



# Preliminary Environmental Information Report

## Volume III - Appendices

### Appendix 18A: Cultural Heritage Baseline

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (as amended)



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# 18A. Cultural Heritage Baseline

## 18.1 introduction

### Background

- 18.1.1 The purpose of the baseline assessment is to identify known heritage assets within the proposed Site boundary plus a defined Study Area. The assessment will map the location of all known heritage assets and will assess the potential for previously unrecorded heritage assets to be present. A map regression exercise and review of available geotechnical data will inform the assessment of modern disturbance and identify the potential for archaeological deposits to survive. An assessment of the significance of known and potential cultural heritage assets will be made, informed by research agendas and the results of consultation.
- 18.1.2 The information presented in this assessment will establish the current baseline conditions and inform the Preliminary Environmental Information (PEI) Report and the subsequent Environmental Statement (ES) prepared to support a development consent application for the Proposed Development.

### Site Description

- 18.1.3 The proposed Site is located on the south bank of the River Tees and comprises parts of the former Redcar Steelworks site and also includes a series of connection corridors over a wider area within Teesside for gas, electrical, water and a carbon dioxide gathering and export.

### Scheme Description

- 18.1.4 The Proposed Development, which is described fully in Chapter 4: Proposed Development (PEI Report, Volume I), comprises a combined cycle gas turbine station, electricity connections, water connections, a gathering station for carbon dioxide, and a CO<sub>2</sub> export pipeline to an offshore geological storage site in the North Sea.

### Aims

- 18.1.5 The requirement for assessment and its scope is guided by policy contained within the National Planning Policy Framework (NPPF) (MHCLG, 2012, updated 2019), specifically paragraph 189 which seeks an assessment proportionate to the asset's importance and sufficient to understand the potential impacts of development and to appraise the nature and extent of any impact upon setting and significance.
- 18.1.6 This report conforms to the requirements of the NPPF. It describes the Site, including the heritage assets within the proposed Site boundary and the Study Area, and assesses their significance and how their setting affects this significance.

#### 18.1.7 The aims of the assessment are:

- to identify designated heritage assets within the Site, connection corridors and Study Area and assess components of their setting that contribute to their significance;
- to place Power Capture and Compressor (PCC) and connection corridors within a full historic and archaeological context through the collection of baseline information;
- to identify known non-designated heritage assets within the PCC and Connection Corridors; and
- to identify the potential for previously unrecorded heritage assets within the PCC and Connection Corridors.

## 18.2 Legislation, Planning Policy and Guidance

### the Ancient Monuments and Archaeological Areas Act 1979

- 18.2.1 The Ancient Monuments and Archaeological Areas Act (1979) imposes a requirement for Scheduled Monument Consent for any works of demolition, repair, and alteration that might affect a designated Scheduled Monument.

### the Planning (Listed Buildings and Conservation Areas) Act 1990

- 18.2.2 The Planning (Listed Buildings and Conservation Areas) Act 1990 (the Act) sets out the principal statutory provisions that must be considered in the determination of any application affecting listed buildings and conservation areas.
- 18.2.3 Section 66 of the Act states that in considering whether to grant planning permission for development which affects a listed building or its setting, the local planning authority or, as the case may be, the Secretary of State shall have special regard to the desirability of preserving the building or its setting or any features of special architectural or historic interest which it possesses. By virtue of Section 1(5) of the Act a listed building includes any object or structure within its curtilage.
- 18.2.4 Section 72 of the Act establishes a general duty on a local planning authority or the Secretary of State with respect to any buildings or other land in a conservation area to pay special attention to the desirability of preserving or enhancing the character or appearance of a Conservation Area.

### National Planning Policy Framework

- 18.2.5 The National Planning Policy Framework (NPPF) (MHCLG, 2012, updated 2019) sets out the Government's planning policies for England and how these should be applied to contribute to the achievement of sustainable development. While the EIA methodology forms part of a separate planning regime, the planning decision still takes account of national guidance. As such, it is important to understand where the development fits within this.

- 18.2.6 Section 16 of the NPPF deals specifically with the historic environment. Where changes are proposed, the NPPF sets out a clear framework to ensure that heritage assets are conserved, and where appropriate enhanced, in a manner that is consistent with their significance.
- 18.2.7 The NPPF sets out the importance of being able to assess the significance of heritage assets that may be affected by a development. Significance is defined in Annex 2 as being the, “value of a heritage asset to this and future generations because of its heritage interest. That interest may be archaeological, architectural, artistic or historic”. Significance is not only derived from an asset’s physical presence, but also from its setting. The setting of a heritage asset is defined in Annex 2 as, “the surroundings in which a heritage asset is experienced. Its extent is not fixed and may change as the asset and its surroundings evolve”.
- 18.2.8 Paragraph 189 of the NPPF states that in determining applications, local planning authorities should require an applicant to describe the significance of any heritage assets affected, including any contribution made by their setting. The level of detail should be proportionate to the assets’ importance and no more than is sufficient to understand the potential impact of the proposal on their significance. Similarly, there is a requirement on local planning authorities, having assessed the particular significance of any heritage asset that may be affected by a proposal; to take this into account when considering the impact of a proposal on a heritage asset (paragraph 190).
- 18.2.9 In determining planning applications, local planning authorities should take account of the following points:
- the desirability of sustaining and enhancing the significance of heritage assets and putting them to viable uses consistent with their conservation;
  - the positive contribution that conservation of heritage assets can make to sustainable communities including their economic vitality;
  - the desirability of new development making a positive contribution to local character and distinctiveness (paragraph 192); and
  - opportunities to draw on the contribution made by the historic environment to the character of a place.
- 18.2.10 Paragraphs 193 to 197 of the NPPF introduce the concept that heritage assets can be harmed or lost through alteration, destruction or development within their setting. This harm ranges from less than substantial through to substantial. With regard to designated assets, paragraph 193 states that great weight should be placed on its conservation, irrespective of whether any potential harm is considered to be substantial or less than substantial. The paragraph goes further to say that the more important the asset, the greater the weight should be on its conservation. In paragraph 194, a distinction is made in respect of those assets of the highest significance (e.g.

Scheduled Monuments<sup>1</sup>, Grade I and grade II\* listed buildings) where substantial harm to or loss should be wholly exceptional.

- 18.2.11 In instances where development would cause substantial harm to or the total loss of significance of a designated asset consent should be refused unless it can be demonstrated that it is necessary to achieve substantial public benefits that outweigh that harm or loss (paragraph 195). In instances where development would cause less than substantial harm to the significance of a designated asset the harm should be weighed against the public benefits of the proposal to provide a balanced judgment (paragraph 196).
- 18.2.12 With regard to non-designated assets, paragraph 197 states that the effect of the application on the significance of the asset should be taken into account in determining the application. A balanced judgement will be required having regard to the scale of any harm or loss and the significance of the heritage asset.

### National Policy Statement (NPS) For Energy EN-1

- 18.2.13 The NPS EN-1 (DECC, 2011) sets out the government's overarching policy statement for energy. With regard to the Historic Environment the NPS provides a series of requirements and recommendations for the appropriate level of assessment of energy proposals that have the potential to impact upon the historic environment, and decision-making policies. These accord with the policies outlined in the NPPF.

### Planning Practice Guidance

- 18.2.14 The Planning Practice Guidance (PPG) (Ministry of Housing, Communities and Local Government, 2019) provides further advice and expands on the guidance and policy outlined in the NPPF.
- 18.2.15 Significance of heritage assets and its importance in decision taking is explored in Paragraph 007 of the PPG which states that heritage assets may be affected by direct physical change or by change in their setting. Being able to properly assess the nature, extent and importance of the significance of a heritage asset, and the contribution of its setting, is very important to understanding the potential impact and acceptability of development proposals (ID 18a-007-20190723 Last updated 23 07 19).
- 18.2.16 The setting of the heritage asset is also of importance and a thorough assessment of the impact on setting needs to take into account, and be proportionate to, the significance of the heritage asset under consideration and the degree to which the proposed changes enhance or detract from that significance and the ability to appreciate it. The extent and importance of setting is often expressed by reference to visual considerations. Although views of or from an asset will play an important part, the way in which an asset is experienced in its setting is also influenced by other environmental factors such as noise, dust and vibration from other land uses in the vicinity, and by our understanding of the historic relationship between places.

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<sup>1</sup> Footnote 63 of the NPPF extends this classification to those heritage assets which are demonstrably of equivalent significance to Scheduled Monuments, but which are currently non-designated.

- 18.2.17 Paragraph 013 of the PPG recognises that the contribution that setting makes to the significance of the heritage asset does not depend on there being public rights of way or the ability to experience that setting. When assessing any application for development which may affect the setting of a heritage asset, local planning authorities may need to consider the implications of cumulative change (ID 18a-013-20190723 Last updated 23 07 2019).
- 18.2.18 The PPG discusses how to assess harm to heritage assets, noting that there may be no harm, less than substantial harm, or substantial harm. Paragraph 18 states that within each category of harm the extent of harm may vary, and this should be clearly articulated. Ultimately, whether a proposal causes substantial harm will be a judgement for the decision-maker. However, the PPG acknowledges that substantial harm is a high test so may not arise in many cases. A key consideration when assessing whether there is an adverse impact on a listed building is whether the adverse impact seriously affects a key element of its special architectural or historic interest. It is the degree of harm to the asset's significance rather than the scale of the development that is to be assessed (Paragraph: 018 Reference ID: 18a-018-20190723 Last updated 23.07.2019).

### Local Planning Policy

- 18.2.19 The Redcar and Cleveland Local Plan was adopted May 2018. Policies relating to cultural heritage that are relevant to this assessment include HE 1 Conservation Areas, HE 2 Heritage Assets and HE 3 Archaeological Sites and Monuments.
- 18.2.20 Policy HE 1 states that development within or affecting the setting of a conservation area will only be permitted where it preserves or enhances the character or appearance of the area.
- 18.2.21 Policy HE 2 deals with designated and non-designated heritage assets and states that development will only be permitted if it preserves or enhances the significance of a designated asset, including its setting. For non-designated assets the policy states that those assets that are demonstrably of equivalent significance to scheduled monuments would be considered subject to the policies for designated assets. Where a development proposal will lead to less than substantial harm to the significance of a designated asset, it will only be permitted where that harm is outweighed by the public benefits of the proposal. Development that would result in substantial harm or total loss of a non-designated asset or its setting would require the applicant to demonstrate that the benefits outweighed the harm or loss.
- 18.2.22 Policy HE 3 aims to make sure that important archaeological sites, whether scheduled or not, are protected from inappropriate development. The policy states that development that would adversely affect designated sites and monuments, including their setting, will only be approved in exceptional circumstances.



18.2.23 The Stockton-on-Tees (2019) Local Plan was adopted January 2019. One policy relating to cultural heritage is relevant to this assessment; HE2 Conserving and Enhancing Stockton's Heritage Assets.

18.2.24 Policy HE2 outlines that the council will support applications that positively respond to and enhance heritage assets. It states that where a proposal will lead to harm to designated or non-designated heritage assets, including through change to their settings, the proposal will be considered in line with Policy SD8 Sustainable Design Principles, other Development Plan policies, and the NPPF. Loss of a heritage asset in whole or in part will only be permitted if the council are satisfied that new development will proceed after the loss. For non-designated assets the policy states that those assets that are demonstrably of equivalent significance to scheduled monuments would be considered subject to the policies for designated assets.

### Historic England Guidance

18.2.25 Historic England has published a series of Good Practice Advice (GPA) of which those of most relevance to this appraisal are GPA2 - Managing Significance in Decision-Taking (March 2015; Historic England, 2015), Advice Note 12 Statements of Heritage Significance (October 2019; Historic England, 2019b), and GPA3 - The Setting of Heritage Assets (2nd edition December 2017; Historic England, 2017).

18.2.26 GPA2 emphasises the importance of having a knowledge and understanding of the significance of heritage assets likely to be affected by the development and that the "first step for all applicants is to understand the significance of any affected heritage asset and, if relevant the contribution of its setting to its significance" (paragraph 4). Early knowledge of this information is also useful to a local planning authority in pre-application engagement with an applicant and ultimately in decision making (paragraph 7).

18.2.27 Advice Note 12 outlines a recommended approach to assessing the significance of heritage assets in line with the requirements of NPPF. It includes a suggested reporting structure for a 'Statement of Heritage Significance', as well as guidance on creating a statement that is proportionate to the asset's significance and the potential degree of impact of a proposed development.

