

SKELTON GRANGE ENERGY FROM WASTE FACILITY ENVIRONMENTAL PERMIT APPLICATION

Baseline Site Condition Report
Prepared for: WTI EfW Holdings Limited

SLR Ref: 416.07232.00002.
Version No: 1
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BASIS OF REPORT

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1.0 Introduction

WTI EfW Holdings Limited has instructed SLR Consulting Limited (SLR) to prepare a bespoke Environmental Permit (EP) application for the proposed Skelton Grange Energy from Waste (EfW) Facility to be located at Skelton Grange near Leeds under the Environmental Permitting (England and Wales) Regulations 2016 (as amended). The facility will be operated by WTI UK Limited (WTI).

1.1 Context and Objectives of the Site Condition Report

This Site Condition Report (SCR) has been prepared in accordance with the Environment Agency's (EA) Site Condition Report H5 guidance with regards to the requirements of a baseline report to meet the requirements of Article 22 (2) of Industrial Emissions Directive (IED). A completed H5 template is included as appendix SCR1.

The purpose of the SCR at the application stage is to describe and record the condition of the land at the time of making the Environmental Permit (EP) prior to commencement of any operations. The SCR will provide a point of reference and baseline environmental data so that when the EP is surrendered it can be demonstrated that there has been no deterioration in the condition of the land as a result of the proposed operations and to ensure that the condition of the land is in a 'satisfactory state' on surrender of the EP.

1.2 Present Use of the Site

The proposed EfW facility will be situated at Skelton Grange, Leeds, West Yorkshire at National Grid Reference (NGR) 433423, 431179. The Site is accessed via Skelton Grange Road to the southwest and lies within an area predominately occupied by commercial/industrial premises, sewage works, derelict ground and areas of woodland/open ground.

The location of the site is shown on Drawing 001 and the permit boundary and detailed site layout is shown in Drawing 002. The surrounding land uses and local receptors within 500m and 1km are shown on Drawing 003 and cultural and natural heritage receptors within 2km are illustrated on Drawing 004.

A summary of the Site's immediate surrounding land uses is provided in Table 1-1 below:

Table 1-1
Surrounding Land Uses

Boundary	Description
North	Mix of commercial/industrial premises and derelict land. Beyond is a sewage works facility.
East	The majority of the land to the east is derelict ground with woodland/open ground beyond.
South	Adjacent to the south of the Site is woodland/open ground, the River Aire and Aire & Calder Navigation, with predominately commercial/industrial premises beyond.
West	To the west of the Site is commercial/industrial premises, a recreational/educational facility and areas of woodland/open ground.

1.3 Environmental Setting

1.3.1 Geology

A review of the British Geological Survey (BGS) map¹ reveals that the Site is underlain by a bedrock of Pennine Lower Coal Measures Formation (mudstone, siltstone and sandstone). The bedrock is indicative of an area previously dominated by swamps, estuaries and deltas. There are no superficial deposits recorded for the Site.

1.3.2 Local Geology

Made ground has been identified across the whole of the Site within the proposed EP boundary with one exception. This was an area of land previously occupied by one of the old power stations, which was constructed on rock strata. Records indicate the thickest area of made ground, approximately 5.9m deep, is located in the northeast of the Site. The made ground consists of:

- demolition materials;
- grey sandy gravelly clay (potentially natural clay that has been reworked throughout previous developments and demolition); and
- soft grey/brown gravelly organic clay (potentially natural clay that has been reworked throughout previous development and demolition).

1.4 Hydrogeology

1.4.1 Aquifer Designations

The bedrock underlying the Site is classified as a Secondary A Aquifer on the Multi-Agency Information for the Countryside (MAGIC)² website.

The Groundwater Vulnerability layer on the MAGIC map reveals that the Site lies within an area known for groundwater vulnerability classified as Minor Aquifer high.

No groundwater abstraction licences are located within 500m of the Site.

1.4.2 Source Protection Zones

The Site is not located within a Source Protection Zone (SPZ) or within the vicinity of one.

1.5 Hydrology

The Groundsure Enviro Insight Report identified one surface water abstraction licence within 500m of the Site which is located approximately 445m to the west. The abstraction is from the River Aire for Milling and Water Power for Thwaite Mills.

The Site lies within Flood Zone 1 and 2; therefore, the Site has a low/medium probability of flooding³.

¹ British Geological Survey, Available at www.bgs.ac.uk, accessed in June 2019

² Multi-Agency Information for the Countryside – Available at: <http://www.magic.gov.uk>, accessed June 2019

³ Flood Map for Planning <https://flood-map-for-planning.service.gov.uk>, accessed June 2019

1.5.1 Surface Waters

The closest natural watercourse is the River Aire which is located approximately 50m to the south of the Site's boundary. Beyond the River Aire is the Aire and Calder Navigation located approximately 100m to the south of the Site.

There are two small ponds located to the east of the Site approximately 350m from the Site's boundary.

To the south-east of the Site there is one larger pond and a surface water drain which are located approximately 400m from the Site's boundary.

2.0 Pollution History

2.1 Pollution Incidents

Groundsure Enviro Insight Report (appendix SCR3) identified that the EA have recorded 37 minor incidents within 500m of the Site's boundary, but no major incidents have been recorded. All minor incidents are dated between 2002 and 2003. The closest and most recent incident was located approximately 50m south-east of the Site, which was a minor pollution to surface water by lubricating oils.

2.2 Historic Site Activities

Table 2-1 identifies the Site's historic land uses:

Table 2-1
Historic Land Uses

Date	Land Use and Description
1852-1950	Agricultural land with a tram road situated in the southern corner of the Site.
1951-1990	The Site is now identified as Skelton Grange Power Station. Two coal-fired power stations were constructed including, cooling towers, associated buildings and conveyors.
1991	The Cooling towers are no longer identified at the Site.
2002	The majority of the Site's infrastructure has been removed.
2010-2014	All infrastructure has been removed from Site.

The Site is currently clear of all infrastructure to facilitate future development.

The Groundsure Enviro Insight Report identified 8 historic landfills within 500m of the Site. The closest is Thwaite Farm, which was located approximately 146m to the west for inert, commercial, and special liquid sludge. This site was surrendered in 1993. There are no current landfills within 500m of the Site's boundary. Other waste management facilities identified within 500m are a metal recycling facility located approximately 390m to the northwest and an end of life vehicles facility located 476m to the south-west of the Site. Full details are included as appendix SCR3.

2.3 Baseline Data

A Phase II intrusive investigation was undertaken in August 2010 (Wardell Armstrong 2010) over the area of the Site and included land to the north-east. Subsequently a Phase 1 environmental site assessment was submitted to the planning authority in June 2018 which presented the data of past soil investigation programmes (between 1998 and 2010) from Groundsure Enviro Insight Report (May 2018). The Phase 1 environmental site assessment concluded that one small area of elevated soil gas concentrations (associated with natural soils) was present in the south-east corner of the Site and the presence of asbestos fibres was noted in three soil samples across the Site.

2.3.1 Soil Quality

Within the boundary of the Site, elevated heavy metals were noted for certain samples within the made ground. None of the results exceeded their respective GAC/SGVs for commercial and industrial use. All pH values were within the range of 6-9 which is considered representative of the natural background values.

Samples from within the Site identified heavy metal concentrations to be slightly elevated at one location. The presence of asbestos fibres was noted in the north, west and south-east areas of the Site. TPH and PAH values were slightly elevated in samples in the north of the Site. Although the concentrations of TPH and PAH did not exceed the relevant GAC/SGV for industrial and commercial end use.

Soil contamination is not considered to be a significant risk to the Site and the proposed development.

2.3.2 Groundwater Quality

One borehole downgradient and two upgradient of the Site were monitored 20 times between 2007 and 2010. The assessment criteria were not exceeded for the one on-site sample. For the off-site sampling to the north, there was marginal exceedances for copper at 2 locations, mercury at 1 location, selenium at 2 locations and sulphate at 4 locations. The sulphate concentrations significantly exceeded the criteria.

The Site investigations concluded that significant groundwater impacts were not present at the Site, although the area of organic materials in the south-east corner may be contributing to some modest localised ammoniacal nitrogen and TPH impacts.

Site investigations concluded that significant surface water impacts were not present at the Site or in the River Aire as a result of the Site's condition. There were no significant differences in water quality downstream of the Site, compared to upstream.

2.3.3 Gas Monitoring

Gas monitoring was carried out between 2007 and 2010 at 3 locations. Two of these locations were within Made Ground and Coal Measures Strata, the other was within Coal Measures Strata only.

Within the shallow Made Ground the concentrations were significant, but the monitoring of the Coal Measures Strata also showed the presence of both methane and carbon dioxide at values higher than the recognised assessment criteria. Investigations have identified that there could be three possible sources:

- organic-rich material present;
- natural gas from the Coal Measure; or
- potential migration of ground gases from the Knostrop sludge lagoon (south-east of the Site).

Following investigations between 2007 and 2010, the risk of ground gases entering the Site from other portions of former power stations or from the Knostrop sewage works filter beds to the north-east and north-west are considered to be low.

Investigations have noted one 'hot spot' of soil impacts in the southeast corner of the Site and the presence of asbestos fibres have been noted in several samples from the Made Ground. Investigations indicate the land quality condition of the Site does not require intrusive investigation and remediation is not required in advance of construction to allow its safe development with no harm to the local environment.

3.0 Permitted Activities

3.1 Proposed Permitted Activities

The EfW will process municipal solid waste, commercial, sewage sludge, industrial and non-infectious clinical waste at a capacity of up to 410,000 tonnes per annum.

The waste management activities to be carried out at the Site are detailed below:

- R1: Use principally as a fuel or other means to generate energy; and
- R13: Storage of wastes pending any of the operations numbered R1 to R12.

3.1.1 Directly Associated Activities

The following directly associated activities will be undertaken at the Site:

- Receipt, Storage and Handling of Waste;
- Discharge of surface run-off to controlled waters;
- Emergency diesel generators;
- Storage and Handling of Products and Residues; and
- Storage of Raw Materials and Spent Reagents.

3.1.2 Permitted Waste Types

The full list of waste types to be accepted at Site, according to European Waste Catalogue (EWC) code is provided in Appendix B3_1 to the Application Forms in Section 2 of this EP application.

3.2 Non-Permitted Activities

There will be no non-permitted activities taking place at the Site.

4.0 Current Baseline Site Conditions

Paragraph 2 of Article 22 of the IED states that:

‘where the activity involves the use, production or release of relevant hazardous substances and having regards to the possibility of soil and groundwater contamination at the site of the installation, the operator shall prepare and submit to the competent authority a baseline report before starting operation of an installation or before a permit for an installation is updated for the first time after 7th January 2013.

The baseline report shall contain the information necessary to determine the state of soil and groundwater contamination so as to make a quantified comparison with the state upon definitive cessation of activities.

The baseline report shall contain at least the following information:

Information on the present use and, where available, on past uses of the site; and

Where available, existing information on soil and groundwater measurements that reflect the state at the time the report is drawn up or, alternatively, new soil and groundwater measurements having regard to the possibility of soil and groundwater contamination by those hazardous substances to be used, produced or released by the installation concerned.’

Set out below are details of how WTI have met the requirements of Article 22 of the IED at the EP application stage.

The Site is currently not used but has various stockpiles of largely inert material such as soil, brick and concrete present. These are considered to not have a potential contaminate source.

**Table 4-1
 Main Stages in Preparing a Baseline Report**

Stage	Activity	Objective	How WTI has met the requirement
1	Identify which hazardous substances are used, produced or released at the installation.	Determine whether or not hazardous substances are used, produced or released in view of deciding whether a baseline report is required. If yes: produce a list of all hazardous substances.	A list of potentially hazardous substances used, produced or released at the Installation is listed below. Hazardous raw materials stored: - Light fuel oil; - Hydrochloric acid; - Sodium hydroxide; - Ammonia; - Urea; - Trisodium phosphate; - Hydrated lime; and - Activated carbon. Point source emissions to air: - Nitrogen dioxide (NO _x); - Particulates (PM ₁₀); - Sulphur dioxide (SO ₂); - Carbon monoxide (CO); - Hydrogen chloride (HCl);

Stage	Activity	Objective	How WTI has met the requirement
			<ul style="list-style-type: none"> - Organics (dioxins and furans); - Hydrogen fluoride (HF); - Group 1,2 and 3 metals; and - Ammonia.
2	<p>Identify which of the hazardous substances from Stage 1 which, according to the evaluation by suitably qualified and experienced persons, as a result of their hazardousness in respect to toxicity, mobility, persistence and biodegradability (as well as other characteristics), are capable of contaminating soil or groundwater.</p> <p>Discard those hazardous substances that are incapable of contaminating soil or groundwater. Justify and record the decisions taken to exclude certain hazardous substances.</p>	<p>To restrict further consideration to only the relevant hazardous substances that are capable of contaminating soil or groundwater in view of deciding on the need to prepare and submit a baseline report.</p>	<p>All of the substances detailed above would be capable of contaminating soil and groundwater if there were no mitigation measures in place at the Installation.</p> <p>However, mitigation measures proposed for the Site (please refer to the Environmental Risk Assessment (ERA) and BAT-OT submitted with this EP application) will ensure that no contamination occurs as a result of the proposed activities to be undertaken at the Site.</p>
3	<p>For each relevant hazardous substance brought forward from Stage 2, identify the actual possibility for soil or groundwater contamination at the site of the installation, including the probability of releases and the consequences of releases, taking particular account of:</p> <ul style="list-style-type: none"> - the quantities of each hazardous substance concerned; - how and where they are stored; - how they are to be transported around the installation - how they are used - where they are emitted - measures that have been and, for new installations, will be adopted to protect soil and groundwater at the installation. 	<p>To identify which of the hazardous substances from Stage 2 represent a potential pollution risk at the site based on the likelihood of emissions of such substances occurring.</p> <p>These are the 'relevant' hazardous substances for which information must be included in the baseline report.</p> <p>Note: Where it is found that, due to the quantities of the hazardous substances used, produced or released, that there is no possibility of soil and groundwater contamination a baseline report does not need to be prepared or submitted. However, in those cases it is expected that a record of such a decision, including the reasons for the decision, will be made and held by the competent authority.</p>	<p>As detailed in Stage 2, mitigation measures will be in place to protect the groundwater, surface water and soil within the installation permit boundary from contamination.</p> <p>The mitigation measures to be employed at the Site are fully outlined in the ERA and BAT-OT submitted with this EP application. Please refer to these documents for full details of how the Installation will be operated to protect against fugitive emissions to water and land.</p>
4	Provide Site history.	Identify potential sources which may have resulted in the relevant hazardous substances identified in Stage 3 being present on the site of	Please refer to Section 2 of this SCR for details of past land use, historic pollution incidents and baseline data.

Stage	Activity	Objective	How WTI has met the requirement
		the installation.	
5	Identify the Site's environmental setting.	Determine where hazardous substances may go if emitted and where to look for them. Also identify the environmental media and receptors that are potentially at risk and where there are other activities in the area which release the same hazardous substances and may cause them to migrate onto the site.	Please refer to sections 1.3 and 1.4 of this SCR for details of present environmental settings and the Site's surroundings. Please refer to the ERA included with this EP application.
6	Use the results of Stages (3) to (5) to describe the site, in particular demonstrating the location, type, extent and quantity of historic pollution and potential future emissions noting the strata and groundwater bodies likely to be affected by those emissions – making links between sources of emissions, the pathways by which pollution may move and the receptors likely to be affected.	Identify the location, nature and extent of existing pollution on the site and to determine which strata and groundwater bodies might be affected by such pollution. Compare with potential future emissions to see if areas are coincident.	Please refer to Appendix SCR2, SLR Phase 1 Environmental Site Assessment (May 2018) and SCR3 Groundsure Enviro Insight Report. Please refer to the ERA included with this EP application. Drawing 002 illustrates the areas of the Site designated for waste storage, handling and treatment.
7	If there is sufficient information to quantify the state of soil and groundwater pollution by relevant hazardous substances on the basis of Stages (1) to (6) then go directly to Stage 8. If insufficient data exists, then intrusive investigation of the site will be required in order to gather such information.	Collect additional data as is necessary to allow a quantified assessment of soil and groundwater pollution by relevant hazardous substances.	The existing ground investigation studies as referenced in section 2.3 of this SCR enable the quantification of the state of soil and groundwater by relevant hazardous substances for the site.
8	Produce a baseline report for the installation that quantifies the state of soil and groundwater pollution by relevant hazardous substances.	Provide a baseline report in line with the IED.	Provided with this table and SCR.

4.1 Environmental Monitoring and Compliance

Monitoring of point source and fugitive emissions throughout the lifetime of the Site will be undertaken in line with the conditions outlined within the EP.

Reporting of emissions will be undertaken in line with the conditions outlined in the EP.

4.2 Operation of the Installation and Management System

WTI will be managed by technically competent personnel in accordance with Site procedures and the Environmental Management System (EMS). This will ensure good practice on Site and minimise environmental risk throughout the operation.

4.3 Environmental Risk Assessment

As required by EA guidance, an ERA has been undertaken and is included as part of the EP application.

The ERA is provided in section 5 of the EP application and is an assessment of the risks to the environment and to human health that may be associated with the proposed operations at the Site. The ERA reviews a 1km radius from the Site's EP boundary for potentially sensitive receptors of ecological importance along with features such as sites of cultural and natural heritage. A radius of 500m from the Site's EP boundary has been adopted for all other potentially sensitive receptors (for example, residential, commercial, industrial, agricultural and surface water receptors).

4.4 SCR Updates

WTI will maintain the SCR over the lifetime of the Site to detail potential or recorded change to the condition of the Site.

APPENDIX SCR1

H5 Table

APPENDIX SCR1: H5 TABLE

1.0 Introduction

WTI EfW Holdings Limited has instructed SLR Consulting Limited (SLR) to prepare an Environmental Permit (EP) application for the Skelton Grange Energy from Waste (EfW) Facility in Skelton Grange, Leeds under the Environmental Permitting (England and Wales) Regulations 2016 (as amended). The facility will be operated by WTI UK Limited (WTI).

As part of this EP application a Site Condition Report (SCR) has been prepared in accordance with the Environment Agency's (EA) Site Condition Report H5 guidance with regards to the requirements of a baseline report to meet the requirements of Article 22 (2) of Industrial Emissions Directive (IED).

The Site is situated in Skelton Grange, Leeds, West Yorkshire within an area predominately occupied by commercial/industrial premises, sewage works, derelict ground and areas of woodland/open ground. The National Grid Reference (NGR) for the Site is 433423, 431179.

The Site's location is illustrated on Drawing 001.

Sections 1 to 3 of the EA's SCR template have been completed in preparation of this document, which comprises the following:

- Site details;
- Conditions of the land at permit issue;
 - Geology;
 - Hydrogeology; and
 - Hydrology.
- Pollution History;
- Evidence of historic contamination; and
- Permitted activities.

Sections 4 to 7 of the SCR template will be maintained during the life of the permit and sections 8 to 10 will be completed and submitted in support of the application to surrender the permit.

2.0 Site Condition Report H5 Template

1.0 SITE DETAILS	
Name of the applicant	WTI UK Limited
Activity address	Skelton Grange Energy from Waste Installation Skelton Grange Skelton Grange Road Leeds West Yorkshire LS10 1RR

National grid reference	433423, 431179
Document reference and dates for Site Condition Report at permit application and surrender	416.07232.00002/SCR, June 2018 for a Bespoke Environmental Permit Application
Document references for site plans (including location and boundaries)	<ul style="list-style-type: none"> - Drawing 001 Site Location Plan - Drawing 002 Environmental Permit Boundary & Site Layout - Drawing 003 Sources, Pathways and Receptors - Drawing 004 Cultural and natural Heritage - Drawing 005 Site Drainage Layout

Note:

In Part A of the application form you must give us details of the site’s location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.
- Locations of receptors, sources of emissions/releases, and monitoring points.
- Site drainage.
- Site surfacing.

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 CONDITION OF THE LAND AT PERMIT ISSUE	
Environmental setting including: <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	Please refer to sections 1.4, 1.5 and 1.6 of the SCR for details of the environmental settings (geology, hydrology, hydrogeology) of the Site and its surroundings.
Pollution history including: <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures 	Please refer to sections 2.0 of the SCR for details of the pollution incidents, potentially polluting activities, historical land uses and evidence of existing contamination of the Site and, where appropriate its surroundings.
Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available).	Please refer to section 2.3 of the SCR for a summary of Ground Investigations.

Baseline soil and groundwater reference data.	Appendix SCR2 – SLR Phase 1 Environmental Site Assessment. Appendix SCR3 – Groundsure Enviro Insight Report
Supporting information	<ul style="list-style-type: none"> • SCR – Ref: 416.07232.00002/SCR • ERA – Ref: 416.07232.00002/ERA • SLR Phase 1 Environmental Site Assessment – Appendix SCR2 • Groundsure Enviro Insight Report – Appendix SCR3

3.0 PERMITTED ACTIVITIES	
Permitted activities	Please refer to section 3.0 of the SCR for a description of the proposed permitted activities for the Site.
Non-permitted activities undertaken	Not applicable.
Document references for: <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. 	<ul style="list-style-type: none"> - Drawing 001 Site Location Plan - Drawing 002 Environmental Permit Boundary & Site Layout - Drawing 003 Sources, Pathways and Receptors - Drawing 004 Cultural and natural Heritage - Drawing 005 Site Drainage Environmental Risk Assessment – Ref – 416.07232.00002/ERA

Note:

In Part B of the application form you must tell us about the activities that you will undertake at the site. You must also give us an environmental risk assessment. This risk assessment must be based on our guidance (*Environmental Risk Assessment - EPR H1*) or use an equivalent approach.

It is essential that you identify in your environmental risk assessment all the substances used and produced that could pollute the soil or groundwater if there were an accident, or if measures to protect land fail.

These include substances that would be classified as ‘dangerous’ under the Control of Major Accident Hazards (COMAH) regulations and also raw materials, fuels, intermediates, products, wastes and effluents.

If your submitted environmental risk assessment does not adequately address the risks to soil and groundwater we may need to request further information from you or even refuse your permit application.

APPENDIX SCR2

SLR Phase 1 Environmental Site Setting

SKELTON GRANGE EFW

**Submission to Discharge Pre-Commencement
Conditions**

**LQ Phase 1 Desk Study
Condition 22**

Prepared for: Skelton Grange Ltd
And
Sycamore Planning Ltd

SLR Ref: 419.08024.0002
Version No:0
June 2018



This submission is being made to enable the following highlighted Pre-Commencement Requirement(s) for the consent (Ref:11/03705/FU) to be discharged:

		Submission relates to discharge of these Pre Commencement Requirements
3	Notice to be given to LCC 14 days ahead of any development pre 20 September 2018	
10	Scheme for improvements to pedestrian crossings	
11	Landscape & Biodiversity Plan	
13	Implementation of mitigation measures required	
16	Construction Phase Management Plan	
17	Site Waste Management Plan	
18	Scheme for the management of foul water during the construction phase of the development	
19	Construction surface water management Plan	
21	IVA Management Method Statement	
22	LQ Phase 1 Desk Study	✓
23	Demolition & Construction Noise Management Scheme	

SKELTON GRANGE EFW
PLANNING CONSENT REF:11/03705/FU
DISCHARGE OF PRE-COMMENCEMENT REQUIREMENTS

The information in this submission below is being made to enable discharge of the following Pre Commencement Requirement (PCR):

PCR to be discharged through the information submitted

22. LQ Phase 1 Desk Study

- 22) *No development shall take place until a Phase I Desk Study has been submitted to, and approved in writing by, the Waste Planning Authority and:*
- a) *Where the approved Phase I Desk Study indicates that intrusive investigation is necessary, development shall not commence until a Phase II Site Investigation Report has been submitted to, and approved in writing by, the Waste Planning Authority,*
 - b) *Where remediation measures are shown to be necessary in the Phase I/Phase II Reports and/or where soil or soil forming material is being imported to site, development shall not commence until a Remediation Statement demonstrating how the site will be made suitable for the intended use has been submitted to, and approved in writing by, the Waste Planning Authority. The Remediation Statement shall include a programme for all works and for the provision of Verification Reports.*
- To ensure that the presence of contamination is identified, risks assessed and proposed remediation works are agreed in order to make the site suitable for use any in accordance with policies GP5 of the Leeds Unitary Development Plan Review (2006) and LAND 1 of the Natural Resources and Waste Local Plan (2013).*

Description of Development

The following submission includes a Land Quality Phase 1 Desk Study necessary to discharge Condition 22 of Planning Consent Ref: 11/03705/F.

While the 2013 planning consent was granted to Biffa Waste Services, they no longer have an interest in the site or the development proposals and a new developer, Skelton Grange Ltd (with Sycamore Planning Ltd) is liaising with the current site owner (Harworth Estates Ltd) to discharge the planning conditions and implement the planning consent.

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APPENDIX

Appendix 01: Groundsure Enviro Insight Report*

Appendix 02a: Emapsite Plans*

Appendix 02b: Emapsite Plans*

Appendix 03: Photographs*

*[*Due to file size, each appendix has been provided as a standalone file for Planning Portal upload]*

1.0 Introduction

1.1 Appointment

SLR Consulting Ltd (SLR) was commissioned to prepare a Phase I Environmental Site Assessment (ESA) associated with the potential development of land at Skelton Grange Road, Stourton, Leeds as an Energy Recovery Facility. The location of the Site is shown as the first page of Appendix 01 and covers an area of approximately 8.6 hectares. There is an area in the southwest corner of the Site that is currently used as an electricity transmission pylon and this facility will be retained for its current use post-development.

The work has been undertaken to support the discharge of Planning Condition 22 of Permission 11/03705/FU granted by Leeds City Council on 20 September 2013.

The information obtained from this assessment has been used to develop a preliminary Conceptual Site Model (CSM) of potential risks to human and environmental receptors. This CSM examines the potential source-pathway-target linkages in relation to identified or potential contamination issues at the Site.

This report has been prepared by the SLR Consulting Land Quality Group based at Jason House, Kerry Hill, Horsforth, Leeds, LS18 4JR Tel: 44 (0)113 258 0650.

1.2 Objectives

The objective of this Phase 1 ESA is to establish if there is any evidence (from a Site inspection and review of existing data) of significant subsurface contamination impacts from past and present activities on and adjacent to the Site, which could impact upon the proposed development.

This Phase I ESA also seeks to discuss the development proposal within the Context of Policy GP5 of the Leeds Unitary Development Plan Review in that the mitigation of contamination and avoidance of pollution are set out in any development proposal.

Policy Land 1 of the Leeds City Council Natural Resources and Waste Local Plan Development is also considered to ensure that development ‘does not take place on contaminated land until the contamination is remediated.’

1.3 Scope of Work

The scope of work for the Phase 1 ESA comprises:

- Review of published geological and hydrogeological data for the Site;
- Desk study analysis of historical maps to establish the development history together with identification of past on and off-Site potentially contaminative activities;
- Collection and analysis of environmental data from a proprietary database;
- A review of past intrusive investigation data for the Site;
- A Site inspection; and
- Reporting.

1.4 Data Sources

This report has been produced following consultation with the sources of information summarised in Table 1.

Table 1
Information Sources

Information Type	Source
Site and background information	Historical Ordnance Survey Map Extracts EMS-479320_642783 dated 22 nd May 2018 (Supplied by Groundsure Ltd (emapsite). Groundsure Enviroinsight EMS-479320_642783 dated 22 nd May 2018 (Supplied by Groundsure Ltd (emapsite). Land Regeneration Management, Former Skelton Grange Power Station – Biffa EfW Site, Ground Investigation Report; Wardell Armstrong Report LV10387-RPT-001, dated August 2010.
Hydrogeology and Geology	Environment Agency (EA) website. British Geological Survey (BGS) website. BGS Borehole Records website.

2.0 Site Details, Setting and History

2.1 Site Vicinity Description

Information has been obtained from OS, EA and BGS mapping, data supplied by Groundsure and from the Site visit. Table 2 below, summarises the Site details.

Table 2
Site Details

Address	Land off Skelton Grange Road, Stourton, Leeds.	
Site Location	The Site is located approximately 5km to the southeast of Leeds City centre. National Grid Reference 433423, 431179 identifies the approximate Site location.	
Current Usage	Vacant land. The northern portion of the Site is raised by some 5m compared to the rest of it.	
Surrounding Land Use	North	Vacant brownfield land with filter beds of Knostrop sewage works beyond.
	East	Vacant brownfield land with filter beds of sewage works and agricultural land beyond.
	South	River Aire with the Aire and Calder Navigation Canal immediately beyond. Commercial buildings of the Stourton industrial estate lie beyond the canal.
	West	Electricity sub-stations and to the northwest sewage works and the Cross Green Industrial Estate beyond.

2.2 Physical Site Setting

A summary of the main physical features of the Site are given in Table 3.

Table 3
Physical Site Features Summary

Geography and Geology	Gradient	The northern part of the Site forms a plateau, considerably higher (some 5m) than the surrounding ground levels. The majority of the Site is generally at a level of some 24 mAOD.
	Superficial Drift Geology	The BGS map notes the site is underlain by Made Ground with the superficial deposits consisting of Alluvium and the bedrock of Pennine Lower Coal Measures. There have been three main stages of ground investigation previously undertaken on the Site as reported by Wardell Armstrong ¹ . A number of the investigation positions are located outside the red line boundary for this investigation, but in brief the geology consisted of Made Ground up to 6.9 m

¹ Wardell Armstrong, August 2010, Land Regeneration Management, Former Skelton Grange Power Station – Biffa Efw Site Report Number LV10387-RPT-001

		thick consisting of demolition materials, clinker and coal with reworked clays. Natural superficial deposits were identified from 4.4 metres below ground level (mbgl) but are absent in some areas. They consist of sandy clays with coal, mudstone and sandstone gravel to gravels from the river terrace deposits. The bedrock consists of mudstones, siltstones, sandstones, coal seams and associated seatearths with a 1 in 20 dip to the south.
	Mining	The Middleton Little Coal Seam is recorded to outcrop to the north of the Site and is present at shallow depths on Site. The Coal Authority Mining Report as reported in the Wardell Armstrong report records workings in 5 seams of coal beneath and/or within influencing distance of the Site at depths between 50 and 160 mbgl and were last worked in 1939.
Hydrology	Surface Water	There are no surface water features on Site. Off-Site the two main water courses are the River Aire located approximately 50m southwest of the Site and the Aire and Calder Navigation located approximately 100m southwest. There are also three drainage ditches located approximately 350m and 500m southeast and 250m northwest which are likely to drain into the River Aire. The entire Site is at a very low risk from flooding and is not located on designated floodplain.
	Surface Water Abstractions	One surface water abstraction licence has been identified within 500m of the Site which is located 445m west of the Site. Abstraction is from the River Aire for Milling and Water Power in the name of the Trustees of Thwaite Mills.
Hydrogeology	Aquifer Status	The superficial deposits in the south corner of the Site and the bedrock aquifers on Site are classed as Secondary A aquifers. Secondary A aquifers are Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers
	Groundwater Abstractions	No groundwater abstraction licences are located within 500m of the Site.
	Source Protection Zones (SPZ)	The Site is not located within the SPZ of a public supply abstraction.

2.3 Site History

The following section presents a summary of the history of the Site from a review of OS map extracts.

The age and general type of activity and land use can often be determined from the type and layout of structures depicted on OS maps. However, specific elements of Site operations cannot normally be determined from such extracts. Large scale (1:2500/1:1250) and small scale (1:10560/1:10000) historical map extracts were reviewed for selected years between 1852 and 2014. A summary of the findings are given in Table 4 and a copy of the OS maps provided by Groundsure are included in Appendix 02.

Table 4
Site History Summary

Date	On Site	Off Site
1852	<p>Site is mostly agriculture land. A tram road is situated in the southern corner.</p> <p>An old limekiln is annotated</p>	<p>Majority of land is agriculture. Other notable features are :</p> <p>West – Less than 100m Skelton Grange Farm and between 500m-750m Thwaite Mills, Waterloo Quarry.</p> <p>North – Between 500m – 750m open coal works.</p> <p>East – Between 250m-500m brickworks, Lord pit, Ingram pit and Bridge pit, between 500m – 750m – Thorpe Hall Iron Works, Pasture Pit, Calf Pasture Pit</p> <p>A tram road runs east to west across the area and crosses the south of the site and a canal (Calder Navigation) runs southeast to northwest located 100m from south of Site at its closest point.</p>
1906-1969	No Change	<p>West – Between 500m-750m – sewage works, mineral railways.</p> <p>East – The brickworks and smaller pits are no longer marked or now marked as Waterloo Quarry. A large sewage works is identified after 1933 less than 250m.</p> <p>South – Between 500m – 750m – Leeds Copper Works and Vulcan Foundry Works identified (on the opposite bank of the Aire).</p> <p>The tram road is no longer identified after 1956.</p>
1951 -1991	Site now identified as Skelton Grange Power station. Cooling tower, buildings and conveyor can be identified.	<p>West – Less than 500m – Skelton Range no longer identified, between 500 – 750m – mineral railway is now dismantled.</p> <p>North – At 250m – mineral railway identified but dismantled in 1980. Between 500m- 750m sewage works expanded.</p> <p>East – At 250m – The east side of Skelton Grange power station is now identified located immediately east of Site. Less than 750m from Site boundary no collieries or pits evident but sewage work infrastructure identified.</p> <p>South – Between 500m – 750m – Yorkshire copper works is now expanded and Vulcan works now identified as Boston Works.</p>
1991	Cooling towers no longer identified. Not clear if Site infrastructure remains.	<p>North west – At 750m – Light industrial site now identified.</p> <p>North – Less than 750m – Sewage works associated infrastructure expanded.</p> <p>East – Less than 500m – Power station and sewage works infrastructure appears reduced in extent and dismantled in places. Between 250m – 500m – Further expansion or later stage of Skelton Grange Power</p>

		<p>Station identified.</p> <p>Between 500m – 750m – Large sludge bed appears to be infilled.</p> <p>South – At 500m – Copper and Vulcan works now identified as works.</p>
2002	Infrastructure mostly removed	<p>East – Less than 500m – Skelton Grange Power station and sewage works infrastructure removed.</p> <p>South – Less than 500m – Works extended.</p>
2010-2014	All infrastructure removed	<p>West – Less than 500m – the location of Skelton Grange is now identified as environment centre with windmill. Between 500m – 750m – Works and sewage works replaced with museum and car park.</p> <p>North and East – Less than 750m - all sewage work infrastructure no longer identified. Land appears vacant.</p>

The history of the Site and the history of adjacent land is summarised below.

2.3.1 On Site

The site is undeveloped until 1951 with the exception of the southeast corner which was crossed by a tram road. From 1951 to 1991 the Site was occupied by Skelton Grange Power Station (coal fired). Infrastructure which would be located within the present redline Site boundary consists of two cooling towers along the northeast boundary, a main building in the centre and between these two chimneys and a conveyor belt running north to the coal storage which was located immediately east of the present Site boundary. The south of the Site was occupied by car parking. The Site was demolished in the early 2000s and has remained vacant since this time.

2.3.2 Adjacent Land

At the time of the first OS map in 1852 the majority of the surrounding area (within 750m of the Site) was occupied by agriculture land. Other notable land uses were small quarries and pits (Waterloo Quarry, Pasture Pit, Lord Pit, Ingram Pit, Bridge Pit and Calf Pasture Pit) and one open coal works. Other industrial land uses included brickworks, Thwaite Mills and Thorpe Hall Iron Works. The Calder canal ran immediately to the south of the Site.

Between 1906 and 1969 mineral extraction works increase in number and extent along with associated infrastructure in the area with many of the smaller works were incorporated into Waterloo Quarry. Sewage works are identified to the north, east and west of the Site for the first time in this period. The main industrial area is 500m south of the Site includes a copper works and a foundry (on the opposite bank of the River Aire).

Between 1969 and 1991 the number of mineral sites decreases and the extent of the sewage works expands so the facilities to the east and north merge. The works to the south of the Aire continue to expand. After 1991, the sewage works facility located to the east of the site reduces in extent and some of the land becomes occupied by a power station which looks like a later phase to the development of Skelton Grange. A large area of sludge beds appears to be infilled in this same area. The sewage works to the north expands over this period. In the early 2000s the power station and sewage works infrastructure is removed and the industrial works to the south continues to expand. After 2010 some of the land to the west is redeveloped as an environmental education centre.

3.0 Environmental Searches

3.1 Environmental Search Data

A copy of the GroundSure Report obtained by SLR is contained in Appendix 02 and a summary of the search information is provided below:

- *Records of Integrated Pollution Control /Integrated Pollution Prevention and Control Permits / Environmental Permits* – 1 for Rwe Npower Plc located 42 northwest of the Site, revoked in 1994. 1 located 450m southwest for Leeds Bio Fuels Limited.
- *Licensed Discharge Consents* – Three for Skelton Grange Power Station located 70m, 107m and 288m south for discharge to River Aire of contaminated surface water. One for Thwaite Mill located 415 west of Site for sewage and treated effluent to River Aire. One for Knostrop WWTW located 421m north west of Site for sewage discharge to Wyke Beck and the River Aire.
- *Environment Agency Recorded Pollution incidents* – 37 minor incidents are recorded within 500m of the Site but no major incidents. All are dated between 2002 and 2003. The closest and most recent was for 50m southeast of Site, which was for a minor pollution to water by lubricating oils.
- *Environment Agency historic landfill sites* – 8 historic landfills are recorded within 500m of the Site. The closest is Thwaite Farm, located 146m west for inert, commercial, special liquid sludge and which was surrendered in 1993. There are no current landfills identified within 500m.
- *Other Waste Management facilities* – 2 current licensed waste sites are located within 500m of Site. 1 is for metal recycling 390m north west of the Site and the second is for end of life vehicles located 476m southwest of the Site.
- *National Grid High Voltage Underground Electricity Transmission Cables* – 2, 275 KV cables are identified as being on site and 4 more are located within 500m. 8 PILOT cables are also located within 500m.

Groundwater and surface water abstraction data was discussed in section 2.2.

4.0 Site Inspection

4.1 Site Inspection

An inspection was undertaken by a Consultant from SLR on the 23rd May 2018 comprising a walk over of the Site. Relevant observations and discussions are summarised below with photographs shown in Appendix 03.

The Site is essentially split over two levels. The northern part is raised by some 5m above the remainder of the Site and has the concrete bases of two cooling towers. The slope was relatively steep and reasonably well vegetated with grass and shrubs. Where soils were observed, these comprised clay and sandy gravel. The presence of timber, plastic etc. was not noted.

The central part of the Site comprised a flat hardstanding area with some waste aggregate cover in places. There was little vegetation growth presumably as a result of the thickness of mass concrete in the location of the former power station. The western boundary of this area sloped upwards towards a series of electricity sub-stations and distribution infrastructure.

The southern portion of the Site was broadly at the same level as the hardstanding area but comprised mature scrub vegetation and a series of internal access roads. An electricity pylon was located in the southwest corner within a fenced compound. Here, electricity cables pass from the overhead electricity transmission system to the sub-surface system.

