity).

Effects can be considered significant at a wide range of scales from international to local. A significant effect is an effect that is sufficiently important to require assessment and reporting so that the decision maker is adequately informed of the environmental consequences of permitting a project.

In broad terms, significant effects encompass impacts on structure and function of defined sites, habitats or ecosystems and the conservation status of habitats and species (including extent, abundance and distribution).”

- CIEEM Guidelines for Ecological Impact Assessment in the UK and Ireland (2018)

Sections 4 and 5 of the report comprises the AA Screening that specifically focuses on the potential for impacts on Natura 2000 sites deemed to be at risk from the proposed development.

## 1.1 Necessity for Environmental Impact Assessment

We would assess this project as being an ‘urban development project’ as defined by the pertinent EU legislation. It would therefore be a proscribed project type. It would also be within a built-up area. However, it would be far below the threshold of area being developed to require mandatory EIA. It would therefore be a ‘sub-threshold’ development. The receiving environment is not of high sensitivity; rather, the zone of influence would include only built areas. The project has been screened for Appropriate Assessment and no impacts on any Natura 2000 sites were predicted. Given that works will be within a very contained area, and this already built, no significant environmental impacts might be expected. Given that no novel technologies/techniques will be employed, no impacts on humans, infrastructure etc. are anticipated. In summary, it is our opinion that the proposed development will not require EIA given the low sensitivity of the receiving environment and the very contained nature and scale of the proposed project.

## 2. Background to Screening for Appropriate Assessment

### 2.1. European Designated Sites

Sites designated for the conservation of nature in Ireland include:

- Special Areas of Conservation (SACs);
- Special Protection Areas (SPAs), and;
- Natural Heritage Areas (NHAs)

SPAs and SACs form the Natura 2000 network of sites. It is these sites that are of relevance to the screening process for this Appropriate Assessment Screening.

SPAs and SACs are prime wildlife conservation areas in the country, considered to be important on a European as well as Irish level. SPAs and SACs are designated under EU Habitats Directive, transposed into Irish law by the European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. No. 477 of 2011), as amended.

Natural Heritage Area (NHA) is the basic designation for wildlife in Ireland. These are areas considered important for their habitats or species of plants and animals whose habitat requires protection and are protected by the Wildlife (Amendment) Act of 2000.

All European Designated Sites (henceforth simply referred to as “Designated Sites”) that are connected to the proposed development were considered during the desktop study in order to assess the potential for significant effects upon their QIs and COs. This stage of the process is used to determine whether any of the Designated Sites can be regarded as not being relevant to the process of Appropriate Assessment of the project, having no potential to be significantly affected.

## 2.2. Legislative Context

The methodology for this screening statement is clearly set out in a document prepared for the Environment DG of the European Commission entitled ‘Assessment of plans and projects significantly affecting Natura 2000 sites: Methodological guidance on the provisions of Article 6 paragraphs 3 and 4 of the Habitats Directive 92/43/EEC’ (Oxford Brookes University, 2001). This report and contributory fieldwork were carried out in accordance with guidelines given by the Department of Environment, Heritage and Local Government (2009, amended February 2010).

The assessment process is given in Articles 6[3] and 6[4] of the Habitats Directive and is commonly referred to as “Appropriate Assessment” or AA.

Article 6 of the Habitats Directive sets out provisions which govern the conservation and management of Natura 2000 sites. Article 6[3] and 6[4] of the Habitats Directive set out the decision-making tests for plans and projects likely to affect Natura 2000 sites (Annex 1.1). Article 6[3] establishes the requirement for Appropriate Assessment:

“Any plan or project not directly connected with or necessary to the management of the [Natura 2000] site but likely to have a significant effect thereon, either individually or in combination with other plans and projects, shall be subjected to appropriate assessment of its implications for the site in view of the site’s conservation objectives. In light of the conclusions of the assessment of the implication for the site and subject to the provisions of paragraph 4, the competent national authorities shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned and, if appropriate, after having obtained the opinion of the general public.”