18.2.28 The Advice Note also offers an interpretation of the various forms of heritage interest that an asset can possess, based on the terms provided in the NPPF Glossary (Annex 2: Glossary) as follows:

- archaeological interest – there will be archaeological interest in a heritage asset if it holds, or has the potential to hold, evidence of past human activity worthy of expert investigation at some point.
- architectural and artistic interest – these are interests in the design or general aesthetics of a place. They can arise from conscious design or fortuitously from the way the heritage asset has evolved. More specifically, architectural interest is an interest in the art or science of the design, construction, craftsmanship and decoration of buildings and

structures of all types. Artistic interest is an interest in other human creative stills, such as sculpture.

- historic interest – an interest in past lives and events (including pre-historic). Heritage assets can illustrate or be associated with them. Heritage assets with historic interest not only provide a material record of our nation's history but can also provide meaning for communities derived from their collective experience of a place and can symbolise wider values such as faith and cultural identity.

18.2.29 GPA3 provides advice on the setting of heritage assets (setting). Setting is as defined in the NPPF and comprises the surroundings in which a heritage asset is experienced. Elements of a setting can make positive or negative contributions to the significance of an asset and affect the ways in which it is experienced. Historic England state that setting does not have a boundary and what comprises an asset's setting may change as the asset and its surrounding evolve. Setting can be extensive and particularly in urban areas or extensive landscapes can overlap with other assets. The contribution of setting to the significance of an asset is often expressed by reference to views and the GPA in paragraph 11 identifies those views that contribute to understanding the significance of assets, such as views that were designed or intended.

### Chartered Institute For Archaeologists

18.2.30 This baseline study has been undertaken in accordance with guidance published by the Chartered Institute for Archaeologists (CIfA), specifically the standard and guidance for historic environment desk-based assessment (CIfA, 2017).

## 18.3 Assessment Methodology

### Data Sources

18.3.1 This assessment has collated cultural heritage data from a number of sources, including:

- Tees Archaeology Historic Environment Record (HER) for information relating to non-designated heritage assets and fieldwork events;
- Redcar and Cleveland HER for information relating to non-designated heritage assets and fieldwork events;
- National Heritage List for England (NHLE) for designated heritage assets datasets (Historic England, 2019a);
- Ordnance Survey historic mapping data;
- Teesside archives in Middlesbrough for further historic mapping and documentary sources;
- National Collection of Aerial Photographs for aerial photographs;
- the results of previous archaeological assessment and investigations;
- the results of previous geotechnical investigations;

- local authority data including conservation area appraisals and buildings on the local list; and
- online sources, including British Geological Survey <https://www.bgs.ac.uk/> for geotechnical borehole and geological data.

18.3.2 The designated heritage assets within this assessment are identified with their National Heritage List for England (NHLE) reference number (Historic England, 2019a). The non-designated heritage assets are identified with their HER reference number. All assets are identified within the text and are located on Figures 18-1: Location of designated heritage assets in the 5 km Study Area and 18-2: Location of non-designated heritage assets in the 1 km Study Area (PEI Report, Volume II). The full gazetteer of heritage assets will be included within the final ES.

### Study Areas

- 18.3.3 The Study Area has been defined to include areas where it is considered that there is potential for significant impacts on cultural heritage assets arising from the construction and future operation phases of the Proposed Development.
- 18.3.4 The Study Area for designated heritage assets is defined initially as a 5 km zone from the proposed Site boundary in order to capture changes to the setting of heritage assets that may result in an impact to their heritage value. However, the Study Area is not fixed. Assets beyond the Study Area are included in the assessment where the site walkover and review of the Zone of Theoretical Visibility (see Figure 17-4: Zone of Theoretical Visibility and Potential Viewpoint Locations, PEI Report Volume II) suggest that their setting may change as a result of the construction, operation and decommissioning phases of the Proposed Development.
- 18.3.5 The Study Area for non-designated assets is defined as a 1 km zone from the proposed Site boundary. This Study Area was deemed appropriate to provide the archaeological context of the PCC and its surroundings in order to predict the likely nature of archaeological remains that may exist within the Site.

### Site Visit

- 18.3.6 The information gathered from the data sources listed above has been supplemented by information gathered from a walkover of the Study Area. A site visit and visual appraisal of heritage assets within the Study Area were undertaken on 19th September 2019. The aims of the site visit were to:
- identify known heritage assets within the PCC and Connection Corridors;
  - identify historic buildings and related assets including listed buildings, conservation areas and locally listed buildings within the application site and its surrounding Study Area;
  - Identify areas with the potential to contain any previously unidentified archaeological or historical remains;



- Identify and assess the setting of heritage assets within the Study Area; and
- Identify the location, extent and severity of modern ground disturbance and previous construction impacts.

## Consultation

- 18.3.7 Pre-application consultation has been carried out with Historic England and Redcar and Cleveland Council. A summary of consultation undertaken in the preparation of this assessment is set out in Table 18A-1.

## Assessment of Archaeological Potential

- 18.3.8 The potential for an area to contain archaeological remains is rated 'high', 'medium', 'low', 'negligible', or 'unknown'. This rating is based on an understanding of the archaeological resource as a whole and its national, regional and local context. This includes the number, proximity and significance of known and predicted archaeological/historical sites or find spots within the proposed Site boundary and its surrounding Study Area.

## Previous Ground Disturbance

- 18.3.9 The proposed Site boundary including connection corridors are located on land that has seen a degree of previous development. A visual appraisal of these areas plus a review of available geotechnical data has allowed an assessment of the extent of impact caused by previous development. The potential impact to buried archaeological remains caused by historic development has been assessed using a five-point scale of 'very high', 'high', 'medium', 'low' and 'very low', the definitions of which are set out in Table 18A-2.
- 18.3.10 Each identified heritage asset can be assigned a value in accordance with the criteria set out in Table 18A-3. This table provides guidance, but professional judgment will be applied in all cases regarding the appropriate category for individual heritage assets. Where it is assessed that an asset is of greater or lower value than noted in the guidance table, justification will be provided. For example, the nature and character of conservation areas varies greatly, and the special character of these areas comes not only from the quality of their buildings but also from elements that provide value and character to the wider landscape. In consideration of this, conservation areas feature in both the High and Moderate asset categories and professional judgement has been applied in order to determine to which asset category a conservation area belongs.

**Table 18A-1: Summary of Consultation Events**

| Consultee  | Date (method)  | Consultee comment   | Action  |
|--|--|---|---|
| PINS   | Scoping opinion  | Receptors should be identified relative to entire proposed Site boundary, not just the PCC. Response noted conservation areas in the area including Kirkleatham, Coatham, Wilton and Yearby. Assessment should address potential for changes to setting of Eston Nab scheduled monument. ES should consider impacts to marine heritage. | Baseline has included assets within Study Area of entire site i.e. Connection Corridors not just the main site. Settings of conservation areas and scheduled monuments within the Study Area have been assessed or scoped out following walkover survey.<br><br>Impacts to marine receptors are assessed in Chapter 19: Marine Heritage (PEI Report, Volume I). |
| Robin Daniels<br>Tees<br>Archaeology   | 14.01.20<br><br>Email from AECOM setting out scope of baseline assessment and identifying principal issues | Responded with reference to baseline information (Tees Archaeology Desk Based Assessment (DBA)) relevant to Study Area.   | AECOM has included the baseline information within the baseline study.  |
| Tim Brown<br>Conservation<br>Office Redcar and<br>Cleveland<br>Borough Council<br>(RCBC) | 15.01.20<br><br>Email from AECOM setting out scope of baseline assessment and identifying principal issues | No response   | TBC for ES  |
| Neil Cookson,<br>Archaeological<br>Advisor to<br>RCBC                                    | 15.01.20<br><br>Email from AECOM setting out scope of baseline assessment and identifying principal issues | No response   | TBC for ES  |

**Table 18A-2: Level of Ground Disturbance**

| Magnitude of previous disturbance | Description   |
|-----------------------------------|---|
| Very High                         | Deep level basement/sub-basement excavated into the underlying natural geology resulting in the removal of all subsurface archaeological deposits.  |
| High                              | Extensive and deep disturbance resulting in the removal of all but the deepest archaeological deposits such as wells or quarry pits, deep foundations, quarrying and large utilities.   |
| Medium                            | Moderate previous disturbance which may extend to some depth, but where there remains the potential for archaeological remains to survive either between or beneath existing impact levels such as building foundations and utility trenches. |
| Low                               | Shallow previous disturbance such as areas of car parking and surfacing where archaeological remains may survive with limited truncation beneath the level of impact.   |
| Very Low                          | No known historic development impacts to subsurface archaeological remains. Potential for the survival of archaeological horizons from Prehistory to the Post-medieval period.  |

**Table 18A-3: Level of Ground Disturbance**

| Value      | Criteria   |
|------------|--|
| High       | Grade I and Grade II* Listed Buildings<br>Grade I and Grade II* Registered Parks and Gardens<br>Scheduled Monuments<br>Conservation Areas (as appropriate)<br>Non-designated heritage assets that can be shown to have demonstrable national or international importance |
| Medium     | Grade II listed Buildings<br>Grade II Registered Parks and Gardens<br>Conservation Areas (as appropriate)<br>Locally listed buildings included within a conservation area<br>Non-designated heritage assets of regional resource value                                   |
| Low        | Non-designated heritage assets of a local resource value as identified through consultation<br>Locally listed buildings<br>Historic landscape character areas whose value is limited by poor preservation and/or poor survival of contextual associations                |
| Negligible | Assets whose values are compromised by poor preservation or survival or of contextual associations to justify inclusion into a higher grade.<br>The site of a former asset removed from its place and with no surviving contextual associations                          |

## Limitations and Assumptions

- 18.3.11 This baseline assessment is based on a red line boundary and Study Area that was fixed for data capture. Subsequent to this, the red line boundary reduced in size and the Study Area contracted accordingly. As a result, therefore the gazetteer contains some assets that are located outside of the current Study Area.
- 18.3.12 The majority of the proposed Site boundary comprises hardstanding and existing utility infrastructure which would impede certain archaeological evaluation methods. As such, a walkover survey and visual assessment has been carried out, however, non-invasive techniques such as a geophysical survey have not been carried out as part of this baseline assessment.
- 18.3.13 The blast furnace within the former steelworks is located within the proposed Site boundary. It is assumed that while the blast furnace may be dismantled there will be no physical impacts to the structure as a result of the construction or operation of the Proposed Development.

## 18.4 Site Baseline Conditions

### Overview

- 18.4.1 There are no scheduled monuments, protected wrecks, registered parks and gardens, or conservation areas within the proposed Site boundary.
- 18.4.2 There are six listed buildings located within 200 m of the proposed Site boundary. These comprise Grade II\* listed Old Farmhouse and garden wall (NHLE 1139659) and an associated byre barn (NHLE 1329613) and stable range (NHLE 1159438), both of which are Grade II listed. This group of buildings is located along Crow Lane to the north-east of Old Lackenby.
- 18.4.3 The baseline assessment has identified 568 designated heritage assets within the 5 km Study Area. Designated assets mentioned in the baseline are prefixed with 'NHLE'. The assets include 26 scheduled monuments, one registered park and garden and one protected wreck. The number of designated assets also include 536 listed buildings, of which 12 are Grade I listed, 40 are Grade II\* listed and 484 are Grade II listed.
- 18.4.4 The majority of listed buildings are concentrated within areas of existing settlement and particularly within conservation areas, of which there are four within the Study Area. The location of designated assets is shown on Figure 18-1 (PEI Report, Volume II).
- 18.4.5 There are 363 non-designated assets within the 1 km Study Area. Of this number, 95 are located within the STDC Site red line boundary and Connection Corridors, and include standing structures and sites of former buildings, potential archaeological features and archaeological find spots. The location of the non-designated assets is shown on Figure 18-2 (PEI Report, Volume II).

## Site Topography and Geology

- 18.4.6 The topography of the proposed Site boundary is generally flat, which reflects the geomorphology of the River Tees and its tributaries. The bedrock geology at the proposed Site boundary comprises Redcar Mudstone Formation with Mercia Mudstone and Sherwood Sandstone to the north of the proposed Site boundary and extending towards the Tees River. Superficial geology across the proposed Site boundary comprises tidal flat deposits of sand and silt and windblown sand deposits to the north of the Site.