The River Aire lies immediately to the south of the Site in a channel that is some 4 to 5m lower than the elevation of the Site. At the time of the visit the channel banks were well vegetated with no evidence of die-back, or similar.

5.0 Document and Information Review

5.1 Site Investigation

A summary of historical Phase II intrusive investigations at the Site is contained in a Land Regeneration Management Report produced by Wardell Armstrong in August 2010. This report discussed data gathered by:

- Exploration Associates in August 1998 comprising 8 boreholes and 21 trial pits;
- Norwest Holst Soil Engineering Ltd in September 2001 comprising 14 boreholes and 9 trial pits;
- Norwest Holst Soil Engineering Ltd, additional gas and groundwater monitoring between August 2007 and March 2009;
- Structural Soils Ltd in December 2008 comprising 20 boreholes and 13 trial pits; and
- Wardell Armstrong Ltd additional gas and groundwater monitoring between December 2009 and April 2010.

The report notes that not all of the investigation locations were within the curtilage of the current development area, but a drawing supporting the 2010 report shows that there are a number of sampling locations (21 trial pits and 11 boreholes) at the Site itself to allow a meaningful assessment of ground conditions.

Nevertheless it should be noted that the analytical quality data collected from the Site, as presented in the 2010 report, is limited to Norwest Holst TP12 and TP13, Structural Soils TP6 and TP11 and Exploration Associates TP15, TP18, TP23, and TP27.

The assessment of off-Site samples is considered relevant as the Made Ground materials will likely be similar to those at the Site itself.

Gas and groundwater sampling has been undertaken from 5 borehole installations on some 20 occasions to provide a reasonably robust data set over time. Over the period of assessment, soil laboratory analysis has focussed on heavy metals, total petroleum hydrocarbons (TPH) and asbestos as these are more likely the type of contaminant associated with coal fired power stations. In the 2010 investigation, speciated TPH and polyaromatic hydrocarbon (PAH) analysis was also carried out, together with leachability testing to allow better characterisation of soil conditions.

Soil Quality

The laboratory results obtained from the various phases of investigation have been compared to Generic Assessment Criteria/Soil Guideline Values published by DEFRA/EA and by LQM on behalf of the Chartered Institute of Environmental Health, for a commercial / industrial end use. The assessment criteria chosen at the time of the reporting is considered to be valid and appropriate. It should be recognised that some slight modifications to certain GACs (e.g. lead) have been made since 2010 but there have not been any significant changes in the assessment criteria values published. For this present work, SLR has compared the available data with the current (2018) published values for completeness.

Although slightly elevated heavy metal values were noted in certain samples from the Made Ground within the broader area of the 2010 Report none of the results have exceeded their respective GAC/SVGs for a commercial/industrial end use. Similarly all pH values were generally within the range of 6-9, which are considered representative of natural background values.

For the samples collected at the Site itself, the heavy metal concentrations are only considered to be slightly elevated at Exploration Associates TP27 (south central part of the Site).

The presence of asbestos fibres has been noted in Norwest Holts trial pit TP12 (0.6m depth) (southeast corner of the Site); Exploration Associates TP15 (0.1m depth) (western part of the Site), and Exploration Associates

TP18 (0.4m depth) (northern Site boundary). Asbestos was not noted in Norwest Holst TP12 (2.7m depth) or TP13 (2m depth), Structural Soils TP11 (0.9m depth) (northern part of the Site), or Exploration Associates TP18 (1.7m depth) (northern Site boundary). These were the only locations where analysis of asbestos fibres was undertaken.

For TPH and PAH, slightly elevated concentrations have been recorded on the land to the north although (where speciated) the concentrations did not exceed the relevant GAC/SGV (for any individual TPH fraction or individual speciated PAH) for an industrial/commercial end use.

Groundwater Quality

One permanent borehole (Norwest Holst BH4) is located on the Site at the downgradient location and two permanent boreholes are located upgradient (Norwest Holst BH2 and Structural Soils BH8/23). These were subject to up to 20 rounds of monitoring in the period 2007 to 2010.

Leachability analysis was also carried out on certain soil samples during all three of the investigation programmes. The only samples subject to leachability testing at the Site itself was Norwest Holst TP12 (0.6m and 2.7m depth). Concentrations of elute were initially compared to Environmental Quality Standards (EQS) as the adjacent River Aire was considered to be the most sensitive receptor. Where EQS values have not been published, the results were compared with UK Drinking Water Standards (UKDWS), as appropriate.

The results showed that the assessment criteria were not exceeded for the on-Site sample. Off-Site to the north there were marginal exceedances for copper at two locations, for mercury at one location, for selenium at two locations and for sulphate at four locations. The sulphate values were considered to significantly exceed the criteria. It should be noted that sulphate eluate analysis was not undertaken for the on-Site samples at Norwest Holst TP12.

It should be stressed that leachability results are not indicative of pollution, but are used as the first tier in hydrogeological risk assessment. There are further considerations of leachate migration through unsaturated soils, and dilution/degradation reactions within the aquifer between a nominal contaminant source and the receptor/compliance point to be taken into account.

Generally for the off-Site samples, the leachability results are not considered to be of significant concern.

Certain contaminants were noted in groundwater, at the down gradient BH4, in excess of the assessment criteria adopted when this location was first monitored in 2007/2008. These related to:

- one exceedance of arsenic (212 µg/l compared to the EQS of 50 µg/l (BH4 shallow));
- three exceedances for ammoniacal nitrogen (maximum concentrations: BH4 shallow - 93.9 mg/l and BH4 deep - 170.3 mg/l compared with the EQS of 15 µg/l);
- two exceedances of benzo(a)pyrene (maximum concentrations: BH4 shallow – 0.75 µg/l and BH4 deep - 4.63 µg/l (noted in the report text) or 0.44 µg/l (noted in the report appendix) compared to with the UKDWS of 0.01 µg/l).

The additional monitoring carried out in 2009 and 2010, only noted the following exceedances:

- two exceedances for ammoniacal nitrogen (maximum concentration of 24 mg/l compared with the EQS of 15 µg/l (BH4 shallow only)); and
- one exceedance of TPH (maximum concentration of 133 µg/l compared with the then UKDWS of 0.1 µg/l (BH4 shallow only)).

No exceedances were noted in the boreholes to the north of the Site during this period.

The results suggest that following stabilisation of the boreholes after drilling, significant groundwater impacts are not present at the Site although the area of organic materials in the southeast corner may be contributing to some modest localised ammoniacal nitrogen impacts and minor localised TPH impacts. It should be noted

that during the period August 2008 to April 2010 the range of ammoniacal nitrogen impacts in BH4 shallow was 1.15 to 12.1 mg/l and in BH4 deep it was 2.1 to 6.3 mg/l. During the same period the maximum TPH concentration was 0.133 mg/l in BH4 shallow.

Surface water monitoring of the River Aire did not show any significant differences in water quality downstream of the Site, compared to upstream, and therefore there does not appear to be any gross impacts on water quality as a result of the Site's condition.

Gas Monitoring

Gas monitoring over the period 2007 to 2010 was undertaken at three locations, with two of these locations (BH2 and BH4) having dual installations in both the Made Ground and in the Coal Measures strata. The other borehole (BH8/23) was installed in the Coal Measures strata only. The deeper boreholes (referred to above) were screened in the natural coal measures strata at about a depth to correspond with coal seams or worked out coal workings to better characterise ground gases.

At the Site itself, the maximum methane concentration in the shallow installations was 71 % v/v and the maximum carbon dioxide value was 5.4% v/v (BH4); however the highest flow rate recorded was low at only 0.4 l/hr (it should be noted that this is classified as low flow according to CIRIA 665). In the Coal Measures the maximum methane concentration was 6.1% v/v and the maximum carbon dioxide value was 3.7% v/v (BH4). The highest flow rate recorded was slightly higher at 1.4 l/hr. The shallow Made Ground concentrations are significant but monitoring of the Coal Measures also show the presence of both methane and carbon dioxide at values higher than recognised assessment criteria. The Wardell Armstrong report notes that there are three possible sources: organic rich materials present at location BH4; natural gas from the Coal Measures; or potential migration of ground gases from the Knostrop No1 sludge lagoon landfill, which is located some 300m to the southeast.

The original Norwest Holst log for BH4 notes 1.9m of grey clayey gravel of mudstone and brick and 0.9m of grey clayey gravel of mudstone overlying 0.3m of firm grey clay and 3.6m of soft black organic clay, with the shallow borehole being substantially installed across the clay deposits. The organic clay materials are described as being natural rather than being infilled waste.

Given the low flow, the risks of accumulation of ground gases was considered (in the 2010 summary report) to be only moderate. Nevertheless a gas risk assessment was undertaken in accordance with CIRIA 665 and which determined that a Gas Screening Value (GSV) of 0.994 was derived for methane and a GSV of 0.272 derived for carbon dioxide. This represents a Characteristic Situation 3 (Moderate Risk) and mitigation measures would need to be incorporated into foundation design if construction was to be undertaken in this portion of the Site. The indicative layout notes that the area will be Site access/soft landscaping rather than buildings.

To the north of the Site, methane was not recorded in the Made Ground and the maximum carbon dioxide concentration was 5.4% v/v (BH2). A low flow rate was recorded (maximum of 0.4 l/hr). In the Coal Measures, the maximum methane concentration was 0.1% v/v (BH2) and the maximum carbon dioxide concentration was 4.55% v/v (also at BH2). A low flow rate was also recorded (maximum of 0.2 l/hr)

Therefore the risk of ground gases entering the Site from other portions of former power station or from the Knostrop sewage works filter beds to the northeast and northwest are considered to be low.

Ground Conditions

The depth of Made Ground varies across the Site. In the northern part, Made Ground has been proven to a depth of 6.9m (Exploration Associates BH7) and broadly comprises a sandy clay gravel, clayey silty sand or firm clay with aggregate, concrete, brick, mudstone and coal fragments. In the north/northeast central portion of the Site the thickness of Made Ground is consistently greater than 5m in depth. The presence of extensive areas of residual coal was not encountered.

On the western/northwestern part of the Site the presence of superficial deposits is noted at a depth of between 0.5m (Structural Soils TP6) and 1m (Exploration Associates TP15) and varies in thickness of between 1m and 2.3m. In this part of the Site these deposits are a sandy clay.

The Made Ground thins out in the central part of the Site where the depth is variable (between 0.5m and 2m) and comprises silty gravel, mudstone gravel, and crushed aggregate. Generally in this central area the Made Ground lies directly on Coal Measures strata and the Superficial Deposits (that are present to the north) are absent.

There is, however, a deeper area of Made Ground in the southeast corner of the Site where up to 4.3m of Made Ground (sandy gravelly clay with mudstone, burnt shale, and clinker) was noted above a sandy gravelly clay and a firm to stiff organic rich clay. At one location (Norwest Holst TP12) a whole layer of brick was observed above the clay and placed at an angle of 45 degrees.

Solid geology comprises mudstone, siltstone and sandstone of the Carboniferous Coal Measures, as noted on BGS mapping.

Groundwater was generally not encountered in the Made Ground although a small seepage was noted in the southeast corner (Norwest Holst TPs 12 and 13) between 2.7m and 4.2m on the interface of the Made Ground and underlying clay or mudstone. Groundwater was noted in Norwest Holst TP85, but this was attributed to breaching of an old culvert in the area of the former cooling towers rather than to the presence of natural groundwater.

In the west/northwest portion of the Site where there is evidence of a small area of superficial deposits, groundwater was not encountered during the investigation programmes reported. However, the 2010 report has monitoring data from the superficial deposits (predominantly from off-Site boreholes) suggests that groundwater is contained in these deposits and has a southwesterly flow direction. It should be stressed that over the majority of the Site itself the superficial deposits are absent and the Made Ground is dry. Therefore it is likely that if groundwater is present in the Superficial Deposits, it is as discontinuous perched water rather than forming a discrete hydrogeological unit.

The principal observations of groundwater during drilling, were noted within the Coal Measures strata. Here the presence of groundwater was recorded at various depths between approximately 7m and 15m depth and was generally semi confined within more permeable rock units. A broad piezometric elevation of some 19 mAOD to 22 mAOD was recorded across the Site.

Although the 2010 Report shows groundwater contours at shallow depth, the elevations are actually the semi-confined piezometric head elevation within Coal Measures strata and not an indication of resting groundwater elevation because the Made Ground is dry. Therefore at the Site there appears to be an upward hydraulic gradient between the Coal Measures and any overlying Superficial Deposits.

The gradient is to the south towards the River Aire.

6.0 Risk Appraisal

6.1 Conceptual Model Overview

In evaluating the potential risks, liabilities and costs associated with contaminated land, best practice is to consider site conditions within a risk based Conceptual Site Model using the principles of linkage between *sources, pathways* and *receptors*.

Table 5 presents a subjective low-medium-high classification that has been applied to each of the sources scenarios to designate the likelihood of presence on site, while receptors are known facts (as at May 2018). Pathway linkage is classified into a low-medium-high likelihood although it excludes the time variable, which could be potentially significant for historical sources for which no receptor impact has been recorded over many years. This is discussed further below.

For the purposes of this assessment the following classifications have been used:

- Low Risk – it is considered that this level of risk means there is little likelihood that a significant environmental liability will crystallise in the near future given current information, knowledge and regulatory framework.
- Medium Risk - it is considered that this level of risk means there is some potential that an environmental liability could crystallise at some point in the future given current information, knowledge and regulatory framework, but the implications of such a risk are considered unlikely to constitute a severe impact on the ongoing operation or viability of the site in the absence of further information to the contrary.
- High Risk - it is considered that this level of risk means there is a potential that a significant environmental liability could crystallise in the future given current information, knowledge and regulatory framework, but the timing or magnitude of such an event is not necessarily certain nor would it necessarily represent an unacceptable occurrence in terms of the viability of site operations. It does imply such a risk exists however and could potentially materialise.

6.2 Conceptual Site Model: Development Area 1

Table 5 sets out potential sources, pathways and receptors associated with the Site.

Table 5
Conceptual Site Model Development Area 1

Potential Sources		
Contamination related to:	Likelihood of Presence	Reason
Historical Land Use	Low to Medium (as isolated hotspots have been noted in past investigation)	<ul style="list-style-type: none"> • The historic OS mapping indicates that a small portion of the Site at the northern boundary may have been associated with some ground disturbance/sludge infilling (in the period late 1920s to late 1940s). The Skelton Grange Power Station is first shown on the 1951 map and comprised one cooling tower and a building in the east-central portion of the Site. An expanded building and 2 additional towers are shown on the 1963-67 map. By publication of the 1978-1980 map only two towers are shown and these are no longer shown on the 1991 map. The Site is shown as vacant by publication of the 2002 map. • Site investigation has proven the presence of up to 6.9m of Made Ground in the northern part of the Site (sandy gravel or clay with much fragments of brick, mudstone and coal) but the majority of the Site appears to have a much reduced thickness (some 0,5m to 2m). A second deeper area (up to 4.2m) of Made Ground was noted in the southeast corner. • No evidence of 'domestic type' waste or putrescible materials have been noted in the Made Ground. • Significant soil impacts were not noted although three sample showed the presence of asbestos fibres. • Ground gases (notably methane) was noted in the southeast corner in shallow and deep boreholes; this appears to be associated with natural ground. • Localised groundwater impacts, predominantly from ammoniacal nitrogen noted in

		<p>south-eastern corner.</p> <p>Widespread contaminant impacts were not noted.</p>
Current Land Use	Low	The area is not currently used but has various stockpiles of largely inert materials such as soil, brick, and concrete. These are not considered to represent a likely current potential contaminant source.
Off-site Sources	Low to Medium: electricity transformer stations, sewage works, filter beds, sludge lagoon landfill.	<p>Land to the immediate northeast and southeast also formed part of the former power station – site investigation has not noted the presence of significant soil or groundwater impacts or the presence of ground gas in these areas.</p> <p>Electricity transformer stations in the south-central part of the Site itself and to the west/northwest. Although transformer oil with PCBs may have been anticipated in the past this is unlikely the current situation – PCB and heavy oils have low mobility in the natural environment and impacts from this off-Site source are considered unlikely.</p> <p>Knostrap sewage works (150m north) and filter beds (150m northeast) – potential source of heavy metals ammoniacal nitrogen and non-volatile organic compounds. The sewage works and filter beds lie up-hydraulic gradient of the Site and no impacts have been noted in groundwater samples from the Site or beneath land immediate to the north of it. Therefore impacts from this off-Site source are considered unlikely</p>
Potential Receptors		
Site Users – Public and workers	The land will be used for commercial / industrial purposes as an EfW.	
Offsite residential or commercial properties	There are no nearby residential properties within 500m of the Site. The nearest commercial / light industrial area lies some 100 to 200m to the southwest on the opposite bank of the River Aire / Aire and Calder Navigation Canal. Knostrap sewage works is present some 100m to the west.	
Controlled Waters – Surface Water	The River Aire runs some 25m to the southwest with the Aire and Calder Navigation Canal immediately beyond. The two have separate channels in the vicinity of the Site.	
Controlled Waters –	Although groundwater was noted in off-Site Superficial Deposits (during previous investigations) this is likely to be	

<p>Secondary A Aquifer of the Coal Measures.</p>	<p>limited at the Site itself as most of the Superficial Deposits have been removed and over most of the Site the Made Ground lies directly over Coal Measures strata. The Made Ground at the Site did not contain groundwater. Confined groundwater was found in the Coal Measures with water strikes recorded during the drilling investigations at depths of between 7m and 15m. In some areas, notably in the west/northwest and southeast, there is a thin layer of clay (some 1m to 2m in thickness) that offers some degree of protection to the Coal Measures.</p> <p>Although the Coal Measures are classified as a Secondary A Aquifer, there are no licensed abstractions recorded within 500m of the Site.</p>
<p>Ecological/ biodiversity</p>	<p>The propose development area does not lie adjacent to any designated habitat although it is bounded to the south by the River Aire.</p>

Potential Pathways		
Pathway Route	Likelihood of linkage	Reason
<p>Inhalation of vapours/dust for users and emissions to off-Site receptors.</p>	<p>Low to Medium</p>	<p>Volatile Organic Compound contaminants would not be anticipated based on past use of the Site as a power station. A small area in the southeast corner of the Site has high methane and carbon dioxide concentrations, which appear to be associated with natural organic rich soils. Monitoring has shown a borehole in the area to have low flow rates showing that gas migration does not appear to be a significant issue. It is proposed that this area will be used for soft landscaping and/or HGV access. Given the presence of potentially soft ground, geotechnical improvements may be required and this would provide an opportunity to address the source of ground gases e.g. by way of venting if required.</p> <p>Nevertheless, the presence of an isolated pocket of ground gases would in itself unlikely be cause for active intervention to allow development as an entrance or an areas of soft landscaping.</p> <p>Potential gas migration onto the development area from an off-Site source is not considered to be a risk.</p> <p>The generation of dust is possible during the earthworks phase, although this will be mitigated by way the Construction Phase Management Plan (CPMP) required by Condition 16 (the management, if any is required, of the localised presence of asbestos in Made Ground, will need</p>

		<p>to be factored into and appended to the CPMP as an addendum if required).</p> <p>Post-development, the Site will predominantly be hardstanding surfacing and dust generation would therefore not be expected.</p>
Ingestion of soils and home-grown vegetables	Low	<p>The ingestion of soils is unlikely during the earthworks phase and it would be expected that any risks can be managed by an appropriate health and safety plan.</p> <p>Post-development, the Site will predominantly be hardstanding surfacing and exposure of soils to end-users will be limited to soft-landscaping areas only.</p> <p>The Site will not be used to support growth of home-grown vegetables.</p>
Leaching of contaminated soil and impact to groundwater beneath site	Low	<p>Unlikely to be an active process at the Site given the absence of a contaminant source in soil and analytical data (for the broader area of the former power station) that suggest contaminant species are not leachable. It should be noted that Made Ground does lie directly on the Secondary A Coal Measures Aquifer and a watching brief should be maintained during the earthworks phase in the event that any hotspots of (as yet) unrecorded contaminant impacts are noted.</p> <p>Post-development the Site will be predominantly hardstanding and will therefore significantly reduce any rainfall percolation through the Made Ground.</p>
Migration of contaminated groundwater into surface water	Low	<p>A small 'hotspot' of groundwater impact by ammoniacal nitrogen was noted following drilling but at the time of the last round of monitoring the concentrations had reduced to 2.6mg/l in BH4 shallow (screened in superficial clay deposits) and 6.3 mg/l in BH4 deep (screened in siltstone and sandstone). At these concentrations, the risk of migration of contaminated groundwater into the surface water of the River Aire with impacts in the river itself is considered to be very low.</p>
Migration of contaminated groundwater from an off-Site source	Low	<p>Groundwater impacts have not been noted in upgradient monitoring points (in either shallow or deeper well installations) and the risk of contaminant migration from an off-Site source with impacts at the Site itself is considered to be low.</p>
Surface water discharge	Low	<p>At present there are no surface water discharges. Intake and discharge culverts, from the River Aire to the former cooling towers, are believed to still be present in the sub-surface.</p> <p>Post-development it would be considered that these would be regulated by way of an</p>

		Environmental Permit.
Ecological impacts	Low	Given the absence of any adjacent, designated habitat the likelihood of impacts on ecological receptors is considered to be low. It is recognised that the River Aire, is present immediately to the south and any dust generation, or surface water run-off, caused by the earthworks phase of the development should be adequately mitigated by appropriate contractor working practices i.e. through the Construction Phase Management Plan (CPMP required by Condition 16).
Direct contact with property materials	Low	The presence of potential deleterious impacts on building materials has not been identified although consideration will need to be given to the need for sulphate resistant cement. This is considered a detailed design matter that is not a soil remediation matter.

6.3 Environmental Risk Assessment Matrix

With respect to the levels of risk associated with the site, Table 6 provides an assessment of the potential environmental risk issues given currently available information/knowledge of the Site.

Table 6
Risk Assessment Matrix

Issue	Risk Category	Reason
Contamination Potential:		
Potential for significant contamination	Low to Medium: (localised impact in the southeastern corner of the Site and the presence of isolated samples where asbestos fibres have been detected) Low elsewhere	A 'hotspot' of elevated ground gas (predominantly methane) is present in southeast corner and associated with natural organic clay. Minor groundwater impacts from ammoniacal nitrogen and TPH are also present at this location. The monitoring borehole has low gas flow rates and development risks are considered at worst to be only medium. Improvements to ground conditions are likely to be required to allow use of the area for HGV movement and localised venting of the organic clay could be considered at the time. Further sampling and analysis of any materials subject to cut and fill / earthworks movements should be undertaken to confirm the presence of asbestos and to quantify its mass. It is envisaged that reuse of any affected soils can be appropriately undertaken using the strategy set out in CL:AIRE Definition of Waste: Code of Practice. Environmental and human health protection would be served by way of registering the project with the Environment Agency and the appointment of a Qualified Person (under the terms of the code) to safeguard that appropriate management is undertaken. The land quality condition of the Site is such that remediation is not required to allow its safe development.
Potential for contaminants migrating off the Site	Low	The potential for migration and impacts to off-Site groundwater resource and/or surface water is considered to be low.
Potential for contaminants migrating onto the Development Area	Low	Given the absence of an identified off-Site source, the likelihood of impacts from known or suspected off-Site contaminant sources is considered to be low.

Environmental Consequences:		
Risk of pollution of controlled waters	Low	The proposed development will not have any effluent discharges other than surface water run-off from hardstanding surfacing or roofs and this will be managed through an Environmental Permit.
Risk of damage to property	Low	No specific risks to property have been identified. Detailed design will need to assess issues such as the need to use sulphate resistant cement etc.
Risk of harm to human health	Low to Medium	Further risk assessment will be required at the time of redevelopment once the detailed earthworks design has been developed. This is considered manageable, as noted above.
Overall Risk: Low to Medium (in 'hotspot' areas only): Low over the majority of the Site.		

6.4 Land Quality Risk Assessment Summary

No Potential Pollutant Linkages (PPL's) have been identified although certain issues (as discussed in this report) will need to be factored into detailed design. These issues are considered to be normal for the construction industry and can be appropriately managed under established and mature codes of practice.

7.0 Conclusions

This Phase I ESA has been undertaken on land of the former Skelton Grange Power Station in order to discharge Condition 22 of Planning Permission 11/03705/FU. This permission was granted to allow development of the Site as an Energy Recovery Facility.

The land is currently vacant.

The land has largely been used as a coal fired power station since the 1950s although a small portion (in the northern part of the Site) appears to have been associated with the adjacent sewage treatment work. The northern portion of the Site has up to 7m of Made Ground, although this is much thinner (some 2m) over the central area, where the former power station building was located. The Made Ground broadly comprises a sandy clay gravel, clayey silty sand or firm clay with aggregate, concrete, brick, mudstone and coal fragments. The presence of extensive areas of residual coal or putrescible wastes were not encountered.

Past intrusive investigations have noted one 'hotspots' of soil impacts (largely in relation to ground gas but also with some minor groundwater impact) in the south-eastern corner of the Site. In this area, the development risks are considered at worst to be only medium and improvements to ground conditions are likely to be required to allow use of the area for access and soft landscaping purposes. If measures such as localised venting of naturally occurring clay was required, this could be carried out at this time of access construction.

The presence of asbestos fibres have been noted in several samples from the Made Ground and further sampling of any materials subject to cut and fill / earthworks movements would be prudent to confirm the presence of asbestos and to quantify its mass. It is envisaged that reuse of any affected soils can be appropriately undertaken using the strategy set out in CL:AIRE Definition of Waste: Code of Practice, with registration of the project with the Environment Agency and the appointment of a Qualified Person being considered appropriate in safeguarding human health and environmental protection during the works.

The requirements of the planning condition (C22 of Ref:11/03705/FU) have been met in that a Phase I Desk Study has been submitted to the Waste Planning Authority for approval.

The Phase I Desk Study indicates that the land quality condition of the Site is such that intrusive investigation is not necessary and remediation is not required in advance of construction to allow its safe development or constrain the proposed development.

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APPENDIX SCR3

Groundsure Enviro Insight Report



EmapSite

Masdar House, 1 Reading Road,
Eversley, RG27 0RP

Groundsure Reference: EMS-479320_642783

Your Reference: EMS_479320_642783

Report Date 21 May 2018

Report Delivery Method: Email - pdf

Enviro Insight

Address: Land at Skelton Grange,

Dear Sir/ Madam,

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

If you would like further assistance regarding this report then please contact the emapsite customer services team on 0118 9736883 quoting the above report reference number.

Yours faithfully,

emapsite customer services team

Enc.
Groundsure Enviroinsight

Address: Land at Skelton Grange,
Date: 21 May 2018
Reference: EMS-479320_642783
Client: EmapSite



Aerial Photograph Capture date: 26-Mar-2012
Grid Reference: 433423,431179
Site Size: 8.59ha

Report Reference: EMS-479320_642783
Client Reference: EMS_479320_642783

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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	12	10	74	123
1.2 Additional Information – Historical Tank Database	11	18	29	105
1.3 Additional Information – Historical Energy Features Database	8	8	17	17
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	0
1.6 Potentially Infilled Land	3	0	27	65

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	3	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	3
2.1.3 Records of Red List Discharge Consents	0	2	1	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	1
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	1
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	2	4	79
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	1	0	4	32
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	3	2	8	9
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	1
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	3	7	4
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	13	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	1	0	2	4	33	15

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	4	4	18	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	2	2	7	3
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	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	0	5	6
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	1	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	0	0	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	No	No	No	No	No
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	2	16	16	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	Low
7.4 Flood Defences within 250m of the study site	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	Low

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	0
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	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	0
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	1
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	0	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	1
8.14 Records of Green Belt land	0	0	0	0	1	1

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	Very 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 not in a Radon Affected Area, as less than 1% 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?	No 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	None 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 licenses, 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.

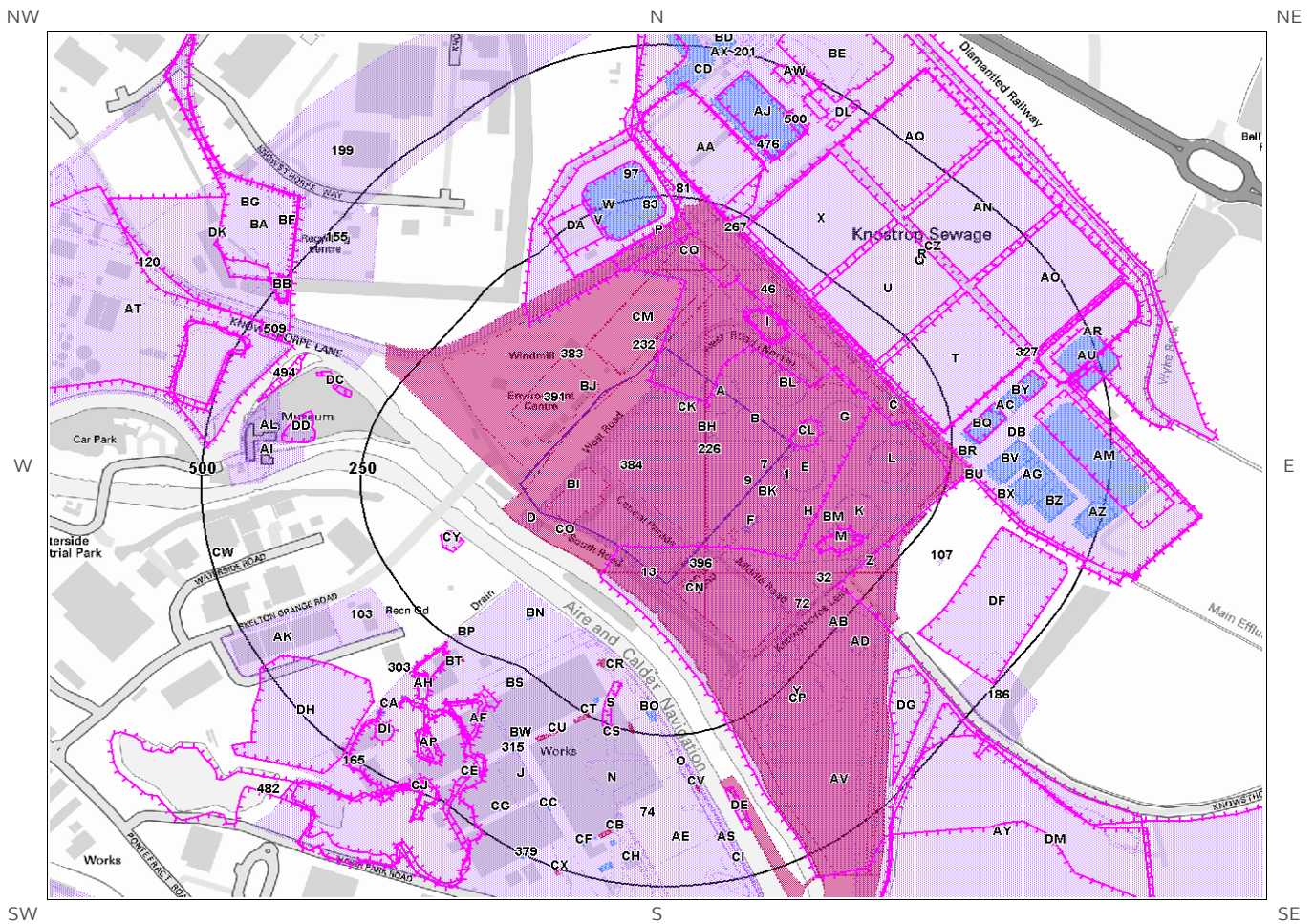
Note: Maps

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).

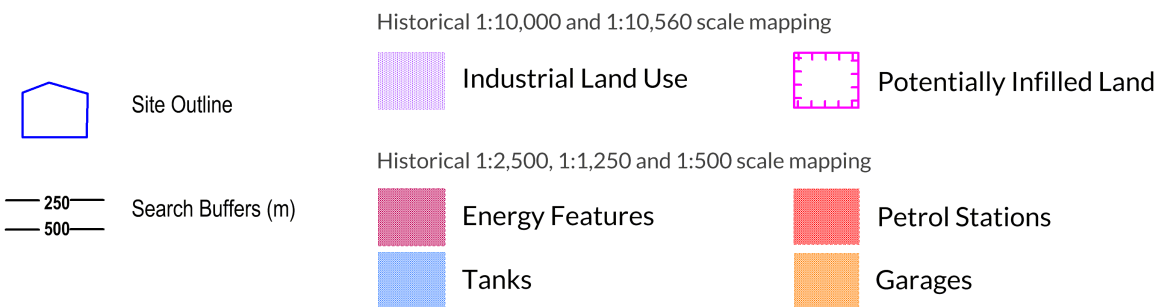
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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: 219

ID	Distance [m]	Direction	Use	Date
1	0	On Site	Railway Sidings	1978
2A	0	On Site	Unspecified Tank	1978
3A	0	On Site	Unspecified Tank	1969
4B	0	On Site	Unspecified Tank	1978
5B	0	On Site	Unspecified Tank	1969
6CL	0	On Site	Unspecified Heap	1990
7	0	On Site	Unspecified Commercial/Industrial	1978
8BK	0	On Site	Railway Sidings	1969
9	0	On Site	Unspecified Works	1969
10	0	On Site	Tramway Sidings	1938
11C	0	On Site	Sewage Works	1938
12C	0	On Site	Sewage Works	1938
13	2	SW	Railway Sidings	1932
14D	9	SW	Pumping House	1990
15D	9	SW	Pump House	1978
16E	10	SE	Unspecified Tank	1978
17E	10	SE	Unspecified Tank	1969
18E	10	SE	Unspecified Tank	1990
19F	30	SE	Unspecified Tanks	1969
20F	32	SE	Unspecified Tanks	1990
21F	32	SE	Unspecified Tanks	1978
22BL	37	NE	Unspecified Tank	1969
23	55	SE	Railway Sidings	1932
24G	57	NE	Unspecified Tank	1990
25G	57	NE	Unspecified Tank	1978
26G	57	NE	Unspecified Tank	1969
27BM	72	SE	Chimney	1990
28H	90	SE	Unspecified Tank	1969
29H	91	SE	Unspecified Tank	1978
30I	106	NE	Refuse Heap	1938
31I	106	NE	Refuse Heap	1938
32	107	SE	Tramway Sidings	1948
33I	109	NE	Refuse Heap	1948

34I	111	NE	Refuse Heap	1932
35	116	NE	Railway Sidings	1932
36J	118	S	Unspecified Works	1990
37J	118	S	Copper Works	1956
38J	118	S	Copper Works	1969
39J	118	S	Unspecified Works	1978
40K	121	SE	Unspecified Tank	1969
41K	121	SE	Unspecified Tank	1978
42L	125	E	Unspecified Tank	1978
43L	125	E	Unspecified Tank	1969
44L	125	E	Unspecified Tank	1990
45CY	126	SW	Unspecified Heap	1948
46	129	NE	Tramway Sidings	1948
47Q	129	NE	Sewage Works	1948
48M	136	SE	Unspecified Heap	1932
49M	137	SE	Unspecified Heap	1938
50M	137	SE	Unspecified Heap	1938
51N	137	SW	Unspecified Works	1956
52N	137	SW	Unspecified Works	1956
53M	138	SE	Unspecified Heaps	1948
54O	144	SW	Railway Sidings	1956
55O	144	SW	Railway Sidings	1956
56O	144	SW	Railway Sidings	1956
57V	144	NW	Sewage Works	1990
58N	148	SW	Copper Works	1948
59P	158	NW	Mineral Railway Sidings	1956
60P	158	NW	Mineral Railway Sidings	1956
61W	171	NW	Sewage Works	1978
62Q	171	NE	Corporation Sewage Works	1932
63R	174	NE	Unspecified Works	1956
64R	174	NE	Unspecified Works	1956
65R	176	NE	Sewage Works	1956
66R	176	NE	Sewage Works	1978
67R	176	NE	Unspecified Works	1969
68R	176	NE	Sewage Works	1990
69CS	176	SW	Ground Workings and Refuse Heap	1932
70S	179	SW	Refuse Heap	1938
71S	179	SW	Refuse Heap	1938
72	184	SE	Railway Sidings	1932
73CZ	185	NE	Filter Beds	1956
74	187	S	Copper Works	1938
75T	187	NE	Filter Beds	1990
76T	187	NE	Filter Beds	1978
77U	188	NE	Filter Beds	1978

78U	188	NE	Filter Beds	1990
79V	189	N	Unspecified Tanks	1990
80W	190	N	Filter Beds	1978
81	200	NE	Railway Sidings	1990
82DA	207	NW	Filter Beds	1990
83	208	N	Unspecified Tank	1990
84X	212	NE	Filter Beds	1990
85X	212	NE	Filter Beds	1978
86Y	216	SE	Power Station	1990
87Y	216	SE	Power Station	1978
88Z	218	SE	Unspecified Tank	1978
89Z	218	SE	Unspecified Tank	1990
90AA	233	NE	Unspecified Pit	1938
91AA	233	NE	Unspecified Pit	1938
92AB	237	SE	Unspecified Tanks	1978
93AB	237	SE	Unspecified Tanks	1990
94AA	239	NE	Unspecified Ground Workings	1932
95AA	242	N	Unspecified Pit	1948
96W	246	N	Unspecified Tank	1990
97	259	N	Unspecified Tank	1990
98AC	270	E	Unspecified Tanks	1990
99AC	270	E	Unspecified Tanks	1978
100AE	272	S	Copper Works	1932
101AD	284	SE	Unspecified Tanks	1990
102AD	284	SE	Unspecified Tanks	1978
103	288	SW	Unspecified Works	1990
104	294	S	Railway Sidings	1948
105O	295	S	Railway Sidings	1932
106	295	S	Railway Sidings	1938
107	298	SE	Brick Kilns	1847
108AF	302	S	Unspecified Ground Workings	1932
109DC	303	NW	Unspecified Ground Workings	1969
110AE	303	S	Copper Works	1905
111AF	304	S	Unspecified Ground Workings	1938
112AF	304	S	Unspecified Ground Workings	1938
113AG	310	E	Unspecified Tanks	1956
114AG	310	E	Unspecified Tanks	1978
115AG	310	E	Unspecified Tanks	1990
116AG	310	E	Unspecified Tanks	1969
117AF	312	S	Unspecified Heaps	1948
118AC	315	E	Unspecified Pit	1847
119AS	316	S	Railway Sidings	1905

