

**PROPOSED REDEVELOPMENT OF
WASTE TRANSFER STATION,
STANDARD ROAD,
SPENCER INDUSTRIAL ESATE
BUCKLEY**

**STAGE 1 CONTAMINATION
ASSESSMENT**

For: Flintshire County Council / AXIS

October 2020

R2817-R01-v3

DOCUMENT CONTROL SHEET

Report Title: Proposed Redevelopment of Standard Road waste transfer
 Station, Spencer Industrial Estate, Buckley

Stage 1 Contamination Assessment

Client: Flintshire County Council / Axis

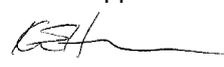
Report Reference Number: R2817-R01

Issue Final

Version: v3

Report Date: October 2020

Signed for Smith Grant LLP

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Document Revision Record:

Version	Report Status	Date	Details of Revision
v1	Draft	17.01.2020	Issue to client for comment
v2	Final	12.08.2020	Final; inclusion of additional information on nearby former landfill
v3	Final	26.10.2020	Final; inclusion of final proposed layout plan

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PROPOSED REDEVELOPMENT OF STANDARD ROAD WASTE TRANSFER STATION, BUCKLEY

STAGE 1 CONTAMINATION ASSESSMENT

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1. Introduction

1.1. General

1.1.1. Flintshire County Council (FCC) proposes to submit a planning application for redevelopment of an existing Waste Transfer Station (WTS) and adjoining land off Standard Road, Buckley. Proposals are for the demolition of the existing WTS and construction of a new WTS, along with associated infrastructure.

1.1.2. Axis, acting on behalf of FCC, instructed Smith Grant LLP (SGP) to undertake a Stage 1 Contamination Assessment of the proposed development and to provide a report to support the planning application. The assessment has been undertaken to determine any potential constraints with regards to ground conditions and contamination associated with the historical and current use of the site that may impact the future proposed use of the site.

1.2. Scope and Objectives of Report

1.2.1. This following report describes the Stage 1 Contamination Assessment undertaken by SGP in accordance with the brief agreed with the client. The assessment methodology follows the framework described in the EA / DEFRA Land Contamination: Risk Management guidance¹ (which replaces the previous Contaminated Land Report 11: Model Procedures for the Management of Contaminated Land 2004), and has been prepared with reference to the Planning Practice Guidance provided in relation to land affected by contamination² under the National Planning Policy Framework (NPPF)³.

1.2.2. The assessment comprised a review of third-party information on the environmental setting of the site and the site's previous and current uses with respect to potential risks to the environmental or human health, and a site inspection. This report contains a qualitative risk assessment, and where appropriate makes recommendations for further investigation and remedial actions appropriate to the proposed future use of the site.

¹ Land Contamination: Risk Management, issued 5th June 2019, last updated 23rd December 2019, www.gov.uk

² Planning Practice Guidance (PPG): Land Affected by Contamination, issued 12 June 2014, last updated 22 July 2019, www.gov.uk

³ National Planning Policy Framework (NPPF), issued 27 March 2012, last updated 19 June 2019

2. Scope of Assessment

2.1. Scope of Assessment

2.1.1. In undertaking the assessment SGP carried out the following activities:

- site visit to view the existing site and its setting;
- review of comprehensive historical mapping information;
- review of comprehensive environmental setting information (geology, hydrology, hydrogeology, industrial landuse, mineral excavation / extraction, landfilling / waste management activities);
- review of information relating to potential unexploded bombs (UXB);
- review of development proposals;
- development of Preliminary Conceptual Site Model (PCSM) with regards to ground contamination; and,
- provision of recommendations for further investigations and mitigation, where deemed necessary.

2.1.2. The information has been used to determine i) the potential for any ground contamination to be present on or near the site due to historical and current land uses and ii) the potential for any such contamination to pose a constraint to the proposed use of the site and / or impact the surrounding environment. The information has been used to inform the risk assessment and determine requirements for further work and or investigations to identify any remedial measures and ensure the site is suitable for the proposed redevelopment with regards to constraints from ground contamination.

2.1.3. Information has also been obtained on general expected ground conditions at the site and included where relevant, including in relation to risks associated with former coal mining. However, formal recommendations with regards in relation to geotechnical and ground stability considerations are not included.

2.1.4. Similarly, structural building, asbestos or ecological surveys have not been carried out, although reference is made to relevant information and SGP observations, where deemed applicable.

2.2. Sources of Information

2.2.1. The baseline data has been obtained through a desk top study and site visit. No additional survey or field work has been undertaken as part of this assessment.