## Paleoenvironmental Potential

- 18.4.7 At least three glacial episodes affected the region during the Pleistocene, and at the end of each glacial period the climate would have warmed, resulting in surface processes that would have significantly modified the landscape. Human activity occurred at the limits of the ice sheets during the interglacial periods, and archaeological material discarded within the limits of the glacier would have been incorporated within the tills and glacio-fluvial deposits left behind. During the warmer periods rivers eroded and then redeposited large quantities of glacial material in major valleys. Subsequent rivers incised into this material and created terraces of older river terrace sand and gravel deposits, while more recent alluvium accumulated on the low-lying ground immediately surrounding and within the river channels. Alluvium deposits can overlie or contain earlier archaeological remains and palaeoenvironmental data which could provide information about previous environments.
- 18.4.8 A palaeochannel located between South Gare and Coatham Rocks has been recorded adjacent to the Site boundary and just beyond the northern edge of the Study Area (6396). The palaeochannel represents an earlier course of the River Tees, or one of its tributaries, and has the potential to contain palaeoenvironmental data which could provide important evidence relating to the environmental conditions of the area during the early prehistoric period.
- 18.4.9 Despite not being recorded in available borehole data, there is potential for organic material such as peat to be present within the alluvium deposits that are present on either side of the estuary and along the coastline.

## 18.5 Archaeological and Historical Background of the Study Area

### Palaeolithic – Up To 10,000 BC

- 18.5.1 The Palaeolithic period in Britain saw several changes in the environment, comprising glacial (cold periods) and interglacial (warm periods). As the ice sheets retreated during the warmer interglacial periods, humans would have been able to travel through the area and would have represented the periphery of human settlement within Britain.

- 18.5.2 Palaeolithic activity is represented in the archaeological record by concentrations of worked flints, particularly around the confluence of rivers, as these intersections were important places for transport and communication systems<sup>2</sup>. Flint as a raw material can be manipulated easily to form sharp tools, such as axes and spear heads, and therefore the identification and interpretation of flint tools provides most of our understanding of this period. The only known asset from this period within the Study Area comprises a worked flint tool (6212) which is dated to the Lower Palaeolithic period and was found at South Gare. It is suggested from the Redcar and Cleveland HER description that the item had washed out of a submerged layer and was deposited upon the beach.
- 18.5.3 The River Tees floodplain would have provided a suitable environment for hunting, and it is likely that the proposed Site boundary was located on marshy land on the edge of the channel. The profile of the river has changed significantly as a result of large-scale land reclamation and while it is likely that any archaeological evidence associated with estuarine water edge activities has been lost, there remains a potential for deeply buried deposits containing palaeoenvironmental data to be present.

### Mesolithic 10,000 – 3,500 BC

- 18.5.4 The Mesolithic period is typified by the change in technology to smaller, more-refined stone artefacts called microliths, and the change from early Holocene hunter-gatherer societies which hunted large game, to a society that exploited a wider range of resources. The material record is largely represented by collections of worked flints and evidence of tool making for hunting activities, with limited evidence for how people lived. Towards the end of the period, groups became more settled, leading into the transition to the Neolithic period.
- 18.5.5 During this period, the Tees Estuary was occupied by extensive saltwater marsh and would have been a focal point for hunting and fishing activities<sup>3</sup>. Intertidal peat beds and a submerged forest dating from the mid-Holocene (Late Mesolithic), along with evidence of Mesolithic occupation<sup>4</sup>, have been recorded to the north of the Tees Estuary along the coast at Hartlepool and Seaton Carew. Intertidal peat beds have also been recorded at Redcar at exceptionally low tides and a rapid appraisal of wood remains and tree stumps identified possible tool marks and evidence of coppicing<sup>5</sup>.
- 18.5.6 There are no known assets from this period within the Study Area. In common with other areas, the material record beyond the Study Area is represented by collections of worked flints and evidence of tool making from hunting activities with limited evidence for how people lived.

<sup>2</sup> Lang, A. and Buteux, S. (2007), *Lost but not forgotten: the Lower and Middle Palaeolithic occupation of the West Midlands*. in Garwood, P. ed., *the Undiscovered Country: the Earlier Prehistory of the West Midlands*

<sup>3</sup> Daniels, R. (2014), *An introduction to the Archaeology and Heritage of the River Tees Rediscovered Landscape Partnership Area*. Tees Archaeology.

<sup>4</sup> Batchelor, C., R. & Green, C., P. (2012), *A Report on the geoarchaeological deposit modelling on land at the Teesside Renewable Energy Plant Site*. Quaternary Scientific unpublished report.

<sup>5</sup> Carter, S., D. (2014), *intertidal Prehistoric Peat Beds at Redcar, North-East England*, in Teescapes



## Neolithic and Bronze Age

- 18.5.7 The Neolithic period is defined by advances in agricultural technologies and the emergence of a range of substantial material culture including monumental architecture, ceramics, and evidence for complex mortuary rituals. The period is also typified by the presence of settled communities in the landscape and the emergence of farming. The only asset dating to this period to have been identified within the proposed Site boundary comprises 'Coatham Man' on Redcar Beach (6798). The human remains consisted of fragments of skull and were radiocarbon dated to the Early Neolithic.
- 18.5.8 Neolithic monuments have been recorded beyond the Study area in the upland areas of the North-East, and polished stone axes have been found in Yarm and Preston beyond the Study Area. Within the Study Area three stone axes have been found, two near to Kirkleatham (1002 and 1066) and one at Maggitts Lane between Dormanstown and Kirkleatham (2848).
- 18.5.9 The Bronze Age in the archaeological record is mostly represented in the region by funerary monuments, with settlement sites being comparatively rare. There are no assets from this period within the Site, but there are several assets in the 1 km and 5 km Study Areas. Archaeological excavation in the Eston Hills has recorded activity on the hilltop dating to the Early Bronze Age, and the funerary monuments present on the hill date to this period, the majority of which are scheduled monuments. The settlement at Eston Nab (NHLE 1011273), a palisaded settlement and also a scheduled monument, are dated to the Late Bronze Age although archaeological excavation has identified activity within the proposed Site boundary dating to the Early Bronze Age. The hillfort is a rare regional example of a settlement site from this period and the only surviving hillfort in the county of Cleveland.
- 18.5.10 The hillfort on Eston Nab is well preserved and although it has been subject to partial excavation, the extent of disturbance is relatively limited and its archaeological deposits remain largely intact. Its immediate setting is dominated by the remnants of its outer defensive circuit and by its visually prominent position on the escarpment. The importance of its highly visible location is reinforced by the site's later 19th century use as a beacon. The monument's setting is also defined by its position within a remnant prehistoric landscape and its association with contemporary settlement and funerary monuments within the historic landscape of Eston Hills.
- 18.5.11 The hillfort on Eston Nab is the only surviving hillfort of any date in Cleveland; the potential archaeological evidence and the information it could provide relating to Bronze Age settlement and activity in the area could increase knowledge of Bronze Age society and contributes to its value.
- 18.5.12 Further evidence for domestic settlement and crop growing is suggested by a complete saddle quern stone<sup>6</sup> (3404) and animal remains (4870) which were found in the Study Area, approximately 300 m south of the Site.

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<sup>6</sup> A stone used for grinding corn

## Iron Age 700 BC – AD 43

- 18.5.13 During this period, this area of Britain was within the territory of the Brigantes tribe. Recent research in the Tees Valley has identified the Iron Age settlers as comprising a discrete cultural group within the larger Brigantes tribe, with a cultural identity that was distinctly different to the tribes to the north and south of the valley<sup>7</sup>.
- 18.5.14 There are no known assets from this period within the Site, but there is evidence of Iron Age domestic settlement in the Study Area, including a farmstead at Foxrush Farm in Dormanstown (159), approximately 580 m east of the proposed Site boundary and part of a beehive quern stone found at Kirkleatham (1043) approximately 750 m from the Site. This archaeological evidence demonstrates that the valley and floodplain of the River Tees continued to be used for settlement and crop growing. Other evidence within the Study Area relates to chance finds, including a bronze bracelet (238) found in a field near Yearby approximately 1 km from the Site. The hillfort at Eston Nab continued to be in use during this period and archaeological excavations confirmed that the fort was enlarged substantially in the mid-5th century BC<sup>8</sup>.

## Roman

- 18.5.15 The Brigantes tribe, and their leader Queen Cartimandua, were supporters of the Romans during the early years following the invasion, however, this changed after AD 69. Venutius, the former husband of Cartimandua, led a successful rebellion against her and assumed control of the now anti-Roman Brigantes. The Roman Ninth Legion was marched from Lincoln to face the Brigantes and Venutius was eventually defeated following a series of campaigns between AD 71-74, with the last stand of the Brigantes posited as the Iron Age stronghold of Stanwick, near Darlington<sup>9</sup>.
- 18.5.16 The most tangible evidence of the Roman presence is often marked by the road network and the presence of military establishments. However, there are no major roads or forts in the Study Area and the nearest known route is the road from Barmby on the Moor to Durham. The site of a purported route, Cleveland Street, which runs from possibly Girsby to Huntcliffe signal station on the coast, does pass through the southern part of the Study Area, however, there is no substantive evidence to confirm the route as Roman<sup>10</sup>.
- 18.5.17 The Roman army had total control of north Yorkshire and the north-east of England by the early part of the 2nd century AD. This resulted in very little real change for the Iron Age farming communities of the Teesside area, and the archaeological record demonstrates that local traditions and building styles, such as the building of roundhouses, continued throughout this period.
- 18.5.18 There are two known assets from this period within the proposed Site boundary which suggest domestic settlement. These comprise pottery

<sup>7</sup> Sherlock, S., (2012) Late Prehistoric Settlement in the Tees Valley and North-East England

<sup>8</sup> Tees Archaeology, (2002), *Iron Age Teesside*.

<sup>9</sup> Phillips, J., and Rowe, P., (2004), *Roman Teesside*. Tees Archaeology Publication.

<sup>10</sup> <http://www.romanroads.org/yorkshiregazetteer.html> [accessed 10 January 2020].



fragments, including mortaria from kitchen vessels, found at Lackenby (1079), approximately 32 m from the Site and during excavation of the Lackenby gas pipeline near Greystone Road (1573). In the Study Area, further evidence of Roman activity comprises the site of an enclosure at Saltholme near Cowpen Bewley (9068), a coin hoard (463) near Wilton Castle, a brooch (4857) found in Eston and another fragment of mortaria from the walled garden in Kirkleatham (7201). Archaeological sites beyond the Study Area, such as at Catcote in Hartlepool, demonstrate that Romano-British communities had established extensive trade networks throughout the region and along the east coast of the country<sup>11</sup>.

## Early Medieval AD 450 – 1066

- 18.5.19 The early medieval period is one of the least archaeologically visible across Britain, but the historical and documentary evidence suggests a period of intense activity in a landscape that was closely-settled and developed. It was during this period that new settlements and settlement patterns emerged, many churches and towns were established, field systems changed and open-field agriculture was introduced.
- 18.5.20 The majority of the evidence relating to settlement during this period is linked to place name evidence that has Anglo-Saxon and Scandinavian origins, such as Eston which derives from Anglo-Saxon for 'settlement to the east', Lackenby which is 'Lochlan's farm' in Scandinavian and Lazenby which translates as 'settlement of freemen' in Scandinavian<sup>12</sup>.
- 18.5.21 Assets from this period within the Study Area comprise find spots of a bone pin at South Gare (4796); a ring mount near St. Cuthbert's Church in Wilton (4811) and pottery sherds found in Kirkleatham (5133). Human remains (234) dating to this period were also found in Kirkleatham in 1902, but there is no information relating to whether the bones were in a grave or were disarticulated.

## Medieval

- 18.5.22 The north of England was not conquered quickly by the Normans and following the Norman victory at the Battle of Hastings in 1066, it was closer to 1100 before they could fully control the region<sup>13</sup>. The Domesday Survey of 1086 reflects some of the changes in land ownership following the Norman Conquest and records show that some lands within the Study Area were granted to the Brus family, with other land within the ownership of the Abbeys at Guisborough and Whitby<sup>14</sup>.
- 18.5.23 The Norman re-organisation of northern England included the construction of planned villages, using a blueprint of two rows of properties either side of a village green, such as at the medieval villages of Cowpen Bewley and Lackenby (4478). The settlement at Kirkleatham is first recorded in the

<sup>11</sup> Phillips, J., and Rowe, P., (2004), *Roman Teesside*. Tees Archaeology Publication.