120	317	NW	Tramway Sidings	1938
121AH	321	SW	Unspecified Heap	1948
122AH	321	SW	Hospital	1932
123AH	325	SW	Unspecified Heap	1938
124AH	325	SW	Unspecified Heap	1938
125AI	330	W	Unspecified Mills	1956
126AI	330	W	Unspecified Mills	1956
127AI	331	W	Whiting Mills	1956
128DD	331	W	Refuse Heap	1969
129BX	341	E	Unspecified Pit	1847
130AL	344	W	Unspecified Mills	1905
131DE	350	S	Unspecified Heap	1956
132DF	351	SE	Sludge Beds	1990
133AJ	352	NE	Unspecified Tanks	1978
134AJ	352	NE	Unspecified Tanks	1990
135AJ	355	NE	Settling Tanks	1956
136AK	361	SW	Unspecified Warehouses	1978
137AK	368	SW	Unspecified Warehouses	1990
138AL	373	W	Ware Mills	1847
139AM	382	E	Sludge Beds	1956
140AM	382	E	Sludge Beds	1978
141AM	382	E	Sludge Beds	1969
142AL	383	W	Unspecified Mills	1891
143AW	384	NE	Coal Works	1847
144DH	386	SW	Refuse Heap	1969
145AN	386	NE	Filter Beds	1990
146AN	386	NE	Filter Beds	1978
147AI	387	W	Unspecified Mills	1990
148AI	387	W	Unspecified Mills	1978
149AO	387	NE	Filter Beds	1990
150AO	387	NE	Filter Beds	1978
151AL	389	W	Unspecified Mill	1969
152AI	393	W	Unspecified Mills	1948
153AI	393	W	Unspecified Mills	1938
154AL	393	W	Unspecified Mills	1932
155	393	NW	Unspecified Yard	1990
156AP	396	SW	Unspecified Heap	1956
157AP	400	SW	Unspecified Heap	1948
158AR	407	E	Unspecified Pit	1948
159AQ	408	NE	Filter Beds	1978
160AQ	408	NE	Filter Beds	1990
161AR	410	E	Unspecified Pit	1938
162AR	410	E	Unspecified Pit	1938
163AR	410	E	Unspecified Pit	1932
164AX	411	N	Tramway Sidings	1948
165	418	SW	Unspecified Works	1990

166AS	418	S	Copper Works	1891
167AV	420	SE	Unspecified Pit	1847
168AT	420	NW	Unspecified Works	1969
169AT	420	NW	Unspecified Works	1978
170DI	421	SW	Unspecified Heap	1948
171DJ	422	SW	Gravel Pit	1956
172AT	422	NW	Sewage Works	1990
173AU	429	E	Filter Beds	1990
174AU	429	E	Filter Beds	1978
175	429	SE	Railway Sidings	1932
176AT	429	NW	Unspecified Commercial/Industrial	1938
177AT	430	NW	Unspecified Commercial/Industrial	1932
178AV	438	SE	Unspecified Pit	1847
179BG	439	NW	Railway Sidings	1891
180DK	442	NW	Colliery	1905
181AW	446	NE	Unspecified Tanks	1990
182AW	446	NE	Unspecified Tanks	1978
183AX	446	N	Railway Sidings	1932
184AW	450	NE	Unspecified Tanks	1956
185CD	452	N	Unspecified Tank	1990
186	459	SE	Iron Works	1847
187AY	459	SE	Sludge Lagoon	1969
188AY	459	SE	Sludge Bed	1978
189AZ	462	E	Unspecified Tanks	1969
190AZ	462	E	Unspecified Tanks	1978
191AZ	462	E	Unspecified Tanks	1990
192BA	473	NW	Disused Colliery	1938
193BA	473	NW	Disused Colliery	1938
194BB	476	NW	Refuse Heap	1938
195BB	476	NW	Refuse Heap	1938
196BB	476	NW	Refuse Heap	1932
197BA	476	NW	Disused Pit Colliery	1932
198BD	477	N	Railway Sidings	1956
199	477	NW	Colliery	1847
200BB	479	NW	Refuse Heap	1948
201	480	N	Pump House	1990
202BC	481	NW	Unspecified Ground Workings	1956
203BC	481	NW	Unspecified Ground Workings	1956
204BD	483	N	Railway Sidings	1978
205BD	483	N	Railway Sidings	1969
206BE	484	NE	Unspecified Pit	1956
207BE	484	NE	Unspecified Pit	1956

208BC	484	NW	Unspecified Ground Workings	1956
209BE	484	NE	Unspecified Pit	1956
210BC	485	NW	Unspecified Pit	1948
211BC	485	NW	Unspecified Pit	1932
212BC	485	NW	Unspecified Pit	1938
213BC	485	NW	Unspecified Pit	1938
214AW	488	NE	Unspecified Pit	1847
215DM	489	SE	Refuse Heap	1990
216BF	493	NW	Rifle Range	1990
217BF	493	NW	Rifle Range	1969
218BF	493	NW	Rifle Range	1978
219BG	494	NW	Disused Colliery	1948

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:

163

ID	Distance (m)	Direction	Use	Date
220A	0	On Site	Unspecified Tank	1963
221BI	0	On Site	Tanks	1997
222BH	0	On Site	Unspecified Tank	1974
223BH	0	On Site	Unspecified Tank	1974
224BH	0	On Site	Unspecified Tank	1974
225BH	0	On Site	Tanks	1974
226	0	On Site	Tanks	1974
227BI	0	On Site	Tanks	1974
228CK	0	On Site	Unspecified Tank	1974
229BH	0	On Site	Tanks	1974
230BH	0	On Site	Unspecified Tank	1974
231E	6	SE	Unspecified Tank	1963
232	19	NW	Tanks	1997
233BJ	20	NW	Tanks	1974
234BJ	21	NW	Tanks	1997
235F	30	SE	Tanks	1963
236F	30	SE	Unspecified Tank	1974
237F	31	SE	Unspecified Tank	1974
238F	31	SE	Unspecified Tank	1995
239F	31	SE	Unspecified Tank	1993
240F	31	SE	Unspecified Tank	1974
241F	32	SE	Unspecified Tank	1995

242F	32	SE	Unspecified Tank	1993
243F	32	SE	Unspecified Tank	1995
244F	32	SE	Unspecified Tank	1993
245BK	33	SE	Tanks	1974
246BK	33	SE	Tanks	1995
247BK	33	SE	Tanks	1993
248BL	37	NE	Unspecified Tank	1963
249G	51	NE	Unspecified Tank	1963
250BM	90	SE	Unspecified Tank	1963
251BM	119	SE	Unspecified Tank	1963
252L	123	E	Unspecified Tank	1963
253BM	136	SE	Unspecified Tank	1974
254BM	137	SE	Unspecified Tank	1995
255BM	137	SE	Unspecified Tank	1993
256BN	155	SW	Tanks	1974
257BN	155	SW	Tanks	1993
258M	168	SE	Unspecified Tank	1995
259M	168	SE	Unspecified Tank	1993
260W	190	N	Tanks	1996
261BO	192	S	Unspecified Tank	1974
262BO	194	S	Unspecified Tank	1993
263Z	215	SE	Unspecified Tank	1974
264Z	215	SE	Unspecified Tank	1995
265Z	215	SE	Unspecified Tank	1993
266S	216	SW	Tanks	1974
267	217	NE	Tanks	1993
268Z	219	SE	Unspecified Tank	1995
269Z	219	SE	Unspecified Tank	1993
270S	219	SW	Tanks	1993
271BO	224	S	Unspecified Tank	1974
272BO	225	S	Unspecified Tank	1967
273BO	225	S	Unspecified Tank	1993
274BP	231	SW	Tanks	1967
275BP	231	SW	Tanks	1974
276AB	232	SE	Unspecified Tank	1993
277AB	233	SE	Unspecified Tank	1974
278BQ	265	E	Humus Tanks	1932
279BR	268	E	Septic Tank	1932
280BQ	270	E	Humus Tanks	1974
281BQ	270	E	Humus Tanks	1951
282BR	272	E	Septic Tank	1951
283BR	275	E	Septic Tank	1974
284BS	279	SW	Tanks	1974
285AD	280	SE	Unspecified Tank	1993
286BS	280	SW	Tanks	1993
287BT	283	SW	Tanks	1974

288BT	284	SW	Tanks	1993
289BU	287	E	Unspecified Tank	1932
290BU	287	E	Unspecified Tank	1951
291BU	287	E	Unspecified Tank	1974
292AG	304	E	Humus Tanks	1932
293BT	305	SW	Unspecified Tank	1974
294AH	306	SW	Unspecified Tank	1993
295BV	309	E	Humus Tanks	1974
296BV	310	E	Humus Tanks	1951
297BY	334	E	Humus Tanks	1932
298AH	334	SW	Unspecified Tank	1974
299AH	336	SW	Unspecified Tank	1993
300BW	337	SW	Unspecified Tank	1974
301BW	337	SW	Unspecified Tank	1993
302AC	339	E	Humus Tanks	1951
303	341	SW	Unspecified Tank	1993
304BX	344	E	Humus Tanks	1932
305BX	347	E	Humus Tanks	1974
306BX	348	E	Humus Tanks	1951
307AJ	348	NE	Settling Tanks	1932
308DB	349	E	Unspecified Tank	1974
309BY	350	E	Humus Tanks	1974
310AJ	350	NE	Sewage Tanks	1921
311BY	352	E	Unspecified Tank	1974
312AJ	353	NE	Settling Tanks	1951
313AJ	355	NE	Settling Tanks	1993
314AJ	355	NE	Settling Tanks	1974
315	363	SW	Unspecified Tank	1993
316BV	364	E	Tanks	1993
317AG	364	E	Humus Tanks	1951
318BV	364	E	Humus Tanks	1988
319AG	368	E	Tanks	1993
320AG	368	E	Humus Tanks	1988
321AH	368	SW	Unspecified Tank	1974
322AH	369	SW	Unspecified Tank	1993
323BY	369	E	Humus Tanks	1951
324BY	371	E	Humus Tanks	1988
325AM	372	E	Tanks	1993
326AM	372	E	Tanks	1994
327	390	E	Humus Tanks	1988
328BZ	393	E	Humus Tanks	1932
329BZ	395	E	Tanks	1993
330BZ	397	E	Humus Tanks	1988
331CA	397	SW	Unspecified Tank	1974
332CA	399	SW	Unspecified Tank	1993
333CA	407	SW	Tanks	1995



334CC	407	SW	Tanks	1974
335CA	409	SW	Tanks	1976
336CA	409	SW	Tanks	1988
337CA	409	SW	Tanks	1995
338CB	409	S	Tanks	1974
339CA	409	SW	Tanks	1992
340CA	409	SW	Tanks	1986
341CB	410	S	Tanks	1993
342CA	411	SW	Tanks	1988
343CA	411	SW	Tanks	1976
344CA	411	SW	Tanks	1992
345CC	413	SW	Tanks	1993
346CD	419	N	Tanks	1996
347CB	431	S	Tanks	1967
348CB	432	S	Unspecified Tank	1993
349CB	432	S	Unspecified Tank	1974
350CB	434	S	Tanks	1974
351AU	438	E	Tanks	1993
352AU	438	E	Tanks	1994
353CE	439	SW	Unspecified Tank	1967
354CE	439	SW	Unspecified Tank	1974
355CE	440	SW	Unspecified Tank	1993
356CF	443	S	Tanks	1993
357CF	444	S	Unspecified Tank	1974
358CD	447	N	Unspecified Tank	1984
359CG	455	SW	Unspecified Tank	1974
360CH	456	S	Tanks	1932
361CG	456	SW	Unspecified Tank	1967
362CG	456	SW	Unspecified Tank	1993
363AZ	459	E	Humus Tanks	1932
364AZ	460	E	Humus Tanks	1951
365AZ	461	E	Humus Tanks	1988
366AZ	462	E	Tanks	1993
367AX	462	N	Unspecified Tank	1993
368CH	467	S	Tanks	1993
369CH	469	S	Tanks	1967
370CI	469	S	Unspecified Tank	1974
371CI	470	S	Unspecified Tank	1993
372CH	470	S	Tanks	1974
373CH	474	S	Unspecified Tank	1951
374CI	477	S	Unspecified Tank	1974
375CI	477	S	Unspecified Tank	1993
376CJ	492	SW	Unspecified Tank	1967
377CJ	493	SW	Tanks	1974
378CJ	494	SW	Tanks	1993
379	494	SW	Tanks	1993

380AX	495	N	Detritus Tanks	1932
381AX	498	N	Detritus Tanks	1951
382AX	498	N	Detritus Tank	1974

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:

50

ID	Distance (m)	Direction	Use	Date
383	0	On Site	Electricity Transformer Station	1997
384	0	On Site	Power Station	1974
385BI	0	On Site	Electricity Substation	1997
386E	0	On Site	Power Station	1993
387CP	0	On Site	Power Station	1967
388CK	0	On Site	Power Station	1951
389CL	0	On Site	Power Station	1974
390E	0	On Site	Power Station	1995
391	7	NW	Electricity Substation	1997
392CM	10	NW	Electricity Substation	1951
393CM	14	NW	Electricity Substation	1997
394CN	15	SE	Power Station	1993
395CN	16	SE	Power Station	1974
396	16	SE	Electricity Substation	1997
397CO	17	S	Electricity Substation	1997
398CO	18	S	Electricity Substation	1974
399CP	82	SE	Power Station	1993
400CQ	127	N	Power Station	1996
401CQ	127	N	Power Station	1974
402CQ	127	N	Power Station	1984
403CQ	142	NE	Power Station	1974
404CQ	142	NE	Power Station	1993
405CR	157	SW	Electricity Substation	1967
406CR	158	SW	Electricity Substation	1951
407CR	167	SW	Electricity Substation	1974
408CR	168	SW	Electricity Substation	1993
409CP	181	SE	Power Station	1974
410CS	236	S	Electricity Substation	1967
411CS	241	S	Electricity Substation	1951
412CT	245	SW	Electricity Substation	1974
413CT	246	SW	Electricity Substation	1993
414CT	248	SW	Electricity Substation	1951

415CT	248	SW	Electricity Substation	1967
416BT	270	SW	Electricity Substation	1974
417BT	270	SW	Electricity Substation	1967
418BT	271	SW	Electricity Substation	1993
419CU	292	SW	Electricity Substation	1967
420CU	306	SW	Electricity Substation	1951
421CU	315	SW	Electricity Substation	1974
422CU	315	SW	Electricity Substation	1993
423CV	320	S	Electricity Substation	1974
424CV	320	S	Electricity Substation	1993
425CB	415	S	Electricity Substation	1974
426CB	415	S	Electricity Substation	1993
427CB	417	S	Electricity Substation	1967
428CW	480	W	Electricity Substation	1999
429CW	480	W	Electricity Substation	1993
430CW	480	W	Electricity Substation	1993
431CX	497	S	Electricity Substation	1993
432CX	499	S	Electricity Substation	1974

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: 0

Database searched and no data found.

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 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 95

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

ID	Distance(m)	Direction	Use	Date
433C	0	On Site	Sewage Works	1938

434CL	0	On Site	Unspecified Heap	1990
435C	0	On Site	Sewage Works	1938
436I	106	NE	Refuse Heap	1938
437I	106	NE	Refuse Heap	1938
438I	109	NE	Refuse Heap	1948
439CY	126	SW	Unspecified Heap	1948
440CZ	129	NE	Sewage Works	1948
441M	137	SE	Unspecified Heap	1938
442M	137	SE	Unspecified Heap	1938
443M	138	SE	Unspecified Heaps	1948
444V	144	NW	Sewage Works	1990
445W	171	NW	Sewage Works	1978
446R	176	NE	Sewage Works	1990
447R	176	NE	Sewage Works	1978
448R	176	NE	Sewage Works	1956
449CT	179	SW	Refuse Heap	1938
450CT	179	SW	Refuse Heap	1938
451CZ	185	NE	Filter Beds	1956
452T	187	NE	Filter Beds	1990
453T	187	NE	Filter Beds	1978
454U	188	NE	Filter Beds	1978
455U	188	NE	Filter Beds	1990
456W	190	N	Filter Beds	1978
457DA	207	NW	Filter Beds	1990
458X	212	NE	Filter Beds	1990
459X	212	NE	Filter Beds	1978
460AA	233	NE	Unspecified Pit	1938
461AA	233	NE	Unspecified Pit	1938
462AA	242	N	Unspecified Pit	1948
463BT	263	SW	Pond	1956
464BT	268	SW	Pond	1938
465BT	269	SW	Pond	1948
466DB	270	E	Ponds	1969
467DC	303	NW	Unspecified Ground Workings	1969
468AF	304	S	Unspecified Ground Workings	1938
469AF	304	S	Unspecified Ground Workings	1938
470AF	312	S	Unspecified Heaps	1948
471AH	321	SW	Unspecified Heap	1948
472AH	325	SW	Unspecified Heap	1938
473AH	325	SW	Unspecified Heap	1938
474DD	331	W	Refuse Heap	1969
475DE	350	S	Unspecified Heap	1956
476	351	NE	Pond	1969
477DF	351	SE	Sludge Beds	1990



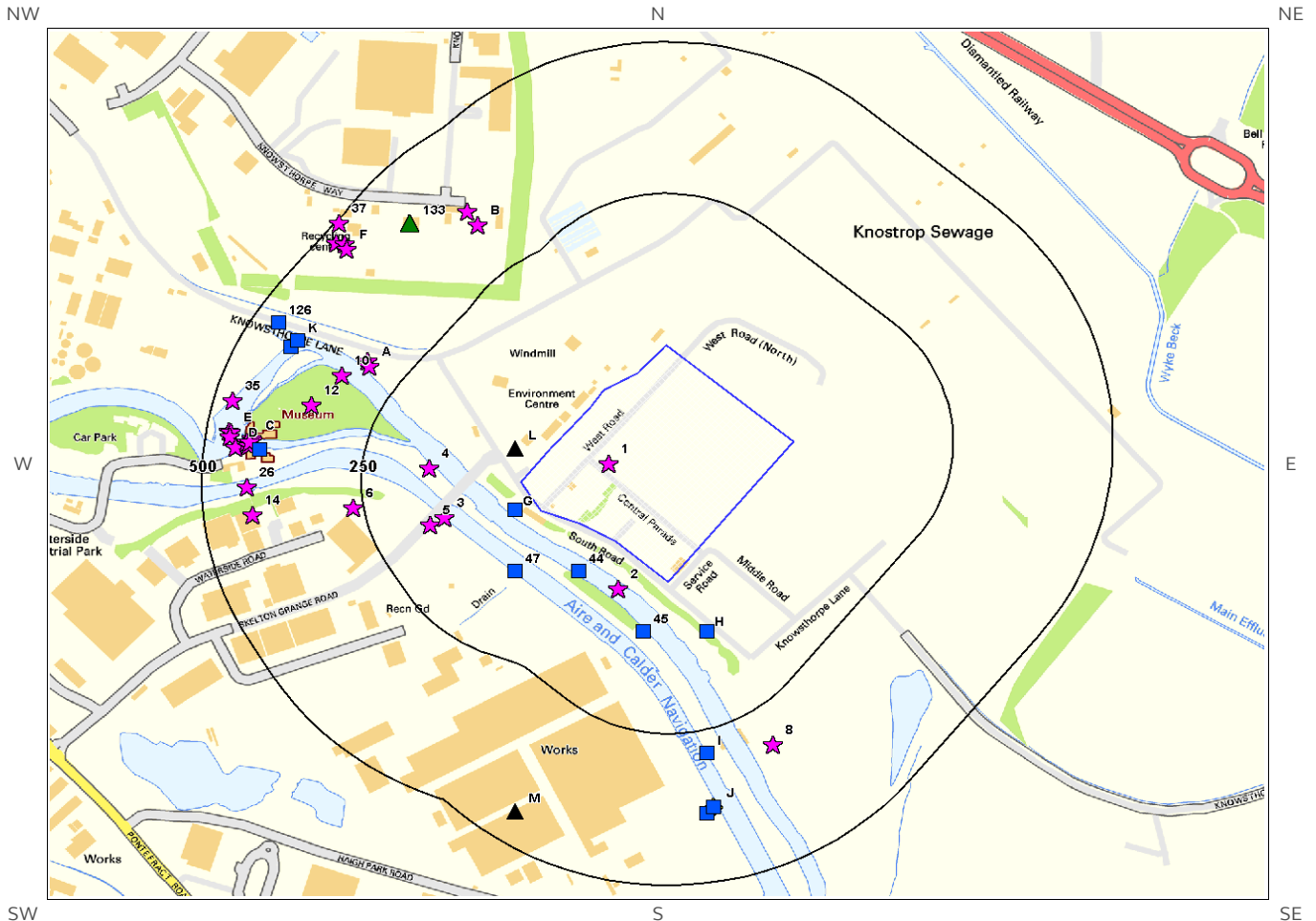
478AJ	355	NE	Settling Tanks	1956
479CJ	358	SW	Water Body	1948
480CJ	358	SW	Pond	1956
481BY	359	E	Ponds	1969
482	360	SW	Water Body	1938
483DG	365	SE	Pond	1969
484DG	365	SE	Pond	1990
485DG	365	SE	Pond	1978
486AM	382	E	Sludge Beds	1978
487AM	382	E	Sludge Beds	1956
488AM	382	E	Sludge Beds	1969
489DH	386	SW	Refuse Heap	1969
490AN	386	NE	Filter Beds	1978
491AN	386	NE	Filter Beds	1990
492AO	387	NE	Filter Beds	1978
493AO	387	NE	Filter Beds	1990
494	392	NW	Water Body	1956
495AP	396	SW	Unspecified Heap	1956
496AP	400	SW	Unspecified Heap	1948
497AR	407	E	Unspecified Pit	1948
498AQ	408	NE	Filter Beds	1978
499AQ	408	NE	Filter Beds	1990
500	409	NE	Pond	1969
501AR	410	E	Unspecified Pit	1938
502AR	410	E	Unspecified Pit	1938
503DI	421	SW	Unspecified Heap	1948
504DJ	422	SW	Gravel Pit	1956
505AT	422	NW	Sewage Works	1990
506AU	429	E	Filter Beds	1978
507AU	429	E	Filter Beds	1990
508DK	442	NW	Colliery	1905
509	443	NW	Water Body	1956
510DL	443	NE	Pond	1969
511DL	448	NE	Pond	1969
512AY	459	SE	Sludge Lagoon	1969
513AY	459	SE	Sludge Bed	1978
514BA	473	NW	Disused Colliery	1938
515BA	473	NW	Disused Colliery	1938
516AW	476	NE	Pond	1969
517BB	476	NW	Refuse Heap	1938
518BB	476	NW	Refuse Heap	1938
519BB	479	NW	Refuse Heap	1948
520AW	482	NE	Pond	1969
521BC	484	NW	Unspecified Ground Workings	1956
522BE	484	NE	Unspecified Pit	1956




















523BC	485	NW	Unspecified Pit	1948
524BC	485	NW	Unspecified Pit	1938
525BC	485	NW	Unspecified Pit	1938
526DM	489	SE	Refuse Heap	1990
527BG	494	NW	Disused Colliery	1948



2. Environmental Permits, Incidents and Registers Map



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- | | | | | | |
|---|-------------------------------|---|---|---|--|
|  | Site Outline |  | Recorded Pollution Incident |  | RAS 3 & 4 Authorisations |
|  | Dangerous Substances (List 1) |  | Dangerous Substances (List 2) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |
|  | Dangerous Substances (List 2) |  |  | Water Industry Referrals | Part A(2) and Part B Authorised Processes |
|  | Search Buffers (m) |  |  | Licenced Discharge Consents | COMAH / NIHHS Sites |
|  | 250 |  |  | Red List Discharge Consents | Sites Determined as Contaminated Land |
| | 500 |  |  | | Hazardous Substance Consents and Enforcements |

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:

3

The following IPC Authorisations are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
137L	42	NW	433200 431200	Operator: Rwe Npower Plc Address: Skelton Grange, Leeds, West Yorkshire, LS10 1RS Process: Combustion Processes	Permit Number: AA2453 Original Permit Number: IPCAIRAPP Date Approved: 8-4-1993 Effective Date: 8-4-1993 Status: Superseded By Variation
138L	42	NW	433200 431200	Operator: Rwe Npower Plc Address: Skelton Grange, Leeds, West Yorkshire, LS10 1RS Process: Combustion Processes	Permit Number: AN1408 Original Permit Number: IPCMINVAR Date Approved: 27-5-1994 Effective Date: 1-6-1994 Status: Revoked
139L	42	NW	433200 431200	Operator: Rwe Npower Plc Address: Skelton Grange, Leeds, West Yorkshire, LS10 1RS Process: Combustion Processes	Permit Number: AK1223 Original Permit Number: IPCMINVAR Date Approved: 5-10-1993 Effective Date: 5-10-1993 Status: Superseded By Variation

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

3

The following Part A(1) and IPPC Authorised Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
134M	450	SW	433200 430600	Operator: Leeds Bio Fuels Limited Installation Name: Haigh Park Bio Plant Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS	Permit Number: TP3635MZ Original Permit Number: TP3635MZ EPR Reference: - Issue Date: 11/1/2007 Effective Date: 11/1/2007 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
135M	450	SW	433200 430600	Operator: Leeds Bio Fuels Limited Installation Name: Haigh Park Bio Plant Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS	Permit Number: UP3936UX Original Permit Number: TP3635MZ EPR Reference: - Issue Date: 16/10/2007 Effective Date: 16/10/2007 00:00:00 Last date noted as effective: 2018-03-01 Status: Superseded
136M	450	SW	433200 430600	Operator: Leeds Bio Fuels Limited Installation Name: Haigh Park Bio Plant Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS	Permit Number: NP3539XP Original Permit Number: TP3635MZ EPR Reference: - Issue Date: 15/1/2008 Effective Date: 15/9/2010 00:00:00 Last date noted as effective: 2018-03-01 Status: Revoked

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

3

The following Red List Discharge Consent records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
39G	34	SW	433200 431100	Address: NATIONAL GRID CO.PLC, SKELTON GRANGE SUB STATION:- OUTLET, A, STOURTON Permit Number: WRA7145 Permit Version: 1 Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)	Discharge Type: Undefined or Other Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Catchment: AIRE AND TRIBS Approval Date: 28-Apr-1995
40G	34	SW	433200 431100	Address: NATIONAL GRID CO.PLC, SKELTON GRANGE SUB STATION:- OUTLET, A, STOURTON Permit Number: WRA7145 Permit Version: 1 Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)	Discharge Type: Undefined or Other Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Catchment: AIRE AND TRIBS Approval Date: 28-Apr-1995

ID	Distance (m)	Direction	NGR	Details	
41H	101	SE	433500 430900	Address: NATIONAL GRID CO.PLC, SKELTON GRANGE SUB STATION:- OUTLET, B,STOURTON Permit Number: 7146 Permit Version: 1 Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)	Discharge Type: Undefined or Other Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Catchment: AIRE AND TRIBS Approval Date: 28-Apr-1995

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:

1

The following List 2 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
38J	378	S	433510 430610	Name: Imi Yorkshire Imperial Ltd; Outlet 5 Status: Not Active Receiving Water: River Aire	Authorised Substances: Chromium, Copper

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

1

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
133	408	NW	433035 431570	Address: Skelton Ltd, Site 46 Knowsthorpe Way, Cross Green Industrial Estate, Leeds, LS9 0SW Process: Mineral Activities Status: Mothballed Permit Type: Part B	Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified

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:

85

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

ID	Distance (m)	Direction	NGR	Details
42G	34	SW	433200 431100	Address: SKELTON GRANGE SUB STATION:- OUTLET, A, STOURTON Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: WRA7145 Permit Version: 1 Receiving Water: RIVER AIRE Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/04/1995 Effective Date: 28-Apr-1995 Revocation Date: 12/08/2004
43G	34	SW	433200 431100	Address: SKELTON GRANGE SUB STATION:- OUTLET, A, STOURTON Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7145 Permit Version: 1 Receiving Water: RIVER AIRE Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/04/1995 Effective Date: 28-Apr-1995 Revocation Date: 12/08/2004
44	70	SW	433300 431000	Address: SKELTON GRANGE POWER STATION, SITE, DRAINAGE (CON WRA7191) Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: WRA7191 Permit Version: 1 Receiving Water: RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/12/1995 Effective Date: 19-Dec-1995 Revocation Date: -
45	90	SW	433400 430900	Address: SKELTON GRANGE POWER STATION, SITE, DRAINAGE (CON WRA7191) Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: WRA7191 Permit Version: 1 Receiving Water: RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/12/1995 Effective Date: 19-Dec-1995 Revocation Date: -
46H	101	SE	433500 430900	Address: SKELTON GRANGE SUB STATION:- OUTLET, B,STOURTON Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: 7146 Permit Version: 1 Receiving Water: RIVER AIRE Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/04/1995 Effective Date: 28-Apr-1995 Revocation Date: 14/06/2004
47	107	S	433200 431000	Address: SKELTON GRANGE POWER STATION, SITE, DRAINAGE (CON WRA7191) Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: WRA7191 Permit Version: 1 Receiving Water: RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/12/1995 Effective Date: 19-Dec-1995 Revocation Date: -
48I	288	S	433500 430700	Address: SKELTON GRANGE POWER STATION, LEEDS Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: C4676 Permit Version: 1 Receiving Water: R.AIRE Status: REVOKED - UNSPECIFIED Issue date: 25/06/1987 Effective Date: 25-Jun-1987 Revocation Date: 16/06/1993

ID	Distance (m)	Direction	NGR	Details	
49I	288	S	433500 430700	Address: SKELTON GRANGE POWER STATION, SITE, DRAINAGE (CON WRA7191) Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: WRA7191 Permit Version: 1	Receiving Water: RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/12/1995 Effective Date: 19-Dec-1995 Revocation Date: -
50J	378	S	433510 430610	Address: IMI YORKSHIRE FITTINGS LTD, HAIGH PARK ROAD, STOURTON, LEEDS, LS1 1RD Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: WRA7225/1 Permit Version: 1	Receiving Water: STOURTON BECK Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/08/1996 Effective Date: 27-Aug-1996 Revocation Date: 18/08/1998
51J	378	S	433510 430610	Address: IMI YORKSHIRE FITTINGS LTD, HAIGH PARK ROAD, STOURTON, LEEDS, LS1 1RD Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: WRA7225 Permit Version: 1	Receiving Water: STOURTON BECK Status: REVOKED - UNSPECIFIED Issue date: 27/08/1996 Effective Date: 27-Aug-1996 Revocation Date: 18/08/1998
52J	378	S	433510 430610	Address: SKELTON GRANGE POWER STATION, LEEDS Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: E125 Permit Version: 2	Receiving Water: AIRE + CALDER NAVIGATION Status: REVISED CONSENT, BY NOTICE (SECTION 37(1)) Issue date: 01/01/1994 Effective Date: 01-Jan-1994 Revocation Date: 31/12/1994
53J	386	S	433500 430600	Address: SKELTON GRANGE POWER STATION, LEEDS Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: C4675 Permit Version: 1	Receiving Water: - Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 01/08/1987 Effective Date: 01-Aug-1987 Revocation Date: 01/10/1996
54J	386	S	433500 430600	Address: SKELTON GRANGE POWER STATION, LEEDS Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: E125 Permit Version: 2	Receiving Water: AIRE + CALDER NAVIGATION Status: REVISED CONSENT, BY NOTICE (SECTION 37(1)) Issue date: 01/01/1994 Effective Date: 01-Jan-1994 Revocation Date: 31/12/1994
55C	413	W	432800 431200	Address: THWAITE MILL, STOURTON, LEEDS Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA7284 Permit Version: 1	Receiving Water: RIVER AIRE Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/01/1997 Effective Date: 28-Jan-1997 Revocation Date: -
56K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 16	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2008 Effective Date: 31-Mar-2008 Revocation Date: 31/03/2009
57K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 17	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Apr-2009 Revocation Date: 23/03/2010

ID	Distance (m)	Direction	NGR	Details	
58K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 14	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 22-Oct-2007 Revocation Date: 17/02/2008
59K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 18	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/03/2010 Effective Date: 24-Mar-2010 Revocation Date: 30/03/2010
60K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 14	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 22-Oct-2007 Revocation Date: 17/02/2008
61K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 7	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 30-Nov-2000 Revocation Date: 31/12/2000
62K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 12	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 01-Jan-2001 Revocation Date: 13/10/2002
63K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 6	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 01-Jul-2000 Revocation Date: 29/11/2000
64K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 16	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2008 Effective Date: 31-Mar-2008 Revocation Date: 31/03/2009
65K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 16	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2008 Effective Date: 31-Mar-2008 Revocation Date: 31/03/2009

ID	Distance (m)	Direction	NGR	Details	
66K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 14	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 22-Oct-2007 Revocation Date: 17/02/2008
67K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 10	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 01-Jan-2003 Revocation Date: 05/01/2006
68K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 14	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 22-Oct-2007 Revocation Date: 17/02/2008
69K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 7	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 30-Nov-2000 Revocation Date: 31/12/2000
70K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 16	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2008 Effective Date: 31-Mar-2008 Revocation Date: 31/03/2009
71K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 7	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 30-Nov-2000 Revocation Date: 31/12/2000
72K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 11	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 18/03/2005 Effective Date: 31-Mar-2010 Revocation Date: -
73K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 5	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 11-May-2000 Revocation Date: 30/06/2000

ID	Distance (m)	Direction	NGR	Details	
74K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 15	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 18-Feb-2008 Revocation Date: 30/03/2008
75K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 10	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 01-Jan-2003 Revocation Date: 05/01/2006
76K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 9	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 14-Oct-2002 Revocation Date: 31/12/2002
77K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 9	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 14-Oct-2002 Revocation Date: 31/12/2002
78K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 18	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/03/2010 Effective Date: 24-Mar-2010 Revocation Date: 30/03/2010
79K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 10	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 01-Jan-2003 Revocation Date: 05/01/2006
80K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 18	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/03/2010 Effective Date: 24-Mar-2010 Revocation Date: 30/03/2010
81K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 6	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 01-Jul-2000 Revocation Date: 29/11/2000

ID	Distance (m)	Direction	NGR	Details	
82K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 13	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 06/01/2006 Effective Date: 06-Jan-2006 Revocation Date: 21/10/2007
83K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 12	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 01-Jan-2001 Revocation Date: 13/10/2002
84K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 12	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 01-Jan-2001 Revocation Date: 13/10/2002
85K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 11	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 18/03/2005 Effective Date: 31-Mar-2010 Revocation Date: -
86K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 9	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 14-Oct-2002 Revocation Date: 31/12/2002
87K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 18	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/03/2010 Effective Date: 24-Mar-2010 Revocation Date: 30/03/2010
88K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 10	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 01-Jan-2003 Revocation Date: 05/01/2006
89K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 13	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 06/01/2006 Effective Date: 06-Jan-2006 Revocation Date: 21/10/2007

ID	Distance (m)	Direction	NGR	Details	
90K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 13	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 06/01/2006 Effective Date: 06-Jan-2006 Revocation Date: 21/10/2007
91K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 15	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 18-Feb-2008 Revocation Date: 30/03/2008
92K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 13	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 06/01/2006 Effective Date: 06-Jan-2006 Revocation Date: 21/10/2007
93K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 5	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 11-May-2000 Revocation Date: 30/06/2000
94K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 5	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 11-May-2000 Revocation Date: 30/06/2000
95K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 12	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 01-Jan-2001 Revocation Date: 13/10/2002
96K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 7	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/11/2000 Effective Date: 30-Nov-2000 Revocation Date: 31/12/2000
97K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 6	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 01-Jul-2000 Revocation Date: 29/11/2000

ID	Distance (m)	Direction	NGR	Details	
98K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 6	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 01-Jul-2000 Revocation Date: 29/11/2000
99K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 11	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 18/03/2005 Effective Date: 31-Mar-2010 Revocation Date: -
100K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 5	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 11/05/2000 Effective Date: 11-May-2000 Revocation Date: 30/06/2000
101K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 11	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 18/03/2005 Effective Date: 31-Mar-2010 Revocation Date: -
102K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 15	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 18-Feb-2008 Revocation Date: 30/03/2008
103K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 15	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 13/09/2007 Effective Date: 18-Feb-2008 Revocation Date: 30/03/2008
104K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 9	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2002 Effective Date: 14-Oct-2002 Revocation Date: 31/12/2002
105K	421	NW	432860 431380	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 17	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Apr-2009 Revocation Date: 23/03/2010

ID	Distance (m)	Direction	NGR	Details	
106K	421	NW	432860 431380	Address: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 17	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Apr-2009 Revocation Date: 23/03/2010
107K	421	NW	432860 431380	Address: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 17	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01-Apr-2009 Revocation Date: 23/03/2010
108K	424	NW	432850 431370	Address: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 3	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 31-Dec-1995 Revocation Date: 13/02/1996
109K	424	NW	432850 431370	Address: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 3	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 31-Dec-1995 Revocation Date: 13/02/1996
110K	424	NW	432850 431370	Address: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 8	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 27/02/1998 Effective Date: 27-Feb-1998 Revocation Date: 10/05/2000
111K	424	NW	432850 431370	Address: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 8	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 27/02/1998 Effective Date: 27-Feb-1998 Revocation Date: 10/05/2000
112K	424	NW	432850 431370	Address: KNOTSTROP HIGH LEVEL WORKS -STORM OV, ERFLOW Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 1	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 16-Jul-1993 Revocation Date: 30/12/1995
113K	424	NW	432850 431370	Address: KNOTSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 3	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 31-Dec-1995 Revocation Date: 13/02/1996

ID	Distance (m)	Direction	NGR	Details	
114K	424	NW	432850 431370	Address: KNOSTROP HIGH LEVEL WORKS -STORM OV, ERFLOW Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 1	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 16-Jul-1993 Revocation Date: 30/12/1995
115K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 8	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 27/02/1998 Effective Date: 27-Feb-1998 Revocation Date: 10/05/2000
116K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 4	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/02/1996 Effective Date: 14-Feb-1996 Revocation Date: 26/02/1998
117K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: E20 Permit Version: 2	Receiving Water: - Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/01/1986 Effective Date: 15-Jan-1986 Revocation Date: 31/08/1989
118K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: E20 Permit Version: 1	Receiving Water: - Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 01/01/1982 Effective Date: 01-Jan-1982 Revocation Date: 14/01/1986
119K	424	NW	432850 431370	Address: KNOSTROP HIGH LEVEL WORKS -STORM OV, ERFLOW Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 1	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 16-Jul-1993 Revocation Date: 30/12/1995
120K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 4	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/02/1996 Effective Date: 14-Feb-1996 Revocation Date: 26/02/1998
121K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 8	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 27/02/1998 Effective Date: 27-Feb-1998 Revocation Date: 10/05/2000

ID	Distance (m)	Direction	NGR	Details	
122K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WRA6924 Permit Version: 4	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/02/1996 Effective Date: 14-Feb-1996 Revocation Date: 26/02/1998
123K	424	NW	432850 431370	Address: KNOSTROP HIGH LEVEL WORKS -STORM OV, ERFLOW Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 1	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 16-Jul-1993 Revocation Date: 30/12/1995
124K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 4	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/02/1996 Effective Date: 14-Feb-1996 Revocation Date: 26/02/1998
125K	424	NW	432850 431370	Address: KNOSTROP WWTW, KNOWSTHORPE LANE, LEEDS, WEST YORKSHIRE Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: WRA6924 Permit Version: 3	Receiving Water: WYKE BECK AND THE RIVER AIRE Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1993 Effective Date: 31-Dec-1995 Revocation Date: 13/02/1996
126	462	NW	432830 431410	Address: KUWAIT PETROLEUM INT LUBRICANTS UK, KNOWSTHORPE GATE, CROSS GREEN INDUSTRIAL ESTATE, LEEDS, WEST YORKSHIRE Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: WRA7916 Permit Version: 1	Receiving Water: RIVER AIRE Status: SURRENDERED UNDER EPR 2010 Issue date: 30/10/2002 Effective Date: 30-Oct-2002 Revocation Date: 04/04/2017

