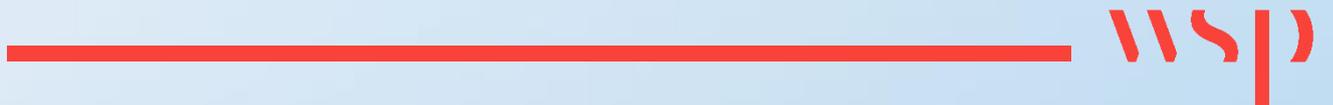


13

MATERIAL ASSETS



13 MATERIAL ASSETS

13.1 INTRODUCTION

This chapter of the EIAR has been prepared by WSP Ireland Consulting Ltd (WSP) and addresses the potential direct and indirect significant effects, if any, on material assets located in the vicinity of the Site, which can reasonably be expected to occur due to continued operation and extension of the Hudson Brothers Ltd (HBL quarry located at Athgarrett, Philipstown and Red Bog, Co. Kildare, (the Proposed Development). The Proposed Development is located within the administrative boundary of Kildare County Council, (KCC).

Material assets are comprised of the physical resources in the environment, which may be of human or natural origin. The objective of the assessment contained in the following sections is to assess the potential impacts and effects on material assets that can be reasonably foreseen due to the normal operation of the Proposed Development.

Material Assets in the vicinity of the Site comprise of built services and infrastructure, such as surface water drainage, roads, traffic, telecommunications, electricity, gas and water supply infrastructure and geological resources.

Other material assets include roads and traffic, which have been assessed in Chapter 12 of this EIAR.

13.1.1 TECHNICAL SCOPE

This assessment has been made with guidance from the 'Guidelines on the information to be contained in environmental impact assessment reports', published by the EPA in May 2022. The guidelines were drafted by the EPA with a view to facilitating compliance with EIA Directive (2014/52/EU).

The 2022 guidelines suggest the following subheadings under which to arrange issues concerning 'Built Services'; "*Electricity, Telecommunications, Gas, Water Supply Infrastructure, Sewerage*".

Having regard to the above guidance, particularly the 2022 EPA guidelines, and the characteristics and context of the lands that are the subject of this application, this EIAR chapter aims to identify the likely significant effects that the Proposed Development may have on 'built services' and these are discussed under the following headings:

- Electricity network utilities;
- Gas infrastructure;
- Telecommunications;
- Local water supplies and foul water network;
- Surface water drainage infrastructure;
- Waste management infrastructure; and
- Geological resource.

Activities that may occur during the operational phase have been assessed. Activities undertaken during the restoration phase will be substantially less intensive and as such the assessment below represents a worst-case assessment of these phases.

13.1.2 GEOGRAPHICAL AND TEMPORAL SCOPE

The assessment directly covers the physical extent of the EIA site boundary for the Site as shown in Figure 13-1) and the assessment area has been extended as appropriate to identify the relevant material assets surrounding the Proposed Development. The EIA boundary encompasses the lands proposed for the continuation of quarrying (Section 37L application boundary). The Section 37L (the Planning Application) boundary is shown on the drawing set which accompanies the planning application.

The temporal scope of this assessment covers the current quarrying activities on the Site and the extension of these permitted activities into the future, with the Section 37L application boundary. Given the phased nature of the extractive industry and the similarities between the construction and operational phases of the Proposed Development, these will be considered together in this chapter as the overall operational phase.

Under the current programme of the Proposed Development, the extraction phase will last for 13 - 15 years, which will provide for fluctuations in market demands for the aggregate extracted from the Site. The duration of the extraction phase is therefore classified as 'medium-term' by the EPA's 2022 'Guidelines on the information to be contained in environmental impact assessment reports'.

The restoration phase of the Proposed Development will follow the extraction phase and will be 2 - 3 years in duration, which is 'short-term' - those lasting from one to seven years (EPA, 2022).