<sup>12</sup> Tees Archaeology, (2019), Historic Environment Desk-based Assessment. Energy from Waste Site, Redcar and Cleveland.

<sup>13</sup> Daniels, R., (2014), *An introduction to the Archaeology and Heritage of the River Tees Rediscovered Landscape Partnership Area*. Tees Archaeology.

<sup>14</sup> <https://opendomesday.org/> [accessed 20 January 2020]

Domesday Survey and likely had origins in the early medieval period. It is recorded as having a population of 9.1 households, which indicates a relatively small settlement, and it is listed under four owners, comprising the king, Earl Hugh of Chester, Count Robert of Mortain and William de Percy<sup>15</sup>. The location of the Domesday settlement is unknown, although it is suggested that the later settlement also took the traditional pattern of a two-row green village, laid out along the course of the old A174<sup>16</sup>.

18.5.24 The majority of known medieval activity is located within these existing settlement areas and the fields surrounding them. Several pottery scatters (1082 and 1083) have been recorded in fields near the village of Lackenby; fragments of early medieval and medieval worked stone have been recorded in the vicinity of St Cuthbert's Church (4807 and 1426) and settlement and further pottery scatters have been recorded within Kirkleatham (1801, 1802 and 4039). The remains of ridge and furrow cultivation and field systems are present at Lazenby Farm (1220).

18.5.25 The medieval landscape was likely to be a mixture of woodland, with areas cleared for settlement and farming. Arable farming was likely the dominant lifestyle and the fertile soils of the Tees Valley supported many settlements, many of which contracted after the 14th century to individual farmsteads<sup>17</sup>. However, industrial activities are also recorded in this period. The remains of industry relating to salt working have been recorded either side of the Tees. The sites of several salterns are located within the proposed Site boundary (3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3759, 3760) and particularly good examples of earthwork remains have been recorded at Greatham, Seaton Common and at East Coatham. East Coatham, which is located in the area of the current golf links, is first recorded in 1123. However, the exact location and extent of the original settlement is unknown. Coatham, although a small settlement, would have been an important place for local trade. It was the site of a market and fair and later developed into a port<sup>18</sup>.

18.5.26 Assets within the Wilton site include a 16th century silver bowl which was found after it was washed up on Coatham beach (1601).

## Post-Medieval 1540 – 1900

18.5.27 The Dissolution transformed the power structures of English society and changed the rural landscape significantly. The Crown acquired the property, and wealth, of the nation's monasteries, nunneries, abbeys and friaries. In 1623 the manor of Kirkleatham was bought by John Turner and Kirkleatham Hall was constructed soon afterwards, which was originally an H-shaped house of two storeys. It was later remodelled entirely by Charles Turner.

18.5.28 The earliest known plan of Kirkleatham settlement is an engraved view of the estate from the north produced by L Kynff and J. Kip around 1700 (Plate 18A-1). The engraving depicts Kirkleatham Hall and extensive kitchen

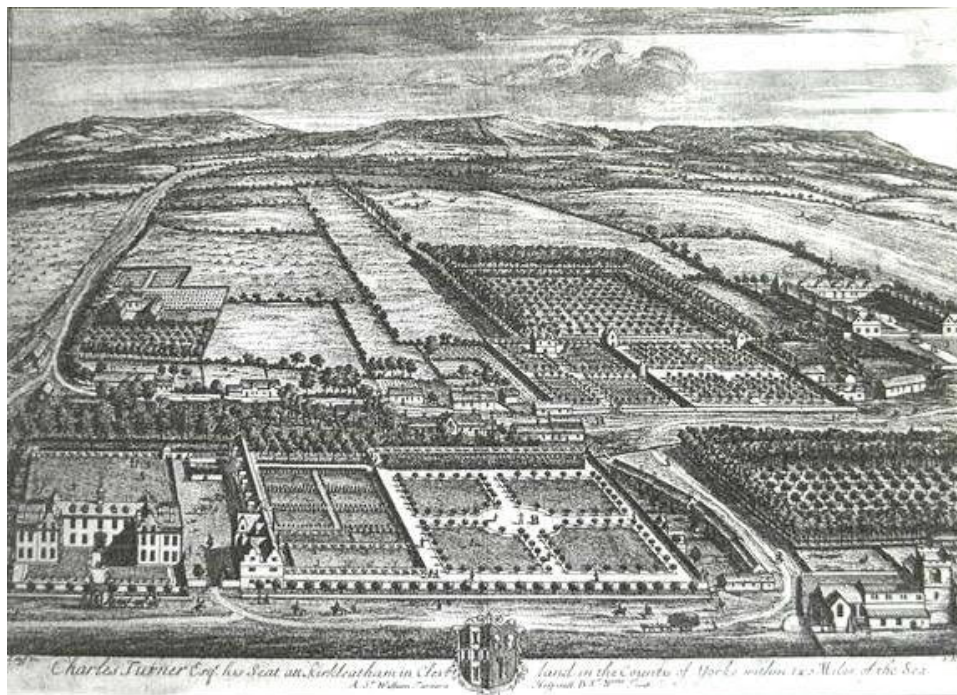
<sup>15</sup> <https://opendomesday.org/> [accessed 20 January 2020]

<sup>16</sup> Redcar and Cleveland Borough Council, (2011c), Kirkleatham Conservation Area Appraisal.

<sup>17</sup> Historic England (2006) Historic Farmsteads: Preliminary Character Assessment – Yorkshire and the Humber Region, p 35

<sup>18</sup> 'Parishes: Kirkleatham', in *A History of the County of York North Riding: Volume 2*, ed. William Page (London, 1923), pp. 371-383. *British History Online* <http://www.british-history.ac.uk/vch/yorks/north/vol2/pp371-383> [accessed 20 January 2020].

gardens, as well as Sir William Turner's Hospital. At the time of the engraving it appears that parts of the village were being cleared to make way for the hospital and kitchen gardens. The engraving shows the land within the Study Area to the south of Kirkleatham and demonstrates the impact that enclosure would have had upon the area's traditional farming communities. Formerly open fields, which would have been used by villagers for growing crops and grazing animals, were enclosed and converted to more productive arable and mixed farmland. This would have resulted in significant social change and possibly forced families to move away from the countryside and into the towns in order to find alternative employment and subsistence methods.



**Plate 18A-1: View from the north looking south. Kirkleatham c. 1700. Kirkleatham Hall is bottom left; Turner's Hospital is on the right.**

18.5.29 There is little evidence for planned parliamentary enclosure and the only parishes in the Study Area to have a parliamentary award comprise Marske in 1756 and Kirkleatham in 1850<sup>19</sup>. It is more likely that enclosure in the Study Area was carried out by means of a Private Act which was often merely a formal recognition of a private agreement. Tithes from the villages of Wilton, Lackenby and Lazenby were included within the rectory of Kirkleatham in 1657, but from 1800 the tithes were paid to the curate at Wilton. By a Private Act of 1803 all of these lands were allotted to Sir Charles Turner, the owner of the rectory, and to the curate of Wilton in lieu of all tithes in the three villages<sup>20</sup>.

18.5.30 A map surveyed between 1778 and 1811 by Jonathan Teal shows the majority of the area was enclosed by the late-18th century, with small areas of common pasture, moors and wastes still present on the outskirts of

<sup>19</sup> North Yorkshire County Council (2010), *the North Yorkshire and Lower Tees Valley Historic Landscape Characterisation*.

<sup>20</sup> British History Online (n.d.), <http://www.british-history.ac.uk/vch/yorks/north/vol2/pp371-383> [accessed 19th January 2020].

settlements, such as at Coatham, and at the foot of Eston Hills<sup>21</sup>. The pattern of large-scale enclosure was generally complete by the early-18th century and farming intensified during this period. The area around the Tees Valley was famed for the quality of its arable farming and for its degree of agricultural improvement, with farmers producing wheat, corn and butter, as well as good quality store cattle and horses<sup>22</sup>. Farms in the area were well-placed to support emerging industrial centres, such as Middlesbrough, which experienced rapid growth from the late-18th century. Marsh Farmhouse and Cottage (NHLE 1160308), garden wall (NHLE 1139619) and stable and barn (NHLE 1139620) date from the late-18th century and were part of the local farming communities that worked the cultivated fields around Coatham. Many other farms, including Middle Farm, East Farm, Sand Pits Farm, Town Farm and Lackenby Low Farm all appear on the second edition OS map dated 1888 and demonstrate the importance of the arable communities. The majority of these farms existed until the mid-20<sup>th</sup> century but their sites are now occupied by residential areas and industry.

- 18.5.31 The growth of industry was due to the area's abundant mineral wealth and industries developed specifically for the extraction of minerals such as alum and ironstone. The processing of alum is considered as one of the earliest chemical industries in the British Isles<sup>23</sup>. Post-medieval alum works are visible from aerial photography in the Redcar and Cleveland area, the most impressive example being Boulby Alum Quarry (612070), a scheduled monument, which is located outside of the Study Area.
- 18.5.32 Many local landowners realised the potential of ironstone deposits in the early 1800s, and by 1847 ore was being shipped from Skinningrove to the blast furnaces at Tyneside. The discovery of ironstone at Eston Hills led to a dramatic expansion of iron and related industries, and about 80 new mines opened to the south of Teesside during the 1800s. Furnaces were built near to the mined source and Eston Iron Works, which consisted of three blast furnaces, opened in 1853<sup>24</sup>. Identical furnaces were constructed at Lackenby in 1871, Coatham in 1873, Redcar and Skinningrove in 1874 and Cleveland Iron Works between 1874-76<sup>25</sup>. The sites of Coatham Iron Works (5709) and associated reservoir (5710), along with Redcar Iron Works (5711), are located within the Wilton International Site. In addition, the sites of several tramways are located within the proposed Site boundary including tramway 5732 which is shown on the second edition Ordnance Survey (OS) map, dated 1895, running from a mine in Neptunes Wood to Coatham Ironwork and tramway 5712 which comprises the proposed Site boundary of multiple short spurs of rail which fed into a single tramway from Redcar Iron Works to Redcar Jetty.

<sup>21</sup> North Yorkshire County Council (n.d.). Wilton in Cleveland enclosure records. Accessed at North Yorkshire County Record office.

<sup>22</sup> Historic England, (2006), *Historic Farmsteads: Preliminary Character Assessment – Yorkshire and the Humber Region*, p 35

<sup>23</sup> Rowe, P., and Green, G. (2007), *the Nineteenth Century industrial Archaeology of Redcar and Cleveland*. Tees Archaeology Report TA07/02.

<sup>24</sup> Tees Archaeology, (2019), Historic Environment Desk-based Assessment. Energy from Waste Site, Redcar and Cleveland.

<sup>25</sup> Rowe, P., and Green, G. (2007), *the Nineteenth Century industrial Archaeology of Redcar and Cleveland*. Tees Archaeology Report TA07/02.



- 18.5.33 During this period of intensive iron working, the north-east region of England accounted for 41% of the world's new shipbuilding<sup>26</sup>. The iron ore industry was converting to bulk steel by the early 1890s, and by the end of the 19th century Teesside was one of the main iron-producing areas in the world, including around one hundred blast furnaces<sup>27</sup>.
- 18.5.34 The intense industrial activity was accompanied by the reclamation of land through the dumping of slag from the iron and steel industries that occupied the banks of the River Tees. The slag was dumped on marshland and mudflats, creating a new large area of hardstanding that was soon occupied by further industry including River Tees Dockyard, Teesport and a new customs house, which no longer survives.

