

Design, Access & Heritage Statement Land of Iron Interpretation – Grosmont

Overview

150 years ago, parts of the North York Moors boomed as a pioneering centre of ironstone mining and railway building. Grosmont, the Esk Valley, Kildale and Rosedale rang with the sounds of this 'Land of Iron', as the landscape bent and buckled under the might of Victorian industry. A £4 million Landscape Partnership Scheme, funded by the Heritage Lottery Fund, North York Moors National Park (NYMNP), David Ross Foundation and many other partners, tells the story of this short but intense period of exploitation which left a huge impact on the landscape and local communities.

The Scheme has three parts:

History: Record and conserve the legacy of an industrial past as it slowly melts back into the landscape – archaeological investigation, cutting-edge 3D modelling, sensitive building conservation works.

Environment: Nurture and protect the natural world, helping it to flourish for many years to come – looking after species, habitats and wild places.

People: Tell the stories of the people, industry and landscape that made the Land of Iron – interpretation and education to engage and inspire.

The stories from the Land of Iron are fascinating to hear – the ambition of the pioneering industrial speculators; the scale of the construction, mostly done by hand, the lifestyle of those working in and around the mines and railway; and the resilience of the natural environment that has seen this industry come and go. Many of these stories hold valuable lessons for our modern communities, now and in the future.

An exciting range of interpretation has been developed to tell these stories – external information boards, 3D cast iron models, an interactive online archive, waymarked walking and cycling trails, school visits and education packs, and a new exhibition at the Moors National Park Centre.

External interpretation

The subject of this planning application is the external interpretation features at Grosmont, on and around the Rail Trail. These form part of a cohesive network of interpretation across the Land of Iron. Figure 1 overleaf shows the location of the physical interpretation features in the landscape.



Figure 1 – External interpretation overview

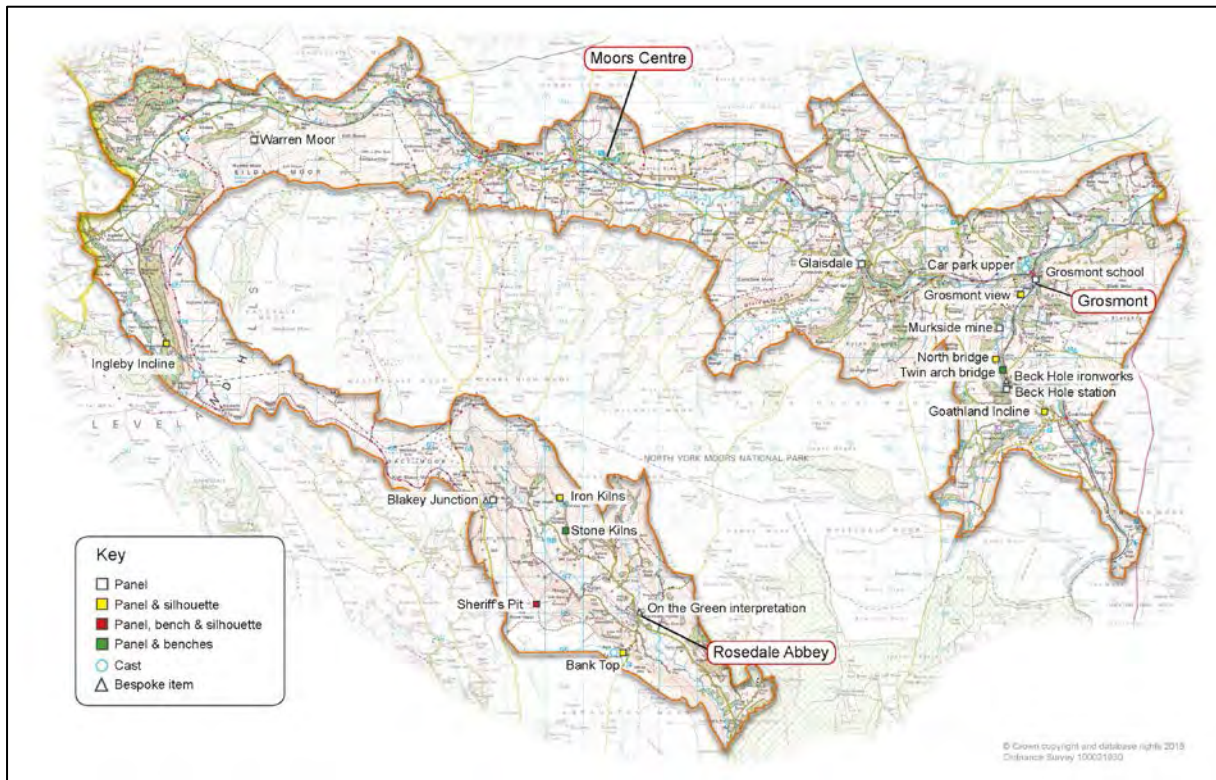
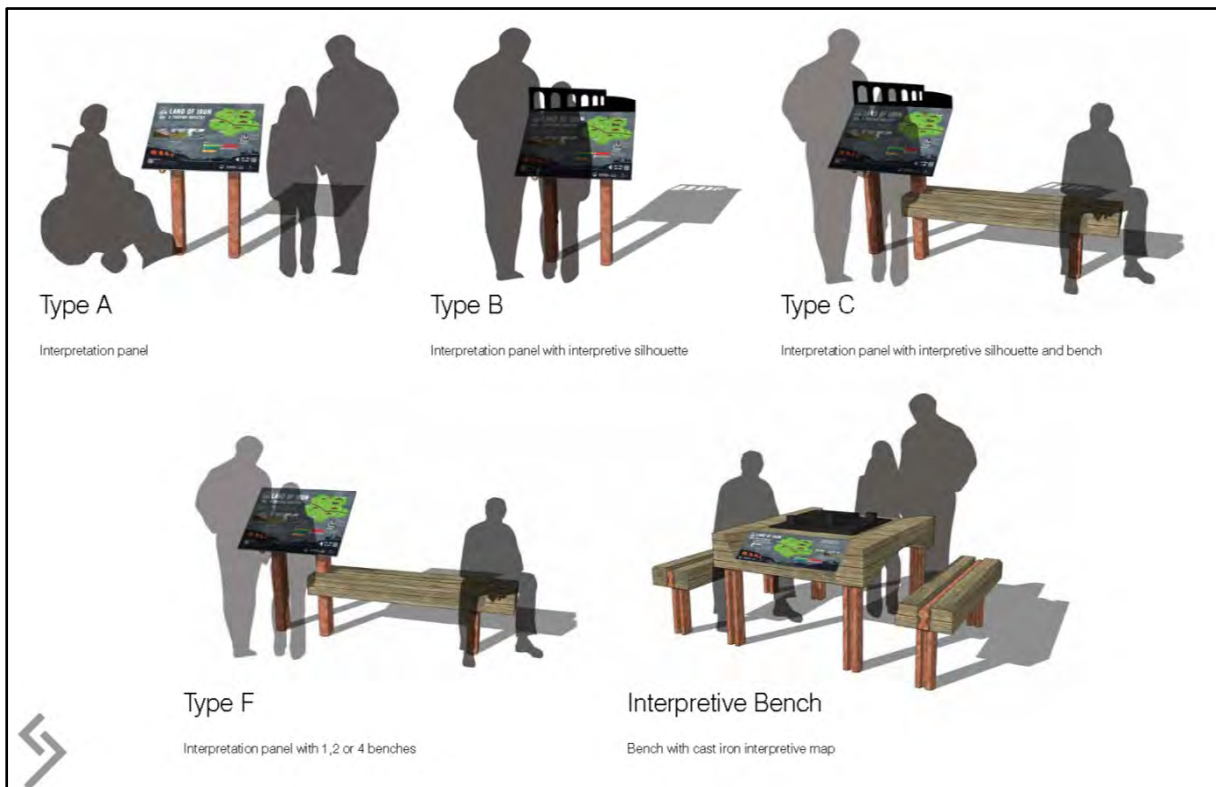


Figure 2 – Design proposals



A design style taking inspiration from the industrial heritage has been developed into a portfolio of external interpretation features shown in Figure 2 overleaf. Reclaimed train track from the North Yorkshire Moors Railway is proposed for the interpretation supports and as an inset to the seats, heavy duty seasoned oak for the seats and frames, COR-TEN steel silhouettes to outline the landscape as it used to be in line with the viewer's eye, and 3D cast iron models of the key sites and landscapes to transport the viewer back in time.

All design and specification provides a high degree of robustness, longevity and ease of maintenance. The interpretation is designed to improve aesthetically as it weathers, reflecting the aged nature of the industrial heritage it relates to. The printed information panels use the 'Vault' external signage system and have a proposed service life of 10+ years. The cast iron models, train track legs and oak frames have an expected service life of well over 10 years, and therefore it is envisaged that the printed panels could be easily replaced at some point in the future whilst retaining the original models, legs and frames.

Accessibility of the interpretation has been a key consideration in both its strategic and detailed design. Sites have been selected for the best possible physical accessibility with greatest priority and investment given to the most accessible sites, e.g. Rosedale Bank Top. The detailed design of the interpretation features themselves has focussed on:

- Enabling wheelchair access, e.g. silhouette viewing positions are at seated height, meaning standing adults will need to crouch to assume the correct viewing position.
- Providing seating to promote stopping, resting and taking in the surroundings.
- Providing tactile experiences, e.g. 3D cast models.

Many of the other interpretation proposals as part of the wider Scheme, e.g. virtual 3D models, Moors Centre exhibition, historic photo transitions, and online archive, will improve accessibility of this heritage further still.

The design, number and locational spread of features across the National Park, and the individual locations of each feature have been chosen to create negligible visual impact on the landscape. In places, the proposed features replace existing boards, e.g. Rosedale Kilns, and in some places two existing boards will be replaced with one new feature, e.g. Blakey car park.

Heritage Statement

Cultural heritage:

There are no designated heritage assets (scheduled monuments, listed buildings, registered parks or gardens, battlefield or protected wrecks) within the proposed work areas.

The NYMNP Historic Environment Record (HER) contains a number of entries that cover the area of proposed works:

- Grosmont Ironworks and Grosmont School locations fall within the boundary of Grosmont Village (HER 4735).
- The location of Grosmont Ironworks interpretive features also falls within the boundary of the late 19th century Grosmont Ironworks complex (HER 1631).
- There is a 19th century disused ironstone mine close to the Grosmont School location but not within its immediate proximity (HER 6610).
- There are no HER entries directly relating to the location of Grosmont view interpretation board. However, there is an entry for earthworks south west of Grosmont that is nearby (HER 4903).
- The location of Murkside Mine interpretation board is within an area of field systems, thought to date to the 12th-14th centuries (HER 8111). This site is also within the immediate vicinity of two 19th century features; the Whitby and Pickering railway (HER 7528) and the calcining clamp that is linked via tramway to the ironstone mine at Blakey (HER 6805). There is also a further calcining clamp nearby (HER 10072).

The History of Grosmont and the Whitby and Pickering railway have been extensively documented.

Until the coming of the railway there was nothing in Grosmont with the exception of a farm and the remains of a 13th century priory.

The Whitby and Pickering railway was an extremely important transport route for developing the industry and improving access across the North York Moors area. The railway is connected to national railway pioneers; George Stephenson and George Hudson. Stephenson was instrumental in the initial creation of the route as a single track horse-drawn railway (1832-1845). Hudson developed it further into a double tracked steam railway (1845-1854). This can be clearly seen in the two tunnels at Grosmont; the first and smaller one was built for horse drawn carriages and then the second larger one constructed to allow room for two locomotives to pass.

The station at Grosmont is the original 1836 building, which was built before London had any railway stations.

Ironstone was mined in Grosmont from the introduction of the railway in the 1830s. However, until 1862 it had always been shipped to Tyne and Wear. In 1862 works set about creating a processing plant that included two blast furnaces. These blast furnaces were then extended and a third added by 1875. The furnaces ceased operation in 1891. Much of the slag produced during this time was recycled for use in road building and it wasn't until 1857 that the chimney was demolished.

There was also a nearby brickworks that operated between 1870 and 1957.

Although most of the structures have now been demolished and the ironworks area is used as a NYMNP car park, there are still some substantial archaeological remains visible amongst the flora.

Grosmont has a significant number of visitors each year and the North Yorkshire Moors Railway and Rail Trail footpath are particularly popular attractions.

At Grosmont Ironworks the interpretive features have the potential to disturb buried archaeological deposits associated with the iron processing. However, the placement of the interpretive features does avoid direct impact on locations of known structures.

At Grosmont School the proposed location of the board is adjacent to the historic location of an embankment associated with the Whitby and Pickering railway.

At Grosmont View there appears to be a small embankment evident on LiDAR associated with the current footpath, but no clear archaeological evidence likely to be affected in this location.

At Murkside Mine historic mapping suggests the positioning of the board is directly over the tramway siding for the mine. However, LiDAR suggests that it is located next to it as does the HER. Therefore, there is potential to disturb the buried remains of the tramway.

There will be negligible visual impact to the railway route and its associated features. In contrast the benefit to the public in providing information and highlighting the archaeological features is substantial.

In any areas of potential archaeological interest an archaeological watching brief will be carried out by NYMNPA staff or other suitably qualified archaeologists as part of the installation process, and any archaeological remains recorded and archived. Furthermore, this process will help enable the potential relocation or realignment of interpretation features if archaeological deposits of particular value are found during excavations.

The proposed locations for all interpretation features have been selected for the minimum impact on archaeological features, e.g. away from known buried deposits. The design of below-ground fixings has been developed to minimise ground disturbance whilst still providing a robust and sustainable foundation, e.g. shorter legs with support plates in areas of known shallow substrate. Where any archaeological layer or feature is encountered it will be protected from any introduced concrete foundations.

Natural heritage:

The interpretation features will have a minimal footprint at ground level and will therefore have a negligible impact on surrounding land management. After preliminary discussions with Natural England, it has been ascertained that the presence of the proposed structures will not adversely impact any agri-environment agreements that are held in relation to the land.

The locations of all features have been selected based on minimum impact on the natural environment, i.e. in areas adjacent to public access routes that are already subject to routine disturbance, a dominance of coarser vegetation or where closely grazed and away from the canopy and root protection areas of existing trees wherever possible. Tree impact assessments have been carried out where boards are within the proximity of surrounding trees.

Sites will be assessed by appropriately trained National Park Authority staff prior to install for sensitive vegetation and protected species, such as evidence of nesting birds. Where such

features are present, action will be taken to avoid or minimise disturbance to these features as appropriate.