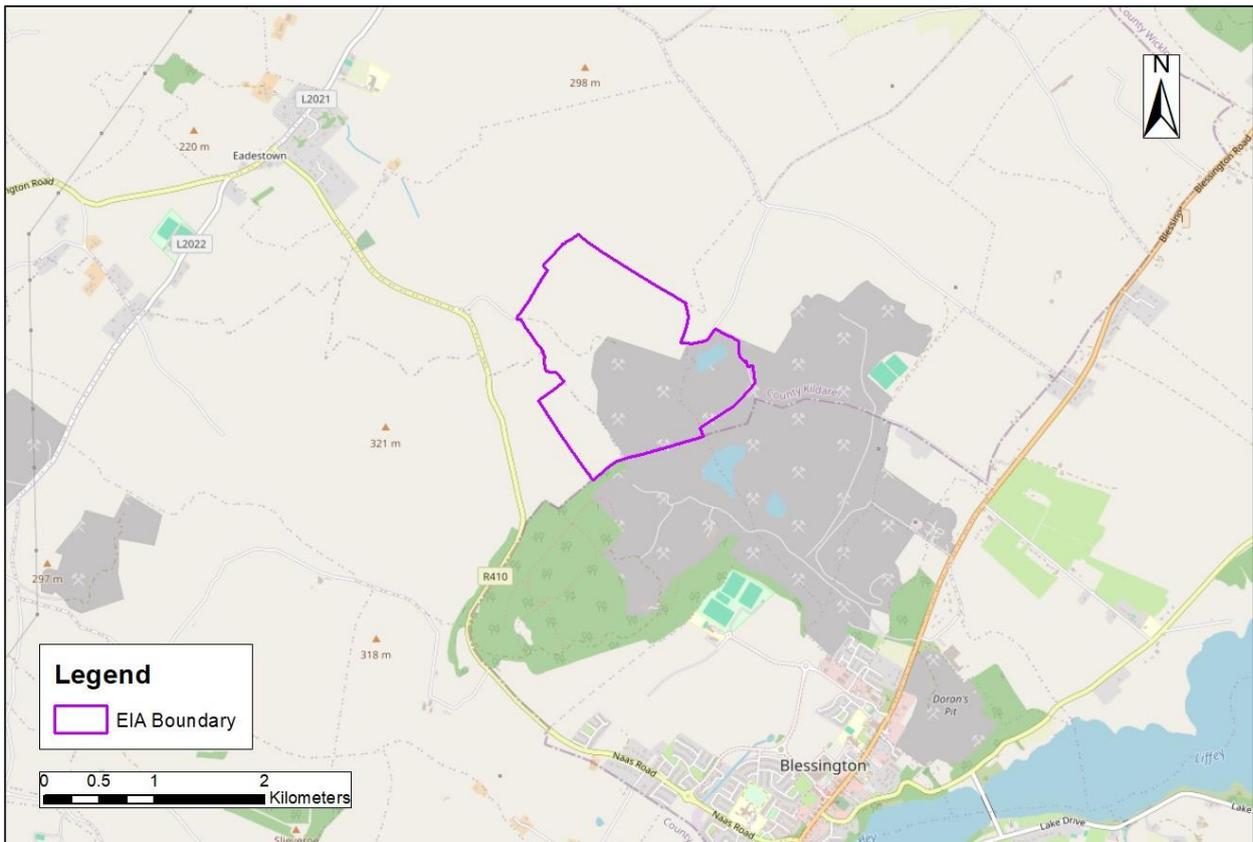


Figure 13-1 - Location of the Site (EIA site boundary).

13.2 LEGISLATIVE AND POLICY CONTEXT

13.2.1 LEGISLATION AND DEFINITIONS

Annex IV of the amended EIA Directive (2014/52/EU) requires that the developer provides a description of the factors (specified in Article 3(1)) which are likely to be significantly affected by the project, including a study of the potential impacts to material assets.

The 2014/52/EU Directive was transposed into Irish law through European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018 (SI No. 296 of 2018) which amended the Planning and Development Act, 2000, and the Planning and Development Regulations, 2001. This EIAR has been produced in accordance with these relevant legislative requirements and Statutory Instruments.

13.2.2 RELEVANT POLICIES AND PLANS

The Kildare County Development Plan 2023-2029 (KCDP) is the key strategy document which structures the proper planning and sustainable development of land-use across County Kildare over the six-year statutory time period of the plan. There is an increasing demand for aggregates and that areas for extraction of aggregates and minerals are needed in the county. To address this the Council identifies that planning policies should be carefully constructed to avoid adverse effects on aggregate resources and related extractive industries. The KCDP notes that it is necessary to ensure that aggregates can be sourced without significantly damaging the landscape, environment, groundwater and aquifer sources, road network, heritage and / or residential amenities of the area.

Kildare County Council sand and gravel extraction policies and objectives relevant to this assessment include:

- **RD P8** -Support and manage the appropriate future development of Kildare's natural aggregate resources in appropriate locations to ensure adequate supplies are available to meet the future needs of the county and the region in line with the principles of sustainable development and environmental management and to require operators to appropriately manage extraction sites when extraction has ceased.
- **RD O42** - Ensure that development for aggregate extraction, processing and associated concrete production does not significantly impact the following:
 - Special Areas of Conservation (SACs)
 - Special Protection Areas (SPAs)
 - Natural Heritage Areas (NHAs)
 - Other areas of importance for the conservation of flora and fauna.
 - Zones of Archaeological Potential.
 - The vicinity of a recorded monument.
 - Sensitive landscape areas as identified in Chapter 13 of this Plan.
 - Scenic views and prospects.
 - Protected Structures.
 - Established rights of way and walking routes.
 - Potential World Heritage Sites in Kildare on the UNESCO Tentative List, Ireland.

13.2.3 RELEVANT GUIDANCE

This assessment has been made with guidance from the ‘Guidelines on the information to be contained in environmental impact assessment reports’, published by the EPA in May 2022.

13.3 ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA

13.3.1 ASSESSMENT AIMS

As identified above, the key objectives of this assessment are to assess:

- Identification of the likely direct and indirect significant effects of the Proposed Development on the material assets in the surrounding environment.

13.3.2 EIA SIGNIFICANCE TERMINOLOGY

As identified in Chapter 1.0 (Introduction) of this EIAR, a common framework of assessment criteria and terminology has been used based on the EPA’s draft Guidelines on the Information to be Contained in EIARs (EPA, 2022). This common framework follows a ‘matrix approach’ to environmental assessment which is based on the characteristics of the impact (magnitude and nature) and the value (sensitivity) of the receptor.

The assessment reported below is based on the common framework described in Chapter 1.0 of this EIAR. It has been assumed that the value (sensitivity) of the material assets is no greater than Medium, which equates to ‘Medium or high importance and rarity, regional scale, limited potential for substitution’ (see Table 1.4 of Chapter 1.0). This sensitivity has been assumed given the importance of the assets to users surrounding the Development, and their sensitivity to potential disruption from the impaired use.

A description of the significance categories used is provided in Table 13-1. Effects that are either **Large or Profound are considered to be Significant**, and **effects that are Moderate, Slight or Imperceptible are considered to be Not Significant**. How the level of effect is determined, based on the environmental value and magnitude of impact, is explained in Section 1.6.2 of Chapter 1.0.

Table 13-1 - Significance categories and typical descriptions.

Significance Category	Typical Description
Profound	An effect which obliterates sensitive characteristics. Only adverse effects are usually assigned this level of significance. These factors are key issues in the decision-making and consent process. These effects are generally, but not exclusively, associated with sites or features of international, national or regional importance which are likely to suffer a most damaging impact and loss of resource integrity. However, a major change in a site or feature of local importance may also be included in this significance category.
Large	An effect which, by its character, magnitude, duration or intensity alters a significant proportion of a sensitive aspect of the environment. These can be beneficial or adverse effects and are considered to be very important issues which are likely to be substantial in the decision-making process.