### Modern 1900 – Present

- 18.5.35 The use of aircraft as offensive weapons was a significant 20th-century development in the history of warfare, and provoked new systems of strategic air defence. Experiments in early warning systems started before 1920 with the new possibility of attacks by airships. Early warning was initially based on visual spotting, but acoustic detection devices were soon developed. The first operational acoustic reflectors were a pair of adjustable mirrors erected on the Kent coast in 1917, followed by a series of concrete static mirrors established on the North East coast. Acoustic mirrors were upright concave bowls between 3 m and 4 m in diameter; the walls were curved vertical structures up to 61 m in length; the disc system used horizontal concave bowls designed for use in pairs as aircraft passed overhead to measure speed. At their most sophisticated, the devices could identify the sounds of surface vessels or aircraft up to 40 km away. The First World War early warning acoustic mirror 650 m north-west of Bridge Farm (NHLE 1020311) (Figure 18-2 in PEI Report, Volume II), is only one of four known surviving examples in the North East of England and is a scheduled monument. It survives well and makes a significant contribution to the study of early-20th century air defences in England.
- 18.5.36 World War I left very little evidence on the North East coast, but the few extant features which are still present, either as earthworks or cropmarks, include a large concrete structure which has been interpreted as a rifle butt, a target used for shooting practice (3655). This asset is located within the proposed Site boundary.
- 18.5.37 During World War II Kirkleatham formed a rearward defended locality of the North Riding Coastal Area which was defended by the 176th Infantry Brigade of 59 Division. Old Kirkleatham Hall (demolished in 1956) was requisitioned and became the battalion (Bn) headquarters for the 16th Bn. South Staffordshire Regiment followed by the 6th Bn. North Staffordshire Regiment, and the 12th Bn. Green Howards<sup>28</sup>. The defence of Kirkleatham was based on nine pillboxes or infantry posts, four roadblocks, and an anti-tank ditch and included the re-use of existing structures, including an 18th

<sup>26</sup> Williams, M, (2019), *the Steel industry in England: An Historical Overview*. Historic England. P. 65

<sup>27</sup> Williams, M, (2019), *the Steel industry in England: An Historical Overview*. Historic England, p. 27.

<sup>28</sup> Foot, W, (2009), *Defence Area 57, Kirkleatham*. in; *Defence Areas: a national study of Second World War anti-invasion landscapes in England*.

century Grade II\* listed bastion-style garden feature, conveniently located at the roadside (NHLE 1160124) (Plate 18A-2).



**Plate 18A-2: A Grade II\*listed mid-18th century bastion, pierced through to be utilised as a defensive structure during World War II.**

18.5.38 Due to the strategic importance of the North East coast in wartime home defence, World War II military remains are well represented in the area. Within the proposed Site boundary there are six pillboxes located entirely within the water abstraction and discharge corridor (3649, 3650, 3647, 3648, 1829, 1828). Other pillboxes in the Study Area include one which is located adjacent to the railway line beneath Redcar Road (4950) and two more in fields at Yeardus (462 and 961).

18.5.39 Industry was still growing on Teesside during the early part of the 20th century, and increased output to support the war effort was a major reason for the growth. Dorman Long steelworks, which produced material for the Tyne Bridge in Newcastle and the Harbour Bridge in Sydney, Australia, had been in operation since the 1880s, and by 1901 employed more than 3,000 people, producing 180,000 tonnes of steel a year. At the beginning of World War I, Dorman Long's workforce had increased to 20,000 and they started building a £4.5m plant at Redcar which is within the proposed Site boundary which opened in 1917<sup>29</sup>. From the mid-20th century the integrated iron and steel industries on Teesside consolidated into a small number of larger firms, and in 1967 Dorman Long merged with 13 other steel manufacturers to form the nationalised British Steel. The Redcar Blast Furnace, commissioned in 1978 and opened in 1979, was erected on land within the proposed Site boundary and was the largest blast furnace in the UK and the second largest in Europe<sup>30</sup>. The furnace could produce 10,000 tonnes of iron each day with the molten iron transported to Lackenby works to be converted into steel.

18.5.40 The industry was privatised in 1988 to form British Steel plc and production at the furnace continued until 2009 when competitive market conditions and

<sup>29</sup> <https://www.bbc.co.uk/news/uk-england-tees-34389873> [accessed 15 January 2020].

<sup>30</sup> <https://www.bcd-urbex.com/redcar-blast-furnace/> [accessed 16 January 2020].

a lack of government support forced the site to be mothballed. SSI purchased the steelworks in 2011 and reopened in 2012, however by 2015 the site was forced to close for the last time.

18.5.41 The site of the iron works survives almost intact with its ancillary buildings and infrastructure. Survival of disused industrial features on this scale is relatively rare<sup>31</sup> and this, along with the site's importance in the industrial history of the UK, contributes to its value, which is assessed to be high.

18.5.42 The Study Area also housed industries associated with the petrochemical sector and Wilton International, which originate as a chemical manufacturing site, opened in 1956. The area continues to manufacture chemicals but also hosts other industries associated with recycling, process research and energy generation.

## 18.6 Results of the Walkover Survey

18.6.1 The walkover survey was completed on 16 October 2019 during dry and bright weather conditions. The routes of the proposed Connection Corridors were visually assessed in order to evaluate current ground conditions, confirm the extent of known ground disturbance and to identify the potential for previously unknown heritage assets to be present. Due to access constraints, the former steelworks site was not part of the walkover; however, it was visually assessed from the site perimeter.

18.6.2 In addition to the walkover of the steelworks site visits were made to heritage assets in the proposed Site boundary and Study Areas in order to assess and describe their baseline setting. The baseline settings of heritage assets within the proposed Site boundary and Study Areas are described below.

### Designated Assets in the Proposed DCO Boundary

18.6.3 There are no designated heritage assets within the Site.

### Designated Assets in the 1 Km Study Area

18.6.4 There are six listed buildings located within 200 m of the proposed Site boundary, comprising Grade II\* Old Hall Farmhouse and garden wall (NHLE 1139659) a Grade II listed byre barn (NHLE 1329613) and Grade II listed stable range (NHLE 1159438), Barn and stable circa 10 metres north west of Marsh Farmhouse (NHLE 1139620), garden wall south of Marsh Farmhouse (NHLE 1139619) and Marsh Farmhouse and Farm Cottage (NHLE 1160308). Old Hall Farmhouse dates to the mid-late 17th century with an 18th century extension and 19th and 20th century alterations. The farmhouse comprises 2 storeys with an attic and is constructed out of sandstone with a clay pantile roof and stone ridge copings. The farmhouse, barn and stables buildings are arranged around a central yard which defines their immediate setting. The wider setting of this group of buildings is defined by the extent of the historic settlement at Lackenby and includes the remains of ridge and furrow in the arable fields to the south.

<sup>31</sup> Williams, M, (2019), the Steel industry in England: An Historical Overview. Historic England, p. 28.

- 18.6.5 The walkover survey included prehistoric funerary monuments on Eston Hills, a First World War acoustic mirror, listed buildings and conservation areas.
- 18.6.6 Eston Hills sits above the Site and long-range views towards the Proposed Development are possible from many points within the hills. The hills were a focal point for prehistoric activity and particularly funerary rites; the entire area represents a remnant prehistoric funerary landscape comprising individual barrows. Individually the monuments are scheduled monuments and are therefore of national importance and high value. As a group, with a clear level of association, the assets give value to the surrounding landscape which, in spite of the industrial landscape below, retains a significant amount of time depth and legibility.
- 18.6.7 The majority of the scheduled monuments on Eston Hills comprise bowl barrows which are funerary monuments dating from the Late Neolithic period to the Late Bronze Age, with most examples belonging to the period 2400-1500 BC. They were constructed as earthen or rubble mounds, sometimes ditched, which covered single or multiple burials. They occur either in isolation or grouped as cemeteries and often acted as a focal point for later burials. Often occupying prominent locations, barrows are a major historical component of the modern landscape and their longevity and variation of form provide important information relating to early prehistoric beliefs and social organisation.
- 18.6.8 A description and summary of the setting of the monuments are listed in Table 18A-4. Due to the group value of the assets and their level of association, the entire funerary landscape was assessed rather than just those assets within the Study Area, therefore, some assets listed in Table 18A-4 fall outside of the 1 km Study Area.

**Table 18A-4: Scheduled Monuments on Eston Hills**

| Asset ID and Name   | Description  | Setting  |
|---|--|--|
| 1011280<br>Bowl Barrow 550 m north-west of Court Green Farm       | The monument includes a bowl barrow of Bronze Age date situated below the top of a hill near the edge of a scarp at 200 m above Ordnance Datum (aOD). The barrow mound measures 12 m across and survives to a height of 60 cm. The surrounding ditch, dug to provide the material to build the mound, is no longer visible at ground level but it survives as a buried feature measuring 2 m across. | Visually, the monument is separated from contemporary features due to intervening plantation. The wider setting of the monument is defined by the extent of the Eston Hills prehistoric landscape and the contemporary features within it. |
| 1011283<br>Two Bowl Barrows, 700 m north-west of High Court Green | The monument comprises two bowl barrows of Bronze Age date situated on a south facing slope at approximately 225 m aOD. The first barrow measures 9 m across and survives to a height of 20 cm. The second mound, situated at a distance of 10 m to the north-west, measures 10 m in diameter and stands to a height of 30 cm.   | The setting of the barrows is dominated by views to the south and the visual relationship with contemporary features to the east and south-east, specifically barrows 1011271 and 1011282.   |



| Asset ID and Name   | Description   | Setting   |
|---|---|---|
| 1011272<br>Bowl Barrow 1.1 km north-west of High Barnaby Farm       | The monument includes a bowl barrow of Bronze Age date currently situated within a forestry plantation, on an area of flat land with a southern aspect at approximately 225 m aOD. The barrow mound measures 22 m across and survives to a height of 1 m. The northern part of the barrow mound and ditch beyond the fence have been truncated by a track.  | The setting of the monument is dominated by its location within a wooded area; however, the wider setting of the monument is defined by the extent of the Eston Hills prehistoric landscape and the contemporary features within it.  |
| 1011274<br>Bowl Barrow 450 m north-west of High Court Green         | The monument comprises a bowl barrow of Bronze Age date situated in a coniferous plantation on a flat, south-facing terrace which lies at approximately 200 m aOD. The mound measures 13 m in diameter and survives to a height of 1 m.   | The setting of the monument is dominated by its location within a wooded area, also by its group value as part of the remnant prehistoric landscape on Eston Hills.   |
| 1011271<br>Bowl Barrow 800 m north of High Barnaby Farm             | The barrow mound measures 8 m across and survives to a height of 20 cm and is located at 225 m aOD.   | The barrow is positioned on a south facing slope and its setting is dominated by views to the south and the visual relationship with contemporary features to the south and south-west, specifically barrow 1011283.  |
| 1011270<br>Three Bowl Barrows 850 m north-west of High Barnaby Farm | Three bowl barrows of Bronze Age date situated on flat land with a southern aspect at a height of approximately 225 m aOD. The western barrow measures 17 m in diameter and survives to a height of 1 m. There are signs of disturbance at the centre of the mound, the result of partial excavation in the past. The second mound, 10 m to the east, measures 16 m across and stands to a height of 1.2 m; it also shows evidence of disturbance. Abutting the north-east side of this barrow is a small barrow 8 m in diameter and 70 cm high. Each of the barrow mounds is surrounded by a ditch which survive as buried features. | The setting of the barrows is dominated by views overlooking the valley to the south. The monuments have no visual relationship with other contemporary features due to intervening vegetation, but the wider setting of the monuments is defined by their position within a remnant prehistoric landscape, and this contributes to the assets' importance. |
| 1011282<br>Bowl Barrow 500 m north-west of High Court Green         | A large bowl barrow situated on a south-facing slope at a height of approximately 210 m aOD. The barrow mound measures 21 m in diameter and survives to a height of 50 cm. This monument is of unusual form; at its centre there is a smaller mound measuring 4 m in diameter and standing to a height of 1 m. The platform area between the central mound and the edge of the barrow is slightly concave in profile.   | The barrow is positioned on a south facing slope and its setting is dominated by views to the south and the visual relationship with contemporary features to the north and north-west, specifically barrows 1011271 and 1011283.   |
| 1011281<br>Bowl Barrow 1 km north-west of Court Green Farm          | A bowl barrow situated on a north-facing scarp on the edge of a densely wooded plantation; at a height of approximately 200 m aOD. The barrow mound measures 12 m across and survives to a height of 50 cm.   | The immediate setting of the monument is defined by its position on the edge of a plantation site, and shared views with the bowl barrow at Court Green Farm  |