Article 6[4] continues:

“If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted. Where the site concerned hosts a priority natural habitat type and/or a priority species the only considerations which may be raised are those relating to human health or public safety, to beneficial consequences of primary importance for the environment or, further to an opinion from the Commission, to other imperative reasons of overriding public interest.

It is the responsibility of the proponent of the plan or project to provide the relevant information (ecological surveys, research, analysis etc.) for submission to the ‘competent national authority’. If satisfied that the information is complete and objective, the competent authority will use this information to screen the project, i.e. to determine if an AA is required and to carry out the AA, if one is deemed necessary. The competent authority shall agree to the plan or project only after having ascertained that it will not adversely affect the integrity of the site concerned.”

The appropriate assessment process has four stages. Each stage determines whether a further stage in the process is required. If, for example, the conclusions at the end of Stage One are that there will be no significant impacts on the Natura 2000 site, there is no requirement to proceed further. The four stages are:

1. Screening to determine if an appropriate assessment is required;
2. Appropriate assessment;
3. Consideration of alternative solutions, and;
4. Imperative reasons of overriding public interest/derogation.

### **Stage 1: Screening for AA**

This report provides a stage one Screening for Appropriate Assessment. It aims to establish whether the plan or project is directly connected with or necessary to the management of Designated Sites; or in view of best scientific knowledge, if the plan or project, individually or in combination with other plans or projects, is likely to have a significant effect on a Designated Site. This is done by examining the proposed plan or project and the COs of any Designated Sites that might potentially be affected.

The study is based on a preliminary impact assessment using both publicly available data and data collected during site surveys. This is followed by a determination of whether there is a risk that the effects

identified could significantly impact any Natura 2000 sites, and if so an Appropriate Assessment (AA) is required. The need to apply the precautionary principle in making any key decisions in relation to the tests of AA has been confirmed by European Court of Justice case law. Therefore, where significant effects are likely, possible or uncertain at screening stage, a stage two AA will be required.

## 3. Methodology

### 3.1. Desk Study

A desktop study was carried out as part of this screening process to gain an understanding of the surrounding human and natural environments. This included a review of available data from a range of sources on the site and its immediate environs.

### 3.2. Data used to carry out the assessment

The following sources of data were employed:

- Environmental Protection Agency (EPA) Appropriate Assessment Tool;
- EPA Maps (to identify watercourses, hydrology and Natura 2000 site boundaries);
- NPWS protected species database and online mapping;
- The Geological Survey of Ireland hydrological and lidar data and map viewer;
- The National Biodiversity Data Centre archives;
- Inland Fisheries Ireland, and;
- An Bord Pleanála's online database

### 3.3. SPR Model

This assessment was carried out using the source-pathway-receptor (SPR) approach, a standard tool in environmental assessment. The SPR concept in ecological impact assessment relates to the idea that for the risk of an impact to occur, a source is needed (e.g., a development site); an environmental receptor is present (a lake); and finally, there must be a pathway between the source and the receptor (a watercourse linking the development site to the lake). Even though there might be a risk of an impact occurring, it does not necessarily mean that it will occur, and in the event that it does occur, it may not have significant effects on the receiving environment. Identification of a risk means that there is a possibility of ecological or environmental damage occurring, with the level and significance of the impact depending upon the nature and exposure to the risk and the characteristics of the receptor.

In this instance, the most relevant receptors are any relevant Natura 2000 sites with connectivity of the proposed works. These were considered during the desktop study stage of this screening assessment in order to assess the potential for significant effects upon their QIs and COs.

### 3.4. Field Survey

The field survey was carried out on 1<sup>st</sup> September 2022. Unfortunately access to the site itself was not possible due to the boundary gates being locked.

## 4. Screening of Designated Sites

### 4.1. Site Location

The proposed development site is located in the southeastern part of Navan Town, Co Meath, on an overgrown site within a residential terrace on Brews Hill.