Significance Category	Typical Description
Moderate	<p>An effect that alters the character of the environment in a manner that is consistent with existing and emerging baseline trends.</p> <p>These are beneficial or adverse effects which may be important but are not likely to be central to decision-making or consent. The cumulative effects of these factors may influence consent or decision-making if they should lead to an increase in the overall adverse effect on a particular resource or receptor.</p>
Slight	<p>An effect which causes noticeable changes in the character of the environment without affecting its sensitivities.</p> <p>These beneficial or adverse effects may be raised as local factors. They are unlikely to be critical in the decision-making process but are important in enhancing the subsequent design of the project.</p>
Imperceptible	<p>An effect capable of measurement but without significant consequences.</p> <p>No effects or those that are beneath levels of perception, within normal bounds of variation or within the margin of forecasting error.</p>

13.4 BASELINE CONDITIONS

The Application Site located in the townlands of Athgarrett, Philipstown and Redbog, Co. Kildare. The Site is located within an area of historical extraction.

13.4.1 ESB NETWORK UTILITIES

A service map was received from ESB on 06 December 2023 detailing both the layout of underground and overhead ESB lines on-site and in the locality. The received service map has been provided in Appendix 13A of this chapter.

The service map provided by ESB indicates that the Site is connected to the grid by an underground medium/low voltage cable. Premises around the site are serviced by medium and low voltage overhead lines which traverse the area to the west, east and north.

13.4.2 GAS SUPPLY

A service map was received from Gas Networks Ireland (GNI) on 04 December 2023 detailing the gas network in the area. The map indicates that there is a high-pressure transmission pipe located within the northern section of the Site.

The service map indicates that no other gas pipelines are found within the area and no premises in the surrounding area are serviced by GNI infrastructure.

These GNI service routes have been included in Appendix 13B.

13.4.3 TELECOMMUNICATIONS NETWORK

Service maps have been sourced from the Eir CBYD online mapping request portal and have been redrawn to an appropriate scale for reporting purposes, Figure 13-2. Transmission poles carry over ground services along the R410 and L6038-1. These lines service the ribbon residential

developments situated adjacent to them. No other telecommunication lines or services were identified within the Site including telecom masts or underground services.



Figure 13-2 - Telecommunication Services in the Area (EIR Service Maps, January 2024)

13.4.4 LOCAL WATER SUPPLIES AND SEWERAGE INFRASTRUCTURE

A public mains connection services the office/canteen, control rooms and welfare facilities onsite. Water is abstracted from Pond K2 onsite to service the water recycling tanks, maintenance shed (including welfare facility) and aggregate plant. The water from Pond K2 servicing the maintenance shed undergoes UV treatment in a dedicated unit at the shed.

Foul water is treated at the proprietary wastewater treatment system at the maintenance shed. Foul water is collected in holding tanks at the control room and the office/canteen and is removed off-Site regularly by an appropriately qualified and permitted contractor.

A potable water network, operated by Uisce Eireann, services houses in the locality. A service layout has been provided in Figure 13-3. The Uisce Eireann Service mapping indicate that a 300 m ductile iron main runs along the R410 west of the site and services the residential dwellings in that area. To the northeast of the Site, residential dwellings are served by HDPE and uPVC mains supplies.

Sewerage services at the same dwellings are covered by independent septic tank systems.

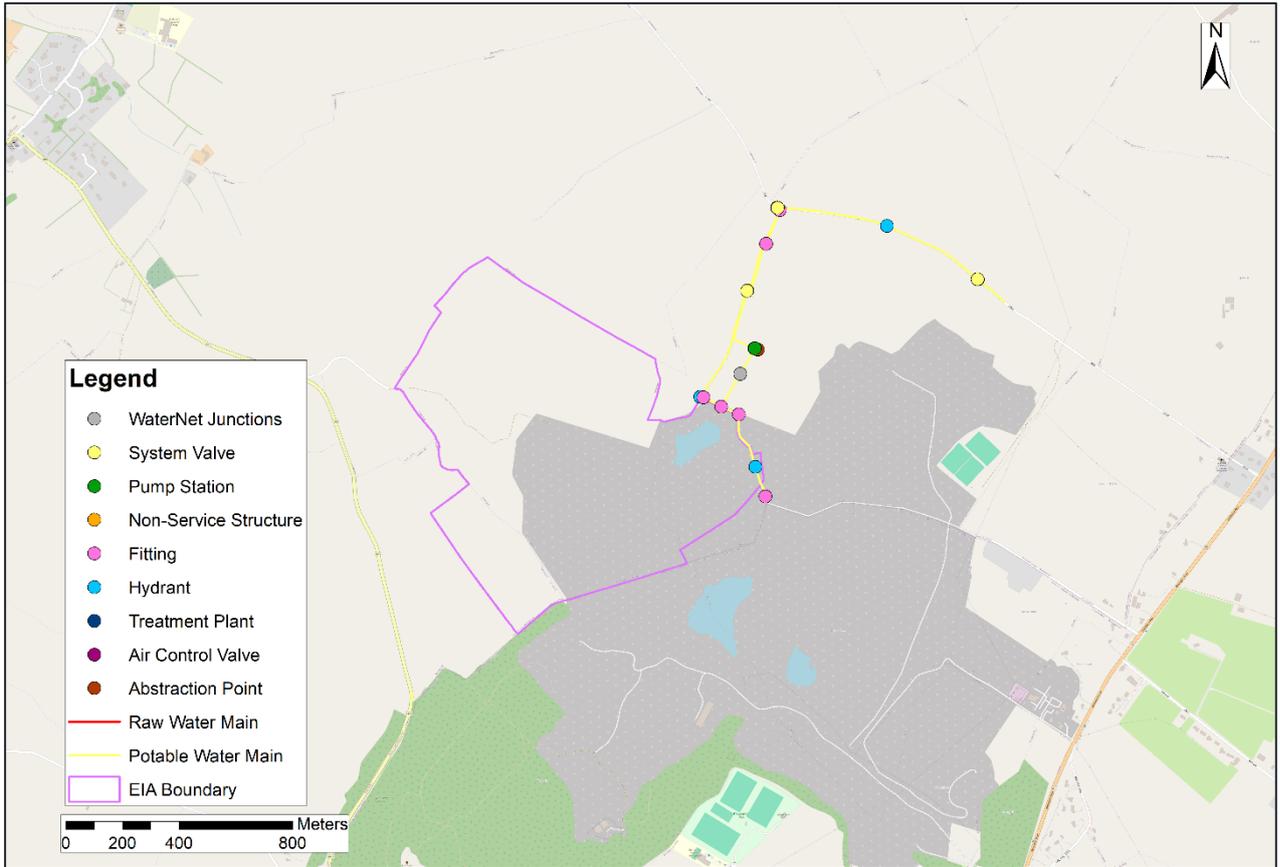


Figure 13-3 – Uisce Eireann Services in the Area.