| Asset ID and Name   | Description  | Setting  |
|---|--|--|
|   |  | (1011269) which is to the south-east.  |
| 1011269<br>Bowl Barrow 600 m north-west of Court Green Farm   | The monument comprises a Bronze Age bowl barrow situated on the top of a hill near the edge of a scarp. The barrow mound measures 17 m across and survives to a height of 1 m. Several hollows at the centre of the mound represent the remains of partial excavation in the 19th and early-20th century; Bronze Age pottery and several flint tools were recovered from these excavations.            | The immediate setting of the monument is defined by its position on the edge of a plantation, and shared views with the bowl barrow 1011281 which is located to the north-west.  |
| 1011268<br>Bowl Barrow 1.1 km north-west of High Court Green  | A bowl barrow of Bronze Age date situated near the edge of a scarp at approximately 230 m aOD. The barrow mound has been truncated and spread by ploughing; it measures 12 m across and survives to a height of 30 cm.   | There is plantation to the north and west and the setting of the barrow is dominated by views to the south and the visual relationship with contemporary features to the east, specifically barrow 1011285 which is located 110 m to the east.   |
| 1011285<br>Bowl Barrow 1 km north west of High Court Green    | The barrow is situated at a height of 230 m aOD. The barrow mound measures 16 m in diameter and survives to a height of 1 m. The remains of what appears to be a modern field clearance cairn lie at the centre of the mound.  | A visual relationship with contemporary features to the west, specifically barrow 1011268 which is located 110 m to the west, contributes to the setting of the asset.   |
| 1011284<br>Bowl Barrow 850 m north-west of High Court Green   | The monument comprises a bowl barrow situated on the edge of a scarp. The barrow mound measures 12 m across and survives to a height of 1 m. At the centre of the mound there is a hollow measuring 3 m across, the remains of a partial excavation in recent years.   | The monument is on the edge of a wooded area which restricts long-range views and contributes to an enclosed setting. The monument is located on the 230 m contour on a south-facing slope and its wider setting is defined by its relationship with contemporary assets on the moor, specifically 1011268 and 1011285 to the west, and monuments down slope to the south. |
| 1011279<br>Bowl Barrow 1.2 km north-west of High Barnaby Farm | The monument comprises a bowl barrow of Bronze Age date situated on open moorland with a southerly aspect. The mound measures 10 m across and survives to a height of 1.2 m. At the centre of the mound there is a large hollow measuring 4 m across, the result of partial excavation in the 19th century by William Ord which revealed the remains of a Bronze Age cremation and Bronze Age pottery. | The setting is defined by the monument's visual and spatial relationship with contemporary monuments on the moor, specifically bowl barrow 1011278 to the west.  |

| Asset ID and Name   | Description   | Setting  |
|---|---|--|
| 1011275<br>Bowl Barrow 1.4 km north-west of High Barnaby Farm               | The monument comprises a bowl barrow situated near the top of a scarp on a south-facing slope. At the centre of the mound there is a hollow, the remains of partial excavation in the 19th century.   | The setting of the barrow is defined by its position on a north-west facing slope within a remnant prehistoric landscape and by its spatial and visual relationship with contemporary monuments on the moor. The dominant visual relationship is with the hillfort at Eston Nab to the north.  |
| 1018658<br>Round Barrow on Upsall Moor (also referred to as Mount Pleasant) | The monument comprises a round barrow situated in a prominent position at the western end of the Eston Hills ridge. Limited excavation by E W Sockett in 1949 showed that the barrow was originally structured around two circles of stones which defined it and supported the mound. Three stones belonging to the outer circle are visible on the surface of the mound. | The barrow is in relatively open land, but wooded areas to all sides restrict views towards contemporary monuments, although there are some undated earthworks to the east which may be contemporary, but may be associated with surface quarrying. The wider setting of the monument is defined by its survival within a remnant prehistoric landscape, and the spatial relationship it has with contemporary features. |
| 1011276<br>Bowl Barrow 1.45 km west of High Barnaby Farm                    | The bowl barrow mound measures 11 m across and survives to a height of 1 m. At the centre of the mound there is a hollow measuring 3 m across, the remains of partial excavation in the 19th century.   | Located at approximately 200 m aOD, the monument's setting is defined by its spatial and visual relationship with contemporary monuments on the moor, and specifically views to the north which are dominated by the hillfort at Eston Nab.  |
| 1011277<br>Ring Cairn 1.3 km north of Mill Farm                             | The monument comprises a ring cairn situated on an area of flat moorland. The ring cairn measures 16 m in diameter; the annular bank, composed of small stones and earth. It encloses a hollow central area measuring 10 m in diameter.   | The cairn's setting is defined by its prominent position at 210 m aOD above the valley to the south.   |
| 1011278<br>Bowl Barrow 1.2 km north-west of High Barnaby Farm               | The mound measures 9 m across and survives to a height of approximately 1 m. At the centre of the mound there is a large hollow, the remains of partial excavation in the 19th century by William Ord which revealed the remains of a Bronze Age cremation within a stone cist.   | The setting of this asset is defined by the monument's visual and spatial relationship with contemporary monuments on the moor, specifically bowl barrow 1011279 to the east.  |
| 1018659   | The monument comprises two adjacent round barrows on Patterson's Bank. The larger of the two is to the south-west and has an earth and  | The barrows are located on a slightly north-facing slope at a height of 170 m aOD,   |

| Asset ID and Name                     | Description   | Setting  |
|---------------------------------------|---|--|
| Two Round Barrows on Patterson's Bank | stone mound 17 m in diameter and standing up to 1.8 m high. It was originally surrounded by a kerb of stones which consolidated the toe of the mound, two of which were decorated with cup marks. Some of the kerb stones are visible at the base of the mound, but the remainder have been either taken away or buried by soil erosion. There is a hollow in the centre of the barrow caused by the removal of an Ordnance Survey triangulation point. The smaller barrow lies 50 m to the north east. It has a mound which is 11 m in diameter and stands up to 1.5 m high. In the centre there is a hollow caused by historical excavations. | and their immediate setting is dominated by their position on the edge of Errington Wood. The plantation prevents long range views which would link the barrows with contemporary monuments to the west and south-west. The setting of these assets is defined primarily by each other. The proximity of these two barrows and their separation from the main groupings at Eston Hills may indicate that they derived from a different group or had a different level of status. |

#### First World War Early Warning Acoustic Mirror

- 18.6.9 Asset 1020311 comprises an early 20th century military early warning device called an acoustic mirror. The asset is a scheduled monument and is also Grade II\* listed and is therefore of national importance and high value. The asset is located in Redcar, approximately 3 km east of the proposed Site boundary, 4.7 km from the PCC and 1.2 km inland from the coast.
- 18.6.10 The mirror was part of a chain of similar acoustic devices located on the North East coast extending from the River Tyne to the River Humber. They were erected to provide early warning of potential attacks on the important industrial complexes in the north east from ships and Zeppelins during the First World War. Little is currently known of the history and development of the system. Successful experiments in acoustic detection date to 1915 and it is thought that the Tees and Tyne early warning system dates to the last two years of the war. This mirror faces NNE and was positioned to cover the mouth of the Tees Estuary. There were at least two other mirrors known to be part of the Tees Estuary system; one was located at High Springwell 17 km away on the north side of the estuary and was orientated to cover the north eastern approaches. This was demolished in the 1960s. The other mirror is located overlooking the eastern approaches to the estuary 17 km to the east at Boulby and is also a scheduled monument.
- 18.6.11 The asset has an associative setting relationship with the surviving acoustic mirror at Boulby due to their shared function, but as they were not intended to be intervisible, this is not a visual setting relationship. The asset is located within the middle of a mid-late 20th century housing estate which dominates its setting. The original setting of the monument would have been defined by long-range views to the north east, towards the coast and the Tees Estuary, and possibly lines of intervisibility with other coastal defences. The asset's relationship with the coastline and associated assets has been eroded by the housing development and its setting no longer contributes to its value.

### Listed Buildings

- 18.6.12 Most of the listed buildings within the 5 km Study Area are concentrated around existing settlement areas at Lazenby, Kirkleatham, Wilton, Marske, Saltburn and Skelton. The majority of the remaining listed buildings are represented by farm buildings located within the rural parts of the Study Area.
- 18.6.13 There are 11 Grade I buildings within the Study Area. Seven of these are located in areas of existing settlement and their setting does not extend to the Site. These comprise Ormesby Hall and Stable-block (NHLE 1311002 and 1139662); Stockton Parish Church (NHLE 1139977); Parish Church of St. Mary the Virgin in Norton (NHLE 1140012); the Church of St. Cuthbert in Billingham (NHLE 1139241), and Marske Hall (NHLE 1387553). The remaining five buildings are located within Kirkleatham Conservation Area and are discussed as part of the conservation area below.

### Conservation Areas

#### Kirkleatham Conservation Area

- 18.6.14 Kirkleatham Conservation Area is located within 1 km of the eastern boundary of the Site close to the Electrical Connection Corridor.
- 18.6.15 Key views and characteristics which contribute to the conservation area's importance are set out in Kirkleatham Conservation Area Appraisal<sup>32</sup>. Kirkleatham contains five Grade I, six Grade II\* and 12 Grade II listed buildings. The heritage value of the conservation area is assessed to be high due to the high number and grouping of listed buildings, the quality of architecture and its historic integrity, and the level of historical importance and intact historical context demonstrated in the area.
- 18.6.16 The variety of building forms in Kirkleatham is dictated by the diversity of building type. Buildings range from the Grade I listed Church of St Cuthbert (NHLE 1139638), the Grade II\* listed Old Hall Museum (NHLE 1139641), and Grade I listed Sir William Turner's Hospital (NHLE 1310786). The building type also includes the stable block of the demolished Kirkleatham Hall, garden buildings and structures, along with detached houses and terraced cottages. The buildings date to the 17th and 18th centuries and range in architectural style from Queen Anne through to Baroque, Rococo and Palladian to Gothic.
- 18.6.17 An important component of Kirkleatham's character is its landscape setting, comprising wooded parkland, and open farmland to the south at Yearby, which once formed part of Kirkleatham Hall deer park. The character of the conservation area from within is quite enclosed due to the prominence of mature woodland and planting along its edges. This creates a secluded feeling to the area and internal views form an important part of this setting, such as the view along Plantation Road which takes in the wall of Kirkleatham Walled Garden, and views from Sir William Turner's Hospital which take in Kirkleatham Old Hall Museum.

<sup>32</sup> Redcar and Cleveland Borough Council. 2011a. Kirkleatham Conservation Area Appraisal



18.6.18 The conservation area derives its value, which is assessed as high, from the diversity and quality of its building type. The buildings articulate the area's history and contribute to a strong sense of place.

#### Yearby Conservation Area

18.6.19 Yearby Conservation Area is located approximately 850 m south of the Site.

18.6.20 The layout of Yearby is based on a typical medieval form; comprising two rows of houses arranged either side of a principal through road. The buildings within the village consist of single and 2-storey 18th-century cottages and farm buildings. The setting of Yearby is defined by the arable landscape it sits within, however the landscape has changed significantly and the former medieval layout of burgage plots and small strip fields have been replaced by large enclosed fields as a consequence of 18th and 19th-century enclosure and modern farming practices<sup>33</sup>.

18.6.21 Views within the conservation area are framed by the linear layout of the buildings, although long-range views out over the surrounding fields and the Eston Hills beyond are also possible to the south. Views north towards the settlement at Kirkleatham are possible from the rear of the buildings which form the northern boundary of the village. The conservation area derives its value from the historical legibility of its planned form, and from its buildings which demonstrate local distinctiveness and character. The conservation area is assessed to be of medium value.

#### Coatham Conservation Area

18.6.22 Coatham Conservation Area is located approximately 1.1 km east of the Site. The area comprises the single-row settlement of East Coatham and the better-preserved parts of the mid-to late Victorian planned settlement, the layout of which reflects the settlement's medieval origins. The buildings principally comprise two storey Victorian and Edwardian houses with bay windows, boundary walls and gate piers which are a prominent characteristic of the streetscape. The value of the area is defined by the architectural and historical interest of its individual buildings and settlement form<sup>34</sup>.

#### Wilton Conservation Area

18.6.23 Wilton is situated on a north-facing slope just below the steep escarpment of Eston Hills (approximately 400 m south east of the Site). The approach to the village is from the north up a densely wooded lane which leads through the village to Wilton Castle which is listed Grade II listed. The Church of St Cuthbert is listed Grade II\* listed and is located at the end of a small drive which is set back from the main approach road. The setting of the church is defined by its position within an enclosed graveyard which is surrounded by mature deciduous and evergreen trees. A double avenue of pollarded, mature deciduous trees planted in the late 19th century line a disused west carriage drive to the Castle.

18.6.24 The avenue runs for half a mile towards Lazenby and is identified in the conservation area appraisal as the most important single landscape feature

<sup>33</sup> Redcar and Cleveland Borough Council. 2011b. Yearby Conservation Area Appraisal

<sup>34</sup> Redcar and Cleveland Borough Council. 2011c. Coatham Conservation Area Appraisal

within the designated area<sup>35</sup>. The conservation area derives its value, which is medium, from the quality of its buildings, which demonstrate Romanesque and Gothic architectural styles.