2.2.2. The principle sources of information consulted in the preparation of this report include:

Table 2.1: Information Sources

Date and reference	Author and source	Purpose and information content
Topography, geology, hydrogeology and hydrology		
http://mapapps.bgs.ac.uk [accessed December 2019]	British Geological Survey.	distribution of geological units at surface including drift and artificial deposits, faults and mineral outcrops
https://www.ordnancesurvey.co.uk/osmaps/ [accessed December 2019]	Ordnance Survey (OS), Explorer Map, 1: 10,000	general mapping information including structures, boundaries, ground features, water features etc.
http://www.ukradon.org [accessed December 2019]	Public Health England	mapping defining radon affected areas in England & Wales
Historical data		
Satellite imagery	Various	recent historical features
Envirocheck Report Historical Mapping 227445982_1; December 2019 (provided in Appendix B)	Envirocheck: Landmark Information Group	historical mapping at 1:2,500, 1: 10,000 and 1: 10,560 from 1873-1874 onwards
Information Review		
Envirocheck Report Datasheet 227445982_1; December 2019 (provided in Appendix B)	Envirocheck: Landmark Information Group	hydrological, waste, hazardous substances, geological, land uses, and natural stability hazards based on historical data and geological records
BRE 211	Public Health England	guidance for the installation of radon protection measures.
https://magic.defra.gov.uk/MagicMap [accessed December 2019]	Defra	web-based interactive map containing information on nature conservation areas, aquifer designations, source protection and nitrate vulnerable zones.
UXO Risk Map www.zeticauxo.com [accessed November 2019; provided in Appendix C)	Zetica	unexploded bomb risk mapping
Coal Mining Report (ref.51002193554001; provided in Appendix D)	The Coal Authority	details on past, present and future underground and opencast coal mining, mining subsidence and the locations of recorded mine shafts
Coal Mining Risk Assessment (ref.1948; provided in Appendix E)	NKC Geotech Ltd.	assessment of risks that coal mining poses to the proposed development & recommendations for further works.

2.2.3. Following review of the Coal Authority report a Coal Mining Risk Assessment (CMRA) was undertaken by NKC Geotech (provided in Appendix E) with regards to the site and proposed development. The CMRA findings relevant to ground contamination risks are discussed below in Sections 4 and 5.

2.3. Site Inspection & Investigations

2.3.1. A site inspection of accessible areas on site and in the immediate surrounding area was undertaken by B J Thomas, SGP Partner on 5th December 2019. A photographic record of salient features is provided in Appendix B. Access was provided to external and internal areas.

2.4. Consultations

2.4.1. Consultations were held with the FCC Contaminated Land Officer regarding the site and the proposed development. Comments were provided by the CLO in relation to ground gas risks and are provided in Section 4.

2.5. Previous Investigations

2.5.1. SGP previously produced a Stage 1 Contamination Assessment (ref: R1665-R01-v2; dated April 2012) in relation to a planning application to construct an education facility within the boundary of the existing WTS. The Stage 1 comprised a desk study review of the information on the historical development and environmental setting of the site under consideration. The previous SGP Stage 1 has been reviewed in preparation of this report although is noted to have encompassed a smaller area to that considered as part of this following report in relation to the current proposals. Planning permission was subsequently granted (planning ref: 049740, dated 2nd October 2012) although the development has not been undertaken to date. Condition 7 of the permission includes requirements for the investigation and assessment of the nature and extent of contamination, however it is understood these investigations have not been undertaken.

2.5.2. SGP has not been provided with any other previous desk study or site investigation information pertaining to the site.

2.5.3. SGP previously undertook a Stage I and II Contamination Investigation (report ref: R1407-R01, March 2010) of land to the south of the site, beyond Globe Way, on behalf of FCC, the findings of which have been reviewed in preparation of this report.

2.5.4. In addition, it is noted that the Coal Authority report indicates several more recent site investigations have been undertaken in the wider area.