13.4.5 SURFACE WATER DRAINAGE INFRASTRUCTURE

Lands within the Site are dominated by sand and gravel and rock extraction areas, recolonising bare ground and improved grassland fields. Currently the surface water infiltrates through the underlying soils and sub-soils.

There are no existing public surface water networks within the Site.

13.4.6 WASTE MANAGEMENT AND LOCAL WASTE INFRASTRUCTURE

Small amounts of general refuse waste are generated by the site office and staff facilities.

Waste generated onsite from servicing equipment and plant. Waste oil and other waste and parts associated with this maintenance are disposed by the service contractor.

13.4.7 GEOLOGICAL RESOURCE AND LOCAL ECONOMY

The geology of the Site is described in detail in Chapter 5.0 (Land, Soils and Geology). As outlined previously, the existing activities undertaken at the Site include the extraction of aggregate for use in the construction industry.

13.4.8 LAND RESOURCE AND LOCAL AGRICULTURE

The Site is described in detail in Chapter 2.0 (Scope and Project Description), Chapter 4.0 (Ecology and Biodiversity) and Chapter 5.0 (Lands, Soil and Geology). The EIA boundary comprises approximately 95.8 ha.

To the north and west of the Site lands are predominantly in agricultural usage with residential dwellings scattered along roads. To the south and east lands are predominantly in use by the extractive industry with an area of forestry to the southwest.

13.5 CHARACTERISTICS OF THE PROPOSED DEVELOPMENT

The EIAR has been prepared to accompany a Section 37L application for continued development of a quarry as a quarry located in the townlands of Athgarrett, Philipstown and Redbog, Co. Kildare. The lands the subject of this EIAR (EIA boundary) extend to 95.8 ha. The quarry area that makes up the application continued extraction extends to approximately 64.0 ha.

Continued activities at the Site involved the extraction of both rock (greywacke) and sand and gravel using excavation techniques, (including blasting for rock in the south of the Site). The application area holds the main pit extraction area of the quarry and a proposed northern extension (approximately 21.2 ha in total with an internal extraction area of approximately 17.7 ha) and a proposed western extension (approximately 10.2 ha in total with an internal extraction area of approximately 9.4 ha). The extraction activities are proposed to take place above the water table with dry quarrying of the sands and gravels and rock.

13.6 POTENTIAL EFFECTS

The main potential impacts and associated effects that have been considered in the assessment relate to the following:

- Activities or events that might have impacted electrical services and utilities for surrounding users;
- Activities or events that might have impacted gas services and utilities for surrounding users; including the impacts of blasting on site on gas pipelines;
- Activities or events that might have impacted telecommunications networks for surrounding users;
- Activities or events that might have impacted surface water drainage networks surrounding the Site;
- Activities or events that might have impacted water supplies and services for surrounding users; including, impacts on quality and quantity of supply for groundwater users, and the impacts of blasting on water supply pipelines;
- Activities or events that might have impacted waste water networks for surrounding users;
- Activities or events that might have impacted waste management infrastructure; and
- Activities that might have impacted geological resources surrounding the Site.

13.6.1 ESB NETWORK UTILITIES

The Proposed Development will utilise electricity supplies to the Site via an onsite connection to the grid. The Proposed Development seeks to maintain existing connections and no new connections or demands on the electrical infrastructure are proposed.

Potential impacts from the Proposed Development's continuation of quarrying on the local electrical supply network are therefore considered to be 'negligible' resulting in long term effects that are 'imperceptible'.



13.6.2 GAS SUPPLY

There are no requirements for GNI connections to service the Proposed Development. Therefore, there will be no additional supply demands on the GNI network.

The GNI service map indicates that a main high pressure transmission line exists in the north of the Site however, quarrying is not proposed to be extended into the GNI 14 m buffer area for the transmission line.

In advance of blasting operations HBL will again liaise with GNI and vibration monitor will be deployed as required to assess vibration at the transmission line. The 'Code of Practice for Working in the Vicinity of the Transmission Network' (GNI, 2021) will be considered during Site activities.

The effects of the Proposed Development on the GNI transmission lines and gas supplies is determined to be '*Imperceptible*'

13.6.3 TELECOMMUNICATIONS NETWORK

The telecommunications network will be utilised at the site office. The Proposed Development does not seek to access additional telecommunication infrastructure, nor does it seek to carry out extraction activities which may result in telecommunication infrastructure being affected.

The impact of the Proposed Development on the telecommunications network will therefore be '*Imperceptible*'.

13.6.4 LOCAL WATER SUPPLIES AND SEWERAGE INFRASTRUCTURE

No changes are proposed to the existing water abstraction process onsite.

Residential properties local to the Site, utilise both private and public water supplies. These residential dwellings use domestic septic tanks systems for wastewater.

The impact from the proposed development on the local water and sewerage supply is considered to be '*Imperceptible*'.

13.6.5 SURFACE WATER DRAINAGE INFRASTRUCTURE

As noted, surface water infiltrates through the underlying soils and sub-soils. There are no existing public surface water networks within the Site, therefore the Site will have no effect on public surface water networks.