## 18.7 Historic Landscape Character

- 18.7.1 The character of the Study Area is typical for this part of Teesside and comprises a remnant medieval and post-medieval landscape that has been changed significantly by many processes, including enclosure, settlement, transport routes and predominantly by industry which now dominates the landscape.
- 18.7.2 Eston Hills are of particular importance because of the range and quality of the archaeological and historic components they contain. There is significant time depth within this area and the legibility of the area and the associative relationship between the monuments can be readily appreciated.
- 18.7.3 Urban development in the region over the last 150 years has had a dominant influence on the major settlements. Many smaller towns and villages outside the main urban areas have only seen limited development and have retained much of their vernacular and historic character.
- 18.7.4 Industries have developed around the extraction of minerals such as alum and ironstone, and other materials have been worked to feed the services and infrastructure required by these industries, for example sand, gravel, clay and stone extraction. 'Many industrial sites have, through time, become assimilated into the countryside following their abandonment. Industrial features, such as ironstone mines, are now often remote and add a sense of history to the diverse landscapes of the Borough'. (Green and Rowe, 2007).
- 18.7.5 The region is largely a rural area despite the fact that many of the founding industries of Teesside are located within it, and 19th century farms are a characteristic of the Study Area. Enclosure has changed the landscape in the Study Area. There is evidence of post-World War II amalgamation of earlier fields into larger land parcels, but there is still a good level of survival of 19th century enclosures.
- 18.7.6 Baseline evidence reveals that the greater part of Redcar and Cleveland was enclosed before 1720, and parliamentary enclosure occurred mainly in the Teesmouth area (for example at Redcar, Coatham and Kirkleatham) and in areas of common land (for example on Easington Moor and Moorsholm Moor).
- 18.7.7 The Eston Hills are characterised by a complex of prominent steep-sided hills linked by low saddles which form a parallel series of foothills, or outliers, to the main escarpment of the Cleveland Hills, which lie within the North York Moors National Park. Open moorland and wooded hillsides and escarpments contribute to the distinctive character of this area and give it an identity unlike any other part of the Borough.

<sup>35</sup> Redcar and Cleveland Borough Council. 2011d. Wilton Conservation Area Appraisal

- 18.7.8 The most significant change to the landscape has been the impact of many industries that have populated the area from the 19th century.

## 18.8 Assessment of Baseline

- 18.8.1 There is low potential for buried features of archaeological interest to be present within the proposed Site boundary, as previous land uses are likely to have removed or significantly truncated subsurface remains. There is a potential for organic deposits or artefacts to be present within alluvium, however, current baseline evidence suggests the likelihood of encountering such deposits is low.
- 18.8.2 Standing structures associated with Redcar blast furnace and ancillary buildings are present within the proposed Site boundary. The buildings are indicative of the region's industrial heritage and are of local and possibly regional interest.
- 18.8.3 The North East of England has seen extensive demolition of steel and related industries, as these have been superseded by different technologies. However, the impact of the steel industry on the region is still very visible and surviving infrastructure in the proposed Site boundary, comprising the blast furnace at the former steelworks site, is a well-preserved and relatively rare example of its type. The blast furnace is not a designated heritage asset and is not recorded on the local HER. However, it is an asset that embodies the industrial heritage of the area. It is a well-known landmark and is of value to the local community through its historical associations. The value of the asset derives from its historical interest, its contribution to local identity, and its rarity and preservation level. Its value is assessed to be medium.
- 18.8.4 Heritage assets that may experience impacts or changes to their value and setting as a result of the Proposed Development are considered further in Chapter 18: Cultural Heritage (PEI Report, Volume I).



## 18.9 References

*Ancient Monuments and Archaeological Areas Act* (c. 46). London: Her Majesty's Stationery Office. Available at:

<http://www.legislation.gov.uk/ukpga/1979/46>

Batchelor, C. R., & Green, C. P. (2012). *A Report on the geoarchaeological deposit modelling on land at the Teesside Renewable Energy Plant Site*. Quaternary Scientific unpublished report.

BBC (2015). *Dorman Long: The Teesside firm that bridged the world* [Online]. Available at: <https://www.bbc.co.uk/news/uk-england-tees-34389873> [accessed 15 January 2020].

BCD (2015). *Redcar Blast Furnace, Middlesbrough, UK* [Online]. Available at: <https://www.bcd-urbex.com/redcar-blast-furnace/> [accessed 16 January 2020].

British History Online (n.d.). *Parishes: Kirkleatham*. Available at: <http://www.british-history.ac.uk/vch/yorks/north/vol2/pp371-383> [accessed 19th January 2020]. Digital copy of Page, W (ed) (1923). *A History of the County of York North Riding: Volume 2*, pp. 371-383. London: Victoria County History.

Carter, S. D. (2014). *Intertidal Prehistoric Peat Beds at Redcar, North-east England*. Hartlepool: Tees Archaeology.

Department of Energy and Climate Change (2011). *Overarching National Policy Statement for Energy (EN-1)*. London: The Stationery Office.

Daniels, R. (2014). *An Introduction to the Archaeology and Heritage of the River Tees Rediscovered Landscape Partnership Area*. Hartlepool: Tees Archaeology.

Foot, W. (2009). *Defence Area 57, Kirkleatham*. In; William Foot, Council for British Archaeology (2009). *Defence Areas: a national study of Second World War anti-invasion landscapes in England* [data-set]. York: Archaeology Data Service [distributor] <https://doi.org/10.5284/1000032>

Historic England (2006). *Historic Farmsteads: Preliminary Character Assessment – Yorkshire and the Humber Region* [Online]. p 35. Available at: <https://historicengland.org.uk/images-books/publications/historic-farmsteads-preliminary-character-statement-yorkshire-humber/>

Historic England (2015). *Good Practice Advice in Planning Note 2* [Online]. Available at: <https://historicengland.org.uk/images-books/publications/gpa2-managing-significance-in-decision-taking/>

Historic England (2017). *Good Practice Advice In Planning Note 3* [Online]. (2<sup>nd</sup> edition). Available at: <https://historicengland.org.uk/images-books/publications/gpa3-setting-of-heritage-assets/>



Historic England (2019a). *The National Heritage List for England*. Available from:

<https://historicengland.org.uk/listing/the-list/>

Historic England (2019b). Advice Note 12 *Statements of Heritage Significance: Analysing Significance in Heritage Assets* [Online]. Available at:

<https://historicengland.org.uk/images-books/publications/statements-heritage-significance-advice-note-12/heag279-statements-heritage-significance/>

Lang, A. and Buteux, S. (2007). *Lost but not forgotten: the Lower and Middle Palaeolithic occupation of the West Midlands*. In Garwood, P. ed. (2007). *The Undiscovered Country: the Earlier Prehistory of the West Midlands*. Oxford: Oxbow Books.

Ministry of Housing, Communities and Local Government (2012, updated 2019). *National Planning Policy Framework* [Online]. Available from:

<https://www.gov.uk/guidance/national-planning-policy-framework>

Ministry of Housing, Communities and Local Government (2019). *Planning Practice Guidance – Environmental Impact Assessment* [Online]. Available online from: <https://www.gov.uk/government/collections/planning-practice-guidance>

North Yorkshire County Council (2010). *The North Yorkshire and Lower Tees Valley Historic Landscape Characterisation* [Online]. Available at:

<https://www.northyorks.gov.uk/understanding-our-historic-landscape#:~:text=The%20North%20Yorkshire%20and%20Lower%20Tees%20Valley%20historic,historic%20components%20in%20the%20rural%20and%20urban%20landscape>

North Yorkshire County Council (n.d.) *Wilton in Cleveland enclosure records*. Accessed at North Yorkshire County Record Office, Northallerton.

Palmer, J., Slater, G., and opendomesday.org (n.d.) *Open Domesday* [Online]. Available at: <https://opendomesday.org/> [accessed 20 January 2020]

Phillips, J., and Rowe, P., (2004). *Roman Teesside*. Hartlepool: Tees Archaeology Publication.

*Planning (Listed Buildings and Conservation Areas) Act 1990* (c. 9). London: Her Majesty's Stationery Office. Available from:

<https://www.legislation.gov.uk/ukpga/1990/9/contents>

Redcar and Cleveland Borough Council (2011a). *Kirkleatham Conservation Area Appraisal* [Online]. Available at: <https://www.redcar-cleveland.gov.uk/resident/planning-and-building/conservation-and-listed->

[buildings/Documents/Kirkleatham%20Conservation%20Area%20Appraisal.pdf](#)

Redcar and Cleveland Borough Council (2011b). *Yearby Conservation Area Appraisal* [Online]. Available at: <https://www.redcar-cleveland.gov.uk/resident/planning-and-building/conservation-and-listed-buildings/Documents/Yearby%20Conservation%20Area%20Appraisal.pdf>

Redcar and Cleveland Borough Council (2011c). *Coatham Conservation Area Appraisal* [Online]. Available at: <https://www.redcar-cleveland.gov.uk/resident/planning-and-building/conservation-and-listed-buildings/Documents/Coatham%20Conservation%20Area%20Appraisal.pdf>

Redcar and Cleveland Borough Council (2011d). *Wilton Conservation Area Appraisal* [Online]. Available at: <https://www.redcar-cleveland.gov.uk/resident/planning-and-building/conservation-and-listed-buildings/Documents/Wilton%20Conservation%20Area%20Appraisal.pdf>

Redcar and Cleveland Borough Council (2018). *Redcar and Cleveland Borough Council Local Plan* [Online]. Available at: <https://www.redcar-cleveland.gov.uk/resident/planning-and-building/local-plan/areagrowth/Local%20Plan%20Adopted%20May%202018.pdf>

Roman Roads Research Association (2016). *The Yorkshire Roman Roads Project Gazetteer of Roman Roads in Yorkshire* [Online]. Available at: <http://www.romanroads.org/yorkshiregazetteer.html> [accessed 10 January 2020].

Rowe, P., and Green, G. (2007). *The Nineteenth Century Industrial Archaeology of Redcar and Cleveland*. Tees Archaeology Report TA07/02. Hartlepool: Tees Archaeology.

Sherlock, S. (2012). *Late Prehistoric Settlement in the Tees Valley and North-East England*. Hartlepool: Tees Archaeology.

Stockton-on-Tees Borough Council (2019). *Stockton-on-Tees Borough Council Local Plan* [Online]. Available at: <https://www.stockton.gov.uk/media/1585775/localplanmainreportcontents.pdf>

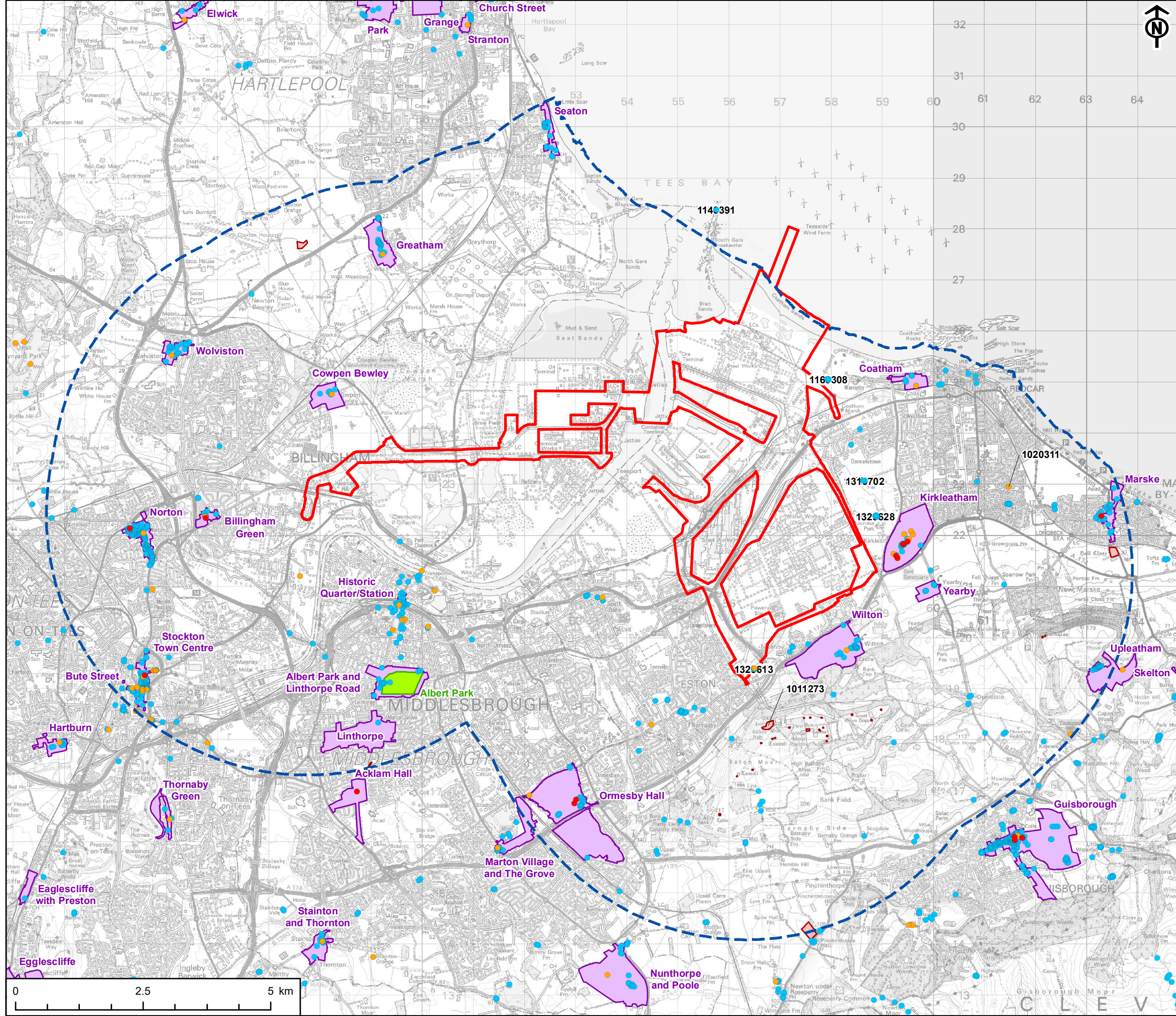
Tees Archaeology (2002). *Iron Age Teesside*. Hartlepool: Tees Archaeology.