3. Development History and Current Status

3.1. Site Details and Location

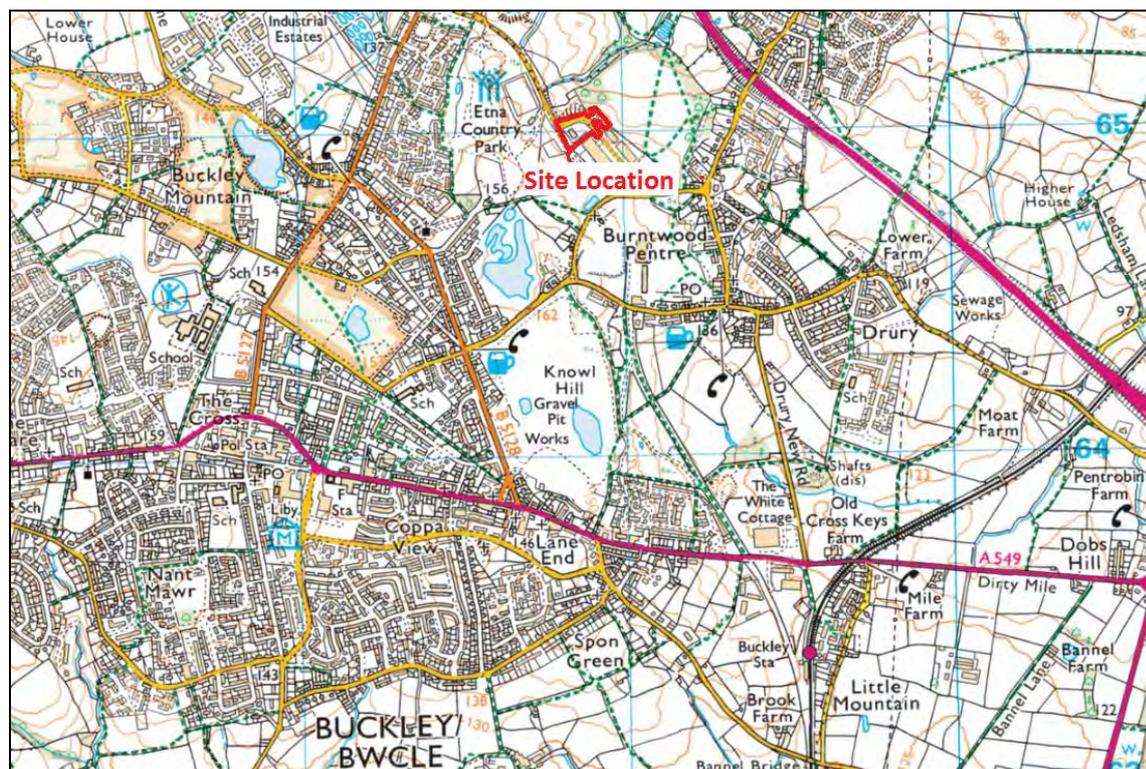
3.1.1. The site is located off Globe Way within the Spencer Industrial Estate, lying about 1.3km to the northeast of Buckley. The application boundary comprises Standard Road and two distinct areas of land separated by Standard Road: the western / central area is currently occupied by an existing WTS with associated car parking and infrastructure whilst the eastern area is currently occupied by a landfill gas extraction plant serving an adjoining former landfill and offices and weighbridge associated with the WTS.