13.6.6 WASTE MANAGEMENT AND LOCAL WASTE INFRASTRUCTURE

Waste from the Site will be managed by suitable qualified and permitted and licenced contractors. Due to the limited waste streams that is proposed to be generated it is considered that there will be an '*Imperceptible*' effect on local waste infrastructure resulting from continued Site activities.

13.6.7 GEOLOGICAL RESOURCE AND LOCAL ECONOMY

The geology of the Site is described in detail in Chapter 5.0 (Land, Soils and Geology). As outlined previously, the existing activities undertaken at the Site include the extraction of aggregate for use in the construction industry.

The Proposed Development will result in a permanent loss of the geological resource at the Site; however, this will be confined to the locality. Upon final restoration of the Site, geological exposures will be left visible in former quarry faces in the south. These exposures may offer a valuable insight



into the geology of the area which may not have been previously exposed if there was no quarrying of the Site.

Additionally, the extraction of aggregate is considered an acceptable use of the resources at the Site and material extracted from site will be used as raw materials in the construction industry. The extraction industry as a whole is a very significant industry serving the construction, industrial, agricultural and energy sectors.

Therefore, potential impacts from the Proposed Development's extraction of the geological resources and economic use is considered to be '*low (beneficial)*' resulting in effects that are '*slight*'.

13.6.8 LAND RESOURCE AND LOCAL AGRICULTURE

This proposes a lateral extension of the existing quarry void by ca. 10.2 ha in the proposed western extraction area, and ca. 21.2 ha in the proposed northern extraction area. As such, it is estimated that total of ca. 31.4 ha. of additional land will be disturbed in the course of this Proposed Development (combination of lateral void and formation of screening bunds). These lands are currently utilised as pastoral / grazing lands. As outlined in Section 13.6.7 the extraction of aggregates onsite is considered an acceptable proposed use of the resource which will benefit the economy.

With continued implementation of the current mitigation measures currently employed onsite, the Proposed Development will have an '*Imperceptible*' effect on agricultural resource in the vicinity of the Site.

13.6.9 'DO NOTHING' SCENARIO

A 'do-nothing scenario' where the Proposed Development is not granted planning permission would not result in any significant adverse effects to the material assets surrounding the Site.



Table 13-2 – Evaluation of Initial Impacts and their Effect Significance.

Receptor	Sensitivity	Source of Impact/Description of Change	Impact Magnitude	Level of Effect
Electrical Infrastructure / Utilities	Medium	Disruption to electrical supplies as a result of Site activities.	Negligible (adverse)	Imperceptible
Gas Infrastructure / Utilities	Medium	Impacts to gas supplies by consumption from Site activities.	Negligible (neutral)	Imperceptible
Gas Infrastructure / Utilities	Medium	Disruption to gas supplies and damage to the supply network as a result of Site activities, (e.g. excavation and blasting).	Negligible (adverse)	Imperceptible
Telecommunication Infrastructure / Utilities	Medium	Disruption to telecommunications networks as a result of Site activities.	Negligible (adverse)	Imperceptible
Water Supplies	Medium	Impacts to water supplies by consumption from Site activities.	Negligible (adverse)	Imperceptible
Water Supplies	Medium	Impacts to quality of surrounding water supplies (groundwater well users) from quarrying activities on Site.	Negligible to Low (adverse)	Imperceptible
Water Supplies	Medium	Impacts to quantity of surrounding water supplies (groundwater well users) from quarrying activities on Site.	Negligible to Low (adverse)	Imperceptible
Wastewater Networks	Medium	Impacts or impairment of local wastewater networks as a result Site activities or contributions.	Negligible (adverse)	Imperceptible
Waste Management Infrastructure	Medium	Impacts or impairment of local waste management infrastructure as a result Site activities generating wastes.	Negligible (adverse)	Imperceptible
Geological Resource	Medium	Use of the underlying geology used as an economic resource for aggregate and supply to the construction industry.	Low (beneficial)	Slight
Local Agriculture	Medium	Loss of agricultural land	Low (adverse)	Slight

13.7 MITIGATION MEASURES

In order to mitigate the effects associated with the potential impacts on material assets surrounding the proposed development, the following additional mitigation will take place:

- Any works required to material assets on or around the Site will be carried out in conjunction with the relevant provider to ensure minimal disruption to the existing users.
- If utility disruption is required, then prior notification of disruptions shall be given to all impacted properties. This shall include information on when disruptions are scheduled to occur and the duration of the disruption. Consultation with relevant neighbouring parties shall be undertaken prior to any proposed disruptions, as appropriate.
- Interaction with overhead utility lines in and around the site will be avoided.
- All underground services will be identified, and protection will be put in place.
- Consultation with Gas Networks Ireland (GNI) regarding any works in the lands surrounding the gas transmission line, and for future blasting at the quarry. All works will be carried out in accordance with GNI 2021 'Code of Practice for Working in the Vicinity of the Transmission Network'.

13.8 MONITORING

No specific monitoring measures are required in relation to material assets.

13.9 RESIDUAL EFFECTS

Once the identified mitigation measures, appropriate design standards and environmental management system is adhered to it is considered that there will be no residual impact on the material assets surrounding the Proposed Development.

13.10 CUMULATIVE EFFECTS

Most impacts that have been identified are mitigated by design or good practice. Impacts have been deemed in all instances to be '*Imperceptible*' or not greater than '*Slight (adverse)*'.

Assuming other developments in the area will incorporate widely adopted good design, practice and mitigation measures it is considered that there will be no significant cumulative effects of the Proposed Development with other similar developments in the locality.

13.11 DIFFICULTIES ENCOUNTERED

No particular difficulties were encountered in the preparation of this chapter of the EIAR.

13.12 SUMMARY AND CONCLUSIONS

To conclude, the activities associated with the continuation of quarrying activities are considered not to have potential to cause any significant adverse effects to the material assets surrounding the Site.



13.13 REFERENCES

EPA. 2022. Guidelines on the information to be contained in Environmental Impact Assessment Reports.