Details of interpretation features at Grosmont

Four interpretation features are proposed on and around the Rail Trail between Grosmont and Murkside:

1. **Grosmont car park** – cast iron model and seats.
2. **Grosmont School** – lectern interpretation board.
3. **Grosmont viewpoint** – silhouette and lectern interpretation board.
4. **Murkside Mine** – lectern interpretation board.

Plans of the proposals are provided in the attached “Grosmont Interpretation Proposals.pdf” document. Further information on each site is provided below:

1. Grosmont car park

The site of Grosmont Ironworks, a once expansive industrial complex with 3 blast furnaces producing pig iron 24 hours a day 7 days a week, but now a leafy green car park and visitor arrival point.

- *Landowner* – Scarborough Borough Council, lease and management agreement in place.
- *Natural heritage considerations* – Tree roots from nearby trees to be protected (see attached Tree Survey and Method Statement for installation procedures).
- *Cultural heritage considerations* – Site of former ironworks, high potential for buried archaeological features so archaeological watching brief to be carried out during installation (see attached Written Scheme of Investigation).
- *Access considerations* – A busy public car park so installation to take account of this (see attached Method Statement).



2. Grosmont School

An existing dilapidated timber interpretation board here introduces visitors to the Rail Trail. The location is a key junction of the Rail Trail path and route to the village and engine sheds, and so is a key site for visitor information.

- *Landowner* – TBC, management agreement in place.
- *Natural heritage considerations* – Tree roots from nearby trees to be protected (see attached Method Statement for installation procedures).
- *Cultural heritage considerations* – Alongside former horse-drawn railway, high potential for buried archaeological features so archaeological watching brief to be carried out during installation (see attached Written Scheme of Investigation).
- *Access considerations* – Alongside popular public right of way and café so installation to take account of this (see attached Method Statement).



3. Grosmont viewpoint

Spectacular high viewpoint over Grosmont where interpretation could help the viewer appreciate the huge changes in the village over time. The site of the former Ironworks and blast furnaces clearly visible as currently the tree-covered National Park car park.

- *Landowner* – Private, management agreement in place.
- *Natural heritage considerations* – Tree roots from nearby trees and hedgerow to be protected (see attached Method Statement for installation procedures).
- *Cultural heritage considerations* – No constraints identified.
- *Access considerations* – Alongside popular public right of way so installation to take account of this (see attached Method Statement).



4. Murkside Mine

Stopping point on the Rail Trail to take small excursion along a public footpath to see the remains of fused ironstone clamps left here from the mining operations around 150 years ago.

- *Landowner* – North York Moors National Park Authority.
- *Natural heritage considerations* – Tree roots from nearby trees and hedgerow to be protected (see attached Method Statement for installation procedures).
- *Cultural heritage considerations* – Site of former railway and alongside junction of Dowson's Garth siding, high potential for buried archaeological features so archaeological watching brief to be carried out during installation (see attached Written Scheme of Investigation).
- *Access considerations* – Alongside popular public right of way so installation to take account of this (see attached Method Statement).





NYMNP

04/01/2019

LAND OF IRON

Archaeological Watching Brief Methodology



Funding raised by
The National Lottery
and awarded by the Heritage Lottery Fund




David Ross Foundation
Broadening Horizons

Archaeological Watching Brief Methodology

1 General

- 1.1.1 Land of Iron (hereafter 'the Project') archaeological watching briefs will comprise the monitoring of invasive works in areas where there is potential to encounter archaeological contexts. All monitoring works will be undertaken by a NYMNPA archaeologist or suitably qualified archaeologist. The works will be managed by the NYMNPA Land of Iron Cultural Heritage Officer.
- 1.1.2 A relevant risk assessment will accompany this document.
- 1.1.3 Any work in watercourses will require an amendment to this methodology.
- 1.1.4 All works on site will be undertaken in accordance with national guidelines (ClfA, 2014a) (Historic England, 2015a).

2 Monitoring and recording

- 2.1.1 All archaeological features and deposits encountered e.g. pits, walls, ditches etc. will be investigated and recorded.
- 2.1.2 The archaeologist on site will ensure that any mechanical excavations will be conducted with a toothless bucket. All excavation will be carried out in spits to maximum depth of 0.3m for mechanical excavation and 0.2m for manual. This will allow for unhampered monitoring.
- 2.1.3 Recording techniques will comprise a written and drawn record utilising the standard context record system, building a stratigraphic matrix of the site as a whole. All plans will be drawn at 1:50 or 1:20 scale, and sections and elevations at 1:20 or 1:10 as appropriate.
- 2.1.4 A day record will be completed during each day of the watching brief. This will contain information on the events of the day including any meetings, phone calls, summary of finds/features, notes etc.
- 2.1.5 All features and trenches will be planned and tied into the National Grid.
- 2.1.6 A photographic record of the Site will comprise digital images taken on a camera with at least a 10 megapixel sensor. All images will include an appropriately sized scale and will be taken in RAW format and processed into TIFFs in line with national guidance (Historic England, 2015b).
- 2.1.7 All artefacts and finds encountered within an archaeological deposit will be retained. Un-stratified finds will generally remain on site and will only be kept should they be of high significance. All finds will be treated in the proper manner as set out in guidance issued by York Museum Trust (Turnpenny, 2012) which adheres to all national guidelines (ClfA, 2014b).

2.1.8 It is not envisaged that human remains will be encountered, however, should this prove to be the case all work on site will cease and this methodology will be amended accordingly.

3 Access and Storage

3.1.1 The archaeologist will ensure that no spoil is placed upon known archaeological features, and if it needs to be temporarily stored on site, it will be stored on a permeable membrane.

3.1.2 Machine and vehicle access to site may be temporarily prohibited by the archaeologist in order to minimise damage to known archaeological features if the ground is too wet.

3.1.3 The archaeologist will ensure adherence to measures to protect the general public as identified in the risk assessment.

4 Reporting

4.1.1 All post-excavation work and reporting will be completed in accordance with ClfA standards (2014) and MoRPHE (Historic England, 2015a). The report for this site will be produced as part of a larger scheme of archaeological works for the Project.

4.1.2 The report will comprise:

- a summary of the project background;
- a description of the Site, including the NGR location;
- a description and review of the methodology;
- a description and interpretation of the results;
- a consideration of the results within the regional and national setting as appropriate;
- plans and sections of trenches and archaeological features;
- a selection of representative photographs;
- a table of the stratigraphic matrices and relationships where appropriate;
- a statement of the location and format of the archive; and,
- recommendations for future work and site management.

4.1.3 The report will also include a full bibliography. The introduction and summary of the report should make it clear that this work was undertaken in line with the approved methodology.

- 4.1.4 The report will be completed prior to the commencement of the Project in March 2021. Copies of the report will be made available to the Local Planning Authority. A digital version of the report will be supplied to the HER as a .pdf file, including photos and illustrations, with plans and sections as appropriate. Digital copies of the report will be made available to other national bodies, as requested and submitted online as an OASIS record (<http://oasis.ac.uk/form/>).

5 Archive

- 5.1.1 The site archive will comprise all primary written documents, plans, sections, and a complete set of labelled photographic images, with a copy of the report. All photos will be provided as TIFFs for storage as part of the archive. The archive should be ordered and internally consistent and prepared to a minimum standard in accordance with York Museums Trust guidelines (Turnpenny, 2012) and industry guidance (ClfA, 2014c). An OASIS form will be completed which will include a copy of the Site report.
- 5.1.2 It is the responsibility of the Project to endeavour to obtain consent of the landowner, in writing, to the deposition of the finds with the recipient of the site archive. The archive should be deposited with the recipient institution within 6 months of completion of Project.

6 Publication and dissemination

- 6.1.1 In addition to the above (5.1.1) the findings of this investigation will be made available within the larger scheme of publication by the Project, which is yet to be determined.

7 Bibliography

ClfA, 2014a. *Standard and guidance for archaeological excavation*, Reading: ClfA.

ClfA, 2014b. *Standard and guidance for the collection, documentation, conservation and research of archaeological materials*, Reading: ClfA.

ClfA, 2014c. *Standard and guidance for the creation, compilation, transfer and deposition of archaeological archives*, Reading: ClfA.

Historic England, 2015a. *Management of Research Projects in the Historic Environment*, London: Historic England.

Historic England, 2015b. *Digital Image Capture and File Storage: Guidelines for Best Practice*, s.l.: Historic England.

Turnpenny, M., 2012. *Archaeological Archive Deposition Policy for Museums in Yorkshire and the Humber*, York: Yorkshire Museums Trust.

North York Moors National Park Authority
This Exploited Land of Iron



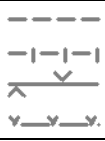
Funding raised by
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Title: Grosmont School Tree Survey

Date: 06/12/2018

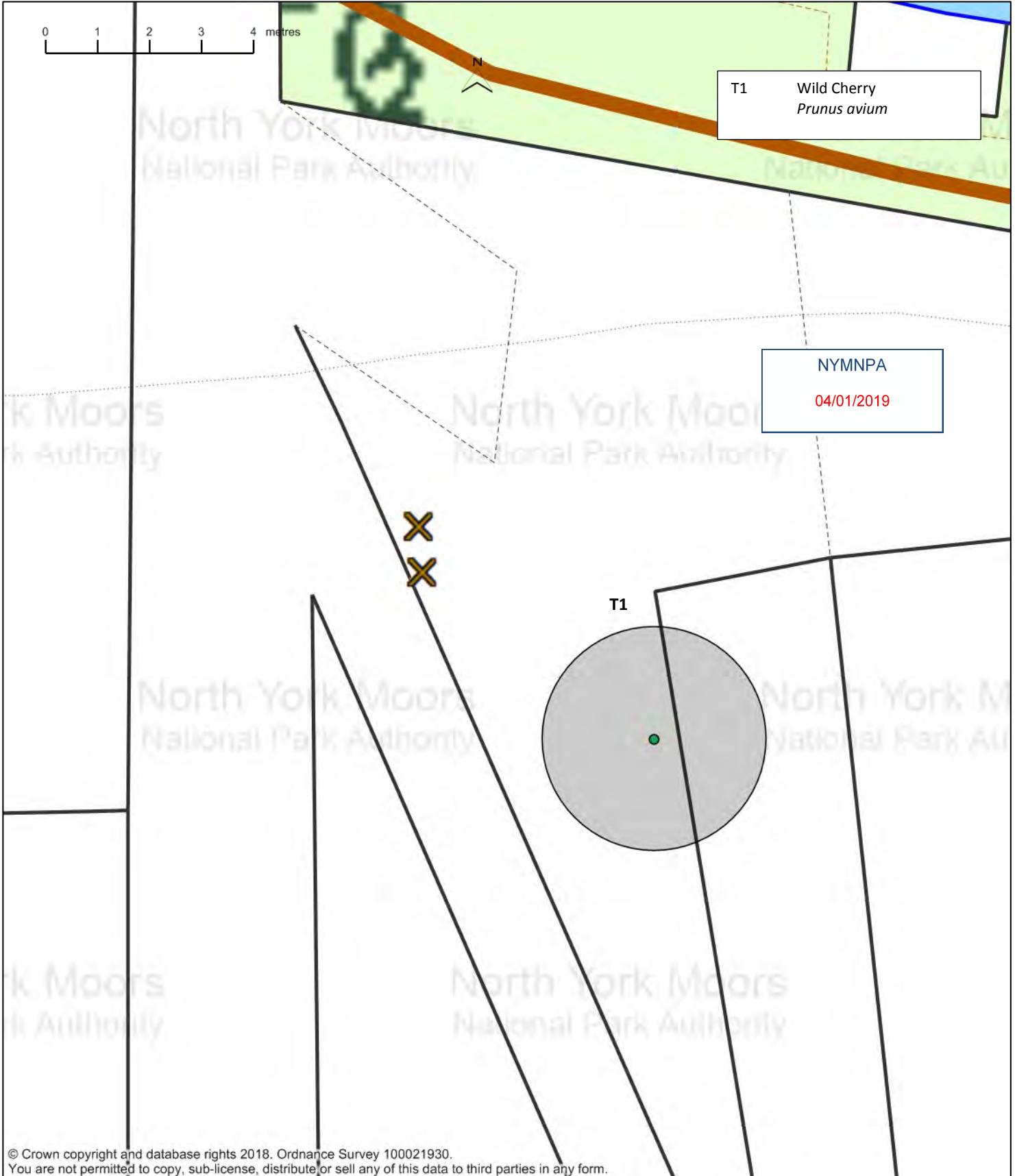
Drawing number: INT GT 02



Footpath
 Bridleway
 Byway open to all traffic
 Restricted byway



Interpretation groundwork location
 Tree (stem/trunk to scale)
 Root Protection Area





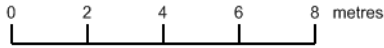
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Footpath
 Bridleway
 Byway open to all traffic
 Restricted byway



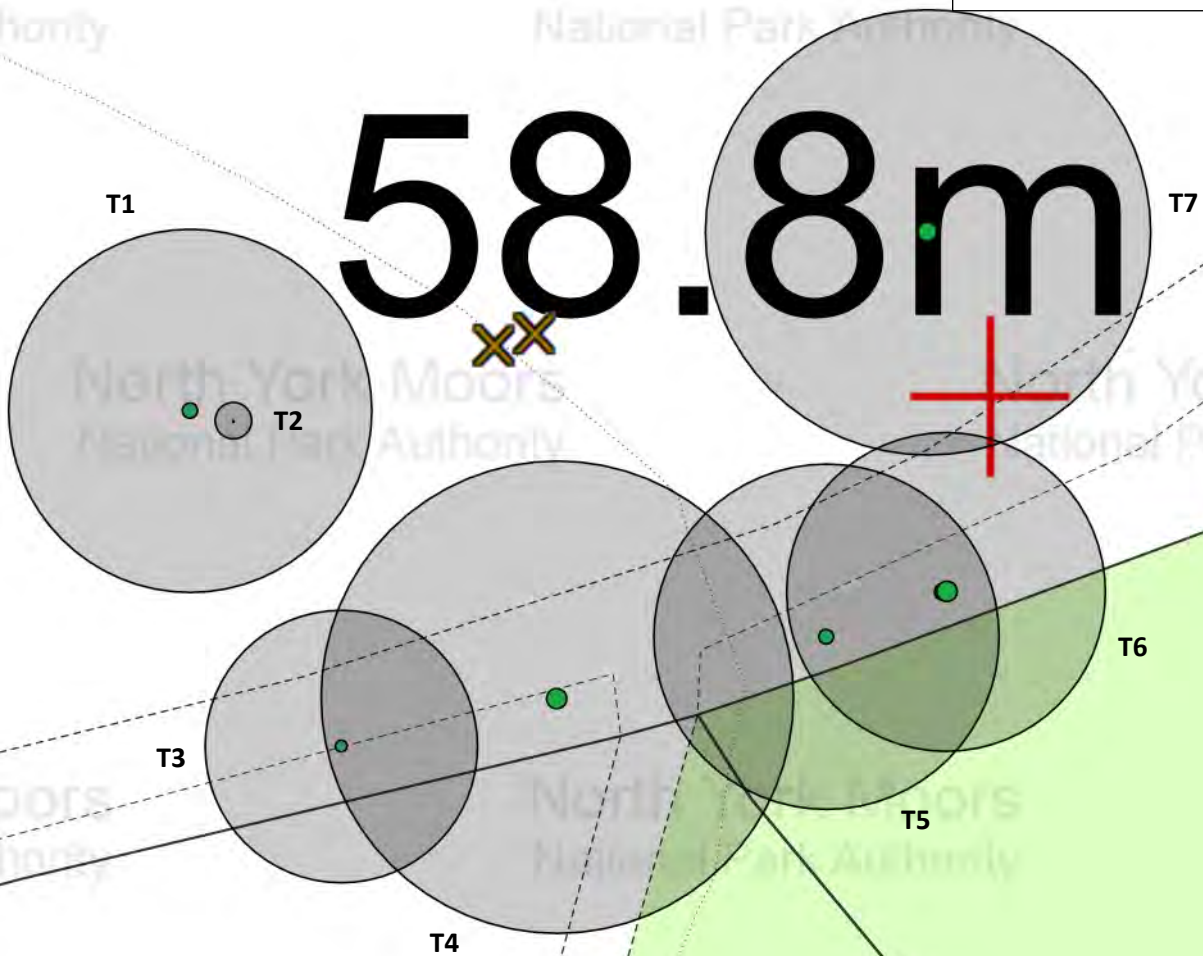
Interpretation groundwork location
 Tree (stem/trunk to scale)
 Root Protection Area