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:

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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	0	On Site	433345 431177	Incident Date: 12-Mar-2003 Incident Identification: 142632 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
2	59	SW	433360 430970	Incident Date: 26-Mar-2002 Incident Identification: 66751 Pollutant: Oils and Fuel Pollutant Description: Lubricating Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	135	SW	433089 431088	Incident Date: 02-Nov-2003 Incident Identification: 199399 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	147	W	433065 431169	Incident Date: 08-Feb-2002 Incident Identification: 57224 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
5	161	SW	433066 431076	Incident Date: 28-Aug-2002 Incident Identification: 103486 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
6	268	W	432946 431104	Incident Date: 22-Feb-2002 Incident Identification: 59919 Pollutant: Specific Waste Materials Pollutant Description: Other Non-Metal Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
7A	305	NW	432972 431337	Incident Date: 06-Nov-2003 Incident Identification: 200131 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8	313	SE	433603 430714	Incident Date: 25-Mar-2002 Incident Identification: 66532 Pollutant: Specific Waste Materials Pollutant Description: Vehicles and Vehicle Parts	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Distance (m)	Direction	NGR	Details	
9A	313	NW	432968 431346	Incident Date: 06-Mar-2003 Incident Identification: 141496 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
10	332	NW	432928 431323	Incident Date: 23-Oct-2010 Incident Identification: 832979 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11B	337	NW	433140 431570	Incident Date: 12-Jun-2003 Incident Identification: 165156 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
12	353	W	432880 431273	Incident Date: 16-Oct-2002 Incident Identification: 114989 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
13B	364	NW	433125 431593	Incident Date: 03-Sep-2003 Incident Identification: 187162 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
14	426	W	432788 431092	Incident Date: 11-Nov-2002 Incident Identification: 119933 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
15C	428	W	432788 431215	Incident Date: 18-Mar-2003 Incident Identification: 143984 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
16C	429	W	432787 431218	Incident Date: 14-Jun-2003 Incident Identification: 165729 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
17C	431	W	432784 431212	Incident Date: 17-Apr-2002 Incident Identification: 72301 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
18C	431	W	432784 431212	Incident Date: 22-Oct-2001 Incident Identification: 38407 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
19C	431	W	432784 431212	Incident Date: 14-Apr-2002 Incident Identification: 71418 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
20C	431	W	432784 431212	Incident Date: 02-Oct-2002 Incident Identification: 111966 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
21C	431	W	432784 431212	Incident Date: 26-Nov-2001 Incident Identification: 44861 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Distance (m)	Direction	NGR	Details	
22C	431	W	432784 431212	Incident Date: 31-May-2002 Incident Identification: 82423 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
23C	431	W	432784 431212	Incident Date: 24-Jul-2003 Incident Identification: 176197 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
24C	431	W	432784 431212	Incident Date: 21-Mar-2003 Incident Identification: 144994 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
25C	431	W	432784 431212	Incident Date: 07-Dec-2001 Incident Identification: 47102 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
26	431	W	432779 431138	Incident Date: 26-Oct-2003 Incident Identification: 198202 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
27C	432	W	432782 431207	Incident Date: 15-Jun-2003 Incident Identification: 165929 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
28C	435	W	432780 431213	Incident Date: 18-Oct-2002 Incident Identification: 115436 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
29D	452	W	432762 431204	Incident Date: 05-Oct-2001 Incident Identification: 34791 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
30F	459	NW	432936 431531	Incident Date: 17-Apr-2003 Incident Identification: 151930 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
31D	463	W	432753 431222	Incident Date: 13-May-2002 Incident Identification: 78346 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
32E	463	W	432754 431229	Incident Date: 26-Sep-2001 Incident Identification: 32997 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
33E	466	W	432752 431231	Incident Date: 26-May-2002 Incident Identification: 81170 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Distance (m)	Direction	NGR	Details	
34F	467	NW	432933 431540	Incident Date: 24-Apr-2003 Incident Identification: 153495 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
35	472	W	432758 431281	Incident Date: 21-Nov-2002 Incident Identification: 122280 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
36F	477	NW	432920 431541	Incident Date: 14-May-2003 Incident Identification: 158344 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
37	496	NW	432924 431574	Incident Date: 28-Aug-2003 Incident Identification: 185817 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

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

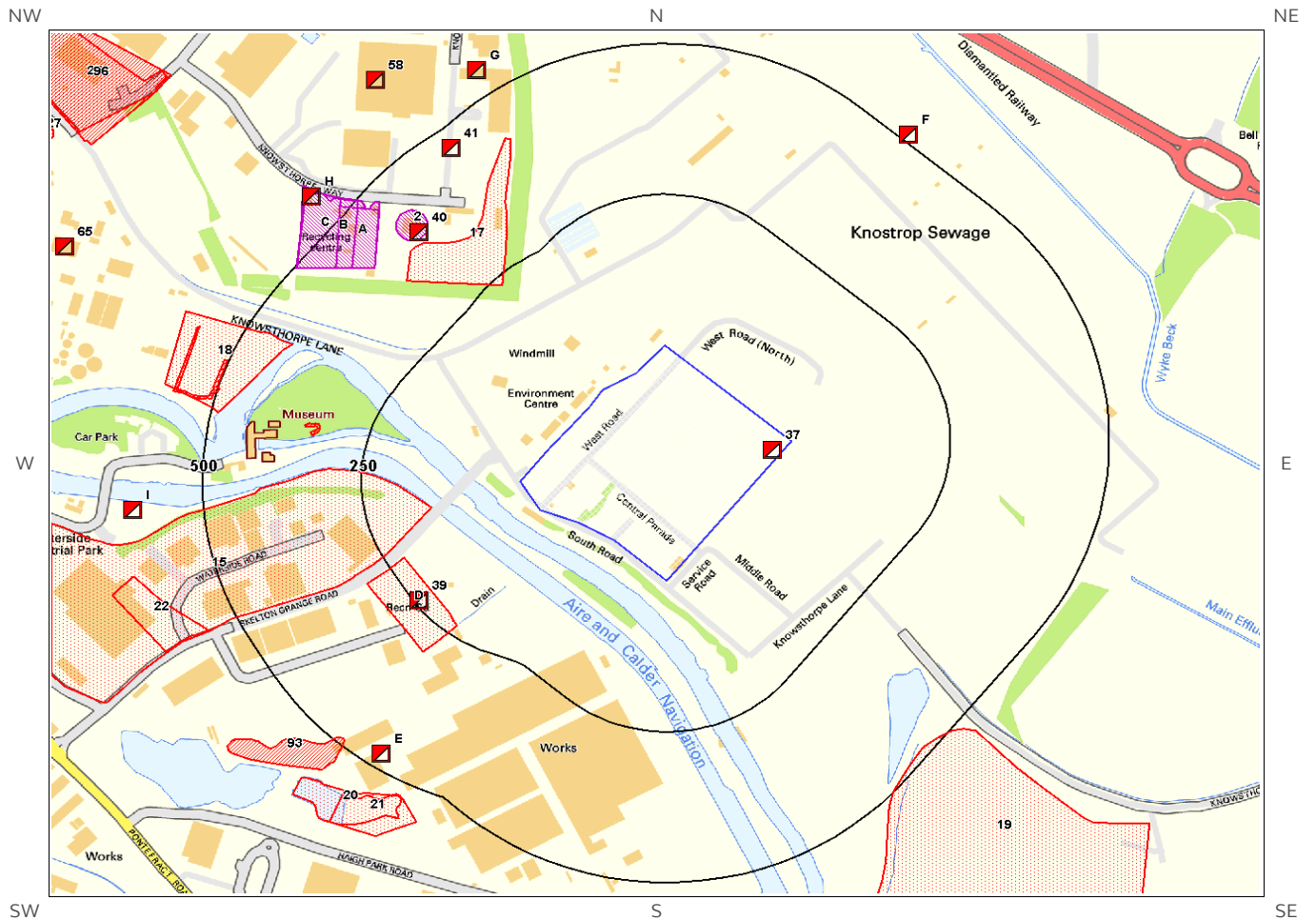
Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site

0










Database searched and no data found.



3. Landfill and Other Waste Sites Map



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-  Site Outline
-  EA/NRW Active Landfill
-  EA/NRW Historic Landfill
-  BGS / DoE Survey Landfill
-  Historic and Planned Waste Sites
-  EA/NRW Licensed Waste Site
-  Local Authority/Historical Mapping Landfill Records
-  250 Search Buffers (m)
-  500 Search Buffers (m)

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:

22

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
15	146	W	432700 430900	Site Address: Thwaite Farm, Skelton Grange Road, Stourton, Leeds Waste Licence: Yes Site Reference: 1439, 24, 4700/0027, 199 Waste Type: Inert, Commercial, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-Jun-1977 Licence Surrendered: 25-May-1993 Licence Holder Address: Stourton, Leeds Operator: - Licence Holder: Concrete Northern Limited First Recorded: 01-Jan-1960 Last Recorded: 07-Aug-1990
16D	218	SW	433000 430900	Site Address: Yorkshire Imperial Metals, Haigh Park Road, Stourton, Leeds, West Yorkshire Waste Licence: Yes Site Reference: 24, NE4585 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: YQ1/L/IMI002	Licence Issue: 13-Mar-1977 Licence Surrendered: 27-Sep-2002 Licence Holder Address: Watton Estate Management Services, PO Box 216, Witton, Birmingham Operator: - Licence Holder: IMI Yorkshire Alloys Limited First Recorded: - Last Recorded: -
17	235	NW	433100 431500	Site Address: Knowsthorpe Way, Knowsthorpe Road, Cross Green, Leeds Waste Licence: Yes Site Reference: 4700/L1025, NE4586 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: YQ1/L/LEE012	Licence Issue: 26-Feb-1992 Licence Surrendered: 09-Nov-2000 Licence Holder Address: - Operator: - Licence Holder: Leeds City Council First Recorded: - Last Recorded: -

ID	Distance (m)	Direction	NGR	Details	
18	425	NW	432700 431300	<p>Site Address: Land At Knostrop Sewage Works, Knowsthorpe Lane, Leeds</p> <p>Waste Licence: Yes</p> <p>Site Reference: 1439, 4700/0769</p> <p>Waste Type: Inert, Commercial</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p>	<p>Licence Issue: 14-Nov-1989</p> <p>Licence Surrendered: 05-Feb-1992</p> <p>Licence Holder Address: Albert Road, Morley, Leeds</p> <p>Operator: -</p> <p>Licence Holder: Mone Brothers Civil Engineering Limited</p> <p>First Recorded: 01-Dec-1989</p> <p>Last Recorded: 10-Apr-1990</p>
19	486	SE	433900 430400	<p>Site Address: No.1 Lagoon, Knostrop STW, Leeds</p> <p>Waste Licence: Yes</p> <p>Site Reference: 652</p> <p>Waste Type: Inert, Industrial, Liquid sludge</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p>	<p>Licence Issue: 22-Mar-1988</p> <p>Licence Surrendered:</p> <p>Licence Holder Address: -</p> <p>Operator: -</p> <p>Licence Holder: Yorkshire Water Services Limited</p> <p>First Recorded: 31-Dec-1930</p> <p>Last Recorded: -</p>
20	523	SW	432900 430600	<p>Site Address: Small lagoon, Land at Haigh Park Road, Stourton, Leeds</p> <p>Waste Licence: Yes</p> <p>Site Reference: 4700/0670</p> <p>Waste Type: Inert, Commercial</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p>	<p>Licence Issue: 01-Aug-1988</p> <p>Licence Surrendered: 31-Jan-1991</p> <p>Licence Holder Address: PO Box 166, Leeds</p> <p>Operator: -</p> <p>Licence Holder: YIP Limited</p> <p>First Recorded: -</p> <p>Last Recorded: -</p>
21	524	SW	432900 430500	<p>Site Address: Small Lagoon, Haigh Park Road, Stourton, Leeds</p> <p>Waste Licence: Yes</p> <p>Site Reference: 4700/0740</p> <p>Waste Type: Inert, Commercial</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p>	<p>Licence Issue: 19-Oct-1989</p> <p>Licence Surrendered: 05-Feb-1992</p> <p>Licence Holder Address: PO Box 166, Leeds</p> <p>Operator: -</p> <p>Licence Holder: YIP Limited Trading as Uponor Limited</p> <p>First Recorded: 31-Dec-1989</p> <p>Last Recorded: 30-Jun-1990</p>
22	549	SW	432600 430900	<p>Site Address: Thwaite Farm, Stourton, Leeds</p> <p>Waste Licence: Yes</p> <p>Site Reference: 4700/0199</p> <p>Waste Type: -</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p>	<p>Licence Issue: 26-Feb-1980</p> <p>Licence Surrendered:</p> <p>Licence Holder Address: Stourton, Leeds</p> <p>Operator: -</p> <p>Licence Holder: Bison Concrete Limited Central Division</p> <p>First Recorded: -</p> <p>Last Recorded: -</p>
Not shown	737	S	433300 430200	<p>Site Address: IMI Yorkshire Alloys Limited, Haigh Park Road, Stourton, Leeds, West Yorkshire</p> <p>Waste Licence: Yes</p> <p>Site Reference: 4700/0585</p> <p>Waste Type: Industrial, Special, Liquid sludge</p> <p>Environmental Permitting Regulations (Waste) Reference: YQ3/L/IMI001</p>	<p>Licence Issue: 23-Apr-1981</p> <p>Licence Surrendered: 13-Jun-1998</p> <p>Licence Holder Address: Haigh Park Road, Stourton, Leeds</p> <p>Operator: -</p> <p>Licence Holder: IMI Yorkshire Alloys Limited</p> <p>First Recorded: 01-Feb-1982</p> <p>Last Recorded: -</p>
Not shown	772	S	433200 430200	<p>Site Address: Haigh Park Road, Stourton, Leeds</p> <p>Waste Licence: Yes</p> <p>Site Reference: 4700/0263</p> <p>Waste Type: Industrial, Special, Liquid sludge</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p>	<p>Licence Issue: 23-Apr-1981</p> <p>Licence Surrendered:</p> <p>Licence Holder Address: Haigh Park Road, Stourton, Leeds</p> <p>Operator: -</p> <p>Licence Holder: IMI Yorkshire Imperial Limited</p> <p>First Recorded: 01-Feb-1982</p> <p>Last Recorded: -</p>

ID	Distance (m)	Direction	NGR	Details	
25	855	NW	432300 431900	Site Address: Refuse Tip off Knowsthorpe Lane, Knowsthorpe Lane, Cross Green Waste Licence: - Site Reference: - Waste Type: Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
Not shown	858	SE	434000 430100	Site Address: Skelton Grange Power Station, Knostrop, Leeds, West Yorkshire Waste Licence: - Site Reference: - Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Central Electricity Generating Board Licence Holder: - First Recorded: 31-Dec-1945 Last Recorded: -
27	932	NW	432300 431700	Site Address: Hunslet East Tip Site, Knowsthorpe Lane, Leeds, Hunslet, West Yorkshire Waste Licence: Yes Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: DUR/L/RAI001	Licence Issue: 05-Oct-1979 Licence Surrendered: Licence Holder Address: Euston Square, London Operator: Railtrack Licence Holder: Railtrack First Recorded: - Last Recorded: -
Not shown	1032	W	432100 431200	Site Address: Coghlan Bright Steel Limited, Hunslet Forge, Thwaite Gate, Leeds Waste Licence: Yes Site Reference: 4700/0055 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 22-Jun-1977 Licence Surrendered: 14-Mar-1980 Licence Holder Address: Hunslet Forge, Leeds Operator: Coghlan Bright Steel Limited Licence Holder: Coghlan Bright Steel Limited First Recorded: 31-Dec-1947 Last Recorded: 14-Mar-1980
Not shown	1261	W	431800 431500	Site Address: Curve of Roadway directly behind Severn Way Industrial Estate, Hunslet, Leeds Waste Licence: Yes Site Reference: 4700/0684 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 21-Nov-1988 Licence Surrendered: Licence Holder Address: PO Box 9, 1 Dock Street, Leeds Operator: - Licence Holder: British Waterways Board First Recorded: - Last Recorded: -
Not shown	1312	N	433600 432700	Site Address: Halton Moor No 3, Halton Moor Road, Osmondthorpe Waste Licence: - Site Reference: - Waste Type: Household Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Leeds City Council Licence Holder: - First Recorded: 01-Jan-1964 Last Recorded: 31-Dec-1970
Not shown	1330	N	433800 432700	Site Address: Halton Moor No 2, Halton Moor Road, Osmondthorpe Waste Licence: - Site Reference: - Waste Type: Industrial, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Leeds City Council Licence Holder: - First Recorded: 01-Jan-1964 Last Recorded: 31-Dec-1970
Not shown	1352	S	433000 429600	Site Address: Link Road, Stourton Waste Licence: - Site Reference: - Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: A F Budge (Contractors) Limited Licence Holder: - First Recorded: - Last Recorded: -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1367	W	431700 431500	Site Address: Knostrop Depot, Hunslet Road, Leeds Waste Licence: Yes Site Reference: 415 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 19-Apr-1984 Licence Surrendered: Licence Holder Address: PO Box 9, 1 Dock Street, Leeds Operator: - Licence Holder: British Waterways Board First Recorded: - Last Recorded: -
Not shown	1367	W	431700 431500	Site Address: Severn Way, Hunslet, Leeds Waste Licence: Yes Site Reference: 4700/0643 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 17-Dec-1987 Licence Surrendered: 11-Jun-1991 Licence Holder Address: Albert Road, Morley, Leeds Operator: - Licence Holder: Mone Brothers Civil Engineering Limited First Recorded: 01-Jan-1988 Last Recorded: 31-Dec-1989
Not shown	1450	SW	432200 429900	Site Address: Bell Hill, Off Wakefield Road, Stourton Waste Licence: Yes Site Reference: 4700/0844 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 09-Jul-1990 Licence Surrendered: 05-Aug-1993 Licence Holder Address: Dept of Industry & Estates, 44 The Headrow, Leeds Operator: - Licence Holder: Leeds City Council First Recorded: 30-Jun-1990 Last Recorded: 31-Aug-1990
Not shown	1499	W	431600 431100	Site Address: Land at Junction of Pepper Road/Pepper Lane, Hunslet, Leeds Waste Licence: Yes Site Reference: 4700/0412 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 20-Oct-1983 Licence Surrendered: 31-Jan-1985 Licence Holder Address: Civic Hall, Leeds Operator: - Licence Holder: Director of Leisure Services, Leeds City Council First Recorded: 31-Oct-1983 Last Recorded: 30-Apr-1984

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

1

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1044	SE	434000.0 430100.0	Address: Skelton Grange Power Stn, Knostrop, Leeds 10 BGS Number: 2805.0	Risk: No risk to aquifer Waste Type: 5 tons Asbestos waste



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

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
92	327	W	432892 431233	Refuse Tip	1963 mapping	Polygon
93	489	SW	432841 430695	Refuse Tip	1963 mapping	Polygon
94	497	W	432684 431344	Refuse Tip	1963 mapping	Polygon
Not shown	836	W	432394 431368	Refuse Tip	1963 mapping	Polygon
96	856	NW	432429 431853	Refuse Tip	1963 mapping	Polygon
Not shown	871	W	432362 430922	Refuse Tip	1963 mapping	Polygon
Not shown	871	W	432362 430922	Refuse Tip	1967 mapping	Polygon
Not shown	952	SW	432868 430204	Refuse Tips	1963 mapping	Polygon
Not shown	980	SW	432858 430186	Refuse Tips	1963 mapping	Polygon
Not shown	987	NW	432381 431807	Refuse Tip	1963 mapping	Polygon
Not shown	1262	S	433736 429732	Refuse Tip	1962 mapping	Polygon
Not shown	1336	N	433861 432764	Refuse Tip	1966 mapping	Polygon
Not shown	1337	N	433861 432764	Refuse Tip	1968 mapping	Polygon
Not shown	1343	W	431911 431608	Refuse Tip	1961 mapping	Polygon

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

13

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details		
2	380	NW	433039 431570	Type of Site: Waste Transfer Station Site Address: Site 30A, Knowsthorpe Road, Cross Green Industrial Estate, LEEDS, West Yorkshire, LS9 0	Planning Application Reference: 21/56/95/FU Date: -	Further Details: Scheme includes two storey offices to side and 10 car parking spaces. Construction - 4 roller shutters doors. An application (ref: 21/56/95/FU) for Detailed Planning permission was submitted to Leeds C.C. on 22nd February 1995. Data Source: Historic Planning Application Data Type: Point
3B	404	NW	432923 431567	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1989	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
4A	405	NW	432953 431551	Type of Site: Scrap Metal Yard Site Address: N/A	Planning Application Reference: N/A Date: 1979	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
5A	405	NW	432954 431558	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1989	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
6A	405	NW	432954 431558	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1986	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
7A	405	NW	432954 431558	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1986	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
8B	430	NW	432906 431568	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1997	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
9B	430	NW	432906 431568	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1995	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
10B	430	NW	432906 431568	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1993	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
11C	450	NW	432892 431568	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1989	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

ID	Distance (m)	Direction	NGR	Details		
12C	450	NW	432892 431568	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1986	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
13C	450	NW	432892 431568	Type of Site: Scrap Yard Site Address: N/A	Planning Application Reference: N/A Date: 1986	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon
14C	450	NW	432892 431568	Type of Site: Scrap Metal Yard Site Address: N/A	Planning Application Reference: N/A Date: 1979	Further Details: N/A Data Source: Historic Mapping Data Type: Polygon

3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

55

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details	
37	0	On Site	433606 431200	Site Address: Former Skelton Grange Power Station, Skelton Grange Road, Leeds, West Yorkshire, LS10 1RR Type: Deposit of waste to land as a recovery operation Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LAN144 EPR reference: EA/EPR/CB3009GL/S002 Operator: Land Regeneration Management Limited Waste Management licence No: 401975 Annual Tonnage: 0.0	Issue Date: 23/12/2014 Effective Date: - Modified: - Surrendered Date: 28/06/2017 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Land Regeneration Management Limited Correspondence Address: -
38D	242	SW	433050 430950	Site Address: Haigh Park Road, Stourton, Leeds, West Yorkshire, LS1 1RD Type: Industrial Waste Landfill (Factory curtilage) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: IMI002 EPR reference: EA/EPR/VP3094ZD/S002 Operator: I M I Yorkshire Alloys Ltd Waste Management licence No: 65105 Annual Tonnage: 75000.0	Issue Date: 13/03/1977 Effective Date: - Modified: - Surrendered Date: 27/09/2002 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: I M I Correspondence Address: -
39	242	SW	433050 430950	Site Address: Haigh Park Road, Stourton, Leeds, West Yorkshire, LS1 1RD Type: Industrial Waste Landfill (Factory curtilage) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: IMI002 EPR reference: - Operator: I M I Yorkshire Alloys Ltd Waste Management licence No: 65105 Annual Tonnage: 0.0	Issue Date: 13/03/1977 Effective Date: - Modified: - Surrendered Date: 27/09/2002 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: I M I Correspondence Address: Watton Est. Management Services, Po Box 216, Witton, Birmingham, B6 7BA

ID	Distance (m)	Direction	NGR	Details
40	390	NW	433050 431560	<p>Site Address: Site 46, Knowsthorpe Way, Cross Green Industrial Es, Leeds, West Yorkshire, LS9 0SW Type: Material Recycling Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SKE001 EPR reference: EA/EPR/BP3792ZH/A001 Operator: Skelton Ltd Waste Management licence No: 65213 Annual Tonnage: 75000.0</p> <p>Issue Date: 02/11/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Knowsthorpe Way Transfer Station Correspondence Address: -</p>
41	468	NW	433100 431700	<p>Site Address: Knowsthorpe Road, Cross Green, Leeds, West Yorkshire Type: Landfill taking Non-Biodegradable Wastes Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LEE012 EPR reference: EA/EPR/RP3094ZV/S002 Operator: Leeds Development Agency Waste Management licence No: 65135 Annual Tonnage: 150000.0</p> <p>Issue Date: 26/02/1992 Effective Date: - Modified: - Surrendered Date: 09/11/2000 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Knowsthorpe Way Correspondence Address: -</p>
42E	476	SW	432990 430695	<p>Site Address: Unit 9b, Haigh Park Road, Stourton, Leeds, West Yorkshire, LS10 1RT Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000140 EPR reference: EA/EPR/ZP3092ZD/A001 Operator: Halfway Garage (robin Hood) Ltd Waste Management licence No: 65373 Annual Tonnage: 2500.0</p> <p>Issue Date: 13/07/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Halfway Garage Ltd Correspondence Address: -</p>
43E	476	SW	432990 430695	<p>Site Address: Unit 9b, Haigh Park Road, Stourton, Leeds, West Yorkshire, LS10 1RT Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000140 EPR reference: EA/EPR/ZP3092ZD/A001 Operator: Halfway Garage (Robin Hood) Ltd Waste Management licence No: 65373 Annual Tonnage: 2500.0</p> <p>Issue Date: 13/07/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Halfway Garage Ltd Correspondence Address: -</p>
44F	512	NE	433820 431722	<p>Site Address: Knostrap W W T W, Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PJ Type: Composting in open windrows Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR059 EPR reference: EA/EPR/RP3199SY/V003 Operator: Yorkshire Water Services Ltd Waste Management licence No: 102229 Annual Tonnage: 74999.0</p> <p>Issue Date: 11/02/2011 Effective Date: - Modified: 20/04/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Knostrap Wastewater Treatment Works Correspondence Address: -</p>
45F	512	NE	433820 431722	<p>Site Address: Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PJ Type: Composting in open windrows Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR059 EPR reference: EA/EPR/RP3199SY/A001 Operator: Yorkshire Water Services Ltd Waste Management licence No: 102229 Annual Tonnage: 74999.0</p> <p>Issue Date: 11/02/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Knostrap Wastewater Treatment Works Correspondence Address: -</p>

ID	Distance (m)	Direction	NGR	Details
46G	544	NW	433140 431829	<p>Site Address: Waste Transfer Station, Knowsthorpe Road, Cross Green Ind. Est., Leeds, West Yorkshire, LS9 0BW Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE447 EPR reference: EA/EPR/DB3603HU/T001 Operator: Green North East Trading Bidco Limited Waste Management licence No: 65267 Annual Tonnage: 75000.0</p> <p>Issue Date: 16/01/2004 Effective Date: 19/11/2015 Modified: 12/06/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: T Shea Limited Correspondence Address: -</p>
47G	544	NW	433140 431829	<p>Site Address: Waste Transfer Station, Knowsthorpe Road, Cross Green Ind. Est., Leeds, West Yorkshire, LS9 0BW Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BOW002 EPR reference: EA/EPR/UP3592ZB/V003 Operator: Shea Thomas Paul Waste Management licence No: 65267 Annual Tonnage: 75000.0</p> <p>Issue Date: 16/01/2004 Effective Date: - Modified: 12/06/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: T Shea & Sons Correspondence Address: -</p>
48G	544	NW	433140 431829	<p>Site Address: Waste Transfer Station, Knowsthorpe Road, Cross Green Ind. Est., Leeds, West Yorkshire, LS9 0BW Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHE290 EPR reference: EA/EPR/CB3505XJ/T001 Operator: T Shea Limited Waste Management licence No: 65267 Annual Tonnage: 75000.0</p> <p>Issue Date: 16/01/2004 Effective Date: 28/01/2015 Modified: 12/06/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: T Shea & Sons Correspondence Address: -</p>
49G	544	NW	433140 431829	<p>Site Address: Waste Transfer Station, Knowsthorpe Road, Cross Green Ind. Est., Leeds, West Yorkshire, LS9 0BW Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO002 EPR reference: EA/EPR/FB3701UA/T001 Operator: Crossgreen Investments Ltd Waste Management licence No: 65267 Annual Tonnage: 75000.0</p> <p>Issue Date: 16/01/2004 Effective Date: 28/11/2017 Modified: 12/06/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Waste Transfer Station Correspondence Address: -</p>
50G	544	NW	433140 431829	<p>Site Address: Waste Transfer Station, Knowsthorpe Road, Cross Green Ind. Est., Leeds, West Yorkshire, LS9 0BW Type: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BOW002 EPR reference: - Operator: Shea Thomas Paul Waste Management licence No: 65267 Annual Tonnage: 0.0</p> <p>Issue Date: 16/01/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: T Shea & Sons Correspondence Address: Waste Transfer Station, Knowsthorpe Road, Cross Green Ind. Est., Leeds, West Yorkshire, LS9 0BW</p>

ID	Distance (m)	Direction	NGR	Details	
51H	560	NW	432880 431620	<p>Site Address: 25, Knowsthorpe Way, Cross Green Industrial Est, Leeds, LS9</p> <p>Type: Metal Recycling Site (mixed MRS's) Size: >= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: ROB002 EPR reference: - Operator: Robinson Group Ltd Waste Management licence No: 65137 Annual Tonnage: 0.0</p>	<p>Issue Date: 20/07/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued</p> <p>Site Name: Robinson Group Correspondence Address: Robinson House, Whiteley Road, Blaydon, Tyne And Wear, NE21 5NJ</p>
52H	560	NW	432880 431620	<p>Site Address: 25, Knowsthorpe Way, Cross Green Industrial Est, Leeds, West Yorkshire, LS9 0SW</p> <p>Type: Metal Recycling Site (mixed MRS's) Size: >= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: EUR001 EPR reference: EA/EPR/RP3594ZS/V008 Operator: European Metal Recycling Ltd Waste Management licence No: 65137 Annual Tonnage: 10000.0</p>	<p>Issue Date: 20/07/1992 Effective Date: 23/12/2004 Modified: 15/07/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified</p> <p>Site Name: European Metal Recycling Correspondence Address: -</p>
53H	560	NW	432880 431620	<p>Site Address: 25, Knowsthorpe Way, Cross Green Industrial Est, Leeds, West Yorkshire, LS9 0SW</p> <p>Type: Metal Recycling Site (mixed MRS's) Size: >= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: EUR001 EPR reference: EA/EPR/RP3594ZS/V009 Operator: European Metal Recycling Limited Waste Management licence No: 65137 Annual Tonnage: 370000.0</p>	<p>Issue Date: 20/07/1992 Effective Date: 23/12/2004 Modified: 31/08/2017 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified</p> <p>Site Name: European Metal Recycling Correspondence Address: -</p>
54H	560	NW	432880 431620	<p>Site Address: 25, Knowsthorpe Way, Cross Green Industrial Est, Leeds, LS9</p> <p>Type: Metal Recycling Site (mixed MRS's) Size: >= 25000 tonnes < 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: ROB002 EPR reference: - Operator: Robinson Group Ltd Waste Management licence No: 65137 Annual Tonnage: 0.0</p>	<p>Issue Date: 20/07/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued</p> <p>Site Name: Robinson Group Correspondence Address: Robinson House, Whiteley Road, Blaydon, Tyne And Wear, NE21 5NJ</p>
55I	612	W	432600 431100	<p>Site Address: Land Adj. Aire & Calder Navigations, Thwaite Gate, Leeds</p> <p>Type: Transfer Station taking Non-Biodegradable Wastes Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: BRI019 EPR reference: - Operator: British Waterways Waste Management licence No: 61492 Annual Tonnage: 0.0</p>	<p>Issue Date: 03/03/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued</p> <p>Site Name: Twaite Gate Correspondence Address: Fearn's Wharf, Neptune Street, Leeds, LS9 8PB</p>

ID	Distance (m)	Direction	NGR	Details
561	612	W	432600 431100	<p>Site Address: Land/premises At, Thwaite Lane, Thwaite Gate, Leeds, West Yorkshire, LS10 1RN Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI019 EPR reference: EA/EPR/WP3095ZQ/A001 Operator: British Waterways Board Waste Management licence No: 61492 Annual Tonnage: 5000.0</p> <p>Issue Date: 03/03/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Thwaite Gate Correspondence Address: -</p>
571	612	W	432600 431100	<p>Site Address: Thwaite Lane, Thwaite Gate, Leeds, West Yorkshire, LS10 9RN Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRI019 EPR reference: - Operator: British Waterways Waste Management licence No: 61492 Annual Tonnage: 5000.0</p> <p>Issue Date: 03/03/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Thwaite Gate Correspondence Address: Fearn's Wharf, Neptune Street, Leeds, West Yorkshire, LS9 8PB</p>
58	627	NW	432982 431813	<p>Site Address: 29a, Knowesthorpe Way, Leeds, West Yorkshire, LS9 0SW Type: ELV Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 000178 EPR reference: EA/EPR/CP3292ZB/A001 Operator: Mr Leon Parrish Waste Management licence No: 65368 Annual Tonnage: 2500.0</p> <p>Issue Date: 28/06/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Babington Car Spares Correspondence Address: -</p>
Not shown	731	S	433450 430250	<p>Site Address: Ferdinand Properties Ltd, Land Off Haigh Park Road / Pontefract Road, Stourton, Leeds, West Yorkshire, LS10 1SW Type: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FPL006 EPR reference: EA/EPR/WP3495ZG/T002 Operator: Ferdinand Properties Ltd Waste Management licence No: 61527 Annual Tonnage: 180000.0</p> <p>Issue Date: 09/01/1998 Effective Date: 22/05/2007 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Land Off Haigh Park Road Correspondence Address: -</p>
Not shown	731	S	433450 430250	<p>Site Address: Land Off Haigh Park Road / Pontefract Road, Stourton, Leeds Type: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TSH001 EPR reference: - Operator: T Shea & Sons Waste Management licence No: 61527 Annual Tonnage: 0.0</p> <p>Issue Date: 09/01/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: T Shea And Sons Correspondence Address: -</p>
Not shown	731	S	433450 430250	<p>Site Address: Land Off Haigh Park Road / Pontefract Road, Stourton, Leeds Type: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TSS001 EPR reference: - Operator: Stocks Bros Ltd Waste Management licence No: 61527 Annual Tonnage: 0.0</p> <p>Issue Date: 09/01/1998 Effective Date: 28/02/2004 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: T Shea And Sons Correspondence Address: Ninelands Lane, Garforth, Leeds, West Yorkshire, LS25 1NT</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	807	SE	434000 430400	<p>Site Address: Knostrop S T W, Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PJ Type: Lagoon Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR013 EPR reference: EA/EPR/WP3994ZE/V002 Operator: Yorkshire Water Services Ltd Waste Management licence No: 65116 Annual Tonnage: 64500.0</p> <p>Issue Date: 22/03/1988 Effective Date: - Modified: 08/01/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: No 1 Lagoon Correspondence Address: -</p>
Not shown	807	SE	434000 430400	<p>Site Address: Knostrop S T W, Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PJ Type: Lagoon Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR013 EPR reference: - Operator: Yorkshire Water Services Waste Management licence No: 65116 Annual Tonnage: 0.0</p> <p>Issue Date: 22/03/1988 Effective Date: - Modified: 08/01/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: No 1 Lagoon Correspondence Address: Knostrop Sewage Works, Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PJ</p>
Not shown	807	SE	434000 430400	<p>Site Address: Knostrop S T W, Knowsthorpe Lane, Leeds, LS9 0PJ Type: Lagoon Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR013 EPR reference: - Operator: Yorkshire Water Services Ltd Waste Management licence No: 65116 Annual Tonnage: 0.0</p> <p>Issue Date: 22/03/1988 Effective Date: - Modified: 08/01/2001 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: No 1 Lagoon Correspondence Address: West Riding House, 67, Albion Street, Leeds, LS1 5AA</p>
65	816	NW	432493 431537	<p>Site Address: Knotstrop Treatment Works, Knowsthorpe Lane, Leeds, LS9 0PJ Type: Physico-Chemical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SRC018 EPR reference: EA/EPR/BB3409HF/A001 Operator: S R C L Ltd Waste Management licence No: 401341 Annual Tonnage: 3650.0</p> <p>Issue Date: 02/06/2014 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: S R C L Leeds Clinical Waste Facility Correspondence Address: -</p>
Not shown	849	W	432400 431400	<p>Site Address: Knostrop Treatment Works, Knowsthorpe Lane, Leeds, West Yorks, LS9 0PJ Type: Clinical Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DAN031 EPR reference: AP3299VT/T001 Operator: Daniels Corporation International Ltd Waste Management licence No: 100733 Annual Tonnage: 0.0</p> <p>Issue Date: 25/11/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Knostrop Treatment Works Correspondence Address: -</p>
Not shown	849	W	432400 431400	<p>Site Address: Knostrop Treatment Works, Knowsthorpe Lane, Leeds, West Yorks, LS9 0PJ Type: Clinical Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SRC006 EPR reference: EA/EPR/WP3991EC/T001 Operator: S R C L Ltd Waste Management licence No: 100733 Annual Tonnage: 4999.0</p> <p>Issue Date: 25/11/2008 Effective Date: 09/06/2011 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: Knostrop Treatment Works Correspondence Address: -</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	887	NW	432420 431550	<p>Site Address: Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PJ Type: Physico-Chemical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR011 EPR reference: EA/EPR/AP3494ZG/A001 Operator: White Rose Environmental Operations Ltd Waste Management licence No: 65129 Annual Tonnage: 250000.0</p>	<p>Issue Date: 20/06/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC Site Name: Knostrap Treatment Works Correspondence Address: -</p>
Not shown	887	NW	432420 431550	<p>Site Address: - Type: Physico-Chemical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: YOR011 EPR reference: - Operator: Waste Notts Ltd Waste Management licence No: 65129 Annual Tonnage: 0.0</p>	<p>Issue Date: 20/06/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Knostrap Treatment Works Correspondence Address: Knostrap E T P, Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PJ</p>
Not shown	940	NW	432939 432170	<p>Site Address: - Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BOW009 EPR reference: - Operator: Timberpak Ltd Waste Management licence No: 65268 Annual Tonnage: 0.0</p>	<p>Issue Date: 12/02/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Timberpak Correspondence Address: Ingram Works, Wortley Moor Road, Wortley, Leeds, LS12 4NE</p>
Not shown	996	SW	432862 430170	<p>Site Address: Stourton, Leeds, LS10 1SD Type: 75kte Materials Recycling Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AWM023 EPR reference: EA/EPR/BB3306GS/A001 Operator: Associated Waste Management Limited Waste Management licence No: 402150 Annual Tonnage: 74999.0</p>	<p>Issue Date: 04/03/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: A W M - Valley Farm Road Correspondence Address: -</p>
Not shown	996	SW	432862 430170	<p>Site Address: Stourton, Leeds, LS10 1SD Type: 75kte Materials Recycling Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AWM023 EPR reference: EA/EPR/BB3306GS/A001 Operator: Associated Waste Management Ltd Waste Management licence No: 402150 Annual Tonnage: 74999.0</p>	<p>Issue Date: 04/03/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: A W M - Valley Farm Road Correspondence Address: -</p>
Not shown	996	SW	432862 430170	<p>Site Address: Units A1 A2 A3 A4 B1 B2, Valley Farm Road, Stourton, Leeds, LS10 1SD Type: 75kte HCI Waste TS + treatment Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AWM023 EPR reference: EA/EPR/BB3306GS/V003 Operator: Associated Waste Management Limited Waste Management licence No: 402150 Annual Tonnage: 250.0</p>	<p>Issue Date: 04/03/2015 Effective Date: - Modified: 15/12/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: A W M - Valley Farm Road M R F Correspondence Address: -</p>