Gas Networks Ireland (2021) Code of Practice for Working in the Vicinity of the Transmission Network.

Kildare County Council (2023) Kildare County Development Plan 2023-2029.

Appendix 13A

ESB SERVICE MAP





TITLE:
20231206-024_A0

COLOUR CODE:	
	BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
	GREEN - MV(10KV/20KV) OVERHEAD LINES
	BLUE - LV (400V/230V) OVERHEAD LINES
	CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
	RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 06-Dec-2023

** SCALE: 1:2500

** SCALE WHEN PRINTED ON AN A0 PAGE
XY COORDINATES DISPLAYED IN IRISH GRID COORDINATE SYSTEM

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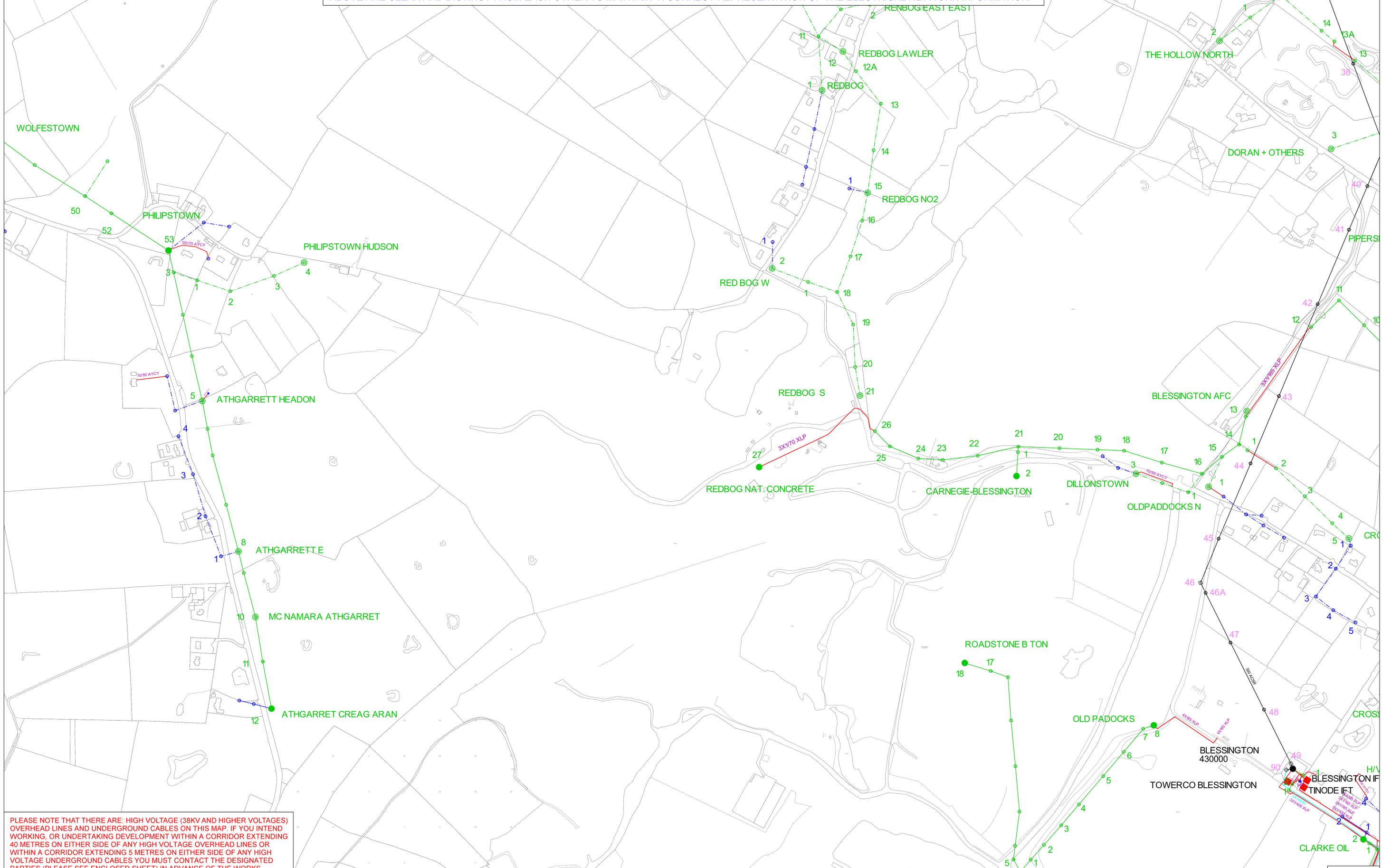
WARNING

THIS MAP INDICATES THE APPROXIMATE LOCATION OF ESB TRANSMISSION (400KV, 220KV, 110KV, 38KV) AND DISTRIBUTION (20KV, 10KV, 230V/400V) UNDERGROUND CABLES AND OVERHEAD LINES IN THE GENERAL AREA OF THE PROPOSED WORKS. ESB NETWORKS TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE MAP. IT IS THE USER'S RESPONSIBILITY TO INDEPENDENTLY VERIFY THE INFORMATION AND THE LOCATION OF UNDERGROUND CABLES AND OVERHEAD LINES. LOW VOLTAGE (230V/400V) SERVICE CABLES (E.G. HOUSE SERVICES, FACTORY/SHOP SERVICES, PUBLIC LIGHTING LAMP SERVICES, ETC) ARE NOT INCLUDED BUT THEIR PRESENCE SHOULD BE ANTICIPATED. THE DEPTHS OF UNDERGROUND CABLES MUST NEVER BE ASSUMED. ADDITIONAL MORE DETAILED INFORMATION IS AVAILABLE FOR HIGH VOLTAGE TRANSMISSION UNDERGROUND CABLES (38KV, 110KV, 220KV, 400KV) FROM THE LOCAL ESB NETWORKS TRANSMISSION REPRESENTATIVE - SEE ATTACHED LIST FOR CONTACT DETAILS OR CALL 1800 372 757. NO WORK SHOULD BE CARRIED OUT IN THE VICINITY OF 38KV OR HIGHER VOLTAGE UNDERGROUND CABLES WITHOUT PRIOR CONSULTATION WITH ESB NETWORKS. BEFORE ANY MECHANICAL EXCAVATION IS UNDERTAKEN, THE ACTUAL LOCATION OF ALL UNDERGROUND ELECTRICITY CABLES MUST BE ESTABLISHED AND VERIFIED ON THE SITE USING (A) UP-TO-DATE MAP RECORDS; (B) CABLE LOCATOR EQUIPMENT OPERATED IN BOTH POWER AND RADIO MODES; (C) CAREFUL HAND DIGGING OF TRIAL HOLES USING 'SAFE DIGGING PRACTICE'. REFER ALSO TO HSA CODE OF PRACTICE FOR AVOIDING DANGER FROM UNDERGROUND SERVICES'. ESB TAKES NO RESPONSIBILITY FOR AND SHALL BEAR NO LIABILITY, HOWSOEVER ARISING, IN RELATION TO ANY DAMAGE, INJURY/DEATH OR LOSS OF SUPPLY AS A RESULT OF DAMAGE OR INTERFERENCE WITH ITS NETWORKS.