Figure 1 Overview of the proposed works area

## 4.2. Receiving Environment

A description of the habitats of significant ecological value that were observed within the immediate surroundings of the works area are listed below, with descriptions adapted from “A Guide to Habitats in Ireland” by Julie A. Fossitt, 2000.

A description of the habitats of significant ecological value that were observed within the immediate surroundings of the works area are listed below (Figure 2).

The proposed works area is a semi-derelict plot between Brews Hill and Emmett Terrace; access to the site was not possible, but from what could be seen through the gate and from the aerial footage and Google Streetview the site comprises a mixture of buildings in a state of disrepair **BL3**, with a mature treeline **WL2** consisting of Leyland cypress *Cupressus x leylandii*. The rest of the plot consists of overgrown amenity grassland **GA2** and recolonising bare ground **ED3**, with a pile of rubble/debris **ED5** against the rear wall of the property.

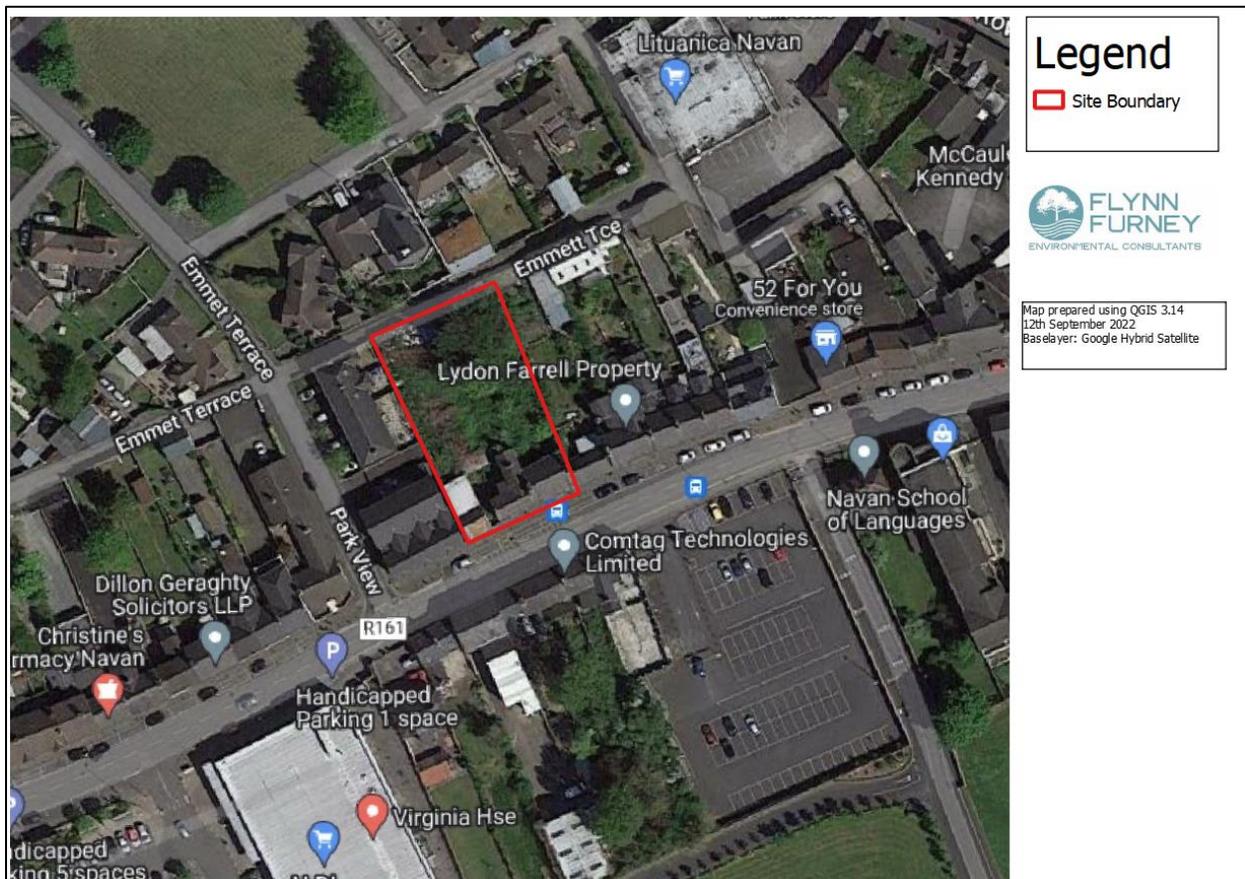


Figure 2 Proposed works area

#### 4.2.1 Surface water

The nearest watercourse to the proposed works area is the Blackwater River, some 450m to the north across the town, on the northern side of the N51; no realistic pathway connects the works area with the receptor.

#### 4.2.2. Breeding Birds

All species of wild bird that occur naturally in Ireland are fully protected at all times by the Wildlife Act and relevant amending legislation. Similarly, all birds naturally occurring in the wild state are afforded a measure of protection by the EU Birds Directive, but derogations may reduce protection for specific reasons. As such, any vegetation clearance must be carried out outside of the bird nesting season (March 1st - August 31st).

A dedicated bird survey was not carried out for this project since access to the site was not possible. The area will need to be cleared of vegetation for the proposed development however, including the removal of the mature *Leylandii* treeline; a pre-construction nesting bird survey may be required, depending on the timing of the works.

#### 4.2.3. Amphibians

An amphibian survey was not carried out as part of this project, due to the lack of suitable habitat for spawning common frog *Rana temporaria* or smooth newt *Lissotriton vulgaris* within the proposed works area.