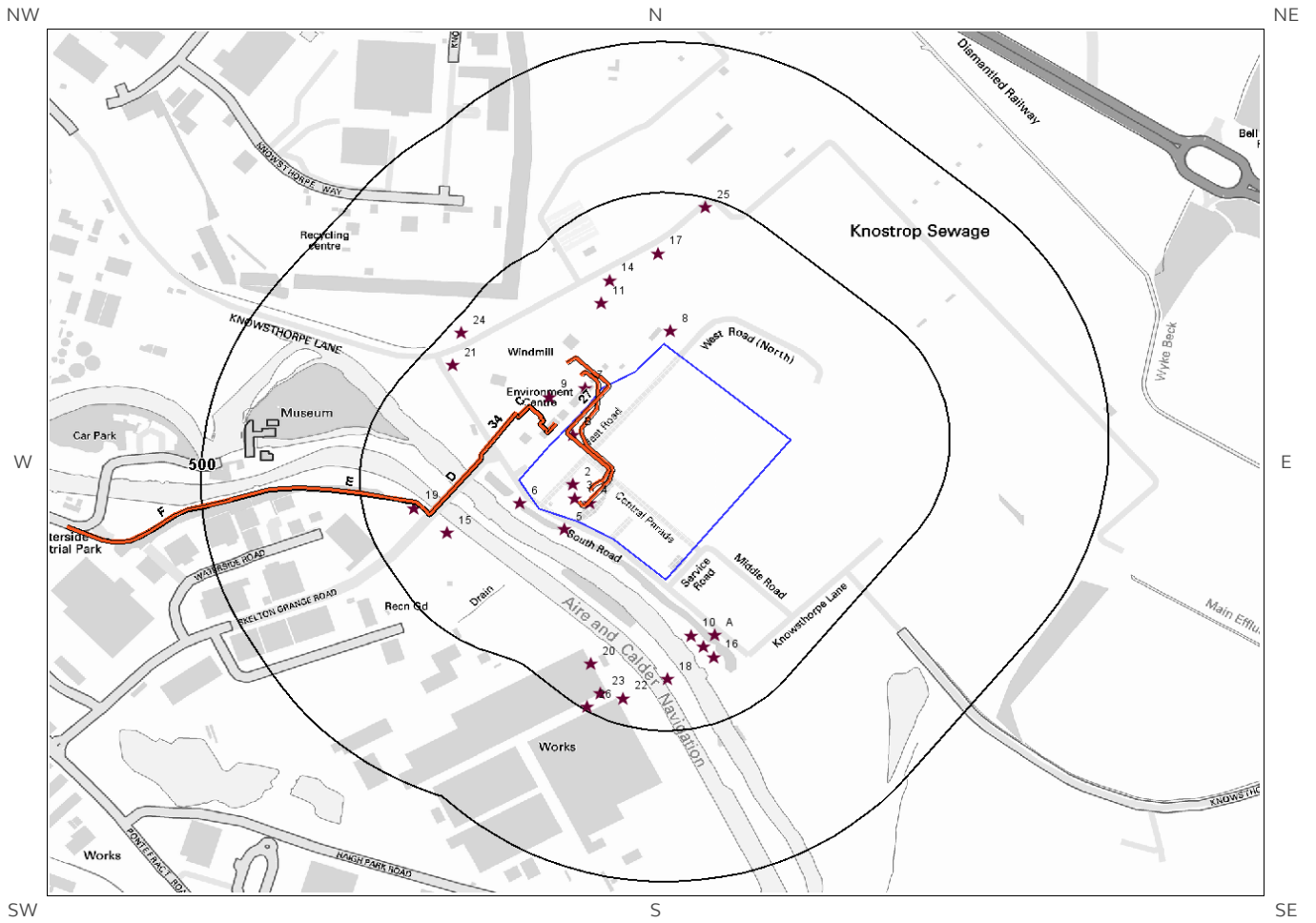
ID	Distance (m)	Direction	NGR	Details
Not shown	999	SW	432900 430140	<p>Site Address: Units B1 & B2, Valley Farm Road, Stourton, Leeds, West Yorkshire, LS10 1SD</p> <p>Type: 75kte HCl Waste TS + treatment Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: LEE063 EPR reference: EA/EPR/GP3493LY/V003 Operator: Leeds Paper Recycling Ltd Waste Management licence No: 101524 Annual Tonnage: 74999.0</p> <p>Issue Date: 02/11/2010 Effective Date: - Modified: 18/07/2011 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified</p> <p>Site Name: Unit B1 & B2 Valley Farm Road, Stourton, Leeds Correspondence Address: -</p>
Not shown	999	SW	432900 430140	<p>Site Address: Unit B1 & B2, Valley Farm Road, Stourton, Leeds, West Yorkshire, LS10 1SD</p> <p>Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: LEE063 EPR reference: EA/EPR/GP3493LY/V004 Operator: Whitecase Ltd (in Liquidation) Waste Management licence No: 101524 Annual Tonnage: 249999.0</p> <p>Issue Date: 02/11/2010 Effective Date: - Modified: 10/01/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired</p> <p>Site Name: Unit B1 & B2 Valley Farm Road Correspondence Address: -</p>
Not shown	999	SW	432900 430140	<p>Site Address: Unit B1 & B2, Valley Farm Road, Stourton, Leeds, West Yorkshire, LS10 1SD</p> <p>Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: LEE063 EPR reference: EA/EPR/GP3493LY/V004 Operator: Leeds Paper Recycling Ltd Waste Management licence No: 101524 Annual Tonnage: 249999.0</p> <p>Issue Date: 02/11/2010 Effective Date: - Modified: 10/01/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified</p> <p>Site Name: Unit B1 & B2 Valley Farm Road Correspondence Address: -</p>
Not shown	1062	NW	432269 431640	<p>Site Address: Leeds Recycling, North Knowsthorpe Lane, Cross Green, Leeds, West Yorkshire, LS9 0PF</p> <p>Type: Inert & Excavation WTS with treatment Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: TAR134 EPR reference: EA/EPR/EB3831RR/V002 Operator: Lafarge Tarmac Trading Limited Waste Management licence No: 103846 Annual Tonnage: 250000.0</p> <p>Issue Date: 07/02/2012 Effective Date: - Modified: 26/11/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified</p> <p>Site Name: Leeds Recycling Correspondence Address: -</p>
Not shown	1062	NW	432269 431640	<p>Site Address: Leeds Recycling, North Knowsthorpe Lane, Cross Green, Leeds, West Yorkshire, LS9 0PF</p> <p>Type: Inert & Excavation WTS with treatment Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: TAR134 EPR reference: EA/EPR/EB3831RR/V003 Operator: Tarmac Trading Limited Waste Management licence No: 103846 Annual Tonnage: 250000.0</p> <p>Issue Date: 07/02/2012 Effective Date: - Modified: 08/01/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified</p> <p>Site Name: Leeds Recycling Correspondence Address: -</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1062	NW	432269 431640	<p>Site Address: Leeds Recycling, North Knowsthorpe Lane, Leeds, West Yorkshire, LS9 0PF Type: Inert & Excavation WTS with treatment Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TAR134 EPR reference: EA/EPR/EB3831RR/A001 Operator: Tarmac Ltd Waste Management licence No: 103846 Annual Tonnage: 250000.0</p> <p>Issue Date: 07/02/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Leeds Recycling Correspondence Address: -</p>
Not shown	1065	NW	432300 431700	<p>Site Address: Knowesthorpe Lane, Hunslet, Leeds, West Yorkshire Type: Landfill taking Non-Biodegradable Wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RAI001 EPR reference: EA/EPR/VP3994ZN/S002 Operator: Railtrack Waste Management licence No: 65106 Annual Tonnage: 0.0</p> <p>Issue Date: 05/10/1979 Effective Date: - Modified: - Surrendered Date: 31/12/2007 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Hunslet East Tip Site Correspondence Address: -</p>
Not shown	1065	NW	432300 431700	<p>Site Address: Knowesthorpe Lane, Hunslet, Leeds, West Yorkshire Type: Landfill taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RAI001 EPR reference: - Operator: Railtrack Waste Management licence No: 65106 Annual Tonnage: 0.0</p> <p>Issue Date: 05/10/1979 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Hunslet East Tip Site Correspondence Address: Rail Track House, Euston Square, London, NW1 2EE</p>
Not shown	1143	NW	432350 431900	<p>Site Address: L S S Waste Management Ltd, Knowsthorpe Lane, Cross Green Ind Est, Leeds, West Yorkshire, LS9 0PF Type: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: LSS002 EPR reference: EA/EPR/WP3792ZG/V005 Operator: L S S Waste Management Ltd Waste Management licence No: 65438 Annual Tonnage: 300.0</p> <p>Issue Date: 24/10/2005 Effective Date: - Modified: 02/12/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: L S S Waste Management Ltd Correspondence Address: -</p>
Not shown	1260	NW	432470 432210	<p>Site Address: Land/premises At, Cross Green Vale, Cross Green Ind Est, Leeds, West Yorkshire, LS9 0SJ Type: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BOW009 EPR reference: EA/EPR/UP3892ZG/A001 Operator: Timberpak Ltd Waste Management licence No: 65268 Annual Tonnage: 100000.0</p> <p>Issue Date: 12/02/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Timberpak Correspondence Address: -</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1261	W	432000 431500	<p>Site Address: Unit 13, Hunslet Trading Estate, Severn Road, Leeds, LS10 1BL</p> <p>Type: Special Waste Transfer Station</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: SAF002</p> <p>EPR reference: -</p> <p>Operator: Safety - Kleen U K Ltd</p> <p>Waste Management licence No: 65117</p> <p>Annual Tonnage: 0.0</p>	<p>Issue Date: 21/03/1989</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Issued</p> <p>Site Name: Safety Kleen U K Ltd</p> <p>Correspondence Address: Unit 13, Severn Road, Hunslet Trading Estate, Leeds, LS10 1BL</p>
Not shown	1261	W	432000 431500	<p>Site Address: Unit 13, Hunslet Trading Estate, Severn Road, Leeds, West Yorkshire, LS10 1BL</p> <p>Type: Special Waste Transfer Station</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: SAF002</p> <p>EPR reference: EA/EPR/WP33594ZG/S002</p> <p>Operator: Safety Kleen U K Ltd</p> <p>Waste Management licence No: 65117</p> <p>Annual Tonnage: 776.0</p>	<p>Issue Date: 21/03/1989</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: 16/06/2004</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Surrendered</p> <p>Site Name: Safety Kleen U K Ltd</p> <p>Correspondence Address: -</p>
Not shown	1399	NW	432664 432539	<p>Site Address: Former Wholesale Market Site, Cross Green, Leeds, West Yorks, LS9 0RJ</p> <p>Type: 75kte HCI Waste Transfer Station</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: VEO175</p> <p>EPR reference: EA/EPR/GP3334CX/A001</p> <p>Operator: Veolia E S Leeds Ltd</p> <p>Waste Management licence No: 104548</p> <p>Annual Tonnage: 74999.0</p>	<p>Issue Date: 18/07/2013</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Issued</p> <p>Site Name: Leeds Recycling & Energy Recovery Facility</p> <p>Correspondence Address: -</p>
Not shown	1399	NW	432664 432539	<p>Site Address: Former Wholesale Market Site, Cross Green, Leeds, West Yorks, LS9 0RJ</p> <p>Type: 75kte HCI Waste Transfer Station</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: VEO175</p> <p>EPR reference: EA/EPR/GP3334CX/V002</p> <p>Operator: Veolia E S Leeds Limited</p> <p>Waste Management licence No: 104548</p> <p>Annual Tonnage: 74999.0</p>	<p>Issue Date: 18/07/2013</p> <p>Effective Date: -</p> <p>Modified: 02/08/2016</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Leeds Recycling & Energy Recovery Facility</p> <p>Correspondence Address: -</p>
Not shown	1405	NW	432061 431955	<p>Site Address: Valley House, Knowsthorpe Lane, Cross Green Ind Est, Leeds, West Yorkshire, LS9 0PH</p> <p>Type: Physico-Chemical Treatment Facility</p> <p>Size: >= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: 000021</p> <p>EPR reference: EA/EPR/XP3892ZH/V008</p> <p>Operator: Silver Lining Industries Ltd</p> <p>Waste Management licence No: 65279</p> <p>Annual Tonnage: 74999.0</p>	<p>Issue Date: 06/04/2005</p> <p>Effective Date: -</p> <p>Modified: 24/11/2017</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Valley House</p> <p>Correspondence Address: -</p>
Not shown	1461	NW	432093 432088	<p>Site Address: Unit 1 Cross Green Spur, Cross Green Approach, Leeds, West Yorks, LS9 0SG</p> <p>Type: -</p> <p>Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: CAR226</p> <p>EPR reference: EA/EPR/FP3195SB/V002</p> <p>Operator: Carolco U K Ltd</p> <p>Waste Management licence No: 101267</p> <p>Annual Tonnage: 4999.0</p>	<p>Issue Date: 09/12/2009</p> <p>Effective Date: -</p> <p>Modified: 09/06/2011</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Carolco U K Ltd</p> <p>Correspondence Address: -</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1461	NW	432093 432088	<p>Site Address: Unit 1 Cross Green Spur, Cross Green Approach, Leeds, West Yorks, LS9 0SG</p> <p>Type: 75kte Vehicle Depollution Facility Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: CAR226 EPR reference: FP3195SB/A001 Operator: Carolco U K Ltd Waste Management licence No: 101267 Annual Tonnage: 0.0</p> <p>Issue Date: 09/12/2009 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Carolco U K Ltd Correspondence Address: -</p>
Not shown	1461	NW	432093 432088	<p>Site Address: Unit 1 Cross Green Spur, Cross Green Approach, Leeds, West Yorks, LS9 0SG</p> <p>Type: Vehicle Depollution Facility <5000 tps Size: < 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: CAR226 EPR reference: EA/EPR/FP3195SB/V002 Operator: Carolco U K Ltd Waste Management licence No: 101267 Annual Tonnage: 4999.0</p> <p>Issue Date: 09/12/2009 Effective Date: - Modified: 09/06/2011 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Carolco U K Ltd Correspondence Address: -</p>

4. Current Land Use Map



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-  Site Outline
-  Current Industrial Sites
-  Electricity Transmission Cables
-  Search Buffers (m)
-  Petrol & Fuel Sites
-  Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

26

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1B	0	On Site	Pylon	433293 431223	LS10	Electrical Features	Infrastructure and Facilities
2	0	On Site	Tank	433293 431140	LS10	Tanks (Generic)	Industrial Features
3	0	On Site	Electricity Sub Station	433296 431117	LS10	Electrical Features	Infrastructure and Facilities
4	0	On Site	Pylon	433321 431110	LS10	Electrical Features	Infrastructure and Facilities
5	19	S	Electricity Sub Station	433280 431066	LS10	Electrical Features	Infrastructure and Facilities
6	20	SW	Pumping House	433211 431109	LS10	Water Pumping Stations	Industrial Features
7	22	NW	Tank	433313 431300	LS10	Tanks (Generic)	Industrial Features
8	24	NE	Pylon	433447 431394	LS10	Electrical Features	Infrastructure and Facilities
9	55	NW	Electricity Distribution Site	433257 431285	LS10	Electrical Features	Infrastructure and Facilities
10	100	SE	Pylon	433480 430890	LS10	Electrical Features	Infrastructure and Facilities
11	117	NW	Pylon	433339 431440	LS10	Electrical Features	Infrastructure and Facilities
12A	119	SE	Pylon	433517 430891	LS10	Electrical Features	Infrastructure and Facilities
13A	124	SE	Pylon	433498 430872	LS10	Electrical Features	Infrastructure and Facilities
14	136	NW	Pylon	433351 431478	LS10	Electrical Features	Infrastructure and Facilities
15	143	SW	Pylon	433096 431060	LS10	Electrical Features	Infrastructure and Facilities
16	148	SE	Pylon	433515 430854	LS10	Electrical Features	Infrastructure and Facilities
17	151	N	Pylon	433427 431523	LS10	Electrical Features	Infrastructure and Facilities
18	163	S	Pylon	433443 430818	LS10	Electrical Features	Infrastructure and Facilities
19	172	W	Pylon	433044 431101	LS10	Electrical Features	Infrastructure and Facilities

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
20	182	SW	Electricity Sub Station	433322 430843	LS10	Electrical Features	Infrastructure and Facilities
21	204	NW	Pylon	433105 431338	LS10	Electrical Features	Infrastructure and Facilities
22	206	S	Travelling Crane	433373 430786	LS10	Travelling Cranes and Gantries	Industrial Features
23	214	SW	Tanks	433337 430794	LS10	Tanks (Generic)	Industrial Features
24	230	NW	Pylon	433118 431391	LS10	Electrical Features	Infrastructure and Facilities
25	235	N	Electricity Sub Station	433501 431599	LS10	Electrical Features	Infrastructure and Facilities
26	243	SW	Electricity Sub Station	433316 430772	LS10	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:

0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site:

14

The following Underground Electricity Transmission Cable records are represented as linear features on the Current Land Use map:

ID	Distance (m)	Direction	Details	
27	0	On Site	Cable Set: FERRYBRIDGE C1 275KV CABLE Cable Route: SKELTON GRANGE A 275KV S/S Cable Make: BICC 275KV (OI)	Cable Type: A/C Operating Voltage (kV): 275 Year of installation: 1994 Cable in tunnel: -
28B	0	On Site	Cable Set: FERRYBRIDGE C2 275KV CABLE Cable Route: SKELTON GRANGE A 275KV S/S Cable Make: BICC 275KV (OI)	Cable Type: A/C Operating Voltage (kV): 275 Year of installation: 1994 Cable in tunnel: -
29C	18	NW	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -

ID	Distance (m)	Direction	Details	
30C	19	NW	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -
31D	70	NW	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -
32D	70	NW	Cable Set: CABLE SECT 01 Cable Route: KIRKSTALL - SKELTON GRANGE Cable Make: PIRELLI 275KV	Cable Type: A/C Operating Voltage (kV): 275 Year of installation: 1971 Cable in tunnel: -
33D	71	NW	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -
34	74	NW	Cable Set: CABLE SECT 01A Cable Route: KIRKSTALL - SKELTON GRANGE Cable Make: PIRELLI 275KV	Cable Type: A/C Operating Voltage (kV): 275 Year of installation: 1971 Cable in tunnel: -
35E	159	W	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -
36E	159	W	Cable Set: CABLE SECT 02 Cable Route: KIRKSTALL - SKELTON GRANGE Cable Make: PIRELLI 275KV	Cable Type: A/C Operating Voltage (kV): 275 Year of installation: 1971 Cable in tunnel: -
37E	160	W	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -
38F	454	W	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -
39F	454	W	Cable Set: CABLE SECT 03 Cable Route: KIRKSTALL - SKELTON GRANGE Cable Make: PIRELLI 275KV	Cable Type: A/C Operating Voltage (kV): 275 Year of installation: 1971 Cable in tunnel: -
40F	454	W	Cable Set: - Cable Route: - Cable Make: -	Cable Type: PILOT Operating Voltage (kV): - Year of installation: - Cable in tunnel: -



4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE

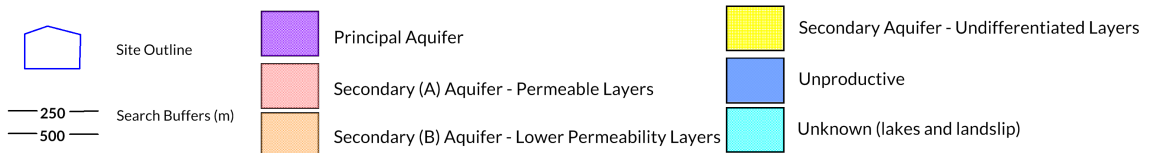
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

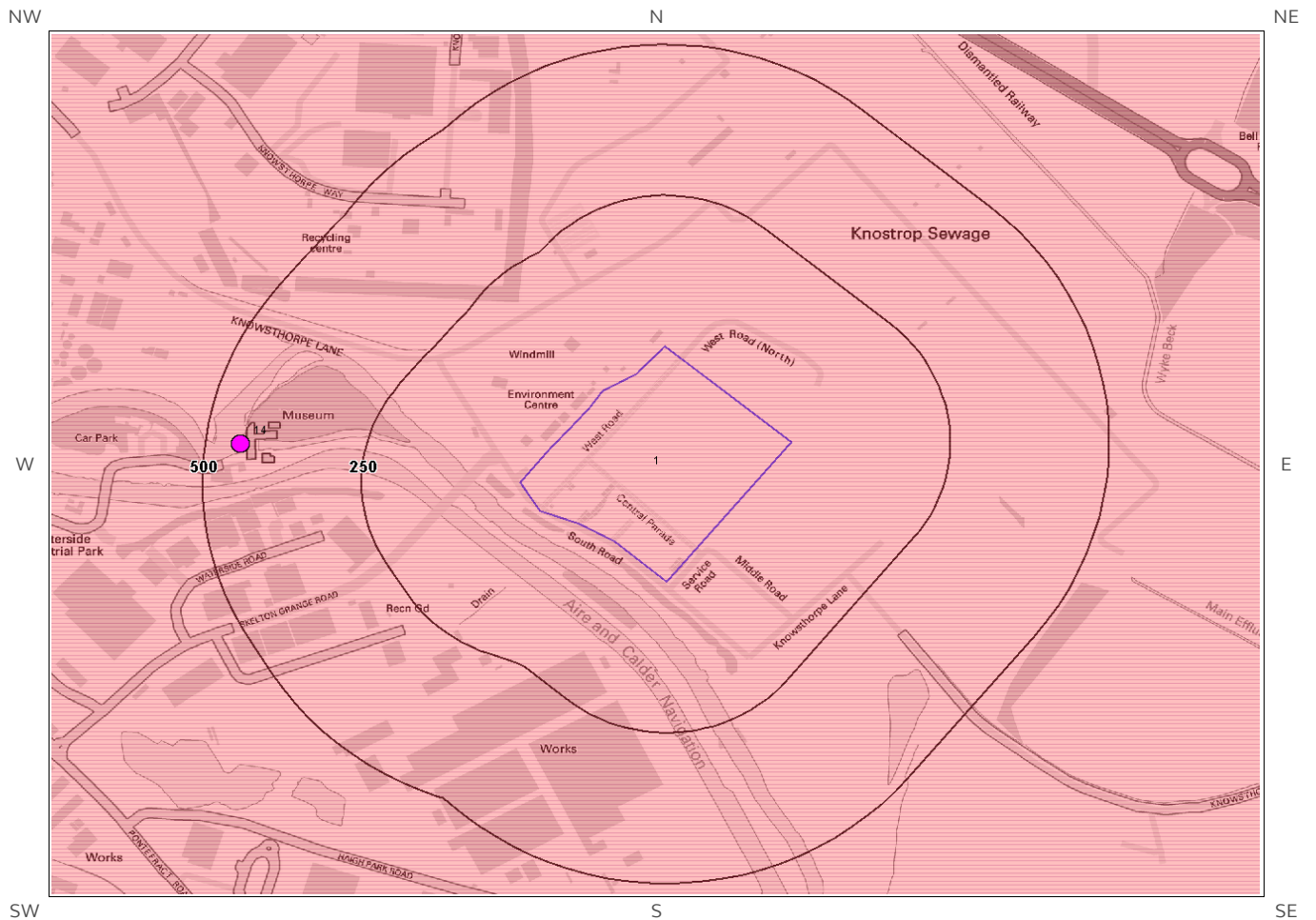
6a. Aquifer Within Superficial Geology



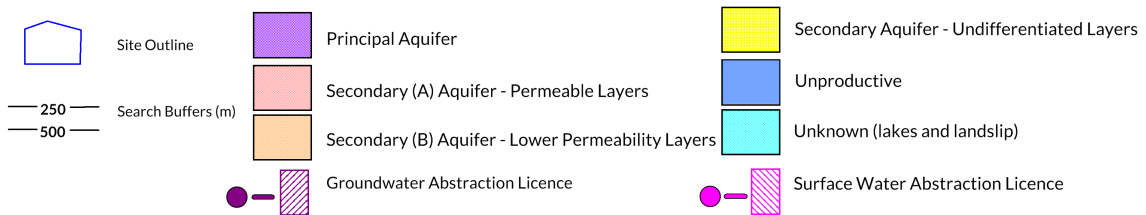
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6b. Aquifer Within Bedrock Geology and Abstraction Licenses

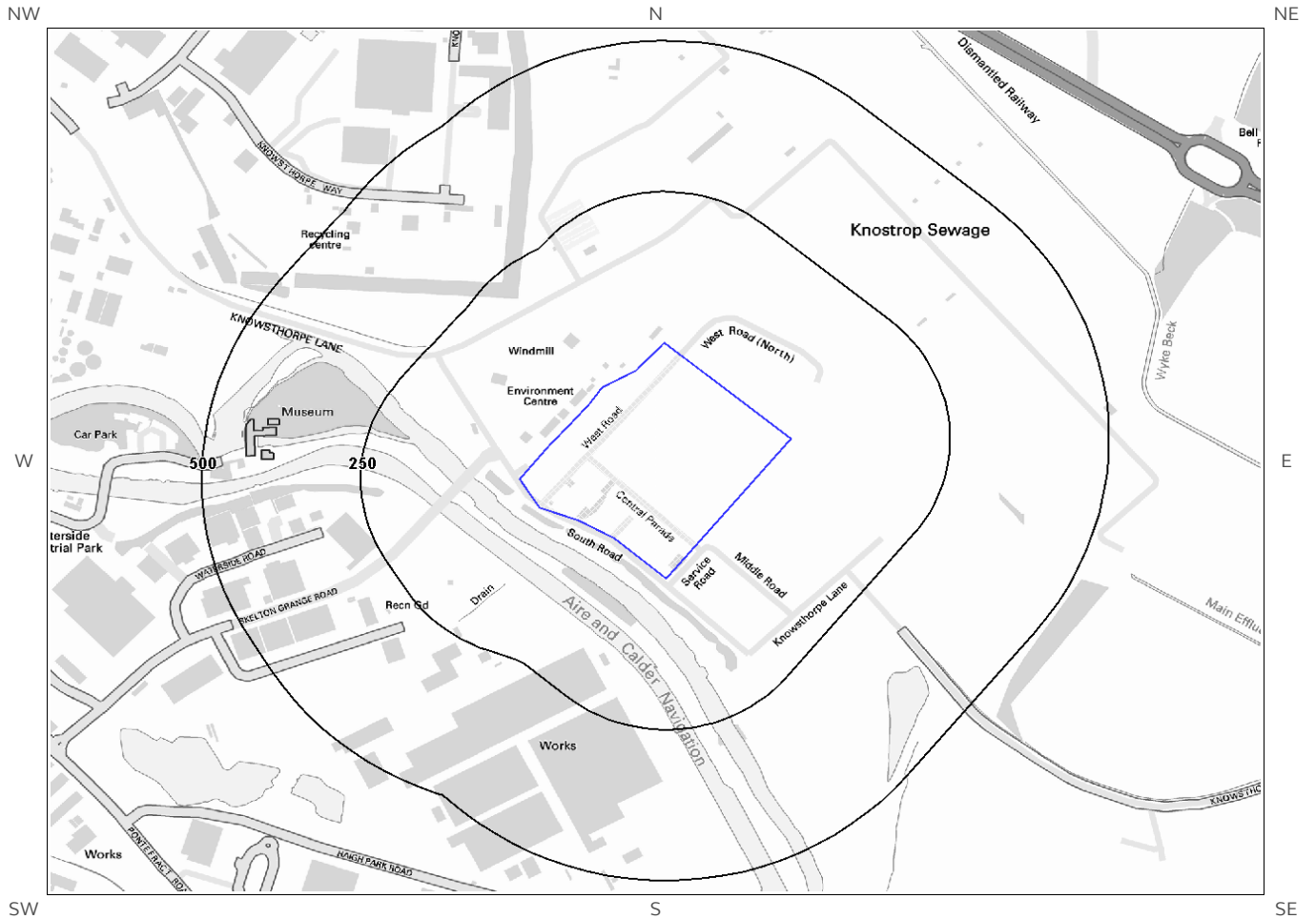


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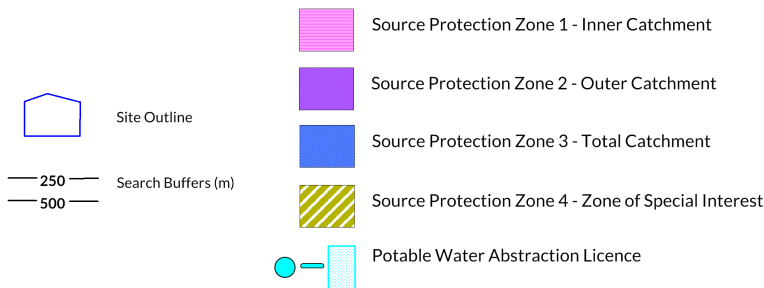




6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses

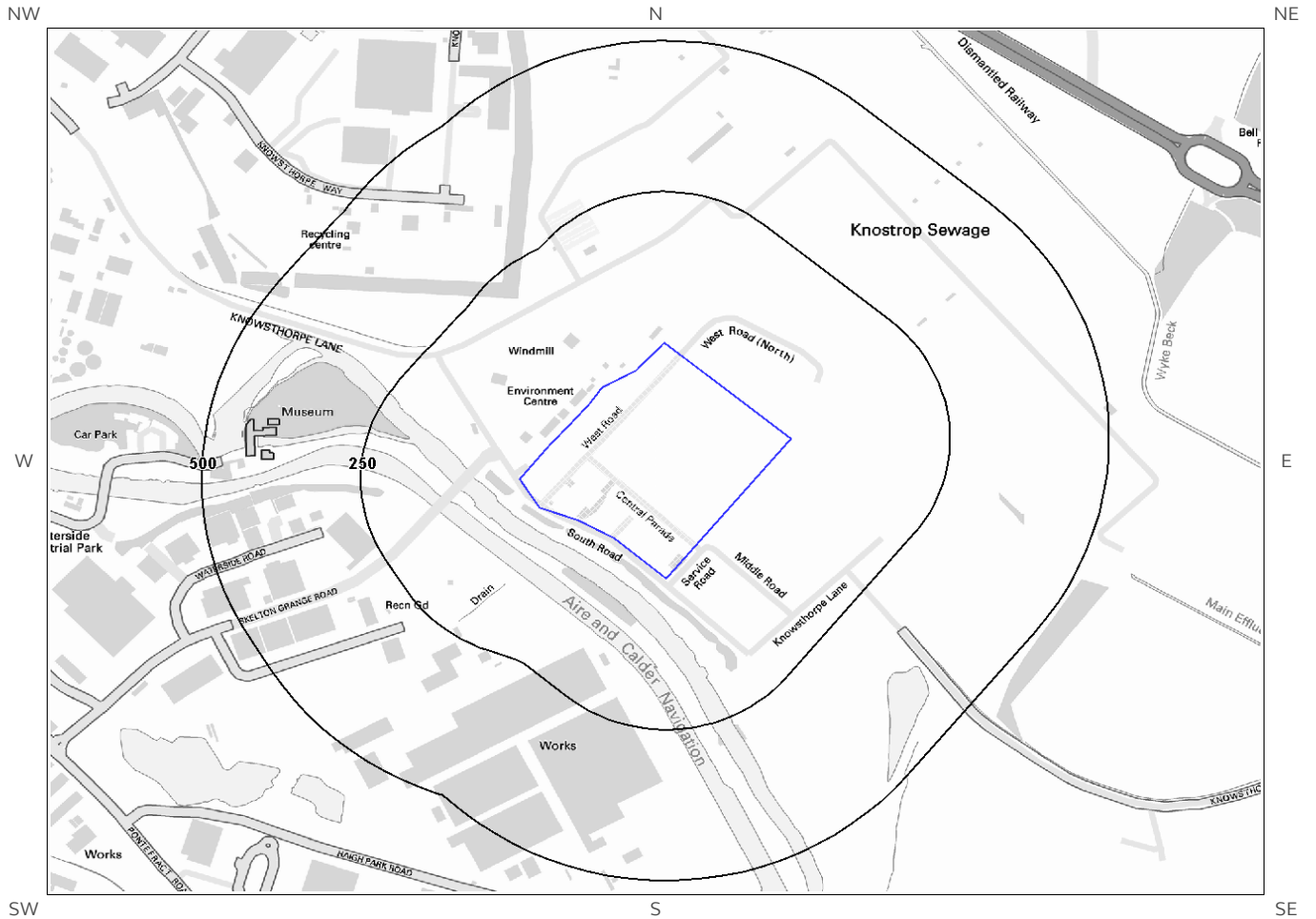


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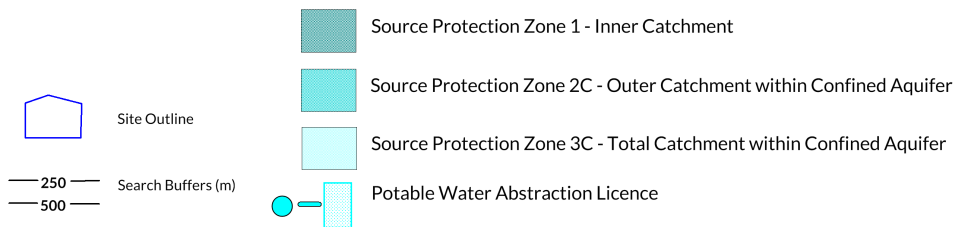




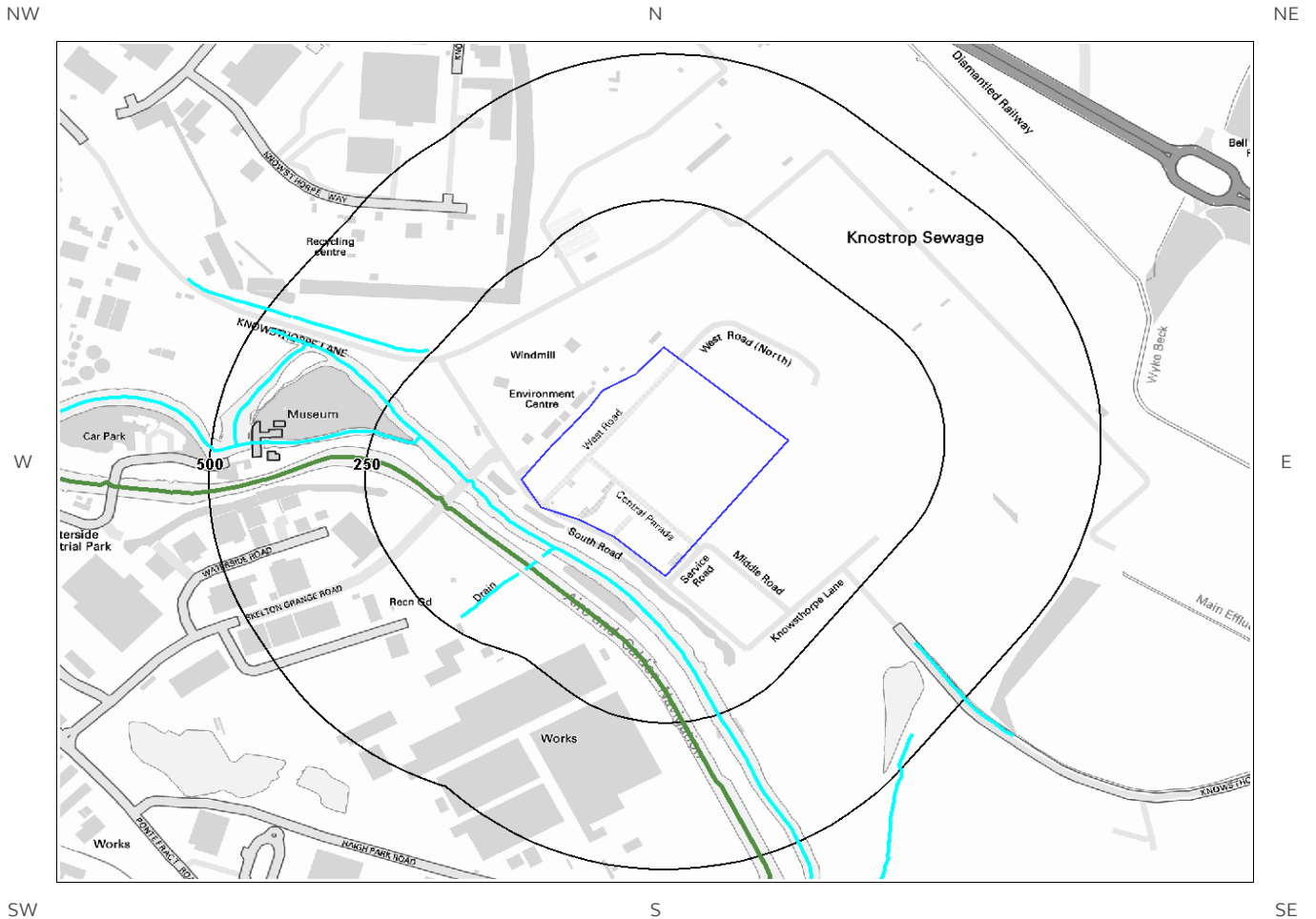
6d. Hydrogeology – Source Protection Zones within confined aquifer



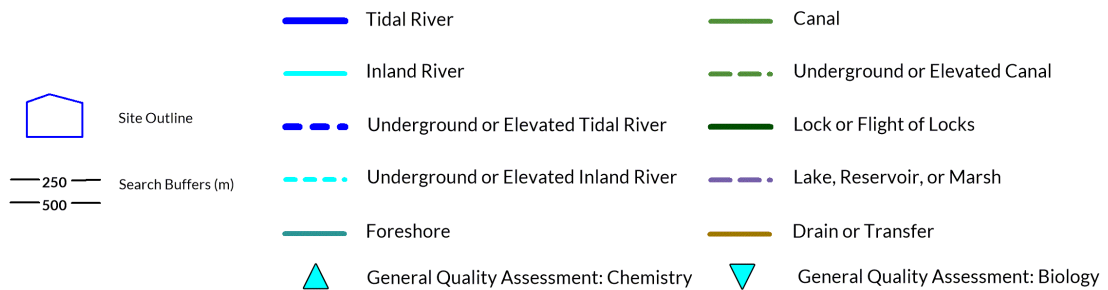
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6e. Hydrology – Watercourse Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site

Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
Not shown	745	NW	432900 431900	Status: Historical Licence No: 2/27/17/196 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole - Coal Measures - Leeds Data Type: Point Name: PITTARDS PLC Annual Volume (m ³): 511000 Max Daily Volume (m ³): 1400 Original Application No: 6736 Original Start Date: 22/1/1997 Expiry Date: 31/12/2007 Issue No: 100 Version Start Date: 12/3/1998 Version End Date:
Not shown	745	NW	432900 431900	Status: Historical Licence No: 2/27/17/196 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: PITTARDS PLC Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6736 Original Start Date: 22/1/1997 Expiry Date: 31/12/2007 Issue No: 100 Version Start Date: 12/3/1998 Version End Date:
Not shown	804	NW	432960 432020	Status: Active Licence No: NE/027/0017/037 Details: Dust Suppression Direct Source: Groundwaters Point: Borehole - Pennine Lower Coal Measures - Cross Green Estate Data Type: Point Name: Stocks Bros Ltd Annual Volume (m ³): 38800 Max Daily Volume (m ³): 155 Original Application No: NPS/WR/020549 Original Start Date: 15/12/2016 Expiry Date: 31/3/2027 Issue No: 1 Version Start Date: 15/12/2016 Version End Date:
Not shown	804	NW	432960 432020	Status: Active Licence No: NE/027/0017/037 Details: Process Water Direct Source: Groundwaters Point: Borehole - Pennine Lower Coal Measures - Cross Green Estate Data Type: Point Name: Stocks Bros Ltd Annual Volume (m ³): 38800 Max Daily Volume (m ³): 155 Original Application No: NPS/WR/020549 Original Start Date: 15/12/2016 Expiry Date: 31/3/2027 Issue No: 1 Version Start Date: 15/12/2016 Version End Date:
Not shown	914	W	432338 431419	Status: Active Licence No: NE/027/0017/007 Details: General Washing/Process Washing Direct Source: Groundwaters Point: Borehole - Superficial Drift - Knostrop Treatment Works Data Type: Point Name: FCC Recycling (UK) Ltd Annual Volume (m ³): 60000 Max Daily Volume (m ³): 200 Original Application No: NPS/WR/016416 Original Start Date: 18/8/2011 Expiry Date: 31/3/2027 Issue No: 2 Version Start Date: 1/7/2015 Version End Date:
Not shown	1052	S	433290 429940	Status: Historical Licence No: 2/27/17/228 Details: Process Water Direct Source: Groundwaters Point: Borehole - Coal Measures - Stourton - Leeds Data Type: Point Name: ARLA FOODS LTD Annual Volume (m ³): 511000 Max Daily Volume (m ³): 1400 Original Application No: 8316 Original Start Date: 7/8/2008 Expiry Date: 31/3/2015 Issue No: 1 Version Start Date: 7/8/2008 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1297	NW	432406 432199	Status: Active Licence No: NE/027/0017/024 Details: Dust Suppression Direct Source: Groundwaters Point: Borehole - Coal Measures - Cross Green Vale Data Type: Point Name: Timberpak Ltd	Annual Volume (m ³): 73000 Max Daily Volume (m ³): 200 Original Application No: NPS/WR/013695 Original Start Date: 6/11/2013 Expiry Date: 31/3/2027 Issue No: 1 Version Start Date: 6/11/2013 Version End Date:
Not shown	1321	W	431950 430750	Status: Historical Licence No: 2/27/17/194 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole - Coal Measures - Stourton Data Type: Point Name: FUELFORCE LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6782 Original Start Date: 19/11/1996 Expiry Date: - Issue No: 101 Version Start Date: 4/12/2001 Version End Date:
Not shown	1321	W	431950 430750	Status: Historical Licence No: 2/27/17/194 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: CONOCO LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6782 Original Start Date: 19/11/1996 Expiry Date: - Issue No: 100 Version Start Date: 19/11/1996 Version End Date:
Not shown	1840	N	432890 433130	Status: Historical Licence No: 2/27/17/190 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole - Coal Measures - Osmondthorpe - Leeds Data Type: Point Name: NORTHERN RAIL LTD	Annual Volume (m ³): 91000 Max Daily Volume (m ³): 250 Original Application No: 6685 Original Start Date: 19/9/1995 Expiry Date: - Issue No: 102 Version Start Date: 12/12/2004 Version End Date:
Not shown	1840	N	432890 433130	Status: Historical Licence No: 2/27/17/190 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwaters Point: Borehole Data Type: Point Name: REGIONAL RAILWAYS NORTH EAST	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: 6685 Original Start Date: 19/9/1995 Expiry Date: - Issue No: 100 Version Start Date: 1/4/1996 Version End Date:

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site

Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details	
14	445	W	432770 431210	Status: Active Licence No: 2/27/17/172 Details: Milling & Water Power Other Than Electricity Generation Direct Source: Surface Water Point: River Aire Data Type: Point Name: TRUSTEES OF THWAITE MILLS	Annual Volume (m ³): 32000 Max Daily Volume (m ³): 226.8 Application No: 6013(1) Original Start Date: 2/12/1985 Expiry Date: - Issue No: 100 Version Start Date: 2/12/1985 Version End Date:

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

None identified

Database searched and no data found.