T1	Common Hawthorn <i>Crataegus monogyna</i>
T2	Common Hawthorn <i>Crataegus monogyna</i>
T3	European Ash <i>Fraxinus excelsior</i>
T4	European Ash <i>Fraxinus excelsior</i>
T5	European Ash <i>Fraxinus excelsior</i>
T6	European Ash <i>Fraxinus excelsior</i>
T7	Common Hawthorn <i>Crataegus monogyna</i>

NYMNPA
 04/01/2019

58.8m





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Footpath
 Bridleway
 Byway open to all traffic
 Restricted byway

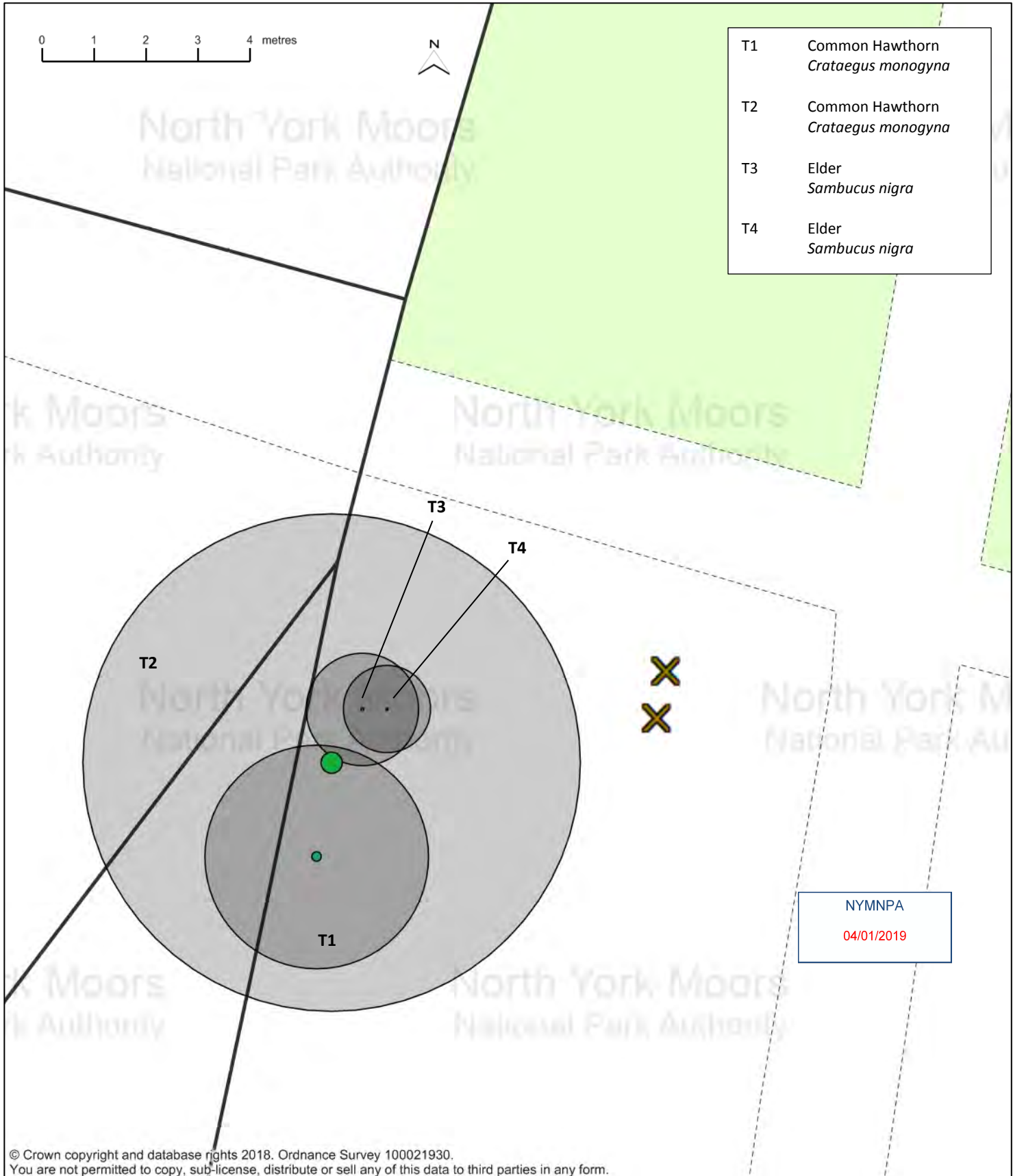


Interpretation groundwork location
 Tree (stem/trunk to scale)
 Root Protection Area

0 1 2 3 4 metres



T1	Common Hawthorn <i>Crataegus monogyna</i>
T2	Common Hawthorn <i>Crataegus monogyna</i>
T3	Elder <i>Sambucus nigra</i>
T4	Elder <i>Sambucus nigra</i>



NYMNP
 04/01/2019



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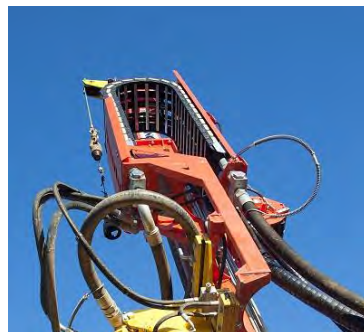
REPORT NO: D9255

PRELIMINARY INVESTIGATION OF LAND AT

GROSMONT CARPARK

PREPARED FOR:

NORTH YORK MOORS NATIONAL PARK AUTHORITY



● FOUNDATION HOUSE ● ST. JOHN'S ROAD ● MEADOWFIELD ● DURHAM ● DH7 8TZ



Contract No.	D9255
Job Name	GROSMONT CAR PARK

REPORT REVISIONS

Revision No.	Issue Date	Details
D9255/01	10.01.19	

VERIFICATION

Revision No.	Issue Date		Written By	Checked By	Verified By
D9255/01	10.01.19	Initials	TMK	RS	RS
		Signature			

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LIST OF APPENDICES

APPENDIX A - Drawings

Drawing Number	Drawing Title
D9255/01	Site Location Plan
D9255/02	Preliminary Conceptual Site Model

APPENDIX B - Photographic Survey

APPENDIX C - Desk Study Information

APPENDIX D - Dunelm Conditions of Offer, Notes on Limitations & Basis for Contract

1.0 SCOPE OF INVESTIGATION

Dunelm Geotechnical and Environmental Limited (Dunelm) carried out a Preliminary Investigation (Desk Study) of land at North York Moors National Park, Grosmont, on behalf of North York Moors National Park Authority.

It is proposed to develop the site with interpretation structures comprising tables with four graphic panels and standalone benches within the existing carpark.

The purpose of this preliminary investigation is to evaluate likely ground conditions and significant geoenvironmental issues at the site, and to plan the scope of subsequent phases of investigation of required.

This report may be regarded as a Preliminary Risk Assessment in accordance with the Environment Agency's guidance document *Model Procedures for the Management of Land Contamination* (CLR 11, 2004).

This preliminary investigation has been undertaken with due regard to current contaminated land guidance issued by the Royal Institution of Chartered Surveyors (RICS) together with BS 10175: 2011, "Code of Practice for the Investigation of Potentially Contaminated Land" and relevant sections of BS 5930: 2015, "Code of Practice for Site Investigations".

The objectives of the investigation were as follows:

- To determine the land use history of the site from an inspection of available Ordnance Survey (OS) plans;
- To determine the environmental setting of the site from available sources;
- To determine whether past mining may have had an influence on the site;
- To determine whether the site has previously been used for purposes that may have given rise to significant ground contamination;
- To provide recommendations for further investigation if required.

Information has been obtained from various sources and the full responses received are presented in Appendix C; details relevant to the site are discussed in Sections 3 and 4.

Conditions of offer and notes on limitations relevant to all Dunelm geoenvironmental investigations are described in Appendix D and should be read in conjunction with this report.

2.0 SITE RECONNAISSANCE

2.1 GENERAL

The centre of the site is located at OS Grid Ref 482649, 505382. The site is situated immediately west of Grosmont town centre. The site location is shown in Drawing No. D9255/01 in Appendix A to this report.

A preliminary site inspection was undertaken on 4th January 2019 and site photographs are presented in Appendix B.

2.2 TOPOGRAPHY & SITE FEATURES

The site slopes down from the centre towards the western boundary. The highest point of the site is the eastern car park (Photograph 2 and 3).

The site boundaries currently comprise mature trees in the north, south, east and west. Front Street is present beyond the southern perimeter of the site, Grosmont railway station is present immediately east of the site. The River Esk marks the western boundary in the north of the site.

There are mature trees and woodland throughout the site.

2.3 EVIDENCE OF PRESENT AND FORMER LAND USE

The site is part of the North Yorkshire Moors National Park and is used as a woodland area with informal car parking areas in the west and east of the site.

Relict structures associated with former Grosmont Ironworks are present throughout the site.

The eastern car park, which has the highest elevation on the site (Photos 2 and 3), comprises a roughly level hardcore car park which is divided by mature trees. Along the eastern boundary of the eastern car park is a high sandstone wall and railway line with a pedestrian bridge allowing access to the train station.

The eastern car park has a higher elevation than the western car park with a slope down to the western car park. The eastern car park (Photographs 4 and 5) has an elevation between 8m and 12m above the western car park and is accessed via stairs which pass a relict hoist (Photograph 6). The western car park is level and surfaced with tarmac and is surrounded by woodland.

An above ground pipe approximately 30cm in diameter and noted to be lagged with rubber, is located along the western boundary of the site.

The north of the site (Photographs 1 and 9) is covered with woodland which is mainly silver birch, in the centre a number of buildings and allotments were noted. Several footpaths were noted which extend beyond the site, one of which leads down to the river bank to the northwest of the site, at the end of the footpath was a disused tramway bridge (Photo 7 and 8) which crosses the River Esk which marks the western boundary of the site.

There was no signal of visual contamination noted during the site walkover.

3.0 SITE HISTORY

In order to determine the history of the site, extracts from historical Ordnance Survey (OS) plans have been examined. Dunelm have also been provided with an Archaeological survey of the area (Former Grosmont Ironworks, Grosmont, North Yorkshire Phase 1 Archaeological Survey) copies of these extracts are provided in Appendix C.

A summary of the history of the on-site and off-site features is presented below. It is not the intention of this report to describe in detail all the changes that have occurred on or adjacent to the site, only those pertinent to the site.

SUMMARY OF HISTORICAL INFORMATION

OS Map Edition	On-site Features	Off-site Features
1853-1854	Grosmont Iron works are present in the south of the site.	A railway line is present along the eastern and southern boundary of the site. The River Esk is present immediately west in the north of the site. The north of the site is characterised by open fields.
1892-1893	The site is labelled as a disused Iron Works. The west and south of the site have been worked. Several buildings are present in the northeast and south of the site. A tramway is present through the centre of the site.	Residential buildings are present south and east of the site. Old Levels are present 100m northeast of the site. An air shaft is present approximately 110m northwest of the site. Allotment gardens are present approximately 50m east of the site. Brick and tile works are present approximately 80m east of the site.

1913-1916	A tramway has been built in the north of the site. A chimney and old shafts are present in the south of the site. A new building is present in the south of the site.	A shaft is present approximately 90m west in the north of the site. A chimney is present in the south of the site.
1950	The tramways in the south and north of the site are no longer present on site.	No significant changes to off-site features.
1971-1976	Iron works are no longer labelled on the site. Footpaths have been built across the east of the site. Ground works are present in the west of the site. A building has been built in the east of the site. A carpark is present in the west of the site. The site is covered by trees.	Sewage works have been built approximately 50m west of the site. A scrap yard is present north of the site at the western extent of the site.
1995	No significant changes to onsite features.	No significant changes to off-site features.
2002	No significant changes to onsite features.	No significant changes to off-site features.
2014	No significant changes to onsite features.	No significant changes to off-site features.

Dunelm have been supplied with an archaeological report (Ref: Former Grosmont Ironworks, Grosmont, North Yorkshire Phase 1 Archaeological Survey) which indicates that the site was occupied by a former ironworks founded in 1862. The report mentions that the site included two blast furnaces, hot blast stoves, an engine house and boiler house with chimney, a bank of calcining kilns, and a steam lift, with a number of railway sidings and associated infrastructure.

4.0 ENVIRONMENTAL SETTING

4.1 INFORMATION SOURCES

The environmental setting of the site was determined through reference to the following:

- British Geological Survey (BGS) 1: 50,000 scale sheet No 43 Egton
- Coal Mining Report from David Bellis Associates (based on data obtained from the Coal Authority)
- Groundsure Report (including historical map extracts)
- BGS Borehole logs

4.2 GEOLOGY

The site is shown to be underlain by drift deposits comprising glacial clay, and sand and gravel.

A nearby historical borehole (NZ80NW) indicates glacial deposits to at least 10.50m bgl.