3.1.2. The site details are summarised detailed below and the location is provided in Figures 3.1 and 3.2.

Table 3.1: Site Details

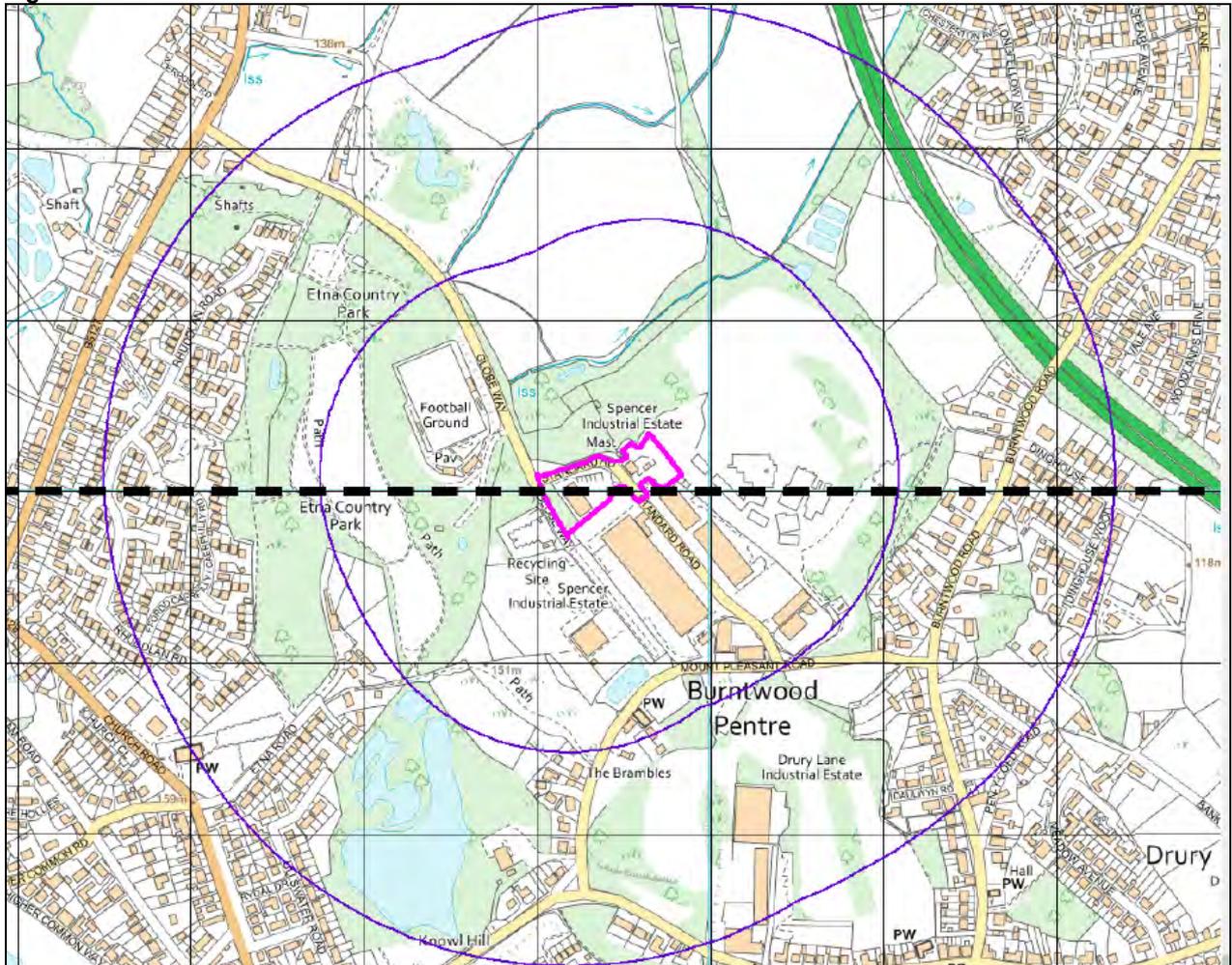
Address	Standard Road, Spencer's Industrial Estate, Buckley, Flintshire, CH7 3LY
National Grid Reference	SJ289649
Local Authority	Flintshire County Council (FCC)
Site Area / Shape	approximately 0.8 ha; comprises a roughly rectangular southwest / northeast orientated area of land
Current Use of Site	north: Standard Road western / central area: existing WTS and associated infrastructure and Standard Road eastern area: landfill gas extraction compound; weighbridge and offices for WTS

Figure 3.1: Site Location



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Figure 1.2: Site Location



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Site boundary indicative; for actual boundary refer to planning application drawings

3.2. Historical Development

3.2.1. A summary of significant features, developments and land uses shown on historical Ordnance Survey maps is provided in Table 3.2 below. Copies of selected maps are provided in Drawings D01-D06.

3.2.2. Only key features of interest are summarised below; for full details reference should be made to the complete set of historical mapping, as provided by Envirocheck (provided in Appendix C).

Table 3.2: Summary of Development History

Map	Site	Surrounds (<i>all distances are approximate</i>)
1875: 1:2,500 <i>See Drawing D01</i> 1871: 1:10,560	<p>The eastern and southern parts of the site form part of a larger spoil tip that extends southwards.</p> <p>The western and northern parts of the site are shown as woodland.</p> <p>The embankment and part of the Wrexham, Mold & Connah's Quay railway line extend into the south and west of the site.</p>	<p>Extensive woodland is shown to the north and east.</p> <p>The spoil tip extends to the south and southeast from the site. 2 shafts and a pond are labelled within 50m of the southeastern boundary.</p> <p>Ground to the west beyond the railway embankment is shown as rough ground and trees. Beyond this, about 80m to the east, lies the Old Ewloe Brick Works with associated clay pits, spoil tips, mineral lines and infrastructure.</p> <p>Other brickworks and collieries, with associated spoil tips mineral railway lines and infrastructure, are present in the general surrounding area. These include Etna Colliery and Ewloe Hall Colliery lying about 250m to the northwest and Mount Pleasant Brickworks 270m to the southwest, beyond which lies the Knowl Lane Brickworks.</p> <p>A well is labelled 200m to the southeast.</p>
1881; 1:10,560	No significant change.	No significant change.
1899; 1:2,500 <i>See Drawing D02</i> 1900: 1:10,560	<p>The site is now part of Mount Pleasant Colliery and the spoil tip extends across most of the site and is indicated on mapping to be of greater height. Buildings of the colliery possibly extend into part of the southwest corner of the site.</p> <p>A number of sidings now form the western site boundary, and which encroach into the southern</p>	<p>Mount Pleasant Colliery and associated Brick Works has been developed to the immediate southeast encompassing the area of the marked shafts.</p> <p>A gas works is present 180m southeast beyond the brick works.</p> <p>The earlier woodland to the north and east appears to have been cleared and is marked as rough ground.</p> <p>Old Ewloe Brickworks to the west has undergone extension, as has the Mount Pleasant Brickworks to the southwest and</p>