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site

Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site

None identified

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
1	47 SW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.6
22	47 SW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.6
2	58 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
3	58 S	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 25.8
23	58 S	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: Underground Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
24	58 S	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 25.8

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
4	91 SW	Aire and Calder Navigation	Canal. A manmade watercourse for inland navigation.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.5
5	91 SW	Aire and Calder Navigation	Canal. A manmade watercourse for inland navigation.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.5
6	91 SW	Aire and Calder Navigation	Canal. A manmade watercourse for inland navigation.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.5
25	91 SW	Aire and Calder Navigation	Canal. A manmade watercourse for inland navigation.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.5
26	91 SW	Aire and Calder Navigation	Canal. A manmade watercourse for inland navigation.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.5
27	91 SW	Aire and Calder Navigation	Canal. A manmade watercourse for inland navigation.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 29.5
7	138 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
28	138 SW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
8	177 NW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 27.2
9	177 NW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 9.6
29	177 NW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 27.2
30	177 NW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 9.6

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
10	256 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
31	256 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
11	377 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
32	377 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
12	415 NW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 25.7
33	415 NW	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 25.7
13	416 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 14.5
34	416 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 14.5
14	458 W	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
15	458 W	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 30.6
Not shown	458 W	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	458 W	River Aire	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): 30.6

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
16	462 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
37	462 NW	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
17	475 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided
Not shown	475 SE	-	Inland river not influenced by normal tidal action.	Catchment Area: Aire and Calder Relationship to Ground Level: On ground surface Permanence: Watercourse contains water year round (in normal conditions) Average Width in Watercourse Section (m): Not Provided

6.11 Surface Water Features

Surface water features within 250m of the study site

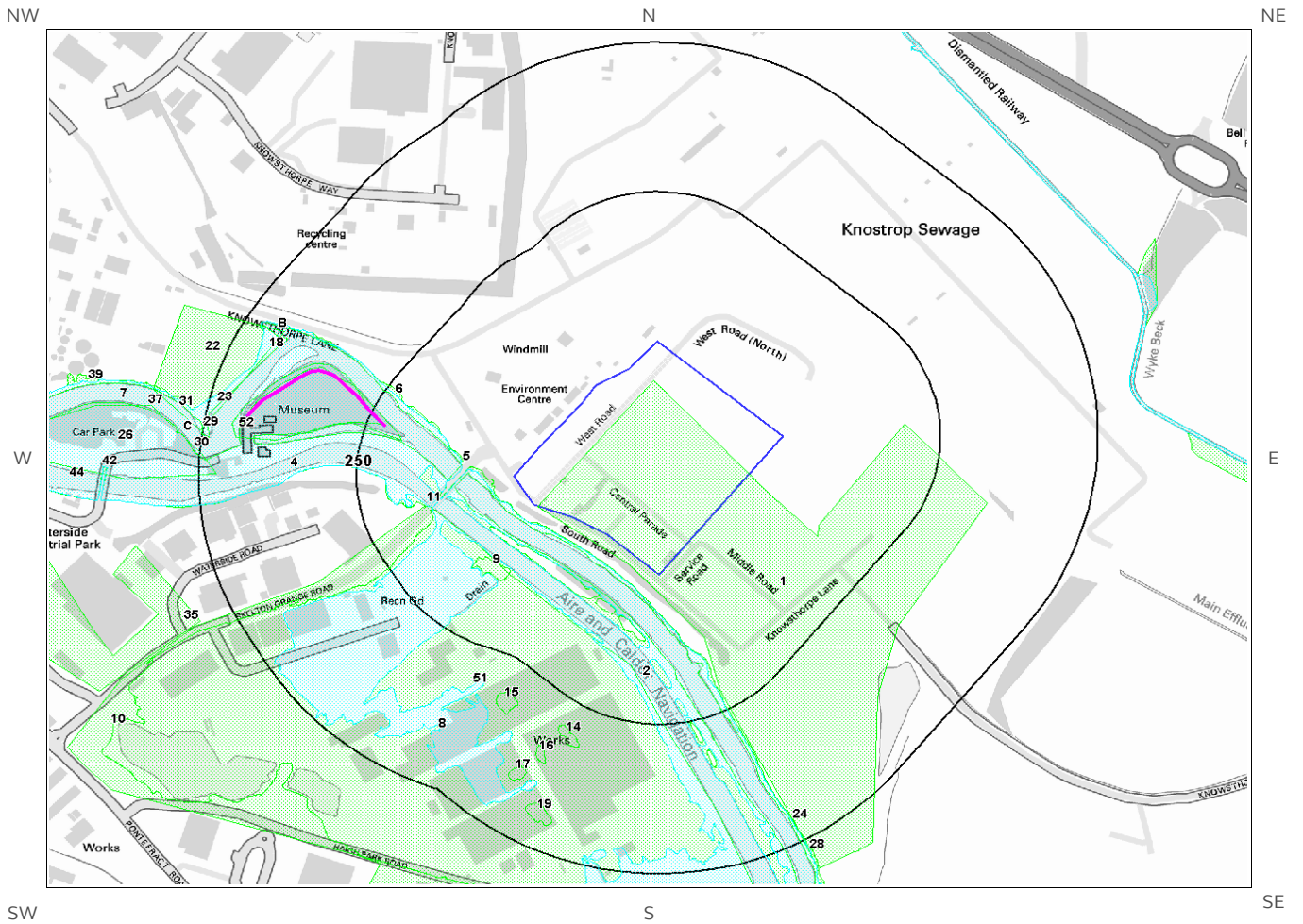
Identified

The following surface water records are not represented on mapping:

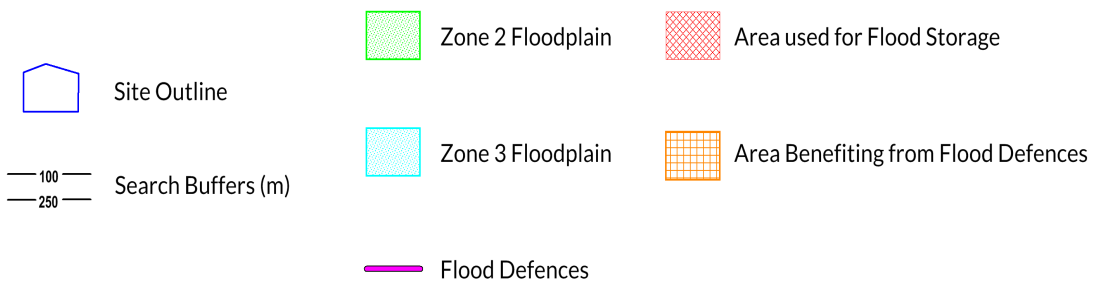
Distance (m)	Direction
32	SW
77	SW
83	W
127	W
138	SW
209	NW
226	NW



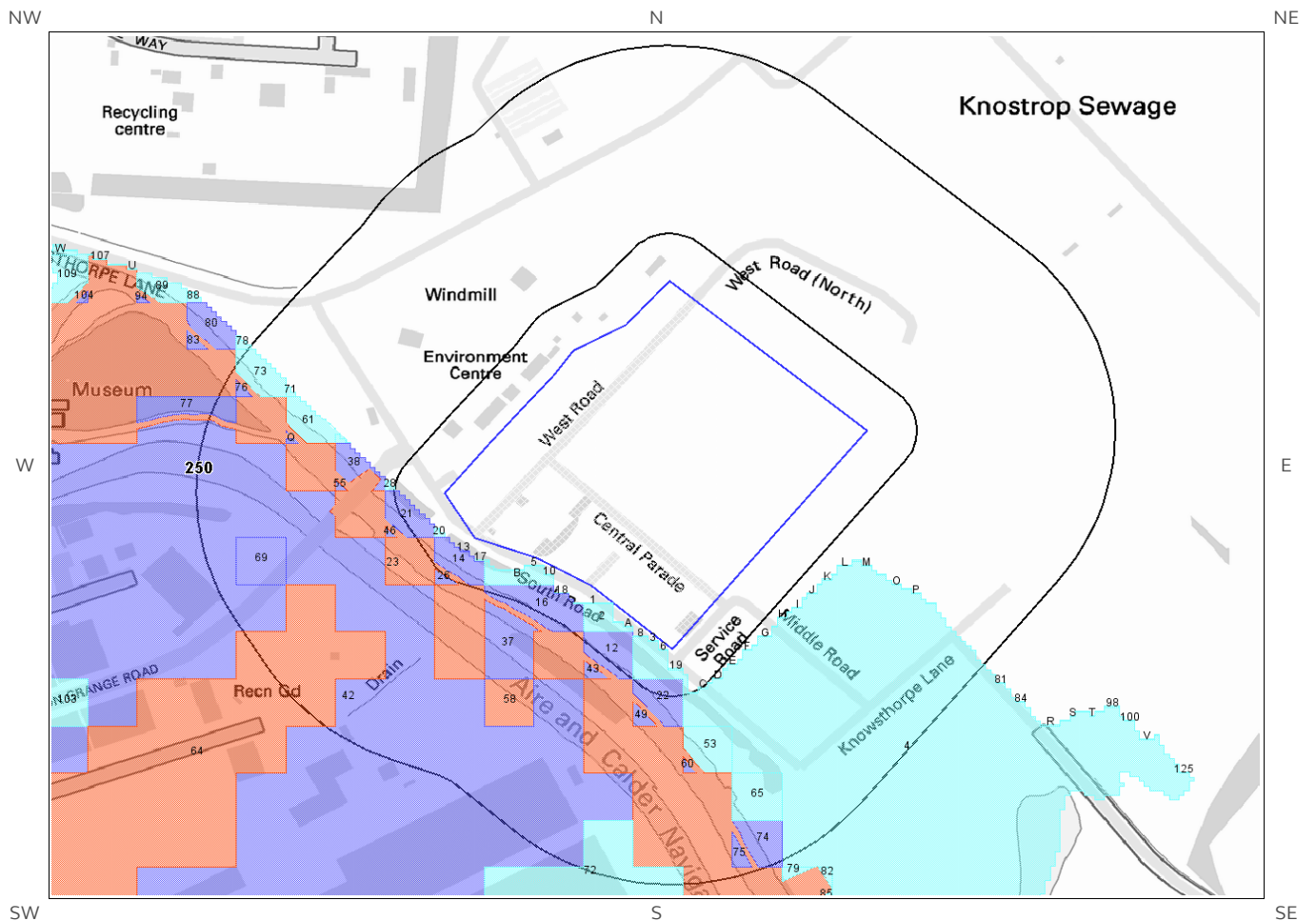
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



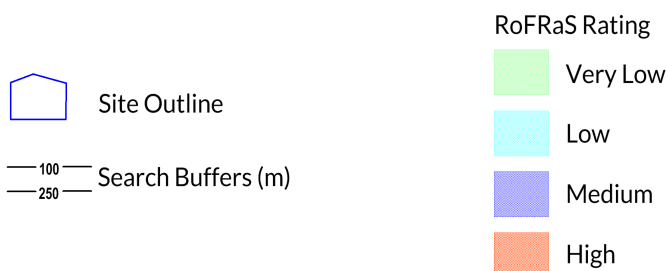
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m

Identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

ID	Distance (m)	Direction	Update	Type
1	0	On Site	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
2	27	S	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
3	33	SW	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
4	85	W	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
5	85	W	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
6	86	W	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
7	86	W	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
8	110	SW	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
9	113	SW	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
10	141	SW	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
11	143	W	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
12A	189	W	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)
13A	223	NW	19-Mar-2018	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m

Identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

ID	Distance (m)	Direction	Update	Type
1	29	SW	19-Mar-2018	Zone 3 - (Fluvial Models)
2	85	W	19-Mar-2018	Zone 3 - (Fluvial Models)

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite

Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Low (greater than 1 in 1000 but less than 1 in 100) chance of flooding in any given year.

Any relevant data within 250m is represented on the RoFRaS Flood map. Data to 50m is reported in the table below.

ID	Distance (m)	Direction	RoFRaS flood Risk
1	0.0	On Site	Low
2	0.0	SW	Low
3	2.0	SW	Low
4	3.0	SW	Low
5	3.0	SW	Low
6	3.0	SW	Low
7B	4.0	SW	Low
8	4.0	SW	Low
9A	6.0	SW	Low
10	7.0	SW	Low
11A	9.0	SW	Low
12	11.0	SW	Medium
13	14.0	SW	Medium
14	15.0	S	Medium
15B	16.0	S	Low
16	17.0	SW	Medium
17	17.0	S	Low
18	18.0	SW	Low
19	20.0	S	Low

20	23.0	SW	Low
21	26.0	SW	Medium
22	31.0	S	Medium
23	34.0	SW	High
24C	47.0	SE	Low
25C	48.0	S	Low
26	49.0	SW	Medium
27C	50.0	SE	Low
28	50.0	W	Low
29D	50.0	SE	Low

7.4 Flood Defences

Flood Defences within 250m of the study site Identified

The following flood defence records are represented as lines on the Flood Map:

ID	Distance (m)	Direction	Update
55	220	W	27-Feb-2018

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site None identified

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site Identified

Clearwater Flooding or Superficial Deposits Flooding Clearwater & Superficial Deposits Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).



7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

7.8 Groundwater Flooding Confidence Areas

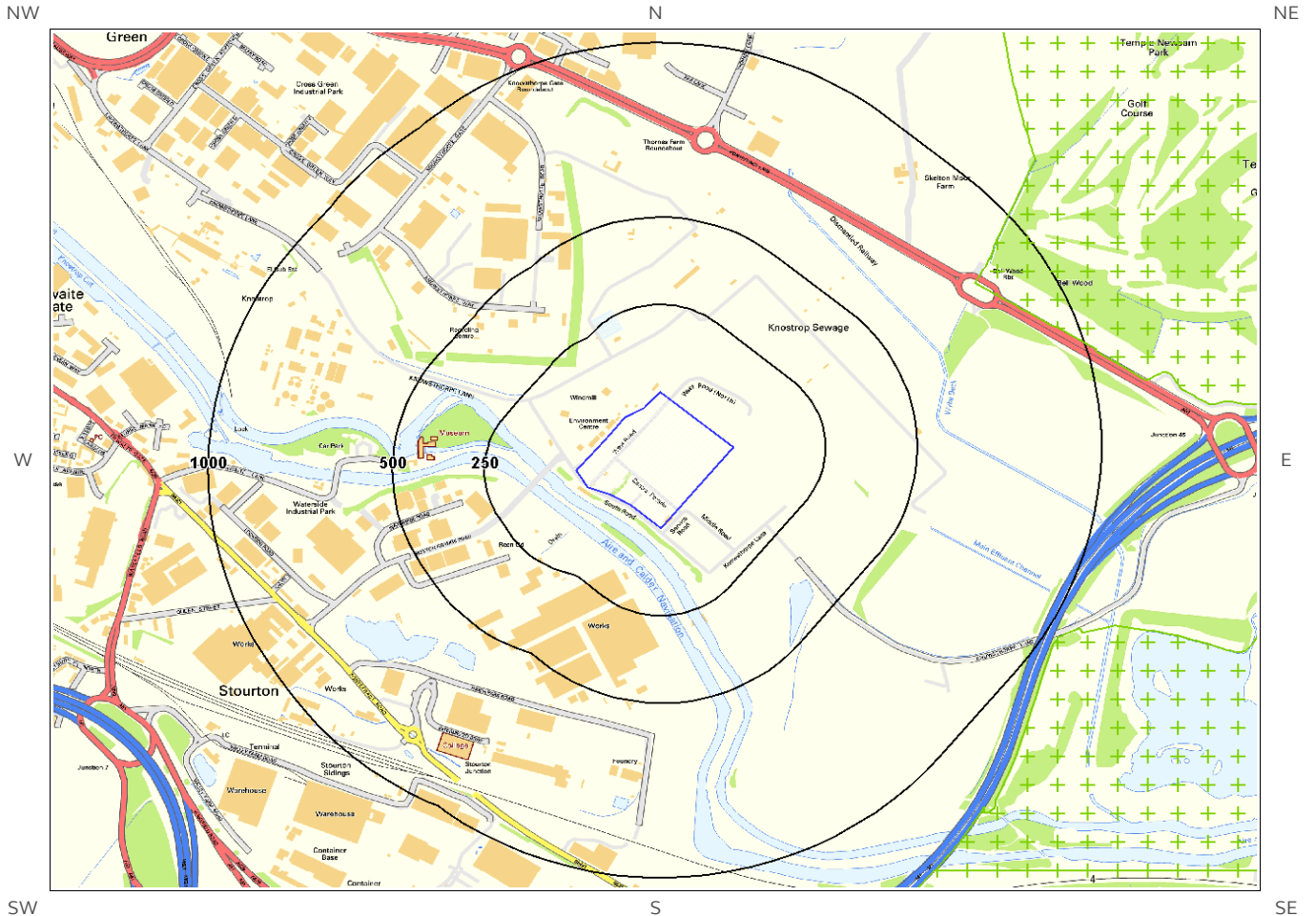
British Geological Survey confidence rating in this result

Low

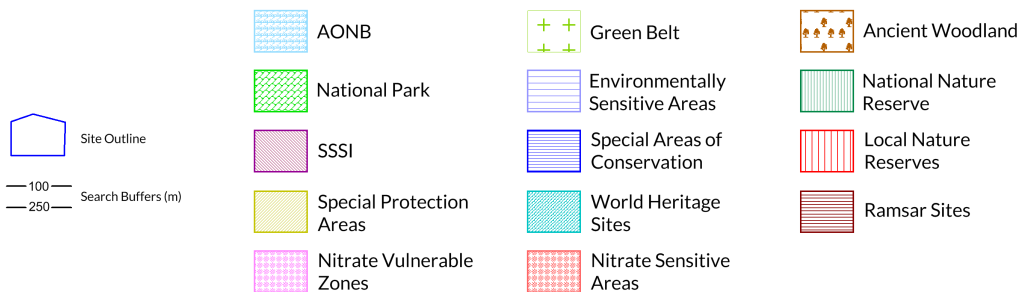
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site

Identified

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

Database searched and no data found.

0

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

1

ID	Distance (m)	Direction	LNR Name	Data Source
Not shown	1306	N	Halton Moor	Natural England

8.8 Records of World Heritage Sites within 2000m of the study site:

Database searched and no data found.

0

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

Database searched and no data found.

0

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

Database searched and no data found.

0

8.11 Records of National Parks (NP) within 2000m of the study site:

Database searched and no data found.

0

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

1

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
Not shown	1813	S	Existing	DEFRA

8.14 Records of Green Belt land within 2000m of the study site:

2

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

ID	Distance	Direction	Green Belt Name	Local Authority Name
3	808	NE	Liverpool, Manchester and West Yorks Greenbelt	Leeds
4	1230	SE	Liverpool, Manchester and West Yorks Greenbelt	Leeds

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from our [website](#). The following information has been found:

9.1.1 Shrink Swell

Maximum Shrink-Swell** hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property no significant increase in insurance risk due to natural slope instability problems.

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site

Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site

Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property no significant increase in insurance risk due to running sand problems is likely.

* This indicates an automatically generated 50m buffer and site.

9.2.1 Radon Affected Areas

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 not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

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? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

None identified

Database searched and no data found.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.

Contact Details

emapsite
Telephone: 0118 9736883
sales@emapsite.com

British Geological Survey Enquiries

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:

Web: www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Environment Agency

National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506

Web: www.environment-agency.gov.uk

Email: enquiries@environment-agency.gov.uk

Public Health England

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe

Email: enquiries@phe.gov.uk
Main switchboard: 020 7654 8000

The Coal Authority

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey

Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority

Authority: Leeds City Council
Phone: 0113 222 4444
Web: <http://www.leeds.gov.uk/>
Address: Civic Hall, Calverley Street, Leeds, LS1 1UR

Gemapping PLC

Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

emapsite™



Public Health England



The Coal Authority





Groundsure

LOCATION INTELLIGENCE

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<https://www.groundsure.com/terms-and-conditions-sept-2016>

Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
 Report Ref: EMS-479320_642782
 Grid Ref: 433423, 431177

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
 Revised N/A
 Edition 1893
 Copyright N/A
 Levelled N/A



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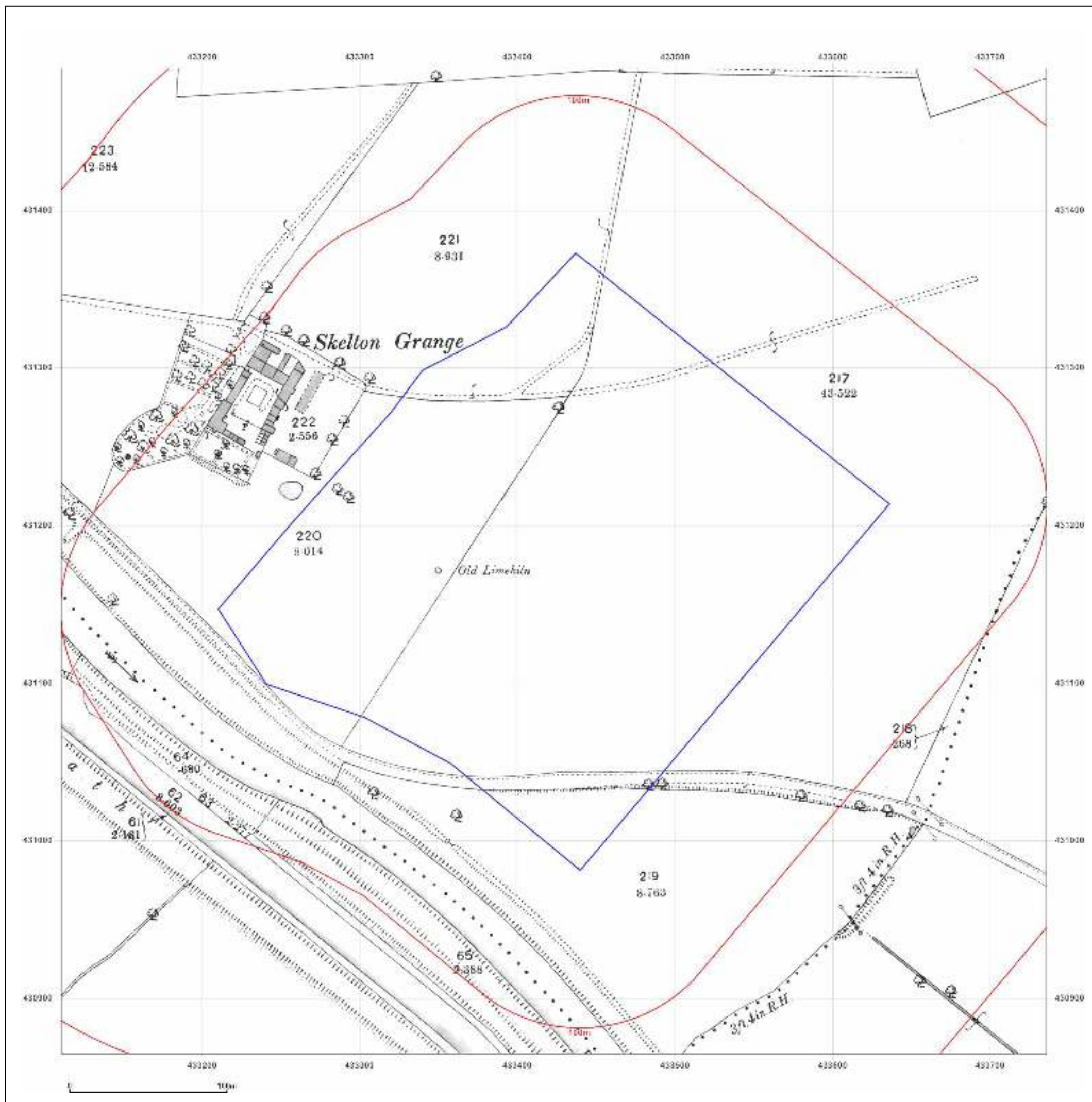


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Production date: 21 May 2018

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: County Series

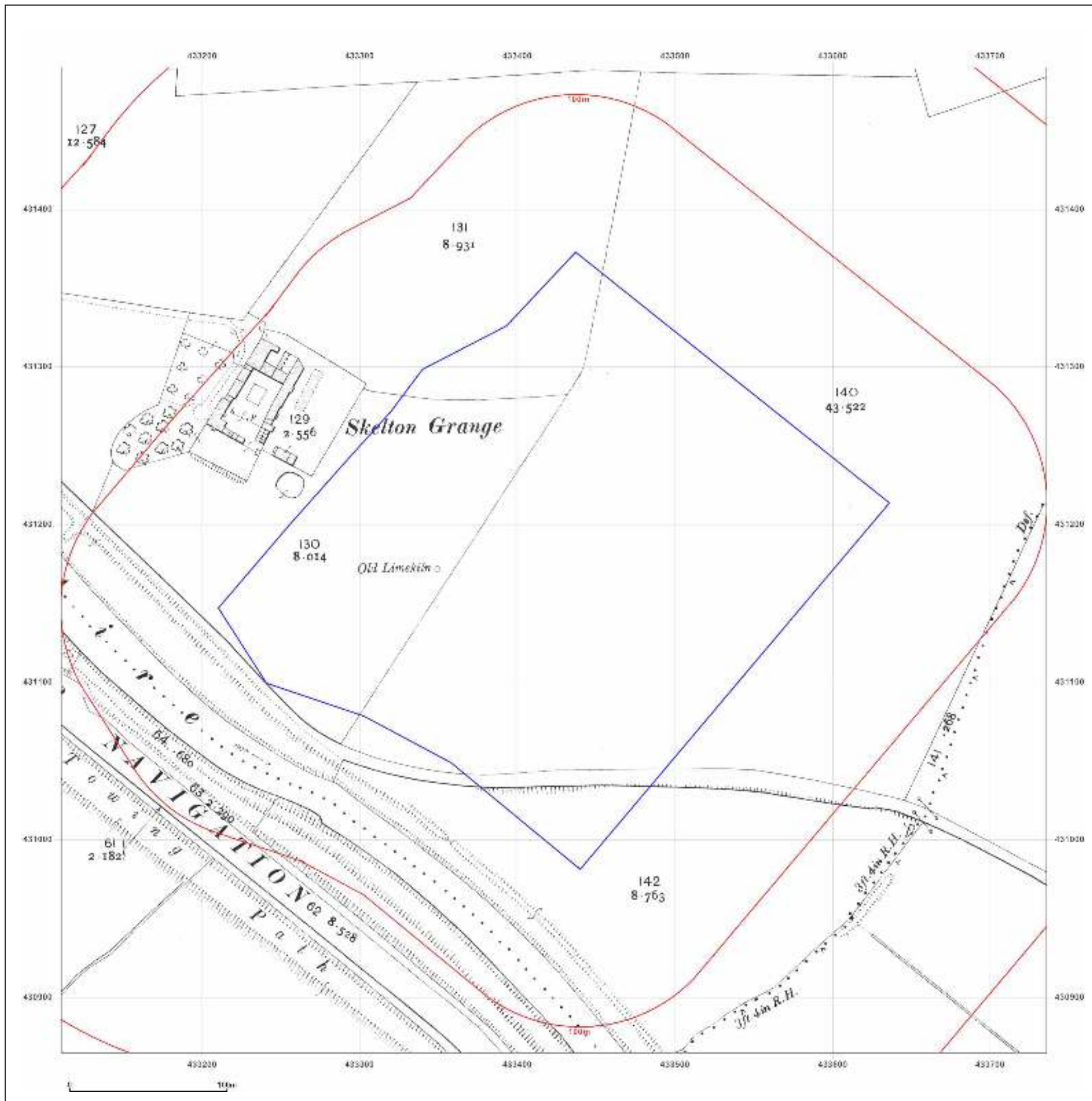
Map date: 1908

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1888
Revised 1908
Edition 1908
Copyright N/A
Levelled N/A



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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: County Series

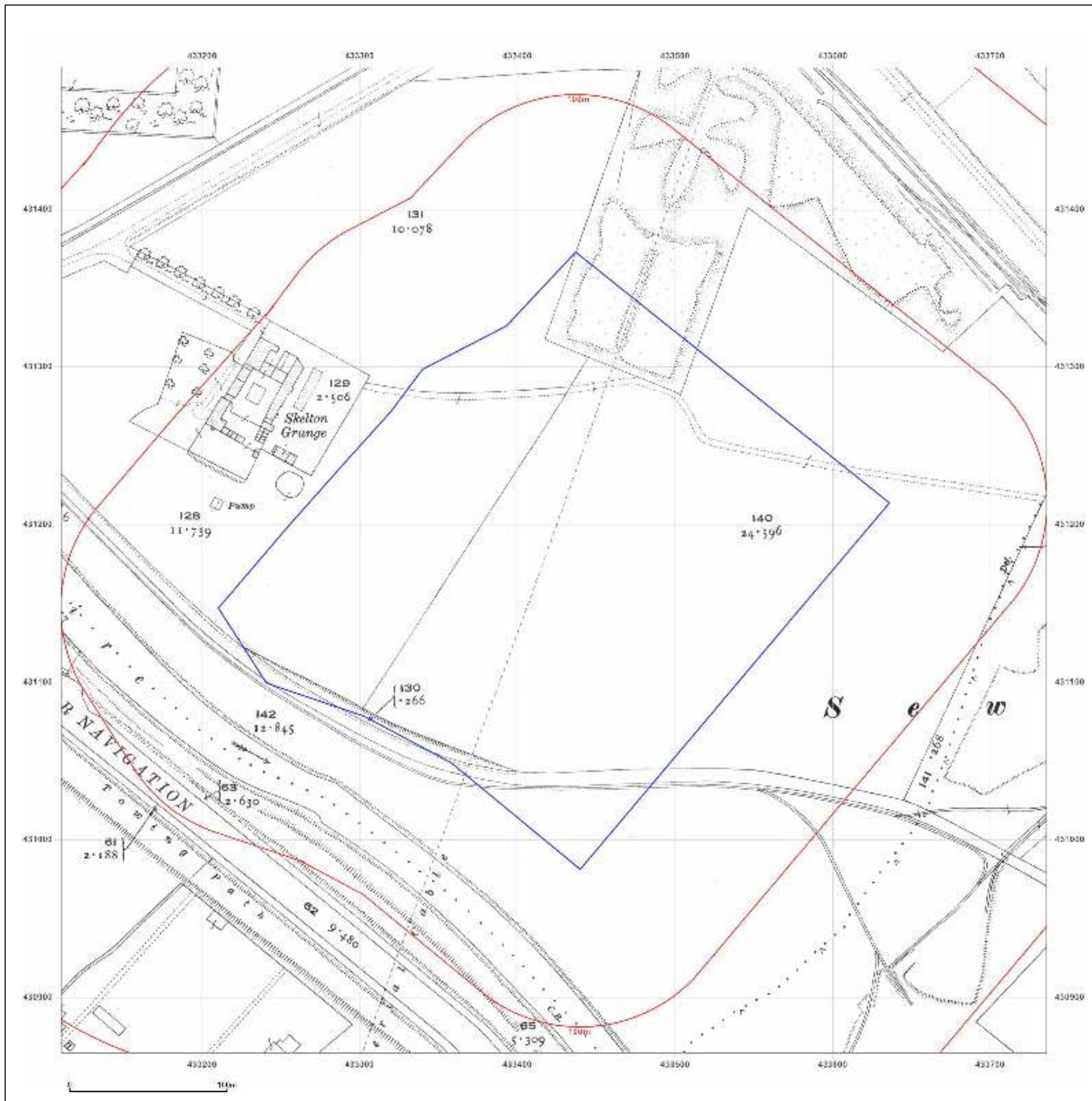
Map date: 1929

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1851
Revised 1921
Edition 1929
Copyright NGA
Levelled 1928



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Map legend available at:
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: County Series

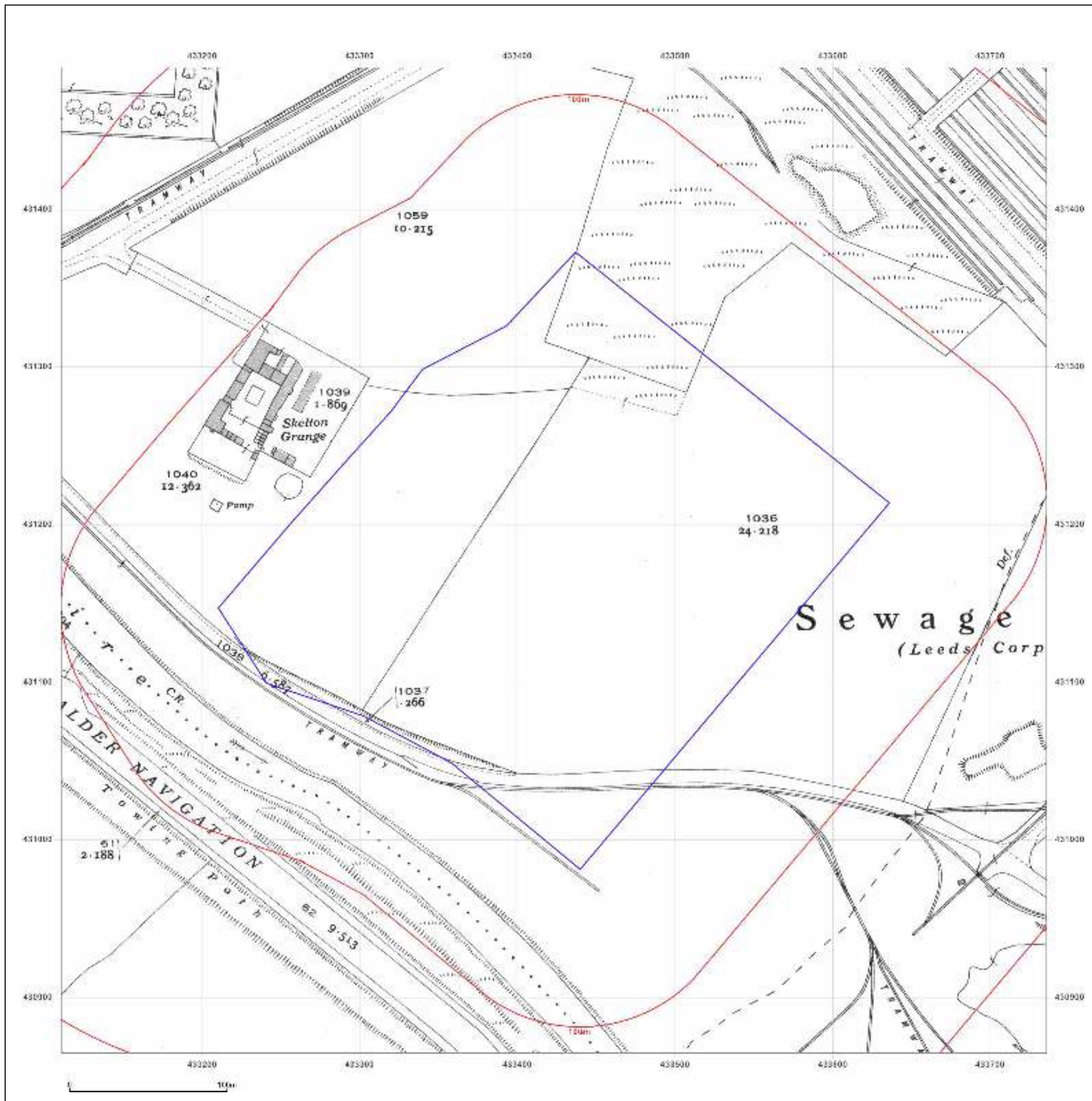
Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
Revised 1932
Edition N/A
Copyright N/A
Levelled 1932