X,Y: 295901, 217565

ESB NETWORKS HAS ISSUED THIS MAP AS A PDF DOCUMENT. IF VIEWING A PAPER VERSION OF THIS MAP, THE VIEWER MUST ENSURE THAT IT HAS BEEN PRINTED IN COLOUR TO FIT TO AN A0 (OR LARGER) PAGESIZE AND THAT EACH OF THE COLOURS INDICATED ON THE COLOUR CODE LEGEND ABOVE ARE CLEAR AND DISTINCT FROM EACH OTHER TO MAINTAIN A CORRECT REPRESENTATION OF THE ELECTRICAL NETWORK INFORMATION.

X,Y: 298802, 217565



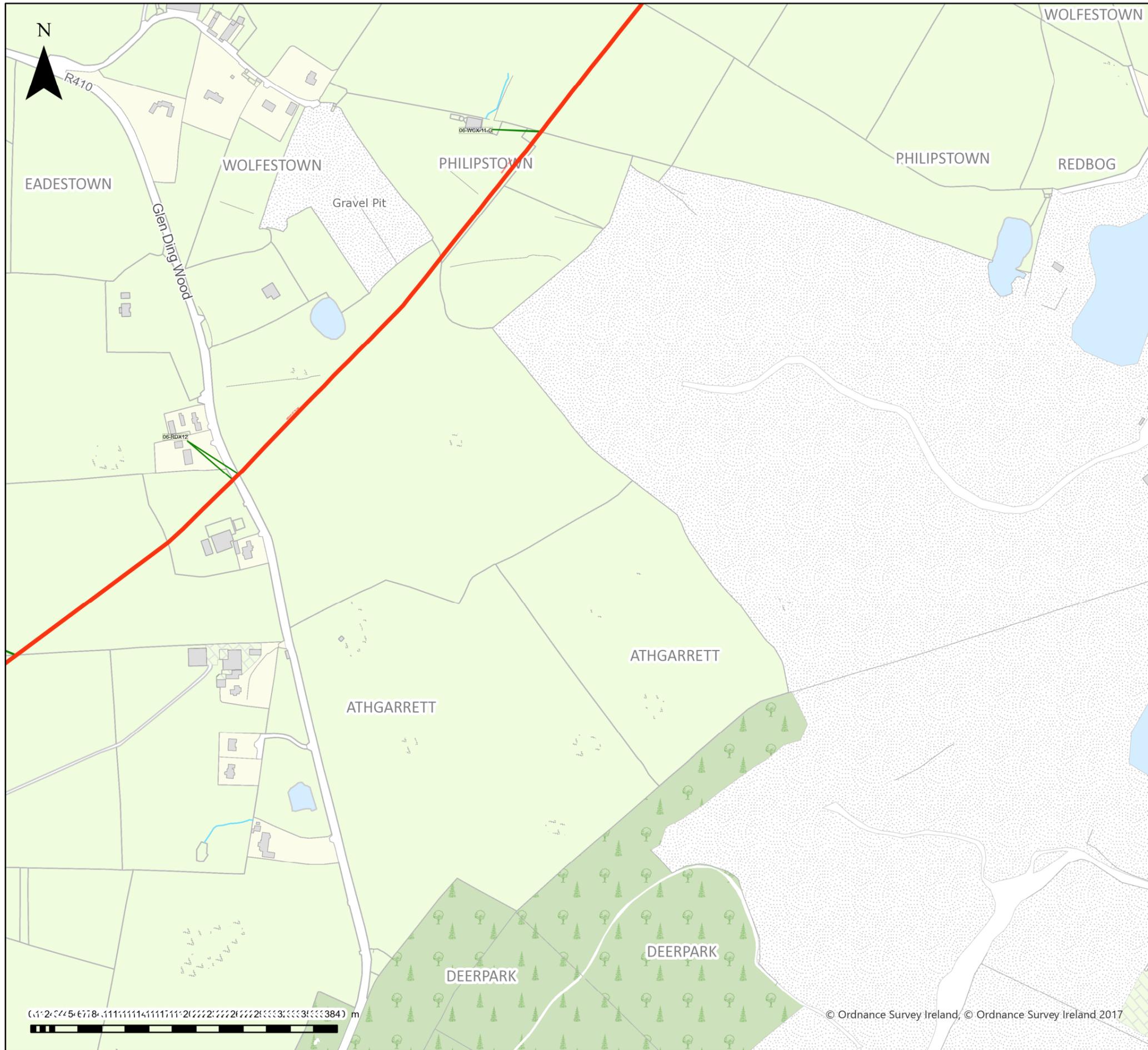
PLEASE NOTE THAT THERE ARE: HIGH VOLTAGE (38KV AND HIGHER VOLTAGES) OVERHEAD LINES AND UNDERGROUND CABLES ON THIS MAP. IF YOU INTEND WORKING, OR UNDERTAKING DEVELOPMENT WITHIN A CORRIDOR EXTENDING 40 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE OVERHEAD LINES OR WITHIN A CORRIDOR EXTENDING 5 METRES ON EITHER SIDE OF ANY HIGH VOLTAGE UNDERGROUND CABLES YOU MUST CONTACT THE DESIGNATED PARTIES (PLEASE SEE ENCLOSED SHEET) IN ADVANCE OF THE WORKS