Map	Site	Surrounds (<i>all distances are approximate</i>)
	part of the site.	Etna Brickworks to the northwest. Another colliery has been developed 380m to the east-southeast.
1912: 1:2,500 <i>See Drawing D03</i> 1914: 1:10,560	The spoil tip on-site has altered height and shape; a tramway is marked on the southern part of the site.	Some development of the adjoining Mount Pleasant Colliery and Brickworks (now referred to as the Standard Brick and Terra Cotta Works) has occurred, including construction of a “slant” (a track to transport coal and clay from a deep pit) from land to the southwest to the southern corner of the site and the sinking of an air shaft off the eastern boundary. On-going extension development of the other brickworks in the surrounding area has occurred although Etna Brickworks is marked as disused. Two reservoirs have been labelled 200m to the south and a reservoir has appeared 250m to the northeast.
1938 1:10,560	No significant change.	A reservoir has been labelled 50m to the south. Etna Brick Works and Globe Brick Works have both been labelled as disused.
1954 1:10,560	No significant change.	The adjoining Mount Pleasant Colliery is shown as disused, although the associated brickworks to the southeast is now marked as Standard Pipe Works. Extensive possible ground disturbance indicated to the northeast of Mount Pleasant Colliery in the area of previously cleared woodland. Mount Pleasant Brick Works appears disused and the clay pits are flooded. Globe Brick Works and Etna Brick Works have been demolished and Knowl Hill Brickworks 500m to the south has been labelled as ‘disused’.
1961-1967: 1:2,500 <i>See Drawing D04 (1964-1965)</i> 1963-1966: 1:10,000	Regrading of the spoil tip has occurred with a track now crossing the site along the north / north-western edge. The tramway is no longer present. A single building appears present in the southwest corner.	A number of the railway sidings to the west have been dismantled. The majority of the buildings associated with the former Mount Pleasant Colliery have been demolished, including the tramways; the buildings of the Standard Pipe Works remain although are longer identified as such. A large clay pit and other areas of disturbed ground are now shown extending to within 80m of the eastern site boundary to the north/northeast. The clay pit is marked as having a vertical cliff face along the embanked path to the east of the site. The gas works to the southeast of the site is reduced in size and now shown as a “works”.

Map	Site	Surrounds (<i>all distances are approximate</i>)
	No significant change.	No significant change.
1967-1975 1:2,500	<i>Partial mapping (southern area only)</i>	The pipe works to the south is now labelled 'disused', as is the clay pit to the east/southeast. The reservoir 250m to the southwest has separated into 3 large ponds.
1970-1978 1:10,000	Possible further regrading of the spoil tip	Railway forming the western boundary has been dismantled. Former Standard Pipe Works marked as disused, along with pit to the east. The large clay pit to the west (Old Ewloe Brickworks) is now vegetated.
1974 1:2,500	<i>Partial Mapping.</i>	No significant change.
1977-1989 1:2,500 <i>See Drawing D05</i>	Site cleared of most structures and spoil tip no longer indicated; other than possible on eastern edge. A road now runs around the northern edge and a small building and weigh bridge has been constructed in the eastern part of the site.	No original infrastructure associated with either the former adjoining colliery or brickworks is shown, the area now having been redeveloped to single works via a road forming the northern and eastern site boundaries. A large building has been constructed to the south. The area of the former Old Ewloe Brickworks to the west is now marked as a 'refuse tip'. Area of former clay pits to the northeast marked as a landfill site and land to the immediate east/northeast is marked as "pit (disused)".
1982-1983 1:10,560	No significant change. <i>Partial Mapping.</i>	No significant change.
1988 1:10,000	No significant change. <i>Partial Mapping.</i>	No significant change.
1991 1:2,500	No significant change. <i>Partial Mapping.</i>	The 'disused pits' immediately to the east / northeast are now marked as a 'landfill site'.
1992-1993 1:2,500 <i>See D06</i>	No significant change.	Further development of the industrial estate to the east / southeast has occurred. The land fill and refuse tips are still marked surrounding the site. There are no residual buildings associated with the former gas works to the south east.
1996 1:2,500	No significant change.	A Household Waste and Recycling Centre is shown to the southwest accessed via Globe Way which has been constructed to the southwest. The land fill and refuse tips are still marked surrounding the site.
2001 Satellite imagery	There are various buildings and structures in the eastern area of the site. The western area is clear and possibly used for storage.	The landfill to the immediate northeast still appears to be operational. The 'refuse tip' to the west / northwest has been landscaped and is crossed by several paths (forms Etna Country Park),