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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1951

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1951
 Revised 1951
 Edition N/A
 Copyright 1957
 Licensed 1949

Surveyed 1951
 Revised 1951
 Edition N/A
 Copyright 1957
 Licensed 1931



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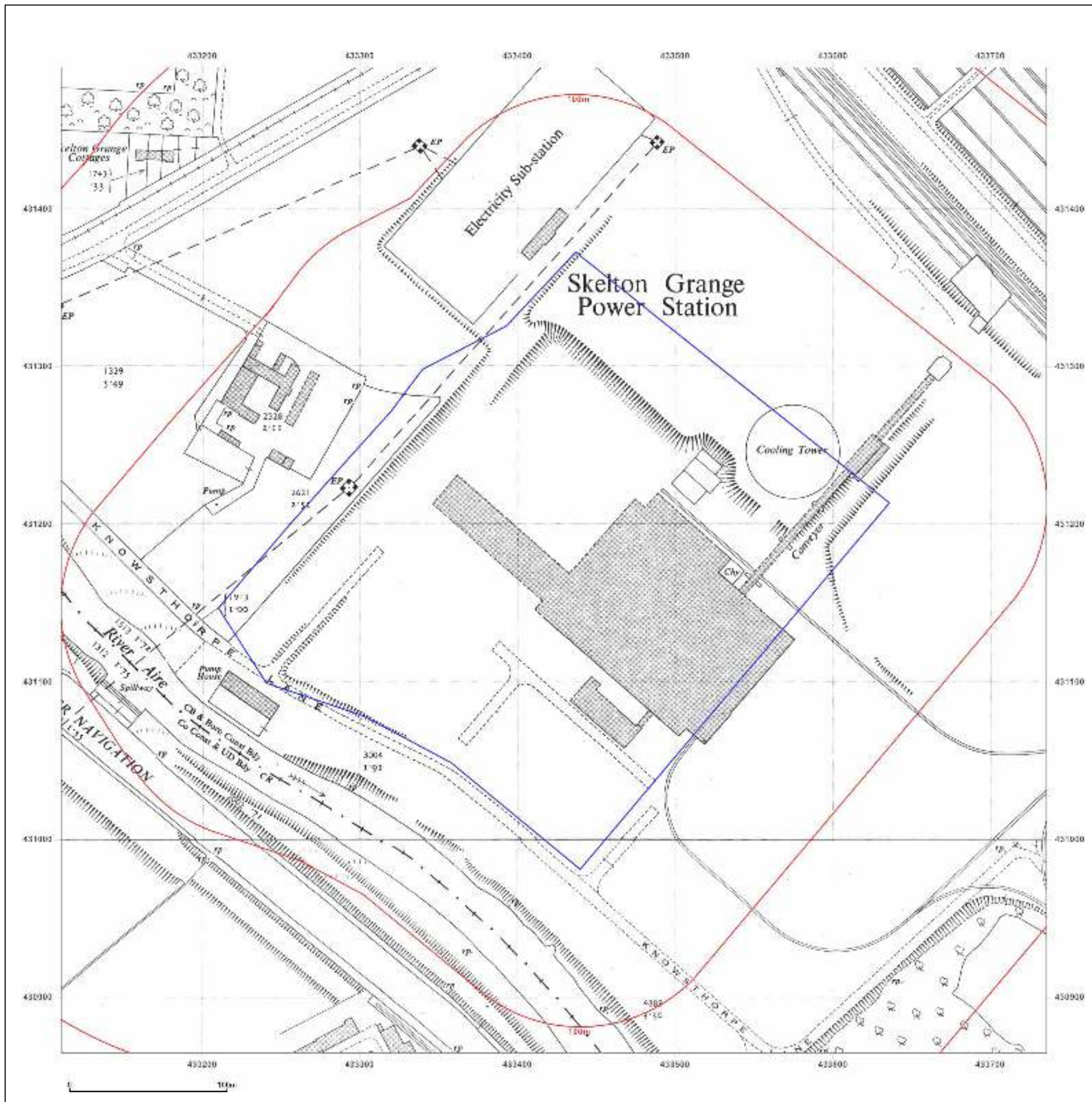


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Production date: 21 May 2018

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1963-1967

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised 1963
Edmon N/A
Copyright 1964
Levelled 1963

Surveyed 1961
Revised 1967
Edmon N/A
Copyright 1969
Levelled 1963



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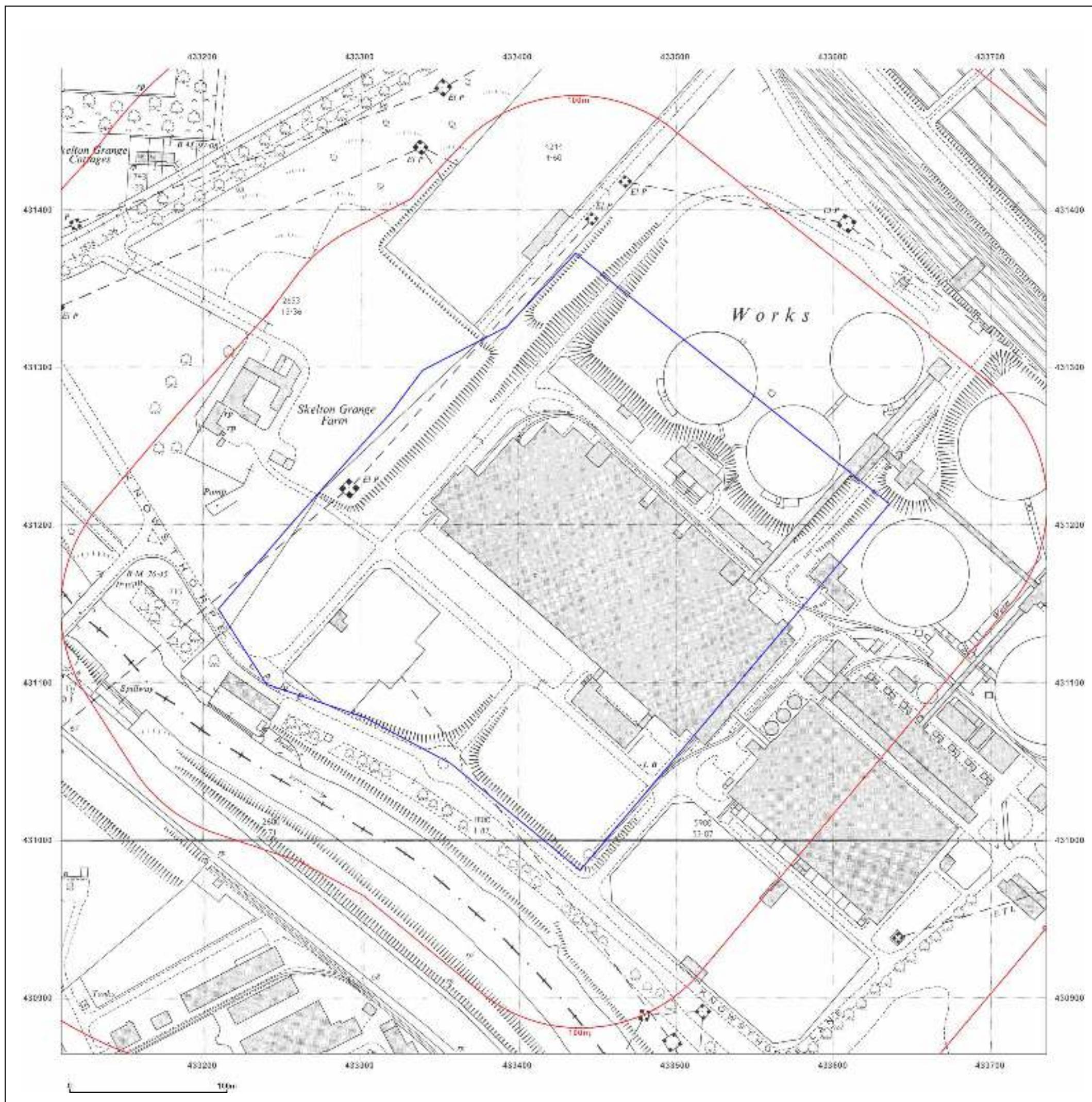


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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1964-1969

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Heavens N/A
Folton N/A
Copyright N/A
Lavalan N/A

Surveyed N/A
Heavens 1858
Folton N/A
Copyright 1989
Lavalan 1853



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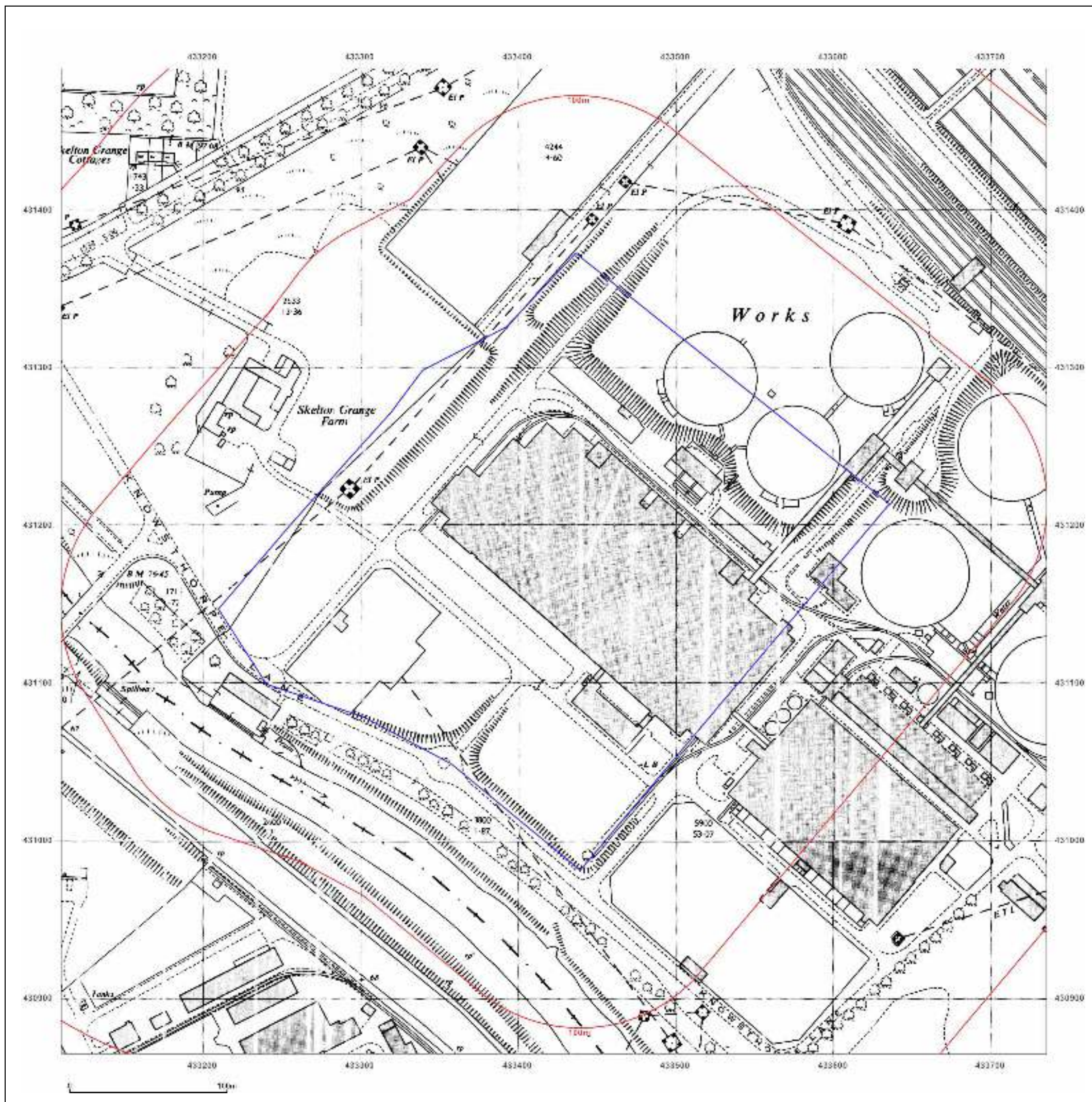


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Site Details:

Land at Skelton Grange

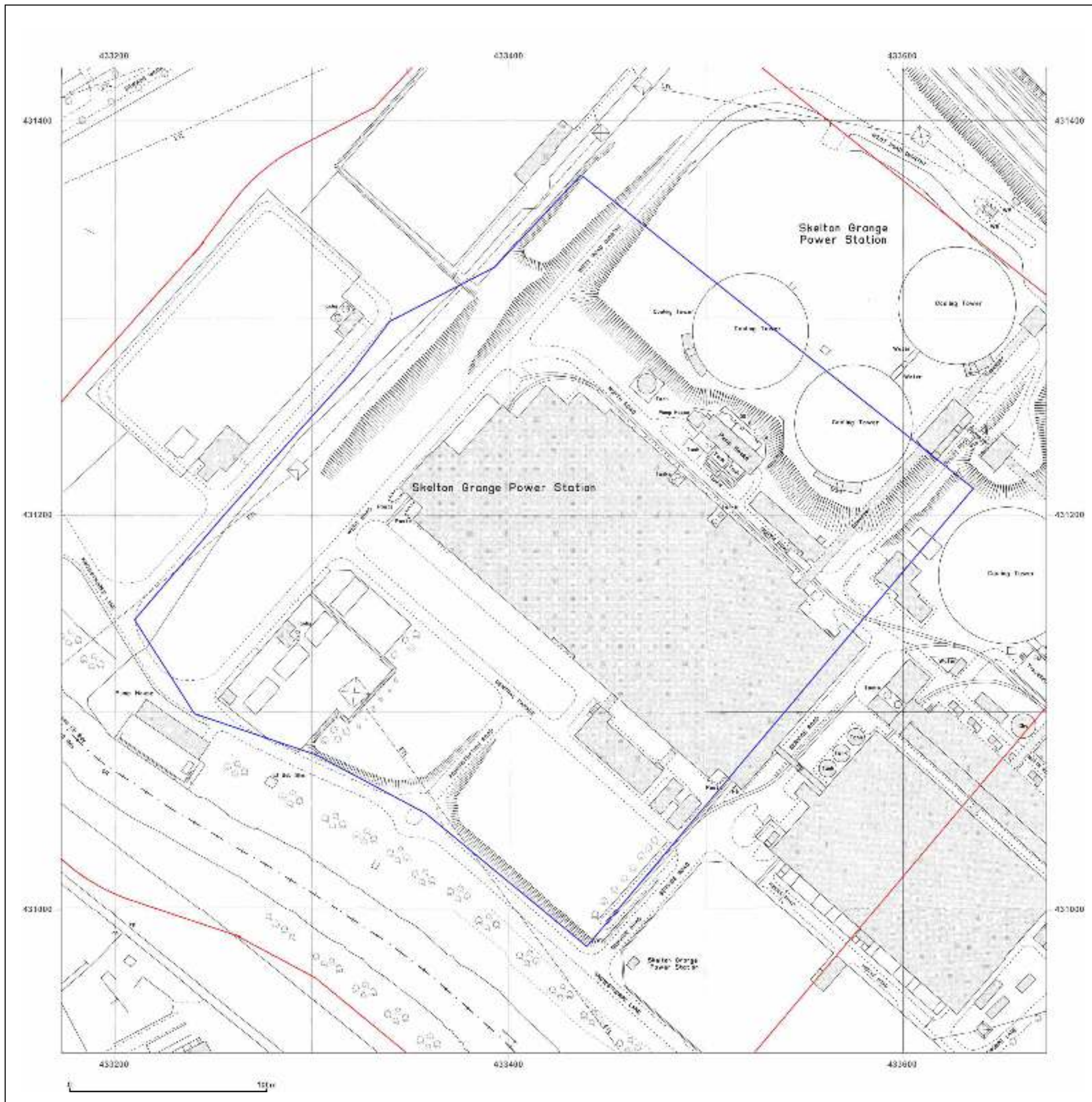
Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1973
 Revised 1973
 Edition N/A
 Copyright 1974
 Levelled 1983

Surveyed 1973
 Revised 1973
 Edition N/A
 Copyright 1974
 Levelled 1983

Surveyed 1973
 Revised 1973
 Edition N/A
 Copyright 1974
 Levelled 1983

Surveyed 1973
 Revised 1973
 Edition N/A
 Copyright 1974
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A



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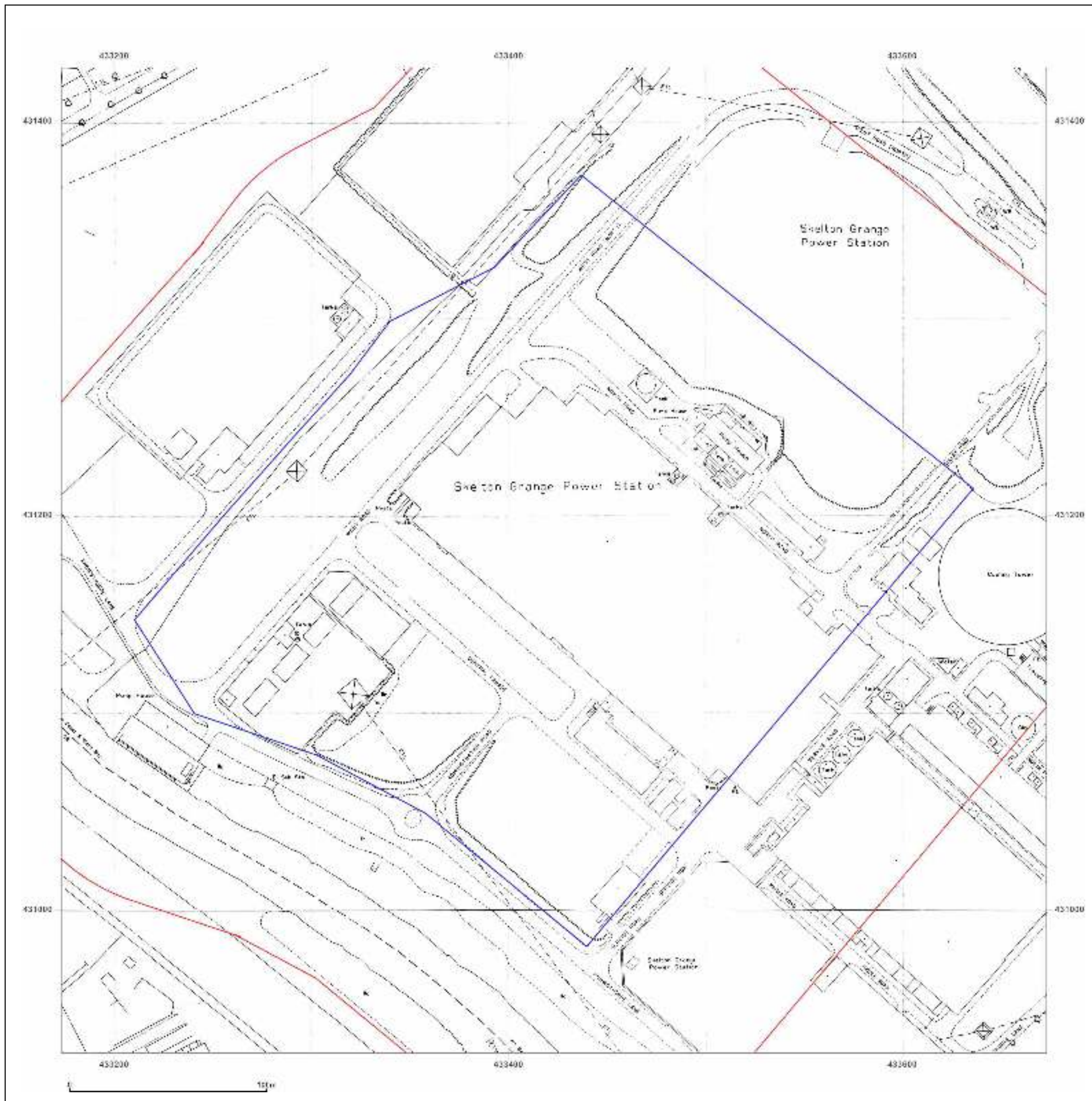


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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

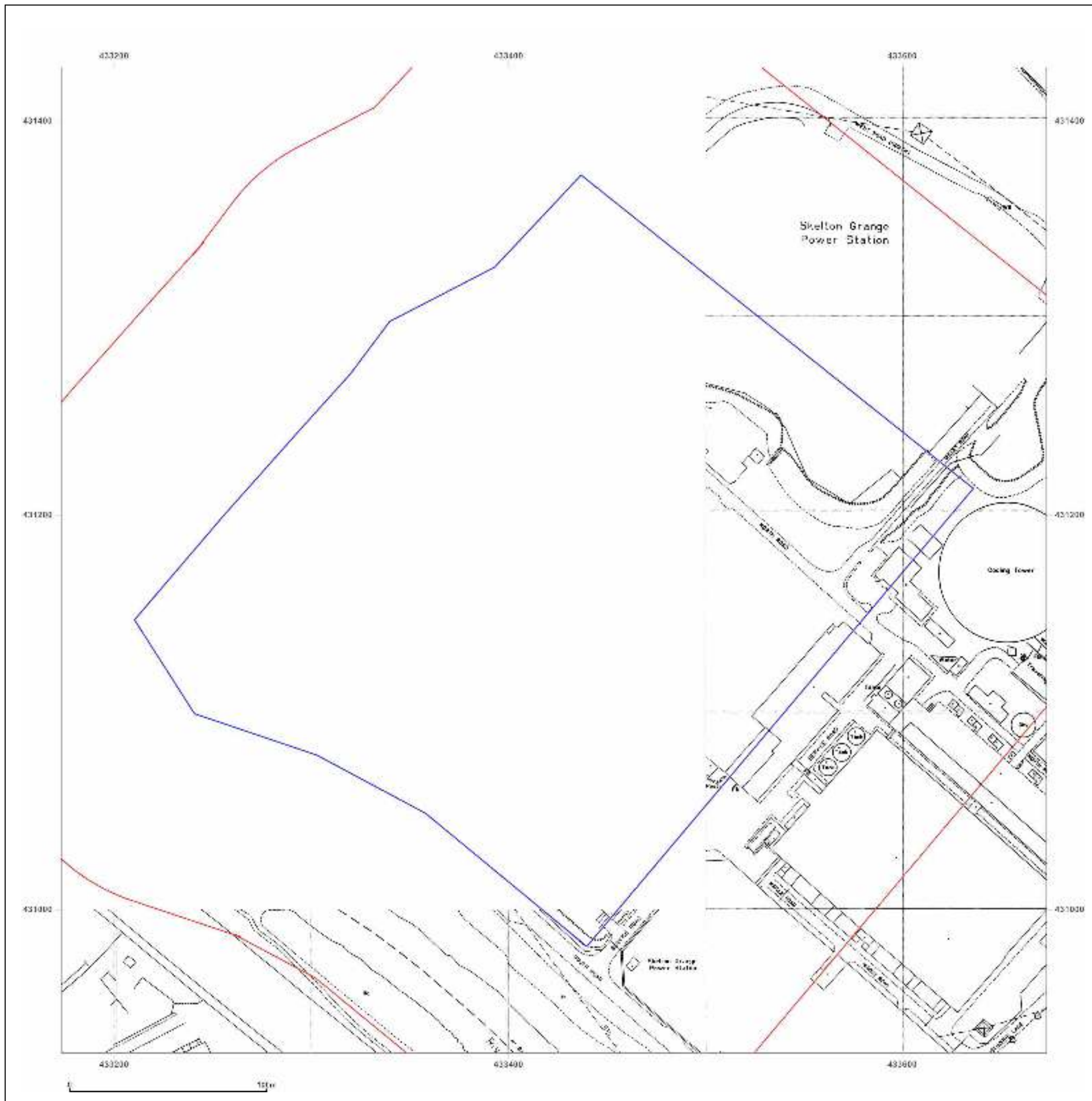
Printed at: 1:2,000



Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

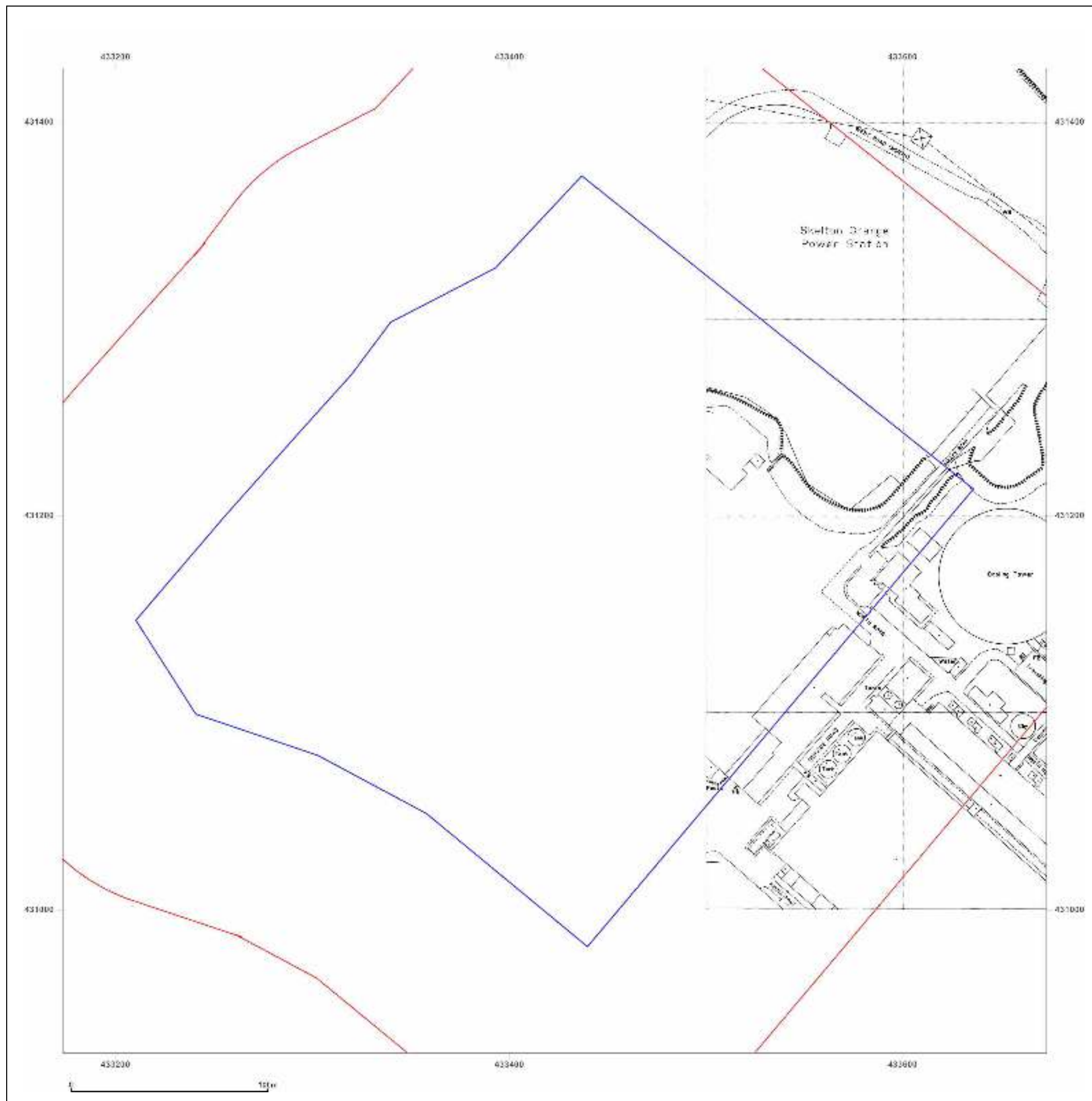
Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
Revised 1995
Edition N/A
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

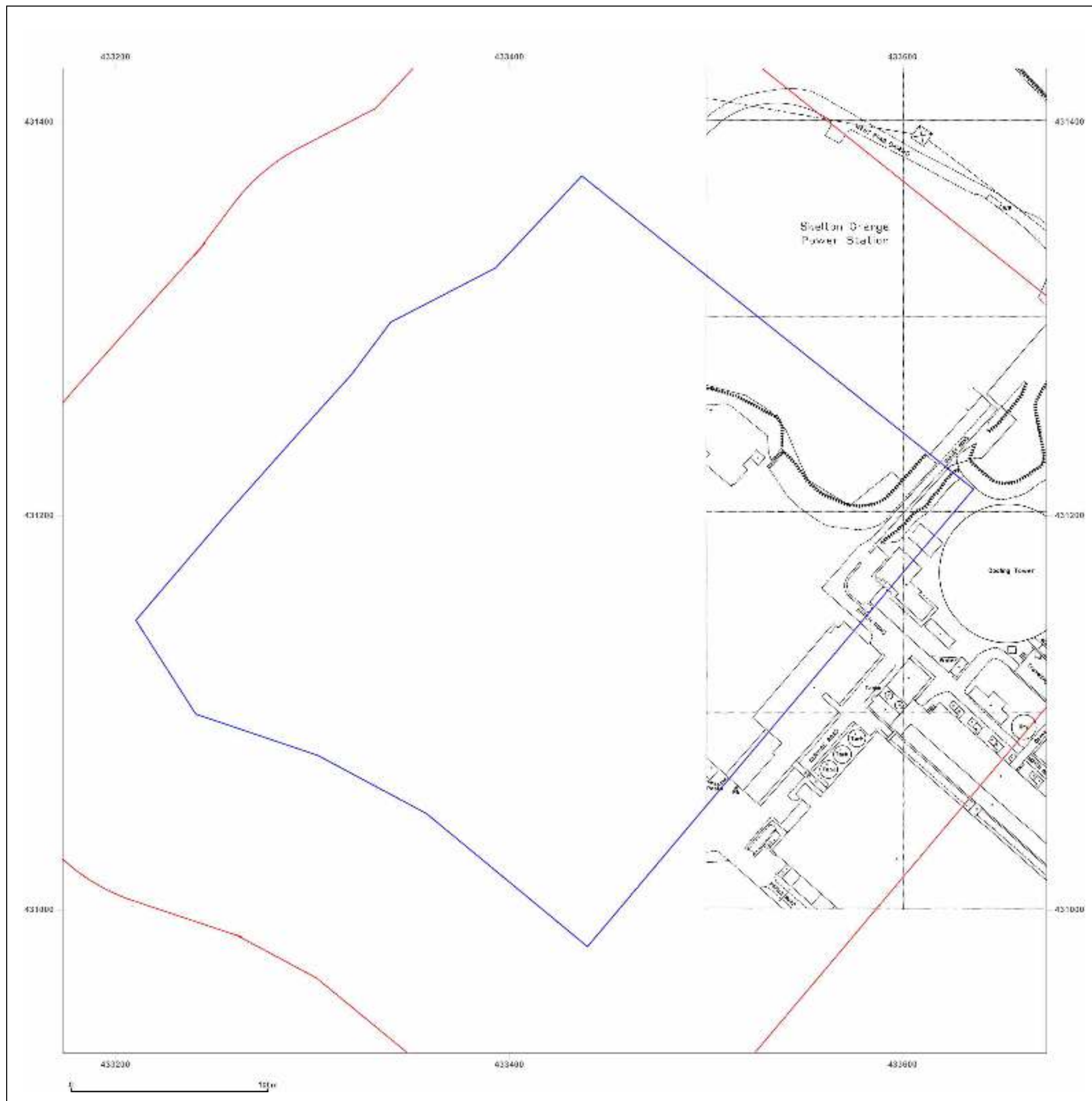
Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782

Report Ref: EMS-479320_642782

Grid Ref: 433423, 431177

Map Name: County Series

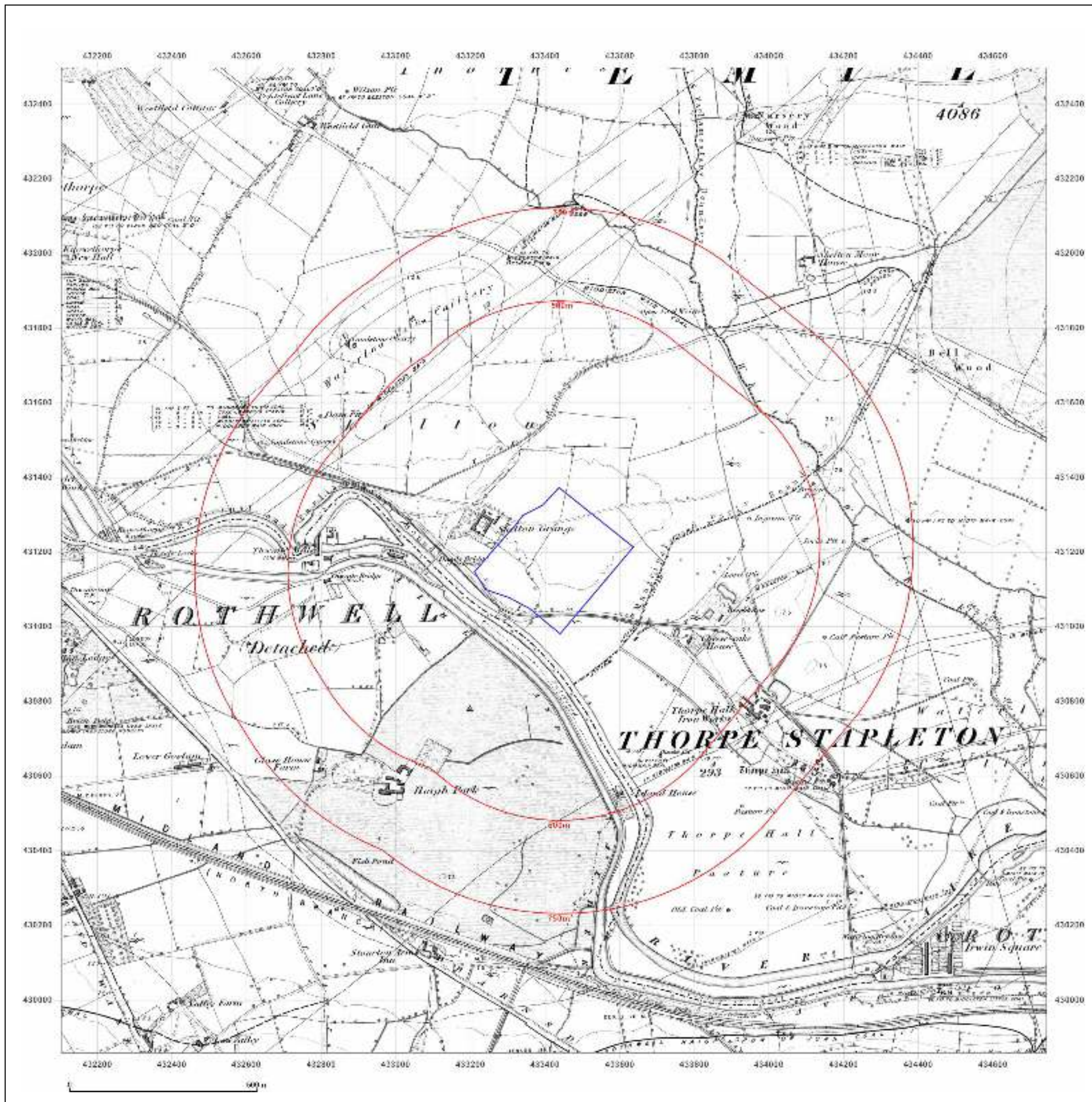
Map date: 1852

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Hewson N/A
Edith 1852
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Production date: 21 May 2018

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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: County Series

Map date: 1905-1906

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
 Revised 1906
 Edition 1906
 Copyright N/A
 Levelled N/A

Surveyed 1847
 Revised 1906
 Edition 1906
 Copyright N/A
 Levelled N/A

Surveyed 1847
 Revised 1906
 Edition 1906
 Copyright N/A
 Levelled N/A

Surveyed 1881
 Revised 1905
 Edition 1905
 Copyright N/A
 Levelled N/A



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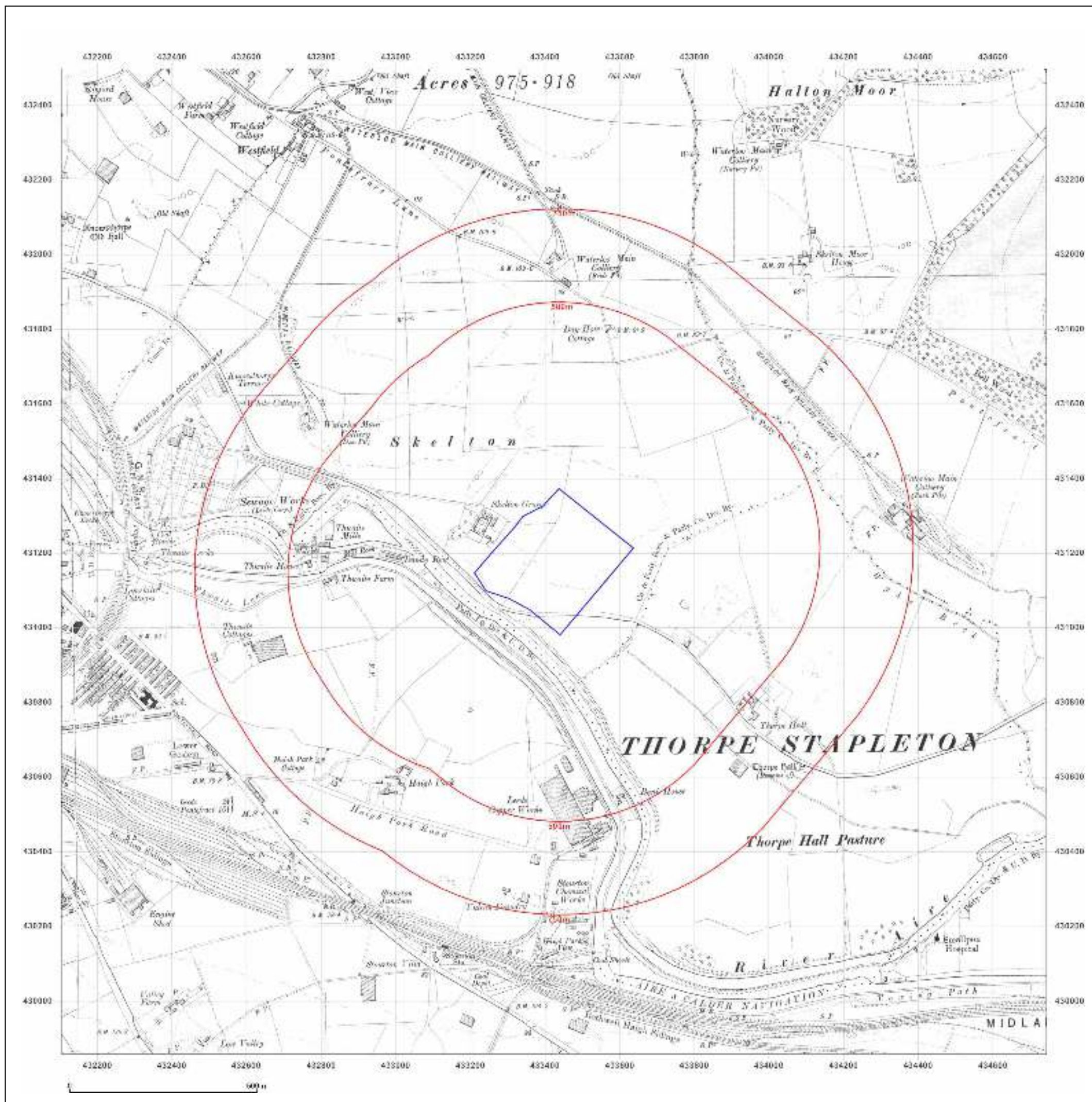