#### 4.2.4. Mammals

No mammal signs were observed during the course of this survey. Derelict buildings and mature trees can provide roosting habitat for bat species however, which are protected under the Wildlife Act and Annex IV of the Habitats Directive; a dedicated pre-construction emergence/roost survey is strongly recommended prior to any demolition works taking place.

#### 4.2.5. Invasive Species

The Wildlife Acts, 1976 and 2000, contain a number of provisions relating to invasive non-native species (INNS), covering several sections and subsections of the Acts. It is prohibited, without licence, to plant or otherwise cause to grow in a wild state, in any place in the State, any species of flora, or the flowers, roots, seeds or spores of invasive flora listed on the Third Schedule. Articles 49 and 50 of the aforementioned

Acts set out the legal implications associated with alien invasive species and Schedule 3 (the Third Schedule) of the regulations lists non-native species subject to the restrictions of Articles 49 and 50, which make it an offence to plant, disperse, allow dispersal or cause the spread of invasive species.

No Schedule 3 species or other invasive non-native species were noted within the proposed works area during this survey.

### 4.3. Proposed Works

The proposal is for the development of a 12-unit residential development on a plot within a terrace between Brews Hill and Emmet Terrace, Navan, Co Meath (Fig. 3)



Figure 3 Plan of proposed works

## 4.4. Works, Site Characteristics and Risks to the Environment

The principal risks from the proposed works to the receiving environment are the mobilisation of fine sediment and the resulting contamination of surface and groundwaters with fines/nutrient and disturbance of the surrounding area resulting in negative impacts to one or more species, the latter a consideration both during the construction and operational phases of the project. Of note is the nature and scale of the works and the existing highly modified site contained within an urban landscape; the risk to the receiving environment from the proposed works is considered to be negligible.

## 4.5. Nearby Designated Sites

All designated sites with the potential for connectivity with the proposed development were considered as part of this screening process (Fig. 4). Two sites with potential connectivity to the works area were found, *River Boyne and River Blackwater SAC* and *River Boyne and River Blackwater SPA*; all others are a substantial distance from the works area with no reasonable pathway for any impact (Table 1).