The solid geology underlying the site comprises the Cleveland ironstone formation.

No faults are shown in the vicinity of the site.

The Groundsure report includes ground hazard information from the British Geological Survey showing that there is a moderate hazard of compressible ground.

4.3 MINING AND QUARRYING

The site is not in an area affected by coal mining.

The mining report indicates that the site is affected by iron workings.

The mining report indicated that there are four recorded mine entries on site, including three disused mineshafts in the south and central to the site and a disused adit in the north east of the site.

The Groundsure report indicates former Ironstone quarry workings on the site.

4.4 HYDROLOGY

The nearest surface water feature is the River Esk approximately 20m west of the site.

The Groundsure report indicates a licensed water abstraction 351m east of the site. Water was extracted at Hollins Beck relating to a fish farm and cress pond throughflow.

There are 23 recorded discharge consents within 500m of the site relating to sewage discharges and stormwater overflow.

There is one recorded pollution incident in 2003 located 114m southeast of the site; this incident was classed as a minor incident and related to sewage materials.

The site is recorded as being situated within a zone of flooding from rivers and sea.

The site is recorded as being situated within a zone of flooding from surface water.

The site is shown to lie within a zone of high risk flooding from surface water flooding; further information should be sought from the Environment Agency since this may represent a significant constraint to development.

4.5 HYDROGEOLOGY

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary (A) Aquifer – with permeable layers. These formations, although not producing large quantities of water for abstraction, are important for supplying base flows to rivers.

The site does not lie within a source protection zone.

The Groundsure Report indicates two licensed water abstractions at 339m and 356m northwest of the site. Water was extracted for farming and domestic use from a spring (Staithe Sandstone).

4.6 LANDFILLS & OTHER POTENTIAL GAS SOURCES

The Groundsure Report indicates no recorded landfill sites located within 250m of the site.

The Groundsure report indicates that there is infilled land on site relating to disused ironworks, cuttings, refused heaps, railway slidings and old shafts. Consequently, there may be made ground that could represent a potential source of gas.

The Groundsure report indicates an area of made ground on the site. This appears to represent an infilled unspecified quarry that formerly existed at that location. The nature of the infill is unknown, however this feature could also represent a potential source of gas.

In addition, there is a possibility that small unrecorded local waste tips may have existed in the vicinity of the site prior to the introduction of waste licencing regulations.

4.7 RADON GAS

In accordance with the procedure described in BRE Publication BR211 *Radon: Guidance on Protective Measures for New Dwellings*, basic radon protection measures are required for new buildings on the site. Details of appropriate protective measures are shown in the above publication.

Whilst the BRE guidance was prepared in relation to domestic buildings, it is also considered generally appropriate to non-domestic structures, especially where the form of construction is similar to housing such as small office buildings.

4.8 OTHER SOURCES

The site lies within the North Yorkshire Moors National Park and it is likely that constraints will be placed on

built development. Enquiries should be made to the Local Planning Authority regarding this issue.

The Groundsure report indicates that a scrap yard, and a refuse heap were previously on or adjacent to the site.

5.0 CONCEPTUAL SITE MODEL

5.1 GENERAL

Based on the information presented in the preceding Sections, and in accordance with the CLR11 guidance noted in Section 1, a Preliminary Conceptual Site Model has been produced. A simplified diagrammatic form of the model showing the most significant features is included as Drawing No. D9255/02 in Appendix A.

It is understood that the site is to be developed with interpretation structures comprising tables with four graphic panels and standalone benches within the existing carpark.

The main features of the model are discussed in the following sections together with preliminary recommendations where appropriate.

5.2 LIKELY GROUND CONDITIONS

Based on available information, ground conditions are likely to comprise glacial clays, sand and gravel deposits, and made ground.

Made ground deposits together with buried obstructions associated with old foundations and services may be encountered.

5.3 MINING AND QUARRYING ASSESSMENT

The site is not in an area affected by coal mining.

The mining report indicates that the site is underlain by ironstone workings.

There are recorded mine entries on site comprising three shafts and an adit. There are no recorded treatment details for the mine entries. These historical mine entries should be regarded as a potential hazard, and if any future built development is proposed, then investigation of these features would be recommended.

The Groundsure report shows the site to have been occupied by a former quarry. Intrusive investigation will be required in future if any built development is proposed in order to determine the extent of this feature and evaluate the nature of infill materials.

5.4 HAZARD IDENTIFICATION – CONTAMINATION SOURCES

The desk study has shown that the site has been occupied previously and it is possible that contamination is present associated with the site's previous use as Grosmont Ironworks.

The site is located in an area that has been heavily industrialised in the past. Consequently, near-surface deposits may have been affected by slight contamination in the form of particulates emitted from chimneys, or include localised ash deposits.

Reference has been made to the following documents for an outline of potential contaminants for this land use:

- Dept. of Environment Industry Profile – Iron and Steel Works – Metal Manufacturing refining and finishing works.
- Dept. of Environment Industry Profile – Railway Land.

Based on the above references, the following potential contaminants have been identified associated with

the former site use:

- Metals,
- Asbestos,
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Hydrocarbons (TPH)

It should be noted that the above potential contaminants are considered to be commonly associated with the specified industrial land use; no evidence exists to indicate that such contaminants are present in the ground at the site. However, an intrusive investigation for any potential proposed built development should take into account the possibility that the above potential contaminants may be encountered. Risk assessment should be undertaken for contamination identified during intrusive investigation.

5.5 HAZARD IDENTIFICATION – GAS SOURCES

Potential sources of hazardous gas that could affect any built development on the site have been identified as follows:

- Former ironstone quarry on the site;
- Possible deep made ground on site;
- Possible mineworkings beneath site;
- Mine shafts on site and within 250m;

A hazardous gas risk assessment would therefore be recommended as part of an intrusive investigation for any built development at the site.

5.6 RISK ASSESSMENT FOR CONTAMINATED LAND

In the CLR11 guidance noted above, risk assessment for contaminated land should be conducted using the following four steps: Hazard Identification, Hazard Assessment, Risk Estimation, and Risk Evaluation.

The results of the Hazard Identification process (identifying potential contamination and gas sources) are shown in the preceding sections.

‘Hazard Assessment’ involves analysing the potential for unacceptable risks, i.e. identifying what receptors and pathways could be present, what pollutant linkages could result, and what the effects might be. ‘Pollution linkages’ is a term used to describe a particular combination of contaminant pathway and receptor.

Following the site’s redevelopment, significant receptors in terms of human health that could be affected by contamination will include future users of the site. Ecosystem receptors include Secondary A Aquifer.

Potential pollution linkages considered to be significant at this stage are shown on the Preliminary Conceptual Site Model in Appendix A.

Based on the model, potentially unacceptable risks have been identified and further action is therefore recommended should any built development be proposed in future for the site.

5.7 OTHER ISSUES

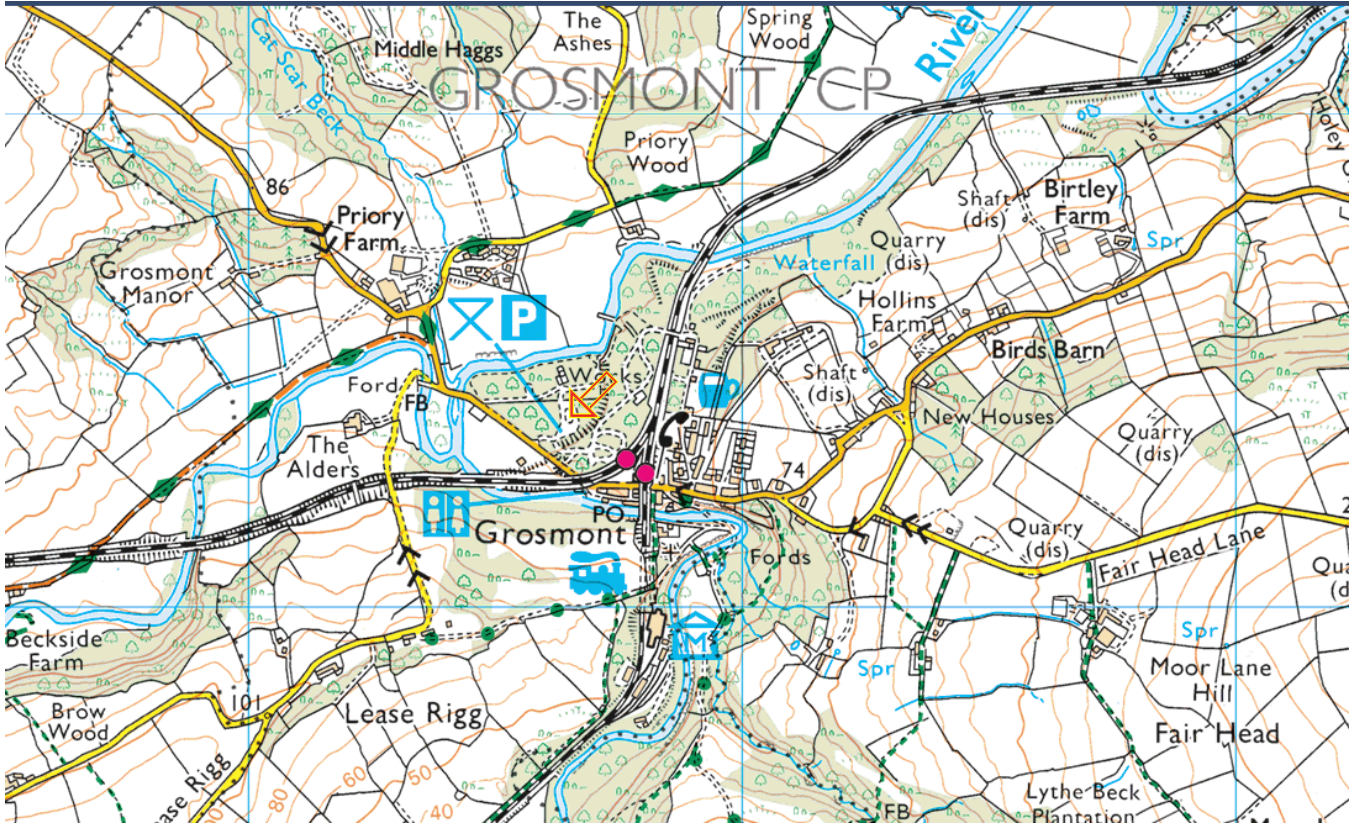
The site is shown to lie within a zone of significant flooding; further information should be sought from the Environment Agency since this may represent a significant constraint to development.

The site lies within the North Yorkshire Moors National Park and it is likely that constraints will be placed on any built development. Enquiries should be made to the Local Planning Authority regarding this issue.


APPENDIX A

DRAWINGS

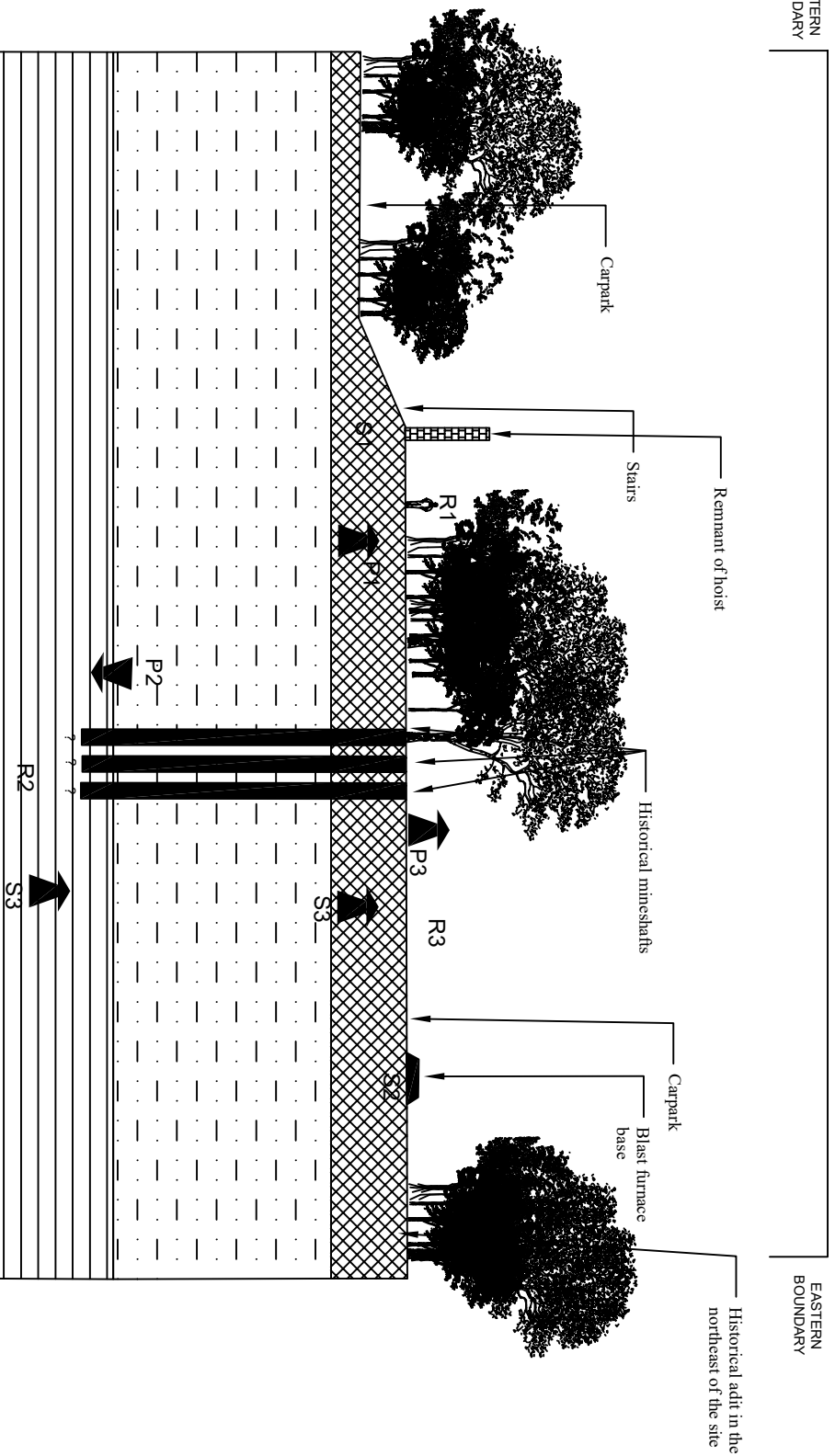




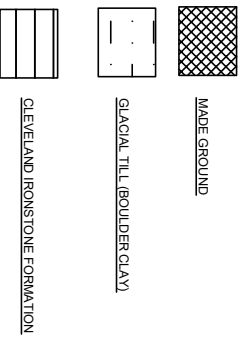
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	Contract: GROSMONT CARPARK		Contract No: D9255	
	Client: NORTH YORK MOORS NATIONAL PARK AUTHORITY			
TEL: 0191 378 3151 FAX: 0191 378 3157	Drawing Title: Site Location Plan			
Drawing No: D9255/01	Date: JANUARY 2019	Scale: NTS	Status: Final	Drawn by: TK

Cross Section Through the Site (Approximately West to East)



Ground Conditions Summary



Pollutant Linkages

SOURCE	PATHWAY	RECEPTOR
<ol style="list-style-type: none"> Contamination within the made ground. Potentially combustible ashy made ground. Potential ground gas generation. 	<ol style="list-style-type: none"> Inhalation, Dermal Contact or ingestion of determinants within made ground. Migration of contaminants into underlying natural deposits. Migration of ground gas. 	<ol style="list-style-type: none"> Human Health. Minor Aquifer. Future buildings if proposed.