Map	Site	Surrounds (<i>all distances are approximate</i>)
		and the Household Waste and recycling Centre is now an open area of concrete with large containers for waste. A football ground has been built 75m to the northwest. The reservoir 150m to the east has disappeared and the area has no vegetation with a few tracks across the western edge.
2003 1:10,000/satellite imagery	No significant change.	The sports pitch 75m to the northwest has been labelled 'football ground'.
2006 1:10,000/Satellite Imagery	A building has been constructed in the western area of the site.	The refuse tip to the east is marked as 'disused'.
2007 Satellite Imagery	No significant change.	The old pit area adjacent to the site to the east is now vegetated.
2009 1:10,000	No significant change.	No significant change.
2011 Satellite Imagery	No significant change.	Some buildings adjacent to the eastern site boundary have been demolished.
2013 1:10,000	No significant change.	No significant change.
2015 Satellite Imagery	The eastern area of the site is provided with concrete / tarmac hardstanding.	A large building has been constructed 100m to the southwest. The area between the new building and the household waste recycling area appears to be cleared of vegetation.
2016 Satellite Imagery	No significant change.	The area between the building 100m to the southwest and the household waste recycling area to the west appears to be being used for storage.
2018 Satellite Imagery	The northeast corner is now empty.	The household waste recycling area across the road to the west, has been rearranged, removing a small patch of vegetated area next to the road. The storage area between the recycling area and the building to the southwest, now appears to have some small grey stockpiles on it, 50m from the southwest corner of the site. Some solar panels have been installed on Mount Pleasant, 50m to the east/southeast.
2019 1:10,000	No significant change.	No significant change.

Note: Dates refer to dates provided on OS mapping; actual dates may differ

3.3. Additional Information

3.3.1. Information previously provided by FCC to SGP indicated that the WTS in the western part of the site was built on the area of a former scrap yard. It is understood the scrap yard operated in the 1980s and 1990s; no other information is available.

3.4. Present Land Condition

3.4.1. A summary of existing significant features, recent activities and land uses shown on contemporaneous aerial photography, site inspections and anecdotal evidence is provided in Table 3.2 below.

Table 3.2: Present Land Condition

<p>Site Description</p>	<p>The site encompasses Standard Road and two distinct areas of land bisected by the road.</p> <p>The western area is occupied by the Standard Materials Recycling Facility comprising single steel framed / steel clad building with associated external yard areas, portacabins, storage bays and infrastructure. The facility is used for the sorting, bailing and storage of household recycling. Numerous skips are present including one housing a bunded red diesel tank and drums of lubricant and cleaning chemicals. The facility is operated under an Environmental Permit issued by Natural Resources Wales (NRW).</p> <p>The western area of the site also encompasses the stretch of Standard Road that runs within the northern edge of the site.</p> <p>The eastern area contains numerous offices and mess facilities housed in portacabins, and bunded fuel oil store, weighbridge and access road and open areas used for temporary storage of skips and materials. A compound housing a landfill gas cleaning/engine/generator compound (“LFG Compound”) which serves the adjoining former landfill is also located in this area but is outside the planning application boundary.</p> <p>The current layout is shown below in Figure 3.3.</p>
<p>Access</p>	<p>The site is accessed off Globe Way with access to both operational areas of the site being provided by Standard Road. Access to the eastern area can be also gained on foot off the open land to the north.</p>
<p>Boundaries</p>	<p>north: fencing onto densely vegetated area.</p> <p>east: open onto adjacent open land (former landfill).</p> <p>southeast: walls, concrete barriers and fencing adjacent vehicle repair business.</p> <p>southwest: palisade fence onto adjacent engineering works</p> <p>west: palisade fence onto Globe Way.</p>
<p>Services / Wayleaves</p>	<p>No service plans have been obtained as part of this assessment, however the following observations can be made.</p> <p>A large electricity substation is present immediately offsite to the south of the eastern area and transformers are located inside the site on the other side of the access road. A High Voltage feed to the adjacent telecoms mast is likely to be present.</p> <p>Pipework for the landfill gas extraction system to the adjacent landfill must extend across the site and connect to the LFG Compound.</p> <p>Other connections for water, phones and electricity are anticipated.</p>