Tees Archaeology (2019). *Historic Environment Desk-based Assessment. Energy from Waste Site, Redcar and Cleveland*. Prepared by Tees Archaeology.

Williams, M, (2019), *The Steel Industry in England: An Historical Overview*. Birmingham: Historic England.





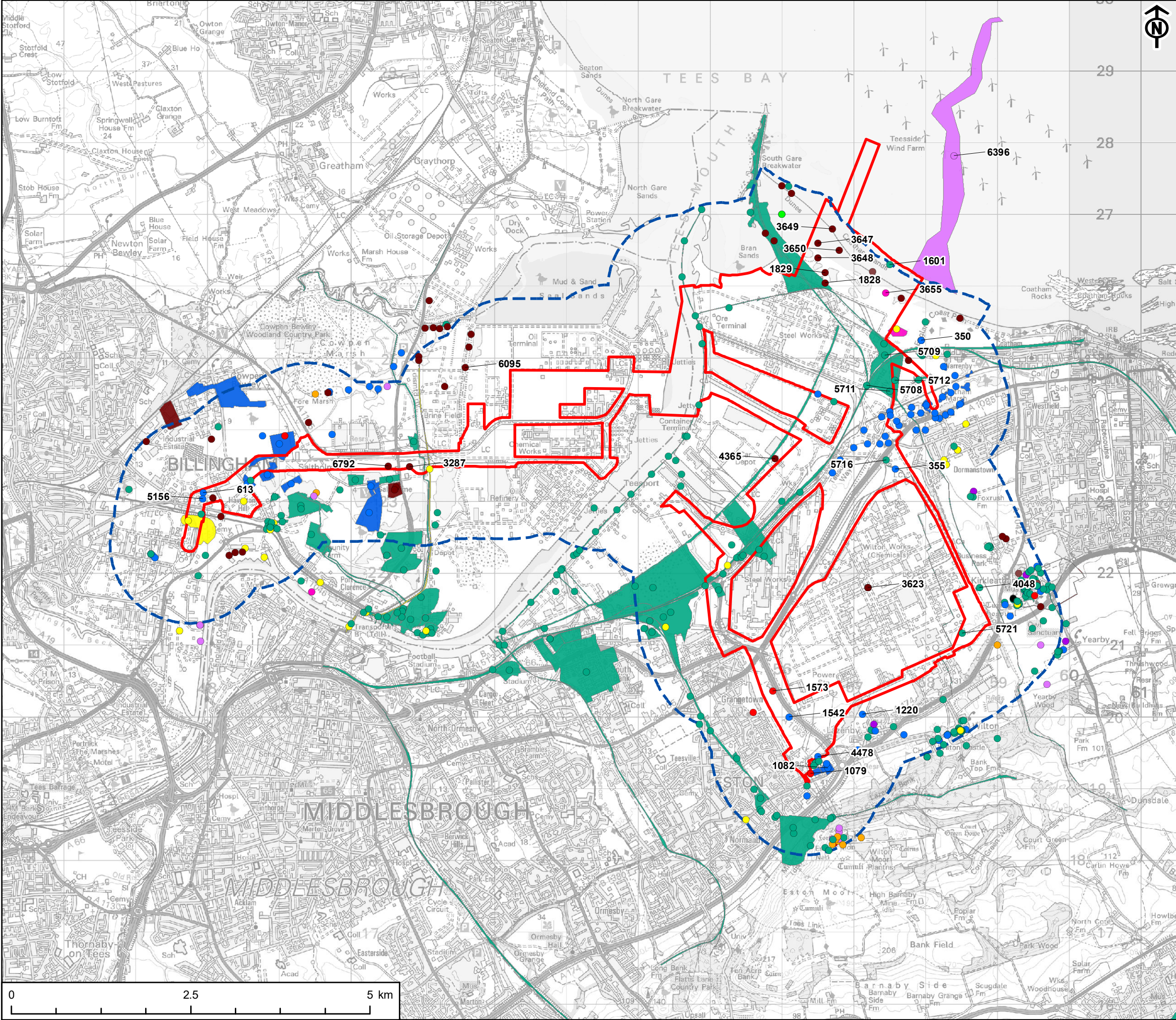


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|                                 |                           |
|---------------------------------|---------------------------|
| PROJECT                         |                           |
| NET ZERO TEESIDE                |                           |
| CLIENT                          |                           |
| NZT POWER AND NZNS STORAGE      |                           |
| KEY                             |                           |
|                                 | Site Boundary             |
|                                 | 5km Study Area            |
|                                 | Grade I Listed Building   |
|                                 | Grade II* Listed Building |
|                                 | Grade II Listed Building  |
|                                 | Scheduled Monument        |
|                                 | Park and Garden           |
|                                 | Conservation Area         |
| TITLE                           |                           |
| FIGURE 18-1                     |                           |
| LOCATION OF DESIGNATED HERITAGE |                           |
| ASSETS IN THE 5KM STUDY AERA    |                           |
| REFERENCE                       |                           |
| NZT_200618_TA_S_18A_18-1_v3     |                           |
| SHEET NUMBER                    | DATE                      |
| 1 of 1                          | 18/06/2020                |





PROJECT

NET ZERO TEESSIDE

CLIENT

NZT POWER AND NZNS STORAGE

KEY

Site Boundary

1km Study Area

HER Heritage Assets - Point

Palaeolithic

Neolithic

Bronze Age

Iron Age

Prehistoric

Roman

Early Medieval

Medieval

Post-Medieval

World War I

World War II

Modern

Unknown

HER Heritage Assets - Polygon

Prehistoric

Medieval

Post-Medieval

World War I

World War II

Modern

TITLE

FIGURE 18-2  
LOCATION OF NON-DESIGNATED HERITAGE  
ASSETS IN THE 1KM STUDY AERA

REFERENCE

NZT\_200618\_TA\_S\_18-2\_v3

SHEET NUMBER

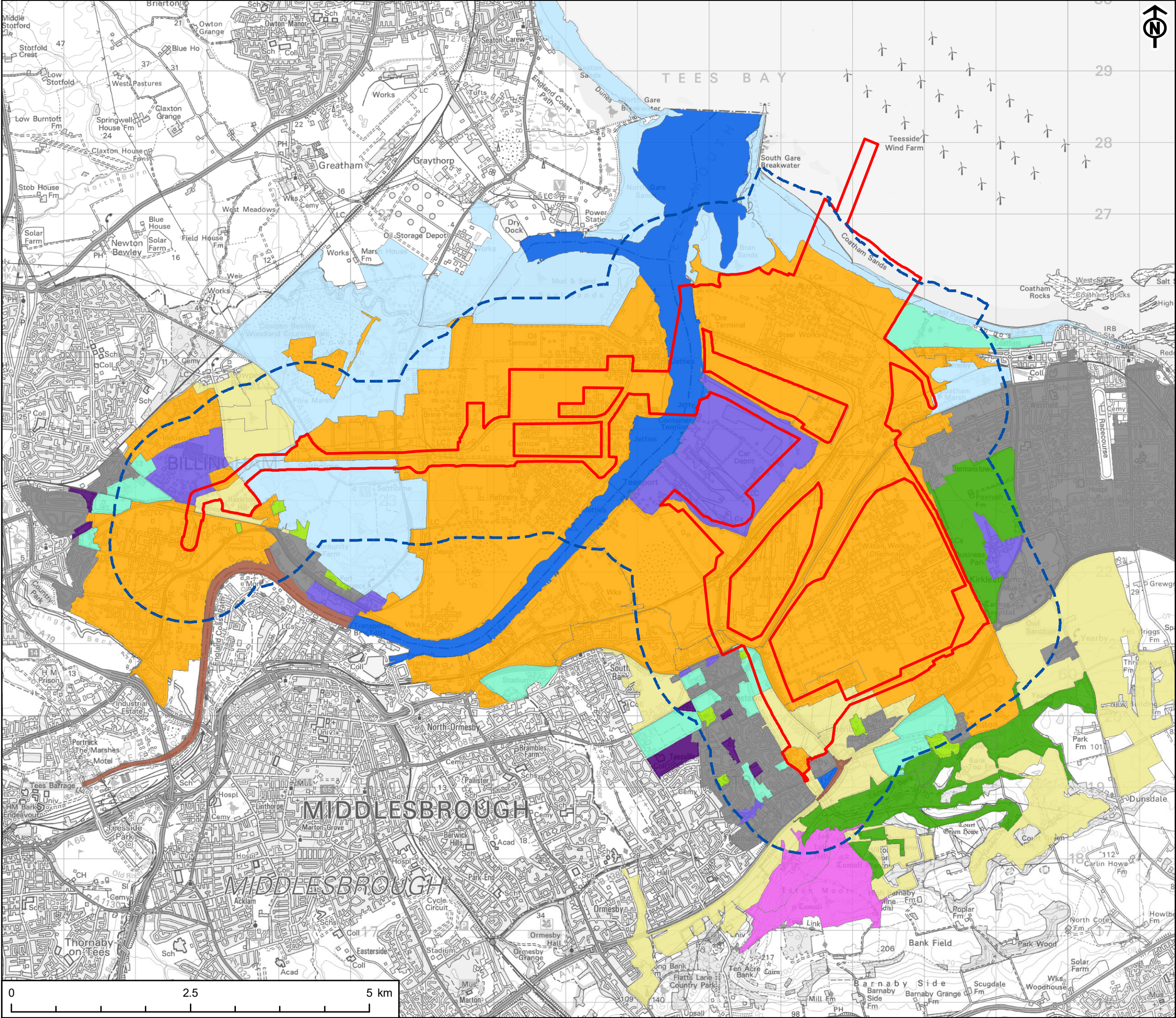
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DATE

18/06/2020

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|              |  |
|--------------|--|
| PROJECT      | NET ZERO TEESIDE   |
| CLIENT       | NZT POWER AND NZNS STORAGE   |
| KEY          | <div><div>Site Boundary</div><div>1km Study Area</div><div>Historic Landscape Character</div><div>Coastal</div><div>Commercial</div><div>Communications</div><div>Designed landscape</div><div>Enclosed land</div><div>Industrial</div><div>Institutional</div><div>Recreational</div><div>Settlement</div><div>Unenclosed land</div><div>Water</div><div>Woodland</div></div> |
| TITLE        | FIGURE 18-3<br>HISTORIC LANDSCAPE CHARACTER  |
| REFERENCE    | NZT_200618_TA_S_18A_18-3_v3  |
| SHEET NUMBER | 1 of 1   |
| DATE         | 18/06/2020   |