Dunelm Geotechnical & Environmental Ltd
 Foundation House, St John's Road, Meadowfield
 Durham, DH781TZ

NOT TO SCALE: Contractor to check all dimensions on site before commencement of any works. No dimensions to be scaled from this drawing.
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CLIENT:
 North York Moors National Park Authority

PROJECT TITLE:
 Grosmont Carpark

DRAWING TITLE:
 Conceptual Site Model

DRAWING NUMBER: D9255/02
 DATE: January 2019

APPENDIX B

PHOTOGRAPHIC SURVEY





Photograph 1 View of the track in the centre of the site, facing north east.



Photograph 2 View of the south east of the site



Photographic
Survey

Contract: GROSMONT CARPARK

Client: NORTH YORK MOORS NATIRAL PARK AUTHORITY

Date: JANUARY 2019

Contract No: D9255

Plate: 1



Photograph 3 View of the south eastern boundary of the site facing the railway station



Photograph 4 View of the carpark in the west of the site



Photographic
Survey

Contract: GROS MONT CARPARK

Client: NORTH YORK MOORS NATIRAL PARK AUTHORITY

Date: JANUARY 2019

Contract No: D9255

Plate: 2



Photograph 5 View of the carpark in the west of the site



Photograph 6 View of the relict industrial structure in the western area of the site



Photographic
Survey

Contract: GROSMONT CARPARK

Client: NORTH YORK MOORS NATURAL PARK AUTHORITY

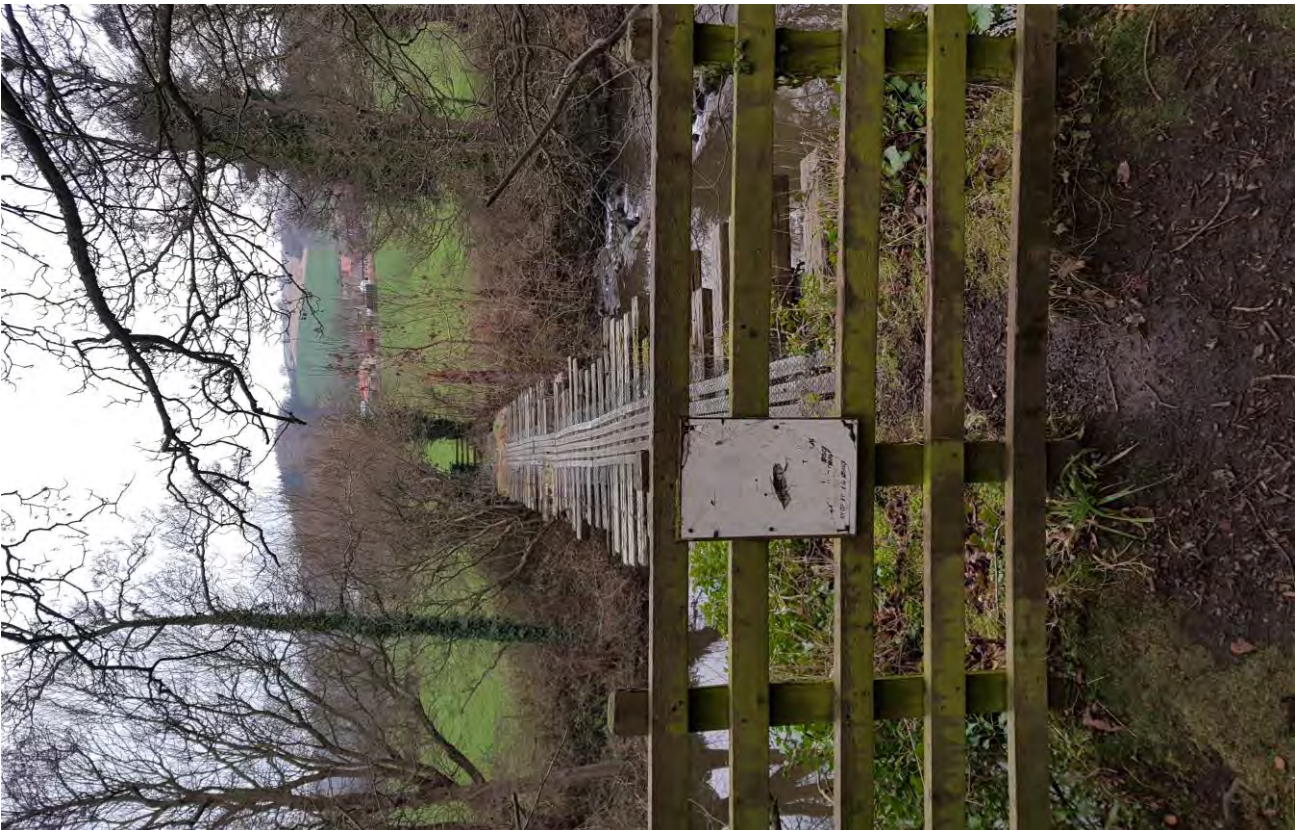
Date: JANUARY 2019

Contract No: D9255

Plate: 3



Photograph 7 View of the disused bridge in the north west of the site



Photograph 8 View of the disused bridge in the northwest of the site



Photographic
Survey

Contract: GROSMONT CARPARK

Client: NORTH YORK MOORS NATURAL PARK AUTHORITY

Date: JANUARY 2019

Contract No: D9255

Plate: 4



Photograph 9 View of the woodland area in the north of the site



Photographic
Survey

Contract: GROSMONT CARPARK

Client: NORTH YORK MOORS NATIRAL PARK AUTHORITY

Date: JANUARY 2019

Contract No: D9255

Plate: 5

APPENDIX C

DESK STUDY INFORMATION



David Bellis Consulting Surveyors Ltd
8, Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH

(DX 720352 Harrogate)



COAL SEARCH PLUS+
Protecting your investment

By

David Bellis
CONSULTING SURVEYORS

Regulated Coal Mining Search Report

Incorporating Cheshire Brine Screening



Serial Number 403094

Client detail :

Dunelm Geotechnical &
Enviromental Ltd
Foundation House
St John's Road
Meadowfield
Co Durham, DH7 8TZ

CoalSearchPlus+ by David Bellis Consulting
Surveyors Ltd
8 Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH
(DX 720352 Harrogate)

Search produced by M J Peace

Property details:

Front Street
Grosmont
Whitby
YO22 5QE

Your ref : 16156 D9255

Purchaser :

Vendor :

In accordance with your instructions received 03 Jan 2019 we have inspected plans and records of coal mine workings and have made enquiries with respect to Cheshire brine extraction in relation to the above property and can report as follows :

1. SEAM DETAILS FOR PAST UNDERGROUND COAL MINING : In relation to the property the undermentioned seam(s) have been worked within the likely zone of physical influence on the surface.

Seam	Depth (m)	Sect (cm)	Date	Remarks
See Remarks				No previous recorded coal workings.

2. SEAM DETAILS FOR CURRENT AND FUTURE UNDERGROUND COAL MINING : The undermentioned seam(s) are currently being worked, or licenses to work are being determined, or have been granted to work, within the likely zone of physical influence on the surface in relation to the property.

Seam	Depth (m)	Sect (cm)	Date	Remarks
				Coal in reserve - no workings currently planned.

3. UNDERLYING GEOLOGY :

The property is situated in an area of Alluvium over deposits of the Cleveland Ironstone Formation.

There are no faults or abnormal features relevant to the property.

4. OPENCAST COAL MINING :

Serial Number 403094

Past Opencast Workings : The property is not situated within the boundary of a former opencast coal mining site.

Present Opencast Workings : The property is not situated within 200m of the boundary of a currently operating opencast coal mining site.

Future Opencast Workings : The property is not situated within 800m of the boundary of an opencast site for which a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

5. MINE ENTRIES, MINE GAS, SURFACE HAZARDS AND ADDITIONAL INFORMATION :

The Coal Authority licensed Mine Entry dataset shows that 4 mine entries are located within 20 metres of the property or the boundary of the property. A plan is attached indicating the approximate position of the mine entries discovered. There are no recorded treatment details for the mine entries reported.

There are no tips or lagoons in the vicinity of the property.

The reported mine entries are recorded to be associated with ironstone workings.

The site is situated in an area of possible workings in ironstone.

The Coal Authority licensed Mine Gas dataset shows no record of mine gas emissions within the property or the property boundary requiring action.

The Coal Authority licensed Coal Mining Related Hazards dataset shows that the property has not been subject to remedial works by the Coal Authority, or its representatives, under the Coal Authority Emergency Surface hazard Call Out procedures.

If additional information is required regarding a mine entry disclosed in a residential coal mining report, a CoalSearchPlus+ Mine Entry Assessment Report can be provided for an additional fee of £75 plus vat. This will include an assessment of the risk of subsidence damage occurring due to the presence of the mine entry/entries.

Please contact David Bellis Consulting Surveyors on 01423 529911 to order a Mine Entry Assessment Report and arrange payment.

Further information regarding mine entries revealed in commercial/development coal mining reports can also be provided and reports will be tailored to client requirements. Please contact David Bellis Consulting Surveyors, on 01423 529911, to discuss the data that can be provided and agree the fee.

6. NOTICES IN RELATION TO FUTURE COAL MINING ACTIVITY :

We have no knowledge of any intention to work coal by underground methods within influencing distance on the surface in the vicinity of the property for which section 46 notices have been issued under the Coal Mining Subsidence Act 1991.

7. PAST COAL MINING RELATED SUBSIDENCE :

Serial Number 403094

A review of the records held by the Coal Authority has shown no evidence of coal mining related subsidence claims in relation to the subject property since 31st October 1994. This is the period for which records are held by the Coal Authority.

8. CONCLUSION (COAL MINING) : In the light of the above facts we conclude that in relation to coal mining :

In our opinion it is unlikely that coal will be worked in the foreseeable future.

COAL MINING RISK LEVEL : We recommend that the transaction is treated as :

Where this report is to be used for development purposes particular attention is drawn to the paragraphs below concerning the ownership of in situ coal, coal workings and the risks from mine gases.

Please note that the overall coal mining risk level above is based upon an assessment of the detailed information contained in the body of the report. The risk assessment must be used in conjunction with the detailed report.

If development of the property is being considered then all necessary enquiries and investigations should be completed prior to the commencement of works to ensure that proposals follow good engineering practice for development in mining areas. The Coal Authority has ownership of in situ coal, coal mines (both current and disused) and coal mine shafts and adits. Activities that intersect, enter or disturb any of the Coal Authority's interests require the written permission of the Authority.

Any development proposals should consider risks to the development, or adjacent property, of generating or displacing underground gases where coal seams or former mining works are disturbed. The need for effective measures to prevent gasses entering public properties should be assessed and properly addressed. These actions are necessary due to the public safety implications of development in these circumstances.

CHESHIRE BRINE EXTRACTION INFORMATION :

The property lies outside the Cheshire Brine Compensation District as prescribed by the Cheshire Brine Pumping (Compensation for Subsidence) Act 1952.

With respect to coal mining there is nothing to prevent a claim being made under the provisions of the Coal Mining Subsidence Act 1991 and subsequent legislation, but it must not be inferred that the Coal Authority or their licensees will necessarily accept that any damage has been caused as a result of mining subsidence.

If you require any further information please contact CoalSearchPlus+ on 01423 529911 or via our website www.coalsearch.plus.com.

This report is prepared in accordance with the CoalSearchPlus+ terms and conditions as published on the CoalSearchPlus+ website (www.coalsearch.plus.com) on the date of issue of this report.

This is a Coal Mining Search Report and is not to be interpreted as being part of an Environmental Assessment of the property.

Serial Number 403094

We cannot be held responsible for the accuracy of the information provided to us by third party organisations.

The information and/or material supplied is composed from data based in many cases on measurements and records of various standards of reliability and age. We cannot be held responsible for the accuracy of such information.

This search report is based upon the privately owned CoalSearchPlus+ mining record database, data supplied to CoalSearchPlus+ under license from the Coal Authority, and plans and records held by the Coal Authority and made publicly available at the time of inspection which may include British Geological Survey and Ordnance Survey data. Organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining (Subsidence) Act 1991 and the Coal Industry Act 1994.

This report contains Data provided by the Coal Authority. Any and all analysis and interpretation of the Coal Authority Data in this report is made by David Bellis Consulting Surveyors Ltd trading as CoalSearchPlus+, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be copyright of the Coal Authority and permission should be sought from David Bellis Consulting Surveyors Ltd prior to any re-use.

Coal Authority Address : The Coal Authority, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, HG18 4RG
British Geological Survey Address : British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham NG12 5GG

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The information contained in this report relates to the property address given by the individual or organisation ordering the report. Where a plan indicating the property location and boundary is supplied with the instruction the report is based on that information. Where no plan is supplied the report is based on the property location as defined in publicly available mapping data. At all times it remains the responsibility of the instructing organisation or individual to define the boundary of the property.

Additional notes applicable to Residential Coal Mining Reports only:

David Bellis Consulting Surveyors Ltd is not aware of any personal or business relationship between the person conducting or preparing the search and any person involved in the sale of the property.

This report is a desk study of existing published geological and coal mining records, the CoalSearchPlus+ coal mining data base and data supplied under license by the Coal Authority. In order to compile this report enquiries have been made in relation to the following:

Past Coal Mining – the existence of any previously worked seams of coal within influencing distance on the surface in relation to the property including an indication of the depth and age of the workings,

A statement of shallow depth generally indicates records show that coal has been mined within 30m of the surface. In some circumstances coal classified as shallow may extend up to a depth of 50m.

A statement of moderate depth indicates records show that coal has been mined at between 30m and 500m depth.