Rights of Way	Other than Standard Road which is located within the site boundary, no rights of way are mapped on site.
Structures	Permanent above ground structures comprise the steel framed shed housing the main sorting / bailing facility in the western area and the telecoms mast, weighbridge, LFG compound in the eastern area. Temporary buildings are present in the eastern area.
Surfaces / Vegetation	<p>The operational parts of the eastern area are surfaced with reinforced concrete running areas. The peripheral areas, excepting the frontage to Standard Way, have grassed soil, raised to form bunds along the northern boundary.</p> <p>The surface in the eastern area is a mixture of concrete slabs and gravel, some of which is partly vegetated.</p>

Figure 3.3: Satellite Imagery of site



Note: indicative Site boundary shown, for actual boundary refer to planning application drawings; landfill gas extraction compound in east now lies outside formal boundary

3.5. Site Historical Development Summary

3.5.1. Historical mapping shows the site to have been largely occupied by a spoil tip associated with mineworkings, and subsequently the adjoining Mount Pleasant Colliery, from at least the 1870s. A railway embankment and railway line also extended into the western and southwestern parts of the site.

3.5.2. Little change occurred to the site itself in the early to mid-1900s other than regrading and expansion of the spoil tip. The tip may have also been used for the disposal of waste arisings from the nearby Standard Brick and Terra Cotta works (typically clay and bricks), located alongside the colliery. By the 1960s the colliery had been dismantled although the spoil remained on site. The adjoining brickworks is understood to have ceased operation in 1969. Later mapping is limited and unclear but indicates that the spoil tip had been levelled by the mid-1980s followed by the redevelopment of the land to the southeast (area of the former Mount Pleasant Colliery and Standard Pipe Works) to an industrial estate in the 1990s. It is likely that the spoil was levelled across the area to create a platform for construction, as indicated by a slope marked on mapping to the north of Standard Road and within the east of the site.

3.5.3. According to anecdotal information provided by FCC in 2012, the western area of the site was utilised as a scrap yard in the 1980s and 1990s. However, this is not visible from the historical mapping. Aerial imagery indicates the existing WTS to have been constructed between 2003 and 2006. The layout of the facility appears to have undergone little subsequent change.

3.5.4. Land to the east of the site was mapped as rough open land in the late 1800s / early 1900s. Sometime between 1930 and 1954 clay pits appear in the area, presumably associated with the former brickworks. These gradually expanded and by 1977 the clay pits are marked as extending towards, and possible within, the eastern edge of the site; the ground within the eastern area of the site being shown to fall steeply to the north and east. At this stage the pits are marked as 'disused' and a weighbridge is mapped in the eastern area of the site. By 1991 the former clay pits are marked as a 'landfill'. The mapping is limited but based on the available information it is assumed the eastern area of the site served as the weighbridge, offices and access to the adjoining landfill, later known as the Standard Landfill. The eastern edge of the site is initially shown as an embankment, but between 2000 and 2006 the eastern area has been levelled or infilled to existing topography, coinciding with the construction of the WTS and closure of the landfill.

3.6. Surrounding Land Historical Summary

3.6.1. The wider surrounding historical landuse was similarly largely industrial with extensive areas of brickworks and collieries and associated infrastructure. Wider activities included the Old Ewloe Brickworks to the west; parts of which later became a landfill and now forms Etna Country Park and extensive open case working, subsequently backfilled to the north / northeast; and more recent industrial development to the west.

3.7. Adequacy of Information

3.7.1. Whilst there are some gaps in the historical map coverage it is considered that the available mapping provides adequate coverage of the site and immediate surroundings to inform the assessment.

4. Site Characterisation

- 4.1. The physical setting of the site has been derived from the review of information detail in Section 2. Key details are summarised below: for full details reference should be made to the supporting information provided in Appendix C.

Table 4.1: Environmental Setting

Topography and setting	<p>The site lies within a mixed use with an industrial estate extending to the south / southeast / southwest; a large former landfill (now Mount Pleasant Country Park to the east); Dinghouse Wood to the north; a football field to the northwest and a second former landfill (now Etna Country Park) further west.</p> <p>According to contemporary Ordnance Survey mapping, the site is relatively level at an elevation of approximately 120m Above Ordnance Datum (AOD). The ground rises to the east associated with the former landfill.</p>
Geology	<p>BGS, historical OS mapping and site observations indicate the potential ground conditions to be:</p> <p><u>Made ground</u>: Made ground in the form of colliery spoil and possibly brick works waste is anticipated across the site. Based on the current topography spoil / made ground may be present to depths of 5-10m bgl, possibly deepening to the south and west. BGS boreholes show made ground is present to at least 5m along the northern boundary (see below).</p> <p><u>Superficial Deposits</u>: BGS mapping shows the site to be underlain by Devensian Till – Diamicton (glacial till).</p> <p><u>Bedrock</u>: BGS mapping shows the underlying bedrock to be the Pennine Middle Coal Measures Formation – comprising cyclic sequences of mudstone, siltstone and sandstone with coals and seatearths.</p> <p><u>Faults</u>: - The area is extensively faulted and the N-S trending fault (the Great or East Fireclay Fault) is mapped along the western edge of the site, throwing down the Middle Coal Measures westwards.</p> <p><u>BGS Records</u> BGS borehole records 2 boreholes around the telecom mast along the northern boundary of the site (SJ26NE1588, SJ26NE1589; dated 1995). Both reported made ground to at least 5m depth, comprising ash shale, brick and stone fill with large obstructions.</p> <p>In addition, the records show 2 shafts to the southeast of the site, and 1 close to the eastern corner, recorded in 1913:</p>