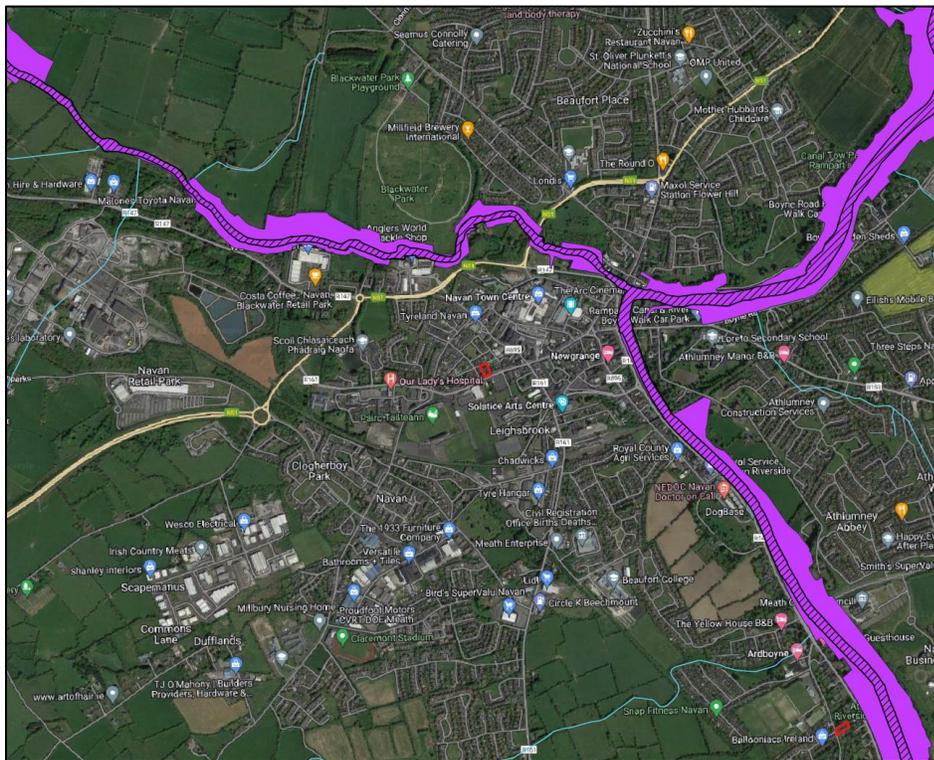


Figure 4 Designated sites in the vicinity of works area

Table 1 Designated sites with connectivity to the works area

Site Name and Code	Qualifying Interests (* denotes a priority habitat)	Distance (m)	Connectivity to Project
River Boyne and River Blackwater SAC 002299	<ul style="list-style-type: none"> <li>Alkaline fens [7230]</li> <li>Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (Alno-Padion, Alnion incanae, Salicion albae) [91E0]</li> <li><i>Lampetra fluviatilis</i> (River Lamprey) [1099]</li> <li><i>Salmo salar</i> (Salmon) [1106]</li> <li><i>Lutra lutra</i> (Otter) [1355]</li> </ul>	450	European site is not connected to the proposed works area, nor does it contain any qualifying habitat relevant to the Natura 2000s site or suitable for any listed QI species.
River Boyne and River Blackwater SPA 004232	<ul style="list-style-type: none"> <li>Kingfisher (<i>Alcedo atthis</i>) [A229]</li> </ul>	450	European site is not connected to the proposed works area, nor does it contain any habitat suitable for any listed QI species.

## 5. ASSESSMENT CRITERIA

### 5.1. Relation to management of nearby Designated Site(s)

The proposed project is not necessary to or connected with the management of any designated sites.

### 5.2. Direct Or Indirect Impacts

The proposed project lies entirely outside the boundary of any European site. Two European sites, *River Boyne and River Blackwater SAC 002299* and *River Boyne and River Blackwater SPA 004232*, lie within 500m of the proposed works area but are not hydrologically connected to it, with a highly modified urban landscape, including one major road, between them. No records of any QI species relevant to either European site exist within 2km of the proposed works area; neither does it contain any habitat relevant to either site. Given the nature and scale of the works, the nature of the qualifying interests of the sites and the lack of reasonable pathways for impact, the potential for direct or indirect impact on any European site is negligible.