A statement of 'at depth' indicates records show that coal has been mined at depths of over 500m.

Present Coal Mining - the existence of any currently worked seams of coal within influencing distance on the surface in relation to the property including an indication of the depth and age of the workings. The existence of coal that could be worked at some time in the future will be enquired into and detail of any relevant licenses disclosed where available.

Underlying Geology - the underlying geology of the property will be reviewed and briefly described in relation to coal mining.

Opencast Coal Mining - the existence of past present and future opencast coal mining, specifically :

- if the property is situated within the boundary of a former opencast site. In the case of old opencast workings it must be understood that the records are often unclear regarding the site boundary and or worked areas. Published records and data supplied under license by the Coal Authority will be reviewed to give our opinion of the existence of relevant former opencast coal workings.
- if the property is situated within 200m of the boundary of a currently operating opencast site.
- if the property is situated within 800m of the boundary of an opencast for which either a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

Mine Entries, Mine Gas, Surface Hazards and Additional Information – the existence of any mine entries within 20m of the property or the boundary of the property and its associated land and buildings (the definition of the boundary of the property is the responsibility of the individual or organisation ordering this report). Where a mine entry is found to exist the approximate location of the mine entry will be indicated on a plan. The existence of unworked coal will be enquired into and our opinion regarding the likelihood of it being worked at some time in the past will be given where relevant.

It will be reported if mine gas emissions relating to the property are recorded by The Coal Authority.

It will be reported if The Coal Authority has carried out work in relation to the property after a report of an alleged coal mining related hazard under the Coal Authority's Emergency Hazard Call Out procedures.

Any other relevant coal mining related features discovered will be noted.

Notices in relation to future coal mining activity – the existence of notices indicating an intention to work coal by underground methods in the future.

Serial Number 403094

Past coal mining related subsidence – report if The Coal Authority licensed Claim Dataset shows record of a coal mining subsidence claim having been reported on the subject property or any other property within 50m of the boundary of the subject property since 31st October 1994. Where available claim detail information will be given for claims on the subject property only.

Coal Mining Risk Level – the opinion of David Bellis Consulting Surveyors Ltd of the risk posed to the property from coal mining given all the information contained in the report. The risk to the property is given in relation to the majority of the housing stock in the immediate area.

Cheshire Brine – the location of the property in relation to the Cheshire Brine Compensation District.

Additional information, including answers to many frequently asked questions, can be found on the CoalSearchPlus+ website, www.coalsearch.plus.com

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If you want to make a complaint, we will:

- Acknowledge it within 5 working days of receipt.
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
- Provide a final response, in writing, at the latest within 40 working days of receipt.
- Liaise, at your request, with anyone acting formally on your behalf.

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306, Website: www.tpos.co.uk, E-mail: admin@tpos.co.uk

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

Complaints should be sent to:

Mr M. Peace, Director, David Bellis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, North Yorkshire, HG1 5DH
Tel : 01423 529911 Fax : 01423 529922 Email : contact@coalsearch.plus.com

Date : 03 Jan 2019

Signed :

Serial Number 403094**Important Consumer Protection Information**

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- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
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TPOs Contact Details:

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP

You can get more information about the PCCB from www.propertycodes.org.uk.

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

Serial Number 403094**David Bellis Consulting Surveyors Ltd and CoalSearchPlus+ Terms and Conditions (Available in large print by request)**




1. Definitions.
 - a) The Service Provider is David Bellis Consulting Surveyors Ltd, trading as CoalSearchPlus+.
 - b) The Applicant is the Individual, Organisation, or appointed officer of said Organisation placing a Request with the Service Provider.
 - c) The Third Party Provider is any Organisation from which the Service Provider obtains data and/or information on behalf of the Applicant in the normal course of fulfilling the Applicants Request.
 - d) The request is a formal Request by the Applicant with CoalSearchPlus+ to retrieve specific data and/or information.
2. CoalSearchPlus+ accept Requests only on the basis that the Applicant is acting as a principal and is directly liable for payment of our invoice or account.
3. It is the policy of CoalSearchPlus+ to observe confidentiality with regard to the identity and affairs of our customers to the extent permitted by law, but, in common with other service providers, we may be required exceptionally to disclose information to governmental and other public authorities.
4. The placing of a Request by the Applicant with CoalSearchPlus+ confirms acceptance of these terms and conditions.
5. Any Order Form produced by CoalSearchPlus+, either printed or published on the CoalSearchPlus+ website, is an invitation to treat. The Applicant makes an offer to buy from CoalSearchPlus+ by the submission of a Request, subject to clause 10. Acceptable modes of transmission for a Request are facsimile (fax), telephone, electronic mail(e-mail), online transmission via the CoalSearchPlus+ website only, Document Exchange (DX), Royal Mail or courier appointed by the Applicant.
6. Orders will be accepted on order forms other than CoalSearchPlus+ forms however these will be accepted under the standard CoalSearchPlus+ terms and conditions only, subject to Clause 10.
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- Outline of property boundary 
- Disused mine shaft 
- Disused adit 

This plan shows the approximate position of the disused shaft or adit referred to in the attached Mining Search Report. Symbols used on this plan are not drawn to scale.

Property owners have the benefit of the protection of the Coal Mining Subsidence Act 1991* in the event of the occurrence of damage from disused coal mine workings including disused coal mine entries.

Prior permission from the owner of a mine entry (usually the Coal Authority) must be sought before any physical investigation entering or disturbing it is undertaken.

If you have any questions or queries regarding the content of this coal mining report please contact David Bellis Consulting Surveyors Ltd.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused shafts and adits). The emergency telephone numbers at all times is (01623) 646333.

* Note The Coal Mining Subsidence Act 1991 does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

8, Mornington Terrace, Harrogate, North Yorkshire, HG1 5DH - DX 720352 Harrogate



Groundsure

LOCATION INTELLIGENCE

Dunelm Geotechnical & Environmental Ltd
FOUNDATION HOUSE, ST. JOHNS ROAD,
DURHAM/MEADOWFIELD INDUSTRIAL
ESTATE, DH7 8TZ

Groundsure Reference: GS-5723234
Your Reference: PO16155-D9255-TK
Report Date: 3 Jan 2019
Report Delivery Method: Email - pdf

Enviro Insight

Address: FRONT STREET, GROSMONT, WHITBY

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on quoting the above Groundsure reference number.

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Address: FRONT STREET, GROSMONT, WHITBY
Date: 3 Jan 2019
Reference: GS-5723234
Client: Dunelm Geotechnical & Environmental Ltd



Aerial Photograph Capture date: 23-Aug-2015
Grid Reference: 482741,505399
Site Size: 5.00ha

Report Reference: GS-5723234
Client Reference: PO16155-D9255-TK

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Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	46	30	55	40
1.2 Additional Information – Historical Tank Database	0	3	0	4
1.3 Additional Information – Historical Energy Features Database	0	0	2	2
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	1	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Historical military sites	0	0	0	0
1.7 Potentially Infilled Land	31	20	55	34
Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	1	1	21	0
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	1	2
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	0	0
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	2	5	2	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	0	0

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	2	4	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Records of Artificial Ground and Made Ground present beneath the study site	None identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	Identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m					
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site	Identified					
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site	Identified					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	2	0	6
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	2	0	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	#250GWV #	#500GWV #	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	Yes	Yes	No	No	Yes
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	6	30	60	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Environment Agency Zone 2 floodplains within 250m of the study site	Identified					
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Identified					
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	High					
7.4 Flood Defences within 250m of the study site	None identified					
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified					
7.6 Areas used for Flood Storage within 250m of the study site	None identified					
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Potential at Surface					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	High					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	2
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	1
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	1
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	2	1	4	10
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	1	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards

9.1 Maximum risk of natural ground subsidence	Moderate
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Low
9.1.2 Maximum Landslides hazard rating identified on the study site	Low
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	Negligible
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Moderate
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	Basic radon protective measures are necessary.

Section 10: Mining

10.1 Coal mining areas within 75m of the study site	Identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	Identified
10.3 Brine affected areas within 75m of the study site	None identified

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

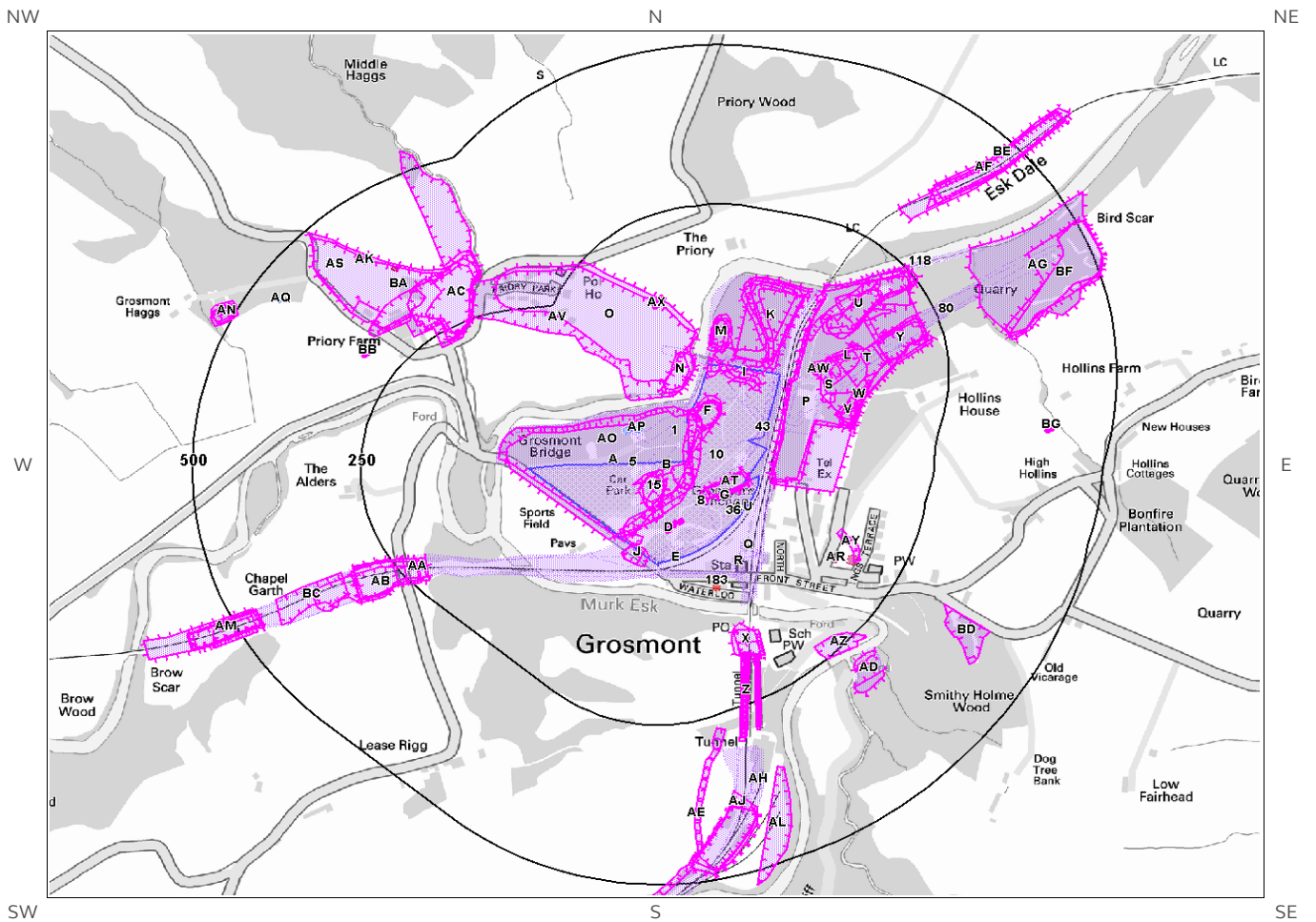
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

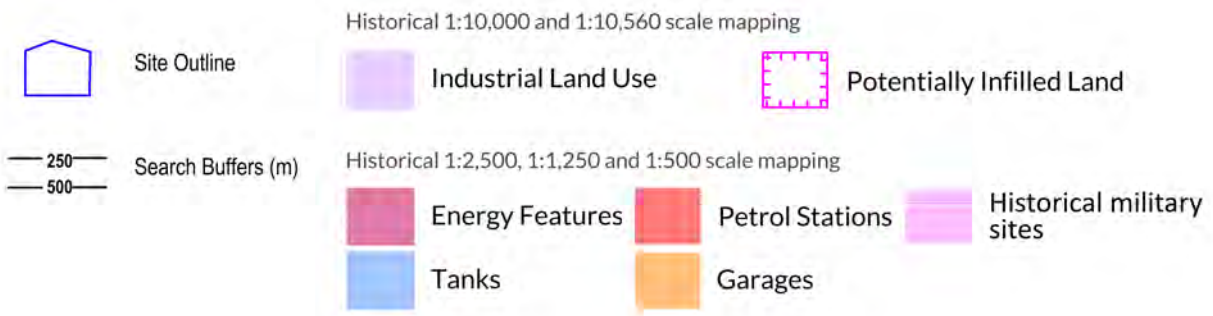
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 171

ID	Distance [m]	Direction	Use	Date
1	0	On Site	Disused Iron Works	1892
2B	0	On Site	Disused Iron Works	1916
3A	0	On Site	Refuse Heap	1916
4A	0	On Site	Refuse Heap	1916
5	0	On Site	Unspecified Disused Works	1950
6AO	0	On Site	Unspecified Works	1974
7A	0	On Site	Unspecified Ground Workings	1892
8	0	On Site	Railway Sidings	1916
9G	0	On Site	Railway Sidings	1892
10	0	On Site	Disused Iron Works	1950
11B	0	On Site	Unspecified Ground Workings	1950
12C	0	On Site	Unspecified Ground Workings	1974
13J	0	On Site	Cuttings	1950
14C	0	On Site	Refuse Heap	1950
15	0	On Site	Refuse Heap	1950
16H	0	On Site	Tramway Sidings	1916
17D	0	On Site	Unspecified Old Shafts	1916
18D	0	On Site	Unspecified Old Shafts	1916
19D	0	On Site	Unspecified Old Shafts	1950
20E	0	On Site	Railway Building	1892
21D	0	On Site	Unspecified Old Shafts	1916
22D	0	On Site	Unspecified Old Shafts	1916
23D	0	On Site	Unspecified Old Shafts	1950
24D	0	On Site	Unspecified Old Shafts	1950
25E	0	On Site	Railway Building	1892
26D	0	On Site	Railway Sidings	1916
27D	0	On Site	Unspecified Old Shafts	1950
28D	0	On Site	Unspecified Old Shafts	1950
29F	0	On Site	Refuse Heap	1950
30F	0	On Site	Refuse Heap	1950
31G	0	On Site	Cuttings	1916
32G	0	On Site	Cuttings	1950