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Production date: 21 May 2018

Map legend available at:
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: County Series

Map date: 1932-1933

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised 1933
Edition 1933
Copyright N/A
Levelled 1929

Surveyed 1847
Revised 1933
Edition 1933
Copyright N/A
Levelled 1929

Surveyed 1847
Revised 1932
Edition 1932
Copyright N/A
Levelled 1929

Surveyed 1849
Revised 1932
Edition 1932
Copyright N/A
Levelled 1929



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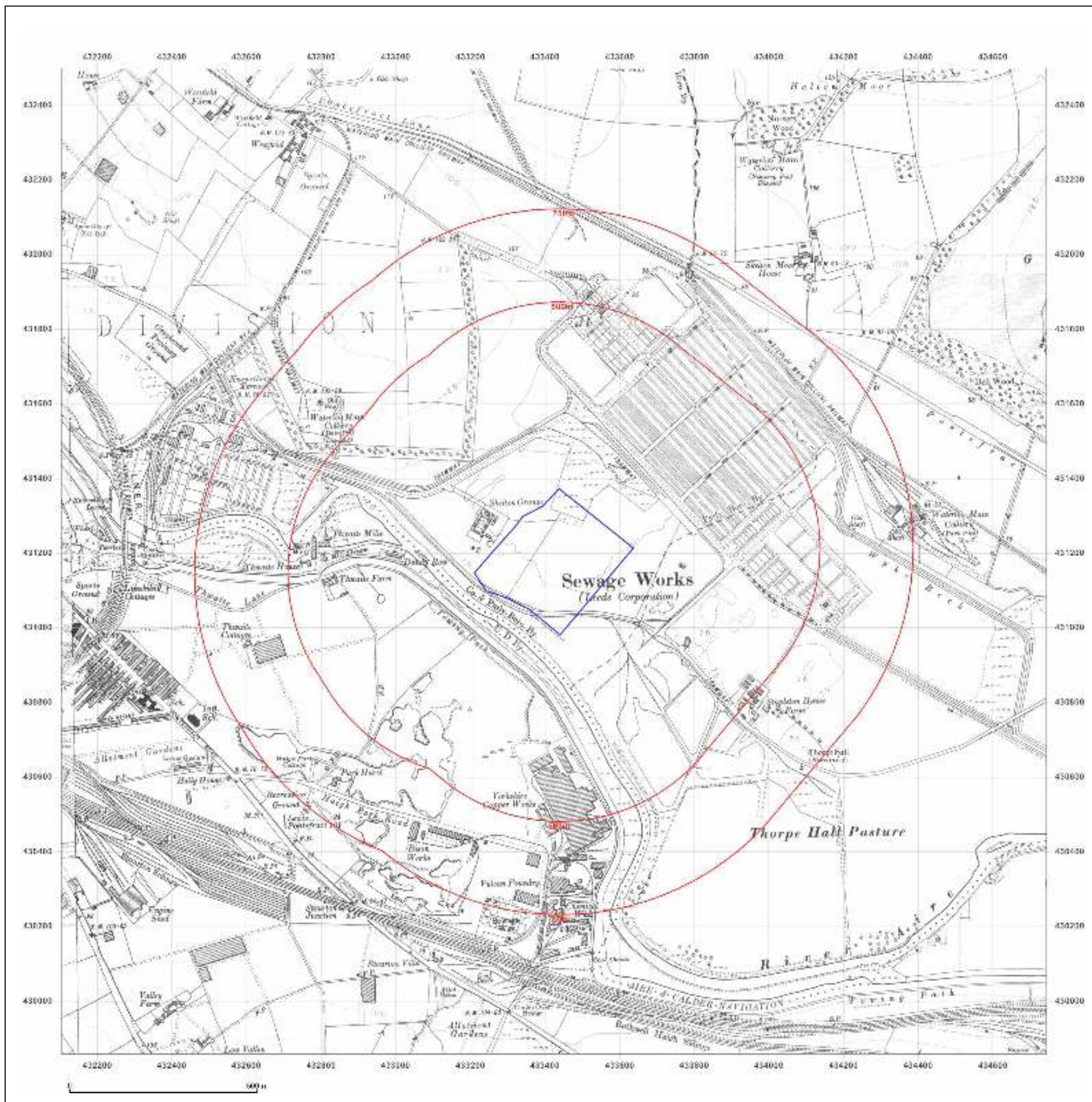


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Production date: 21 May 2018

Map legend available at:
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
 Report Ref: EMS-479320_642782
 Grid Ref: 433423, 431177

Map Name: County Series

Map date: 1938

Scale: 1:10,560

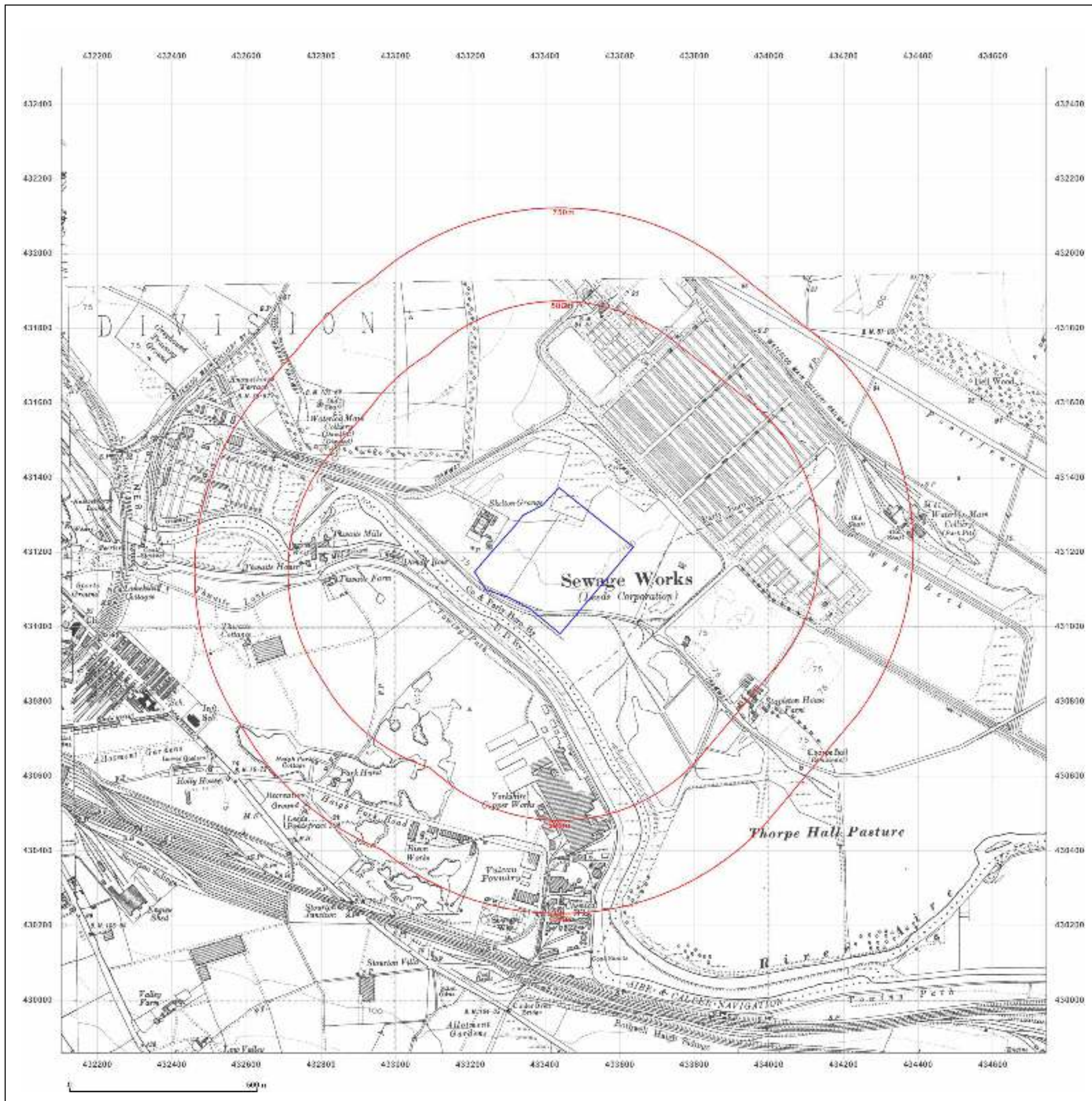
Printed at: 1:10,560



Surveyed 1847
 Revised 1938
 Edition 1938
 Copyright N/A
 Levelled 1929

Surveyed 1847
 Revised 1938
 Edition 1938
 Copyright N/A
 Levelled 1929

Surveyed 1819
 Revised 1938
 Edition 1938
 Copyright N/A
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
 Report Ref: EMS-479320_642782
 Grid Ref: 433423, 431177

Map Name: County Series

Map date: 1948-1949

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
 Revised 1949
 Edition 1949
 Copyright N/A
 Levelled 1929

Surveyed 1949
 Revised 1949
 Edition 1949
 Copyright N/A
 Levelled 1929



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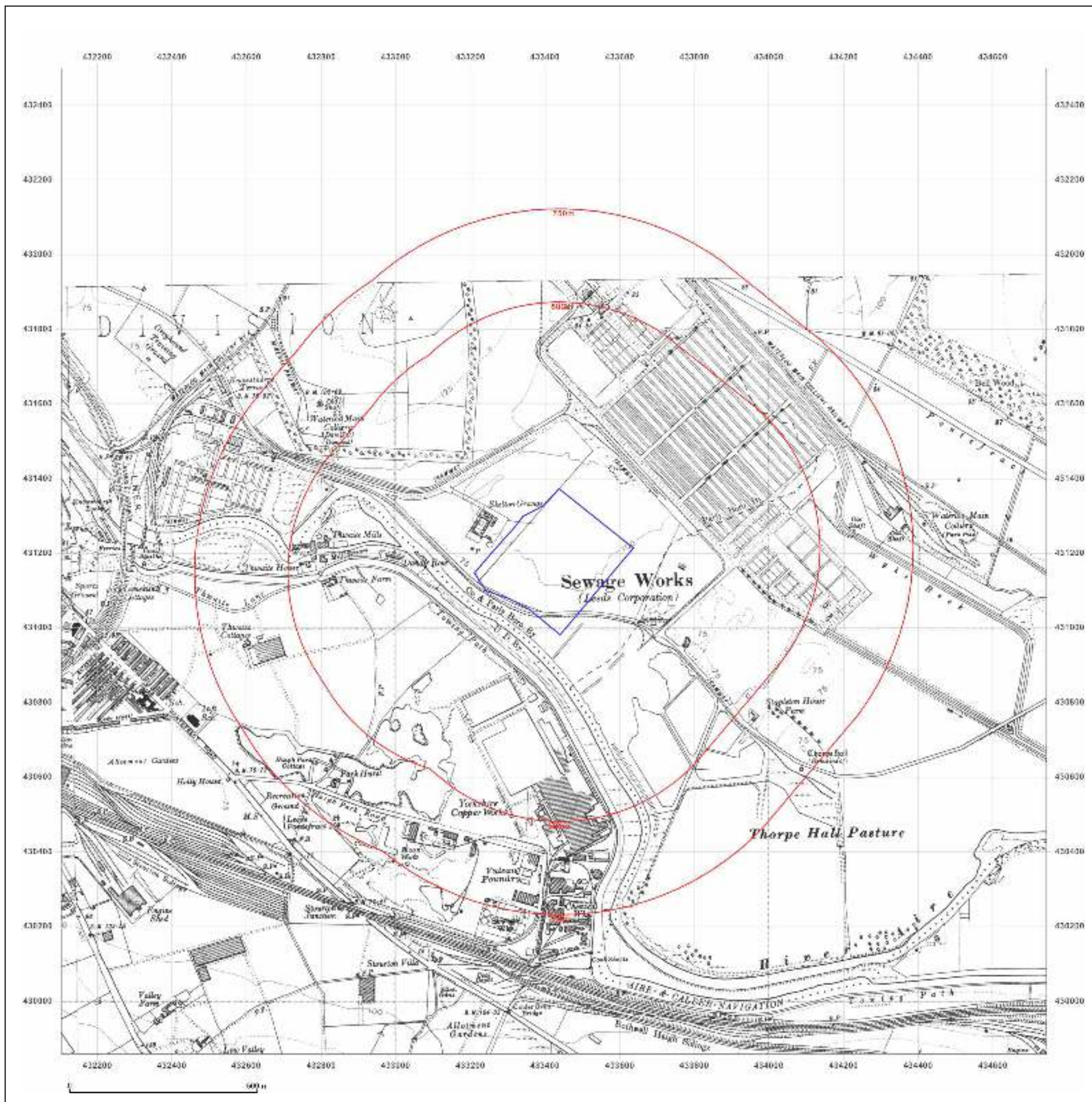


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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1946
Revised 1966
Edn N/A
Copyright 1956
Levelled N/A

Surveyed 1946
Revised 1966
Edn N/A
Copyright 1956
Levelled N/A



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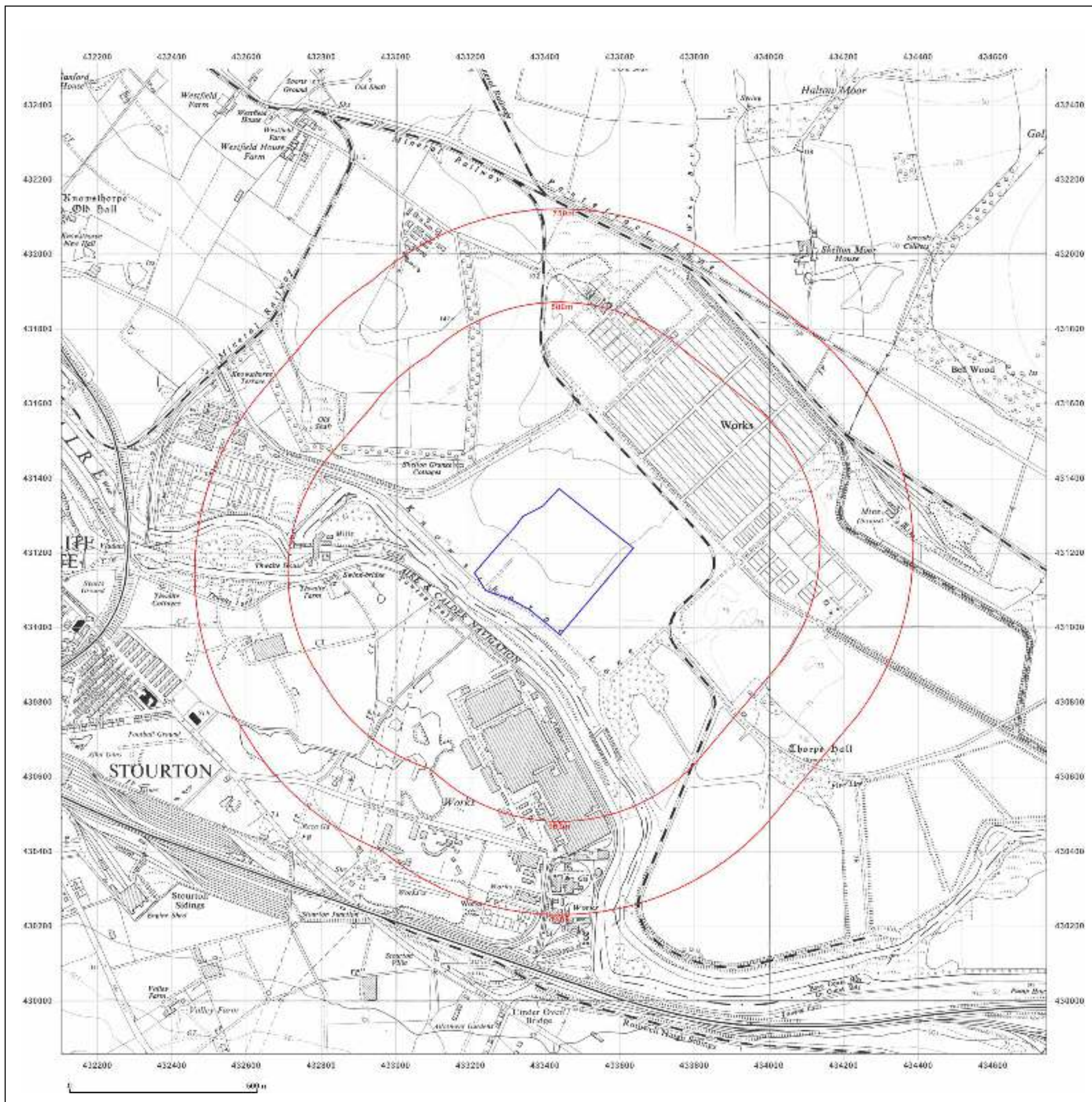


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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782

Report Ref: EMS-479320_642782

Grid Ref: 433423, 431177

Map Name: Provisional

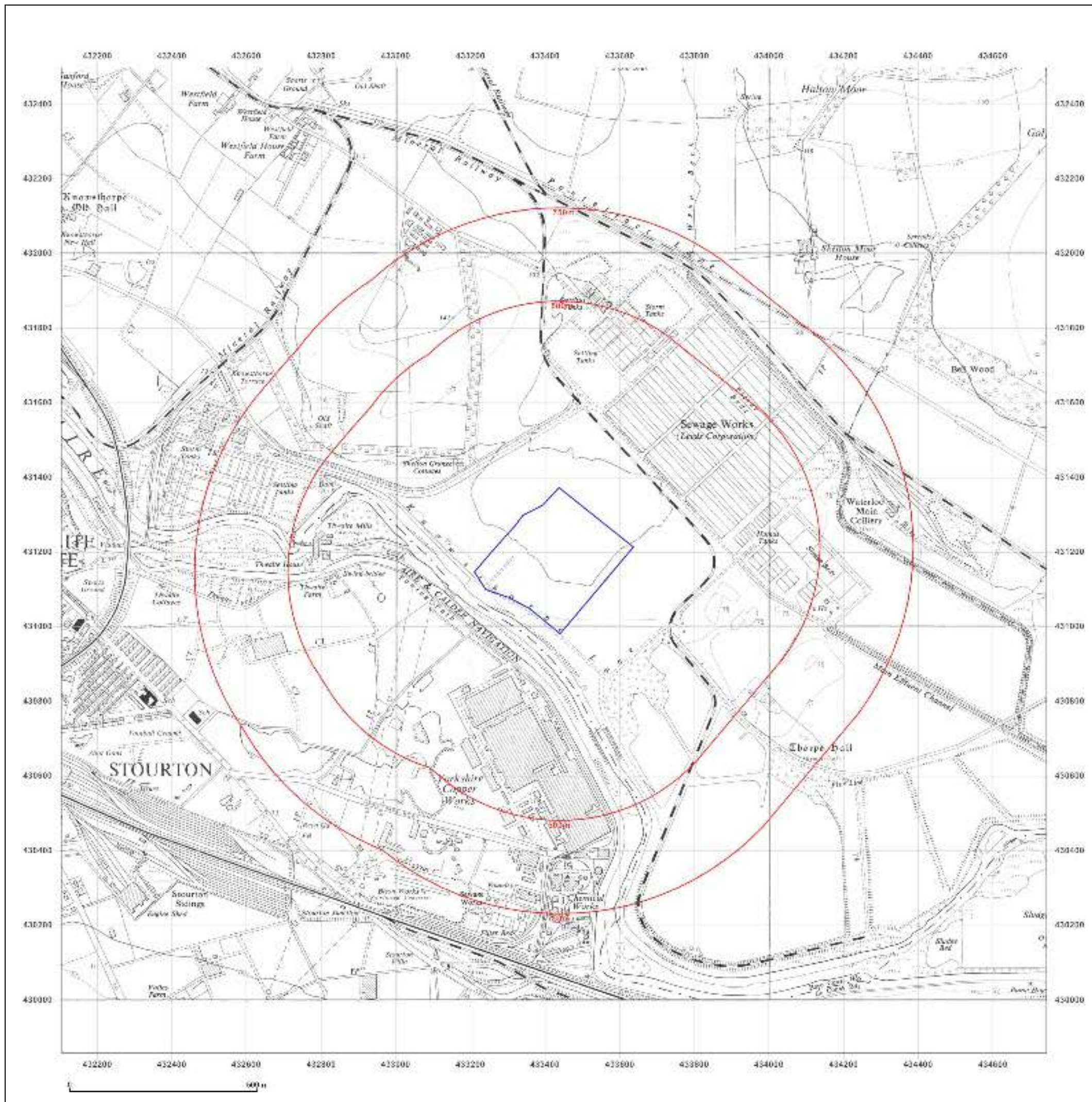
Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1956
Revised 1966
Edn N/A
Copyright 1956
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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: Provisional

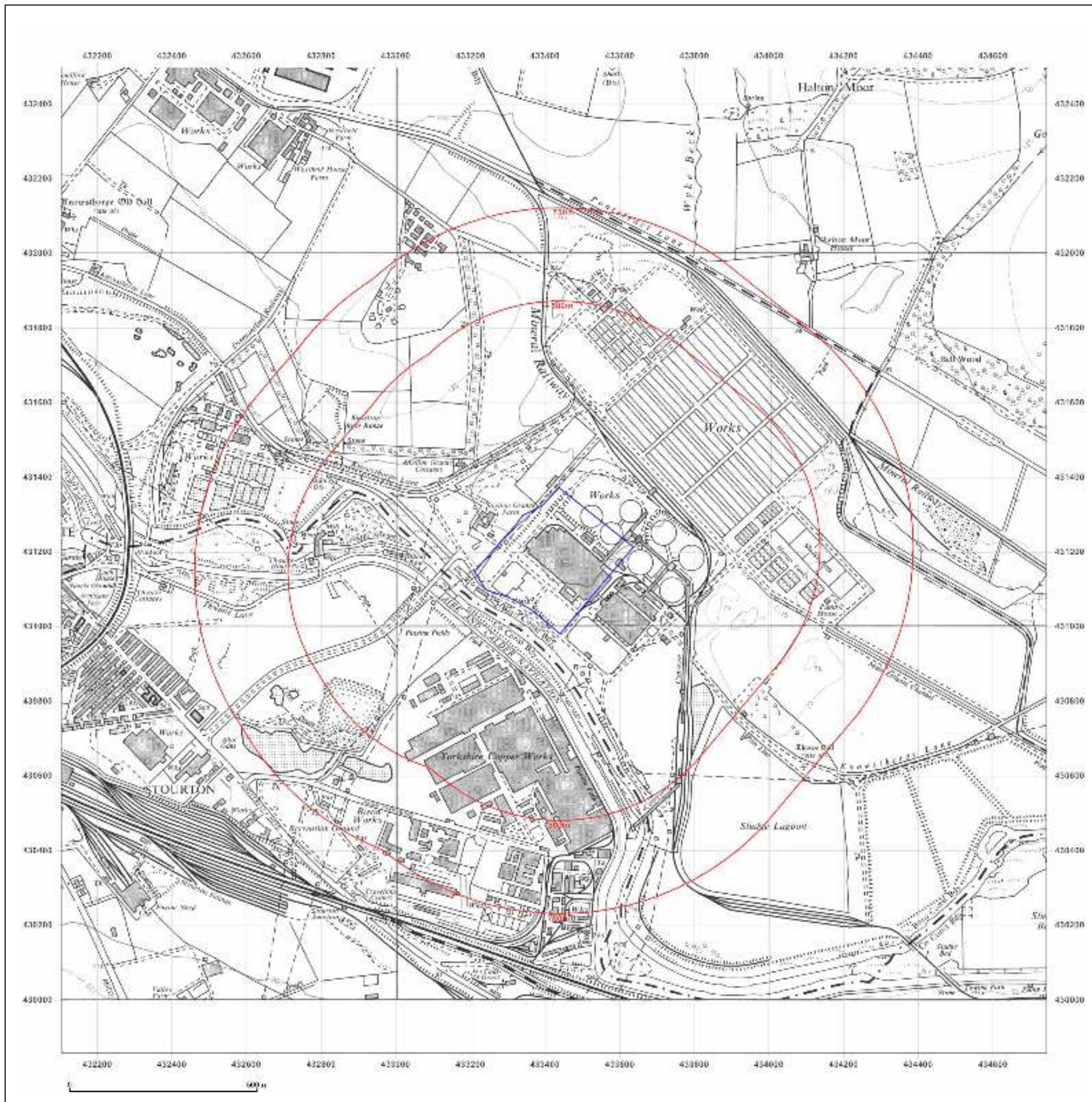
Map date: 1969

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1969
Edhen N/A
Copyright 1989
Levelled N/A



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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1978-1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
 Revised 1978
 Edition N/A
 Copyright 1979
 Levelled 1978

Surveyed 1980
 Revised 1980
 Edition N/A
 Copyright 1981
 Levelled 1978



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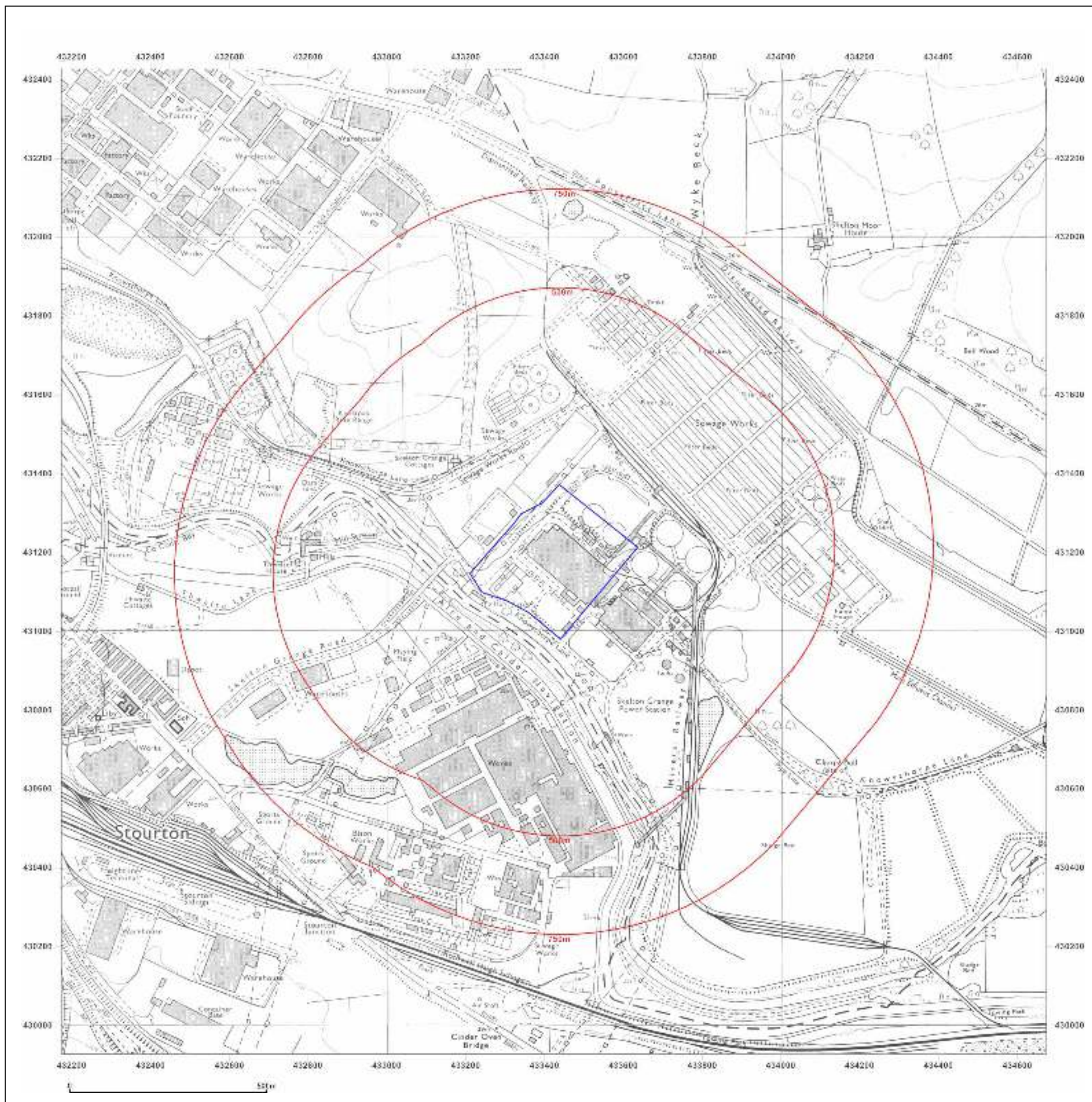


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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 1991

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1989
Revised 1990
Edition N/A
Copyright 1991
Levelled 19/8



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Site Details:

Land at Skelton Grange

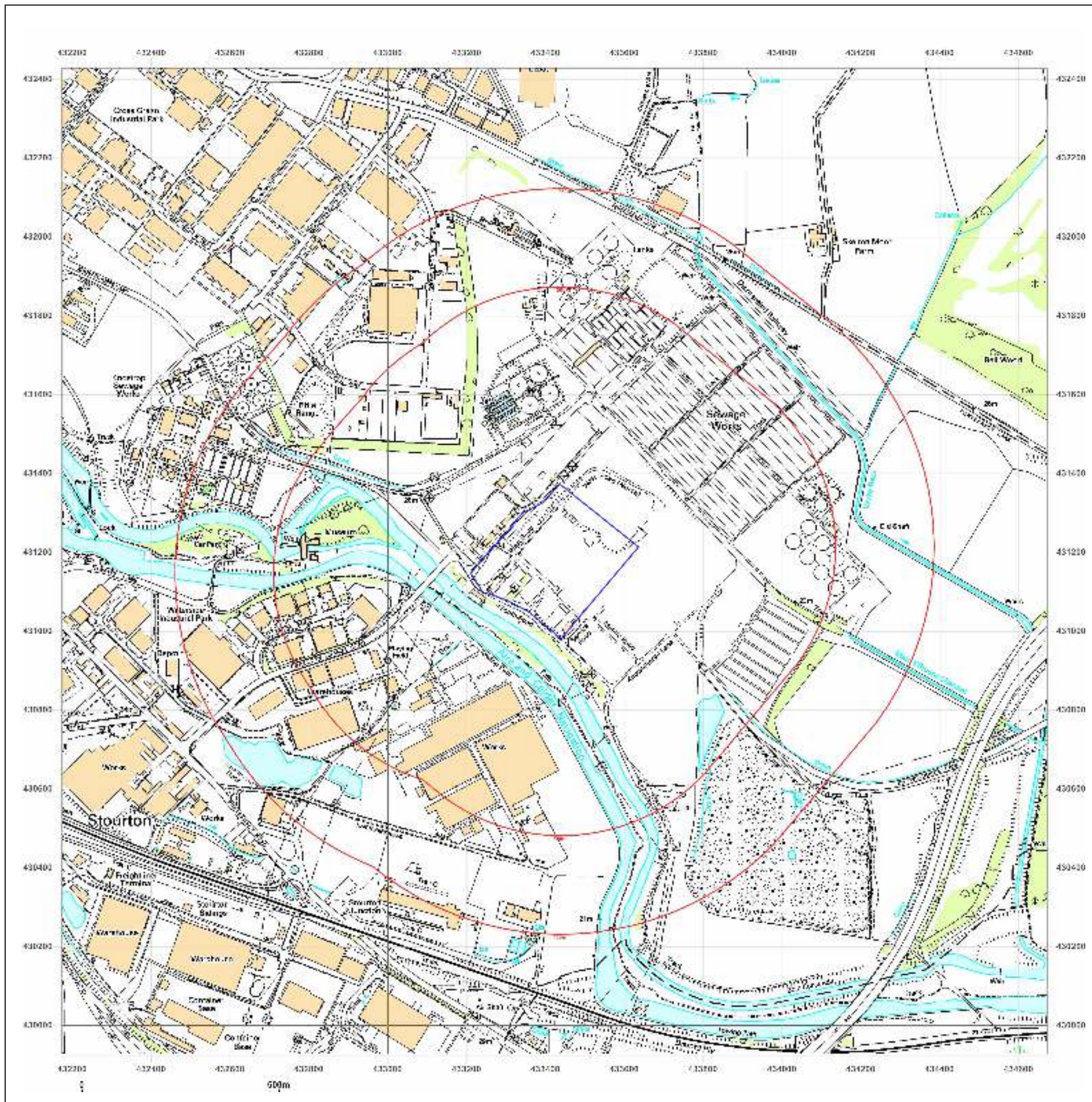
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Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: 1:10,000 Raster

Map date: 2002

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

Land at Skelton Grange

Client Ref: EMS_479320_642782

Report Ref: EMS-479320_642782

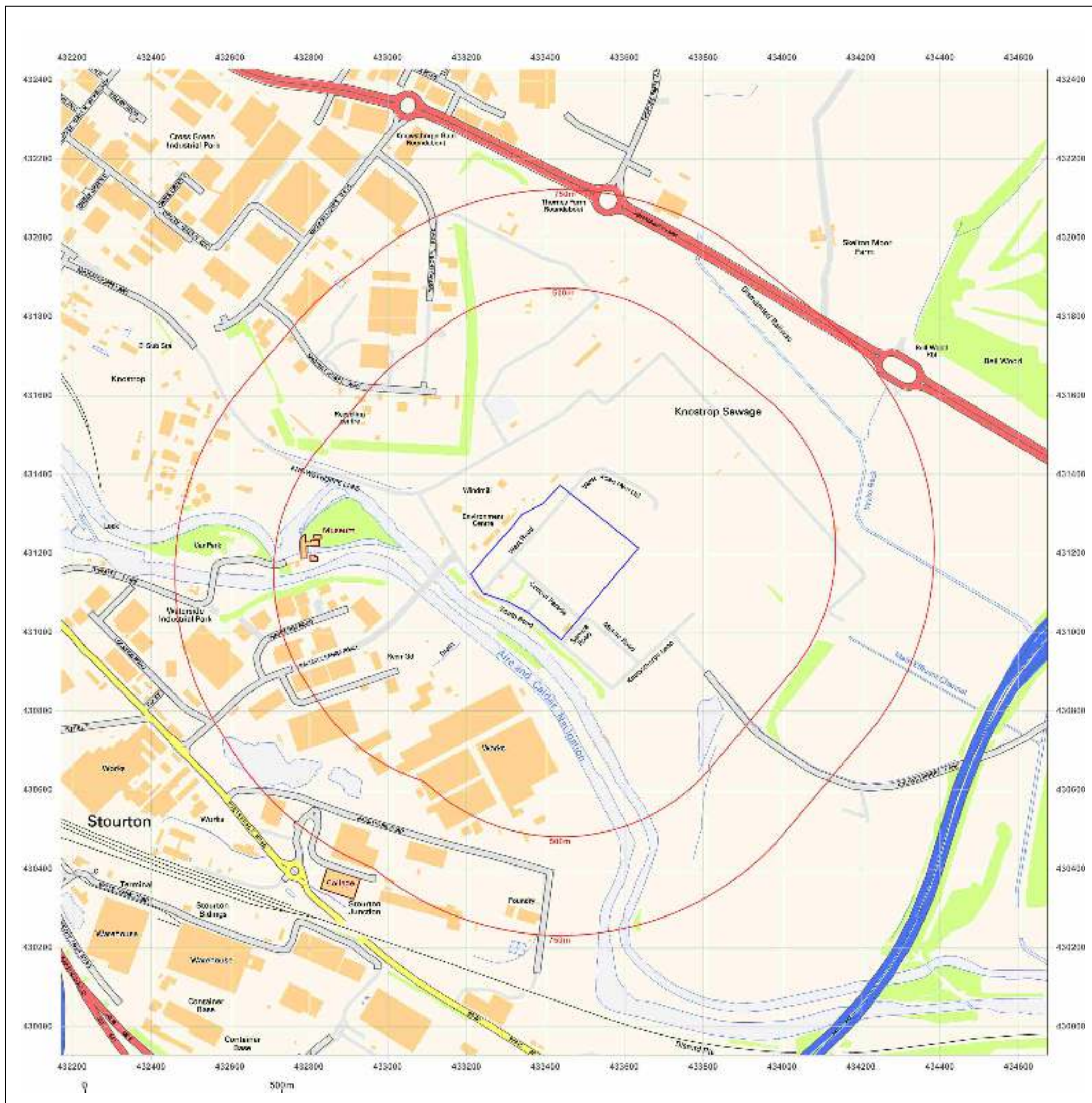
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Client Ref: EMS_479320_642782
Report Ref: EMS-479320_642782
Grid Ref: 433423, 431177

Map Name: National Grid

Map date: 2014

Scale: 1:10,000

Printed at: 1:10,000



2014



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Appendix 03 Photographs



General view of the Site looking northeast



View looking northwest (the raised part has the cooling tower bases)



View of the Site looking southeast (the level area is former power station building footprint)



Detail of slope between area of former power station building and bases of the cooling towers



Transmission pylon compound (to remain)



River Aire adjacent to Site

EUROPEAN OFFICES

United Kingdom

AYLESBURY

T: +44 (0)1844 337380

BELFAST

T: +44 (0)28 9073 2493

BRADFORD-ON-AVON

T: +44 (0)1225 309400

BRISTOL

T: +44 (0)117 906 4280

CARDIFF

T: +44 (0)29 2049 1010

CHELMSFORD

T: +44 (0)1245 392170

EDINBURGH

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EXETER

T: + 44 (0)1392 490152

GLASGOW

T: +44 (0)141 353 5037

GUILDFORD

T: +44 (0)1483 889800

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T: +44 (0)203 805 6418

MAIDSTONE

T: +44 (0)1622 609242

MANCHESTER

T: +44 (0)161 872 7564

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NOTTINGHAM

T: +44 (0)115 964 7280

SHEFFIELD

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