X,Y: 298802, 215641

Appendix 13B

GAS NETWORKS IRELAND MAP





Important Safety Notice: Damage to gas pipelines can result in serious injury or death. Gas network information is provided as a general guide. The exact location and depth of medium or low pressure distribution gas pipes must be verified on site by carrying out necessary investigations, including, for example, hand digging trial holes along the route of the pipe. Service pipes are not generally shown but their presence should always be anticipated.

High pressure transmission pipelines are shown in red. If a transmission pipeline is identified within 10m of any intended excavations then work must not proceed before GNI has been consulted. The true location and depth of a transmission pipeline must be verified on site by a representative of GNI. Contact can be made through 1800 427 747.

All work in the vicinity of the gas network must be completed in accordance with the current edition of the Health and Safety Authority publication, 'Code of Practice For Avoiding Danger From Underground Services' which is available from the Health and Safety Authority (0818 289 389) or can be downloaded at www.hsa.ie.

Legal Notice: Gas Networks Ireland (GNI) and its affiliates, accept no responsibility for the accuracy of any information contained in this document including data concerning location and technical designation of the gas distribution and transmission network (the 'Information'). The Information should not be relied on for accurate distance or depth of cover measurements.

Any representations and warranties, express or implied, are excluded to the fullest extent permitted by law. No liability shall be accepted for any loss or damage including, without limitation, direct, indirect or consequential loss, arising out of or in connection with the use or re-use of the Information.

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	Aurora Telecom Duct	
	Aurora Telecom Sub Duct	
	Aurora Telecom Inserted Gas Pipe	

Aurora Telecom Queries - 01-8926166 (Office Hours)
Aurora_Network_Queries@gasnetworks.ie
Aurora Telecom Emergency Only 1800 427399 / 01 2030120

	Transmission Pipe (High Pressure)
	Transmission Pipe (Construction Issue)
	Distribution Pipe (Medium Pressure)
	Distribution Pipe (Low Pressure)
	Service Pipe (Medium Pressure)
	Service Pipe (Low Pressure)
	Strategic Pipe (Medium Pressure)
	Strategic Pipe (Low Pressure)
	Inserted
	Abandoned Pipe

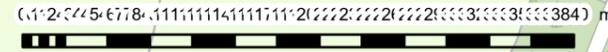
C=?	Cover (depth in metres)		Pressure Monitor
	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

** Please contact GNI on 1800-427747 for specific information

	DIAL BEFORE YOU DIG 1800 427747 In Emergency call 1800 20 50 50	
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GAS NETWORK INFORMATION

Description: test	
Location: 696684,716435	
Plot Date: 04/12/2023 14:44	Scale: 5000 @ A3
Plotted By: 6103	Ref ID: 6103_04122023144454



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Important Safety Notice: Damage to gas pipelines can result in serious injury or death. Gas network information is provided as a general guide. The exact location and depth of medium or low pressure distribution gas pipes must be verified on site by carrying out necessary investigations, including, for example, hand digging trial holes along the route of the pipe. Service pipes are not generally shown but their presence should always be anticipated.

High pressure transmission pipelines are shown in red. If a transmission pipeline is identified within 10m of any intended excavations then work must not proceed before GNI has been consulted. The true location and depth of a transmission pipeline must be verified on site by a representative of GNI. Contact can be made through 1800 427 747.

All work in the vicinity of the gas network must be completed in accordance with the current edition of the Health and Safety Authority publication, 'Code of Practice For Avoiding Danger From Underground Services' which is available from the Health and Safety Authority (0818 289 389) or can be downloaded at www.hsa.ie.

Legal Notice: Gas Networks Ireland (GNI) and its affiliates, accept no responsibility for the accuracy of any information contained in this document including data concerning location and technical designation of the gas distribution and transmission network (the 'Information'). The Information should not be relied on for accurate distance or depth of cover measurements.

Any representations and warranties, express or implied, are excluded to the fullest extent permitted by law. No liability shall be accepted for any loss or damage including, without limitation, direct, indirect or consequential loss, arising out of or in connection with the use or re-use of the Information.

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 Aurora Telecom Duct

 Aurora Telecom Sub Duct

 Aurora Telecom Inserted Gas Pipe

Aurora Telecom Queries - 01-8926166 (Office Hours)

 Aurora_Network_Queries@gasnetworks.ie

 Aurora Telecom Emergency Only 1800 427399 / 01 2030120

	Transmission Pipe (High Pressure)
	Transmission Pipe (Construction Issue)
	Distribution Pipe (Medium Pressure)
	Distribution Pipe (Low Pressure)
	Service Pipe (Medium Pressure)
	Service Pipe (Low Pressure)
	Strategic Pipe (Medium Pressure)
	Strategic Pipe (Low Pressure)
	Inserted
	Abandoned Pipe

	C=? Cover (depth in metres)		Pressure Monitor
	CP Test Point		Protection (Slabbing)
	End Cap		Protection (Sleeve)
	Hot Tap		Reducer
	Installation		Service Terminator
	Valve		Tee
	Mains Verification**		Transition

** Please contact GNI on 1800-427747 for specific information

 <p>DIAL BEFORE YOU DIG 1800 42 77 47</p> <p>In Emergency call 1800 20 50 50</p>	
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GAS NETWORK INFORMATION

Description: test	
Location: 697023,716824	
Plot Date: 04/12/2023 14:38	Scale: 5000 @ A3
Plotted By: 6103	Ref ID: 6103_04122023143829