33H	0	On Site	Unspecified Pit	1916
34I	0	On Site	Refuse Heap	1916
35I	0	On Site	Unspecified Ground Workings	1892
36	0	On Site	Railway Building	1892
37K	0	On Site	Unspecified Old Levels	1892
38D	0	On Site	Unspecified Old Shafts	1950
39AT	0	On Site	Cuttings	1950
40H	0	On Site	Unspecified Quarry	1892
41AU	0	On Site	Railway Sidings	1950
42B	0	On Site	Railway Sidings	1950
43	0	On Site	Junction Station	1916
44I	0	On Site	Refuse Heap	1916
45H	0	On Site	Unspecified Pit	1916
46J	0	On Site	Cuttings	1916
47K	5	N	Refuse Heap	1916
48K	5	N	Refuse Heap	1916
49K	12	N	Unspecified Ground Workings	1950
50S	12	E	Brick and Tile Works	1892
51K	14	N	Unspecified Heap	1950
52L	17	E	Brick and Tile Works	1950
53M	18	N	Refuse Heap	1950
54L	18	E	Brick and Tile Works	1916
55L	18	E	Brick and Tile Works	1916
56M	18	N	Refuse Heap	1916
57M	18	N	Refuse Heap	1916
58N	18	W	Refuse Heap	1950
59N	20	W	Refuse Heap	1950
60O	20	W	Refuse Heap	1916
61O	20	W	Refuse Heap	1916
62M	21	N	Unspecified Heap	1892
63M	25	N	Refuse Heap	1950
64AV	26	W	Unspecified Old Mines	1892
65P	28	E	Unspecified Disused Works	1974
66P	28	E	Unspecified Works	1950
67Q	28	SE	Railway Station	1950
68Q	29	SE	Railway Station	1916
69Q	30	SE	Railway Station	1950
70R	39	SE	Railway Building	1950
71AP	44	N	Unspecified Tank	1974
72Q	44	SE	Railway Station	1974
73T	44	E	Unspecified Pit	1974
74Q	49	SE	Railway Building	1950
75K	49	N	Unspecified Heap	1974
76R	49	SE	Railway Station	1892

77AW	51	E	Unspecified Shaft	1950
78S	59	E	Unspecified Pit	1892
79T	59	E	Tramway Sidings	1916
80	63	E	Railway Sidings	1950
81U	68	NE	Refuse Heap	1916
82U	68	NE	Refuse Heap	1916
83L	69	E	Unspecified Ground Workings	1916
84L	69	E	Unspecified Ground Workings	1916
85S	69	E	Unspecified Shaft	1916
86S	69	E	Unspecified Shaft	1916
87L	71	E	Refuse Heap	1950
88T	83	E	Cuttings	1950
89U	93	NE	Unspecified Old Levels	1892
90V	98	E	Unspecified Shaft	1950
91U	100	NE	Refuse Heap	1950
92V	101	E	Unspecified Pit	1974
93V	101	E	Unspecified Pit	1950
94V	101	E	Unspecified Pit	1916
95V	101	E	Unspecified Pit	1916
96AB	102	SW	Railway Sidings	1916
97L	110	NE	Unspecified Old Levels	1916
98L	110	NE	Unspecified Old Levels	1916
99W	112	E	Unspecified Pit	1974
100W	112	E	Unspecified Pit	1950
101L	112	NE	Unspecified Old Levels	1950
102X	129	SE	Cuttings	1892
103U	132	NE	Unspecified Old Levels	1950
104X	136	SE	Cuttings	1950
105AY	138	SE	Unspecified Ground Workings	1892
106Y	144	E	Cuttings	1916
107X	157	SE	Cuttings	1916
108Y	159	E	Unspecified Old Levels	1950
109Z	174	SE	Tunnels	1950
110Z	175	SE	Tunnels	1916
111Z	177	SE	Tunnel	1974
112Z	177	SE	Tunnels	1950
113Z	178	SE	Tunnels	1892
114Z	185	SE	Tunnels	1950
115Z	186	SE	Tunnels	1916
116Z	188	SE	Tunnels	1950
117Z	188	SE	Tunnel	1974
118	189	NE	Railway Sidings	1950
119AA	208	SW	Cuttings	1974
120AA	217	SW	Cuttings	1950

121AB	222	SW	Cuttings	1916
122AB	223	SW	Cuttings	1892
123AZ	225	SE	Cemetery	1974
124AS	232	NW	Unspecified Old Mines	1950
125AC	233	NW	Refuse Heap	1974
126BA	234	NW	Ironstone Old Mines	1950
127AC	236	NW	Old Ironstone Mines	1916
128AC	236	NW	Old Ironstone Mines	1916
129AC	236	NW	Refuse Heap	1916
130AC	236	NW	Refuse Heap	1916
131AB	250	SW	Cuttings	1974
132AE	269	S	Tunnel	1976
133AD	280	SE	Old Jet Workings	1950
134AD	281	SE	Old Jet Workings	1916
135AD	282	SE	Unspecified Ground Workings	1950
136AE	304	S	Railway Sidings	1950
137AI	308	SE	Railway Sidings	1916
138AD	310	SE	Unspecified Pit	1950
139AF	310	NE	Cuttings	1892
140AJ	312	SE	Railway Sidings	1950
141AG	315	E	Unspecified Disused Quarry	1974
142BC	323	SW	Cuttings	1974
143BD	329	SE	Unspecified Old Workings	1950
144AF	339	NE	Cuttings	1950
145AG	342	E	Unspecified Pit	1950
146BF	344	E	Unspecified Pit	1950
147AH	351	S	Railway Buildings	1950
148AH	354	SE	Railway Buildings	1916
149AF	354	NE	Cuttings	1916
150AL	357	S	Unspecified Heap	1950
151BE	365	NE	Cuttings	1950
152AI	371	S	Cuttings	1950
153AJ	384	S	Railway Building	1916
154AJ	385	S	Railway Buildings	1950
155AI	392	S	Cuttings	1976
156AI	392	S	Cuttings	1950
157AI	393	S	Cuttings	1916
158AK	402	NW	Unspecified Tank	1916
159AK	403	NW	Unspecified Tank	1950
160BG	406	E	Unspecified Disused Shaft	1974
161AL	407	S	Railway Building	1916
162AK	407	NW	Unspecified Tank	1950
163AM	462	SW	Cuttings	1950
164AM	463	SW	Cuttings	1916

165AM	463	SW	Cuttings	1950
166AM	467	SW	Cuttings	1974
167AM	471	SW	Cuttings	1892
168AN	494	NW	Unspecified Ground Workings	1950
169AN	496	NW	Unspecified Ground Workings	1916
170AN	496	NW	Unspecified Ground Workings	1916
171AN	497	NW	Unspecified Ground Workings	1950

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary:

7

ID	Distance (m)	Direction	Use	Date
172AO	46	N	Unspecified Tank	1996
173AP	47	N	Unspecified Tank	1971
174AP	48	N	Unspecified Tank	1996
175AK	401	NW	Unspecified Tank	1892
176AK	401	NW	Unspecified Tank	1913
177AQ	452	NW	Unspecified Tank	1892
178AQ	452	NW	Unspecified Tank	1913

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary:

4

ID	Distance (m)	Direction	Use	Date
179AR	152	SE	Electricity Substation	1971
180AR	168	SE	Electricity Substation	1996
181AS	366	NW	Electricity Substation	1996
182AS	366	NW	Electricity Substation	1971

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps

provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 1

ID	Distance (m)	Direction	Use	Date
183	47	SE	Filling Station	1971

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 0

Database searched and no data found.

1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0

Database searched and no data found.

1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 140

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
184H	0	On Site	Unspecified Pit	1916
185H	0	On Site	Unspecified Quarry	1892
186K	0	On Site	Unspecified Old Levels	1892
187I	0	On Site	Refuse Heap	1916
188I	0	On Site	Unspecified Ground Workings	1892
189F	0	On Site	Refuse Heap	1950
190F	0	On Site	Refuse Heap	1950
191A	0	On Site	Refuse Heap	1916
192A	0	On Site	Unspecified Ground Workings	1892

193B	0	On Site	Unspecified Ground Workings	1950
194C	0	On Site	Unspecified Ground Workings	1974
195C	0	On Site	Refuse Heap	1950
196C	0	On Site	Refuse Heap	1950
197AT	0	On Site	Cuttings	1950
198AU	0	On Site	Unspecified Old Shafts	1950
199AU	0	On Site	Unspecified Old Shafts	1950
200D	0	On Site	Unspecified Old Shafts	1916
201D	0	On Site	Unspecified Old Shafts	1950
202AU	0	On Site	Unspecified Old Shafts	1950
203D	0	On Site	Unspecified Old Shafts	1950
204D	0	On Site	Unspecified Old Shafts	1916
205J	0	On Site	Cuttings	1950
206D	0	On Site	Unspecified Old Shafts	1916
207D	0	On Site	Unspecified Old Shafts	1916
208G	0	On Site	Cuttings	1916
209A	0	On Site	Refuse Heap	1916
210H	0	On Site	Unspecified Pit	1916
211J	0	On Site	Cuttings	1916
212G	0	On Site	Cuttings	1950
213D	0	On Site	Unspecified Old Shafts	1950
214I	0	On Site	Refuse Heap	1916
215K	5	N	Refuse Heap	1916
216K	5	N	Refuse Heap	1916
217K	12	N	Unspecified Ground Workings	1950
218S	12	E	Brick and Tile Works	1892
219K	14	N	Unspecified Heap	1950
220T	17	E	Brick and Tile Works	1950
221M	18	N	Refuse Heap	1950
222L	18	E	Brick and Tile Works	1916
223L	18	E	Brick and Tile Works	1916
224M	18	N	Refuse Heap	1916
225M	18	N	Refuse Heap	1916
226N	18	W	Refuse Heap	1950
227N	20	W	Refuse Heap	1950
228O	20	W	Refuse Heap	1916
229O	20	W	Refuse Heap	1916
230M	21	N	Unspecified Heap	1892
231M	25	N	Refuse Heap	1950
232AV	26	W	Unspecified Old Mines	1892
233T	44	E	Unspecified Pit	1974
234K	49	N	Unspecified Heap	1974
235AW	51	E	Unspecified Shaft	1950
236W	59	E	Unspecified Pit	1892

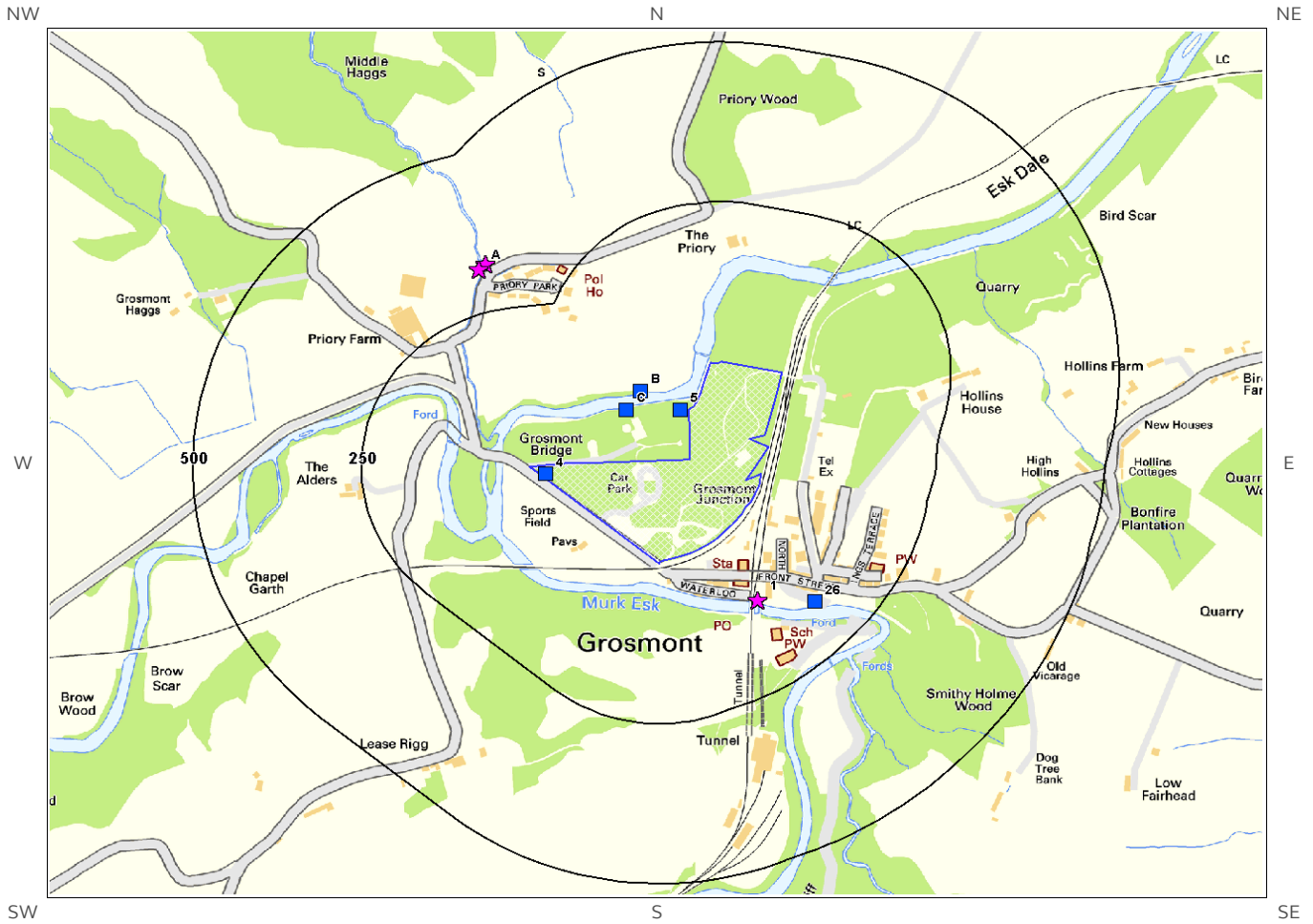
237U	68	NE	Refuse Heap	1916
238U	68	NE	Refuse Heap	1916
239L	69	E	Unspecified Ground Workings	1916
240L	69	E	Unspecified Ground Workings	1916
241S	69	E	Unspecified Shaft	1916
242S	69	E	Unspecified Shaft	1916
243L	71	E	Refuse Heap	1950
244Y	83	E	Cuttings	1950
245U	93	NE	Unspecified Old Levels	1892
246V	98	E	Unspecified Shaft	1950
247U	100	NE	Refuse Heap	1950
248V	101	E	Unspecified Pit	1974
249V	101	E	Unspecified Pit	1950
250V	101	E	Unspecified Pit	1916
251V	101	E	Unspecified Pit	1916
252L	110	NE	Unspecified Old Levels	1916
253L	110	NE	Unspecified Old Levels	1916
254W	112	E	Unspecified Pit	1974
255W	112	E	Unspecified Pit	1950
256L	112	NE	Unspecified Old Levels	1950
257AX	118	NW	Air Shaft	1892
258AX	120	NW	Air Shaft	1950
259AX	121	NW	Air Shaft	1916
260AX	125	NW	Air Shaft	1950
261X	129	SE	Cuttings	1892
262U	132	NE	Unspecified Old Levels	1950
263X	136	SE	Cuttings	1950
264AY	138	SE	Unspecified Ground Workings	1892
265Y	144	E	Cuttings	1916
266X	157	SE	Cuttings	1916
267Y	159	E	Unspecified Old Levels	1950
268Z	174	SE	Tunnels	1950
269Z	175	SE	Tunnels	1916
270Z	177	SE	Tunnel	1974
271Z	177	SE	Tunnels	1950
272Z	178	SE	Tunnels	1892
273Z	185	SE	Tunnels	1950
274Z	186	SE	Tunnels	1916
275Z	188	SE	Tunnel	1974
276Z	188	SE	Tunnels	1950
277AA	208	SW	Cuttings	1974
278AB	217	SW	Cuttings	1950
279AB	222	SW	Cuttings	1916
280AB	223	SW	Cuttings	1892