### 5.2.1. Surface and groundwater pollution

The proposed works are not connected hydrologically to the wider receiving environment and lie within a highly modified urban environment with an existing road drainage system. No pathway for impact on any European site exists.

### 5.2.3. Construction/installation of infrastructure and potential QI habitat loss

No infrastructure will be constructed or installed within a European site or affecting any supporting ecological features as part of this project

### 5.2.4. Invasive Species

No schedule 3 species were found within the boundary of the proposed works area or its environs.

## 5.3. Cumulative And In-Combination Impacts

A search of Meath County Council's planning application database on 12<sup>th</sup> September 2022 showed no developments that could contribute to a cumulative or in-combination effect with the proposed works.

## 5.4. Likely Changes to the Designated Site(s)

No changes are predicted to any designated site, positive or negative.

## 6. Screening Conclusions

This report presents the information for the relevant authority, Meath County Council, to carry out a screening for AA. A recommendation that a stage II is/is not required is made below, based on the findings of this assessment, which are summarised in Table 2. It is for the relevant authority to reach one of the following conclusions:

- (i) A stage II AA of the proposed development is required if it *cannot* be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will not have a significant effect on any European Designated Sites.

- (ii) A stage II AA of the proposed development is not required if it *can* be excluded, on the basis of objective information, that the proposed development, individually or in combination with other plans or projects, will not have a significant effect on any European Designated Sites.

Table 2 Assessment of likely effects on any Designated Sites

<b>Assessment of Likely Effects</b>	
<b>Size and scale</b>	The proposed works are less than 1300m <sup>2</sup> , extremely small in relation to the nearest European sites.
<b>Land-take</b>	The works take place outside any European sites; no land is being taken for this project.
<b>Distance from the Natura 2000 site or key features of the site;</b>	The works area lies ca450 from the nearest European site(s) without any reasonable pathway for impact.
<b>Resource requirements (water abstraction etc.);</b>	No resources are required from any European site for this project.
<b>Emissions (disposal to land, water or air);</b>	There is a slight potential for emissions to water from the proposed works; these will be constrained within the existing drainage network of the adjoining roads and have no reasonable pathway for impact on the nearest aquatic receptor. Given the nature and scale of the proposed works and the distance to the closest Natura 2000 site, no possibility of impact exists. No other emissions to land or water beyond those of a small construction project are expected, and none which will impact on any European site.
<b>Excavation requirements;</b>	There are no excavations within any European site.
<b>Transportation requirements;</b>	There are no requirements for any transportation of materials through any European site.
<b>Duration of construction, operation, etc.;</b>	As yet unknown, but likely to be less than a year.
<b>Timing of works</b>	As yet unknown, but given nature and scale of the works, distance to any designated site and the lack of any suitable habitat for any QI species in the vicinity of the works area, the timing will not influence any effect or lack thereof on any European site.
<b>Cumulative or In-combination Impacts</b>	No projects are known that could in-combination with the proposed works cause any impact to any European site.

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<b>with other Projects and Plans</b>	
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Based on the available information gathered during field and desk surveys, it is the professional opinion of the author that the likelihood of significant impacts arising from the proposed development on *River Boyne and River Blackwater SAC 002299* and *River Boyne and River Blackwater SPA 004232*, or any other European site, can be ruled out on the basis of the following:

- Nature and scale of the proposed works
- The distance from the proposed works area to the designated sites.
- The lack of any connectivity with the designated sites.
- The nature of the qualifying interests of the designated sites.

Therefore, it is the conclusion of this report that the proposed development will not have a significant effect on any Natura 2000 sites and progression to Stage II Appropriate Assessment is not required.

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### APPENDIX I – SITE PHOTOGRAPHS