281AZ	225	SE	Cemetery	1974
282AS	232	NW	Unspecified Old Mines	1950
283AC	233	NW	Refuse Heap	1974
284BA	234	NW	Ironstone Old Mines	1950
285AC	236	NW	Old Ironstone Mines	1916
286AC	236	NW	Refuse Heap	1916
287AC	236	NW	Refuse Heap	1916
288AC	236	NW	Old Ironstone Mines	1916
289AB	250	SW	Cuttings	1974
290AE	269	S	Tunnel	1976
291AD	282	SE	Unspecified Ground Workings	1950
292BB	298	NW	Air Shaft	1950
293BB	300	NW	Air Shaft	1916
294BB	302	NW	Air Shaft	1950
295AD	310	SE	Unspecified Pit	1950
296AF	310	NE	Cuttings	1892
297AG	315	E	Unspecified Disused Quarry	1974
298BC	323	SW	Cuttings	1974
299BD	329	SE	Unspecified Old Workings	1950
300BE	339	NE	Cuttings	1950
301AG	342	E	Unspecified Pit	1950
302BF	344	E	Unspecified Pit	1950
303BE	354	NE	Cuttings	1916
304AL	357	S	Unspecified Heap	1950
305BE	365	NE	Cuttings	1950
306AI	371	S	Cuttings	1950
307AI	392	S	Cuttings	1976
308AI	392	S	Cuttings	1950
309AI	393	S	Cuttings	1916
310BG	403	E	Air Shaft	1892
311BG	405	E	Air Shaft	1916
312BG	406	E	Unspecified Disused Shaft	1974
313BG	406	E	Air Shaft	1950
314BG	407	E	Air Shaft	1950
315AM	462	SW	Cuttings	1950
316AM	463	SW	Cuttings	1916
317AM	463	SW	Cuttings	1950
318AM	467	SW	Cuttings	1974
319AM	471	SW	Cuttings	1892
320AN	494	NW	Unspecified Ground Workings	1950
321AN	496	NW	Unspecified Ground Workings	1916
322AN	496	NW	Unspecified Ground Workings	1916


323AN	497	NW	Unspecified Ground Workings	1950
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2. Environmental Permits, Incidents and Registers Map



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- | | | | | | |
|---|-------------------------------|---|--|---|---|
|  | Site Outline |  | Recorded Pollution Incident |  | RAS 3 & 4 Authorisations |
|  | Dangerous Substances (List 1) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |  | Part A(2) and Part B Authorised Processes |
|  | Dangerous Substances (List 2) |  | Water Industry Referrals |  | COMAH / NIHHS Sites |
|  | Licensed Discharge Consents |  | Sites Determined as Contaminated Land |  | Hazardous Substance Consents and Enforcements |
|  | Red List Discharge Consents | | | | |

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

23

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
4	0	On Site	482500 505400	Address: GROSMONT VILLAGE PLAYING FIELD, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: C5141 Permit Version: 1	Receiving Water: DISCHARGE TO LAND Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 08/07/1988 Effective Date: 08-Jul-1988 Revocation Date: 01/10/1996
5	14	W	482700 505500	Address: GROSMONT HOUSING SITE, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 101 Permit Version: 1	Receiving Water: CAT SCAR BECK Status: REVOKED - UNSPECIFIED Issue date: 28/01/1953 Effective Date: 28-Jan-1952 Revocation Date: 04/06/1992
6B	79	W	482640 505530	Address: GROSMONT SEWAGE PUMPING STATION, PRIORY PARK, GROSMONT, WHITBY, NORTH YORKSHIRE, YO22 5QQ Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/29/0060 Permit Version: 2	Receiving Water: RIVER ESK Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 08/02/2002 Effective Date: 08-Feb-2002 Revocation Date: 16/02/2015
7B	79	W	482640 505530	Address: GROSMONT SEWAGE PUMPING STATION, PRIORY PARK, GROSMONT, WHITBY, NORTH YORKSHIRE, YO22 5QQ Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/29/0060 Permit Version: 1	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/03/2001 Effective Date: 27-Mar-2001 Revocation Date: 07/02/2002
8B	79	W	482640 505530	Address: GROSMONT SEWAGE PUMPING STATION, PRIORY PARK, GROSMONT, WHITBY, NORTH YORKSHIRE, YO22 5QQ Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/29/0060 Permit Version: 1	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/03/2001 Effective Date: 27-Mar-2001 Revocation Date: 07/02/2002
9B	79	W	482640	Address: GROSMONT SEWAGE PUMPING	Receiving Water: RIVER ESK

ID	Distance (m)	Direction	NGR	Details	
			505530	STATION, PRIORY PARK, GROSMONT, WHITBY, NORTH YORKSHIRE, YO22 5QQ Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/29/0060 Permit Version: 2	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 08/02/2002 Effective Date: 08-Feb-2002 Revocation Date: 16/02/2015
10B	79	W	482640 505530	Address: GROSMONT SEWAGE PUMPING STATION, PRIORY PARK, GROSMONT, WHITBY, NORTH YORKSHIRE, YO22 5QQ Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 27/29/0060 Permit Version: 3	Receiving Water: RIVER ESK Status: VARIED UNDER EPR 2010 Issue date: 17/02/2015 Effective Date: 17-Feb-2015 Revocation Date:
11C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA6711 Permit Version: 3	Receiving Water: RIVER ESK Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 16/04/1993 Effective Date: 17-Jul-1998 Revocation Date: 29/09/2005
12C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 27/29/0106 Permit Version: 1	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 02/08/2005 Effective Date: 30-Sep-2005 Revocation Date: 31/03/2009
13C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: COPA/1914 Permit Version: 1	Receiving Water: RIVER ESK Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 31/07/1985 Effective Date: 31-Jul-1985 Revocation Date: 31/08/1989
14C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 27/29/0106 Permit Version: 1	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 02/08/2005 Effective Date: 30-Sep-2005 Revocation Date: 31/03/2009
15C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6711 Permit Version: 3	Receiving Water: RIVER ESK Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 16/04/1993 Effective Date: 17-Jul-1998 Revocation Date: 29/09/2005
16C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6711 Permit Version: 1	Receiving Water: RIVER ESK Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/04/1993 Effective Date: 16-Apr-1993 Revocation Date: 28/01/1998
17C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6711 Permit Version: 2	Receiving Water: RIVER ESK Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 16/04/1993 Effective Date: 29-Jan-1998 Revocation Date: 16/07/1998
18C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 &

ID	Distance (m)	Direction	NGR	Details	
				Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 27/29/0106 Permit Version: 2	SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Apr-2009 Revocation Date:
19C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA6711 Permit Version: 1	Receiving Water: RIVER ESK Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/04/1993 Effective Date: 16-Apr-1993 Revocation Date: 28/01/1998
20C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 27/29/0106 Permit Version: 2	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Apr-2009 Revocation Date:
21C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: COPA/1914 Permit Version: 2	Receiving Water: RIVER ESK Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 01/09/1989 Effective Date: 01-Sep-1989 Revocation Date: 15/04/1993
22C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 27/29/0106 Permit Version: 2	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Apr-2009 Revocation Date:
23C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 1914 Permit Version: 1	Receiving Water: RIVER ESK Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 01/01/1982 Effective Date: 01-Jan-1982 Revocation Date: 30/06/1985
24C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 27/29/0106 Permit Version: 1	Receiving Water: RIVER ESK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 02/08/2005 Effective Date: 30-Sep-2005 Revocation Date: 31/03/2009
25C	80	N	482620 505500	Address: GROSMONT STW, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: WRA6711 Permit Version: 2	Receiving Water: RIVER ESK Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 16/04/1993 Effective Date: 29-Jan-1998 Revocation Date: 16/07/1998
26	173	SE	482900 505200	Address: GROSMONT LOCO SHEDS, GROSMONT, WHITBY, NORTH YORKSHIRE Effluent Type: TRADE DISCHARGES - BOILER BLOWDOWN EFFLUENT Permit Number: 2910 Permit Version: 1	Receiving Water: MURK ESK Status: TRANSFERRED FROM R(PP)A 1951-1961 Issue date: 08/01/1973 Effective Date: 15-Jan-1973 Revocation Date:

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

3

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1	114	SE	482814 505202	Incident Date: 09-Apr-2003 Incident Identification: 149707 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
2A	318	N	482400 505720	Incident Date: 26-Jun-2002 Incident Identification: 87435 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3A	324	N	482410 505728	Incident Date: 14-Mar-2002 Incident Identification: 64025 Pollutant: Agricultural Materials and Wastes Pollutant Description: Slurry and Dilute Slurry	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

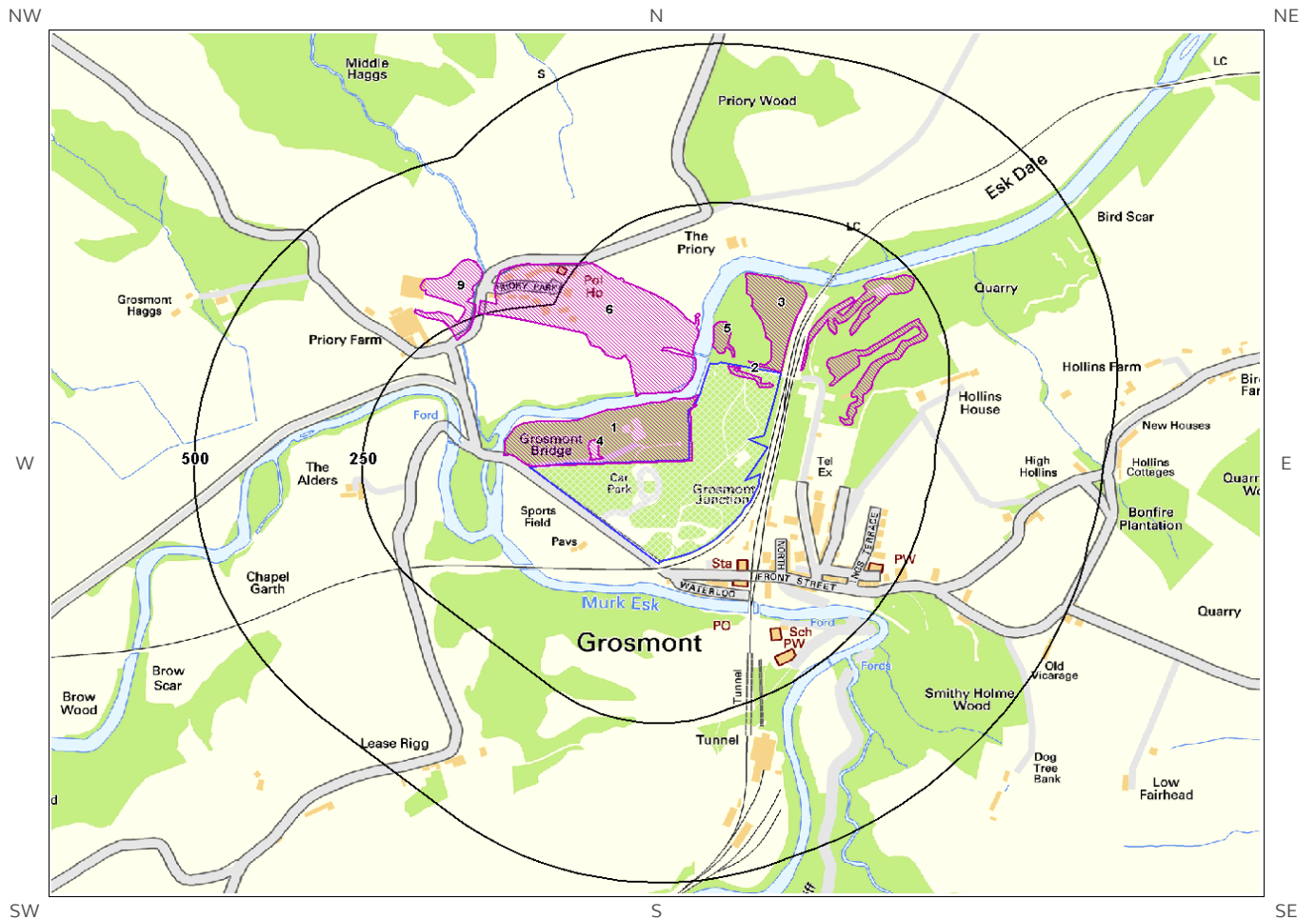
Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

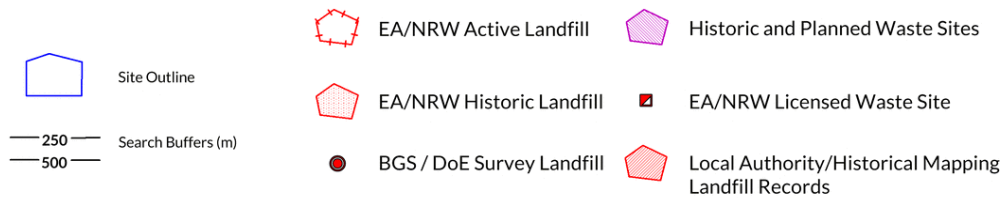
Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site 0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

0

Database searched and no data found.