	<ul style="list-style-type: none"> The shafts to the south were both sunk in the old Wood Pit and Old Engine Pit, later becoming part of Mount Pleasant Colliery. The shaft south of the centre of the site (SJ26SE969) recorded 0-52m of slate clay, 52-59m of rock, 59-78m as slate clay, coal was reported for 0.05m at 78m, and 78-83 of more slate clay was reported. From 83-86m, the old wood coal pit was recorded, containing coal and slate clay. From this to the base of the borehole (118m) a mix of sandstones and clays were reported. The shaft to the southeast of the site (SJ26SE968) was recorded to 208.48m but the record is limited and the writing incomprehensible, so the ground type is difficult to distinguish.
Natural Ground Stability	<p>The site is in an area where collapsible and compressible ground, landslide, running sand, and shrinking or swelling clay are described as very low, and there are no records of hazards from ground dissolution.</p>
Hydrology / Drainage	<p><i>Surface Water Drainage and Features</i></p> <p>Surface water run-off on the site is directed to an interceptor and then to the foul sewer on Standard Road. Narrow strips of un-surfaced ground are present along the northern and western boundaries where some infiltration may occur.</p> <p>The nearest surface water course is 95m to the north and flows north-eastwards between the base of the former landfill and area of backfilled opencast workings towards Hawarden.</p> <p><i>Flood Risk</i></p> <p>The site is not mapped as being within an area subject to potential surface water flooding.</p>
Hydrogeology / Groundwater	<p><i>Aquifer Designations and Vulnerability:</i></p> <p>Superficial Deposits: The underlying glacial till is classified as a Secondary Undifferentiated aquifer.</p> <p>Bedrock: The underlying Coal Measures supports a Secondary A aquifer. Groundwater flow within the Coal Measures will be complex and may be via sandstone strata, fractures and old mineworkings.</p> <p><i>Groundwater Abstractions and Source Protection Zones</i></p> <p>The site is not located within any Source Protection Zones.</p> <p>The Envirocheck report states there is limited potential for groundwater flooding to occur on site and the potential for groundwater flooding of property situated below ground level in the surrounding area.</p>
Excavation / Mining	<p>The site is located within an area that has a long history of clay and mineral extraction, although historical maps do not show any former excavation activities or mine shafts on the site itself.</p> <p>Key points noted by the Coal Authority report are:</p>

	<ul style="list-style-type: none"> • the site is within an area that could be affected by past underground mining in 5 seams of coal at shallow to 210m, last worked in 1916; • 3 mine entries have been identified within, or within 20m, of the site boundary (<i>note: site boundary on CA report covers wider area than site</i>); none appear mapped on the site itself although locations are noted to only be approximate; treatment details are not available for any of these entries; • the area is not likely to be affected by any planned future underground coal mining, but coal reserves do still exist in the area which could be worked at some point in the future; • the Coal Authority has no record of a mine gas emission requiring action. <p>Key points noted in the subsequent Coal Mining Risk Assessment Report (ref.1948) undertaken by NKC Geotech are:</p> <ul style="list-style-type: none"> • there are 2 recorded mine entries (shafts) within 20m of the site; these lie close to the southeast/eastern boundary (ref: shaft 328364-073: Mount Pleasant No 1 Shaft and shaft 328364-04: Mount Pleasant No 2 Shaft) and are each 208m deep; the shafts are believed to have been infilled and headgear removed in the late 1960s; no other information on the capping of these shafts is available but they are expected to have been visible in the 1970s during the development of industrial estate; they may be covered by thin concrete caps or steelwork and infill beneath the cap may have since settled creating a void; • the Mount Pleasant Air Shaft 30m to the east was only 27m deep; • there are records of past mining in 5 seams of coal at depths of 20m to 210m directly under the site; shallow mineworkings may therefore be present on the site; the Main Coal is likely to have been mined under part of the site at shallow depth, so there may be a risk of instability due to this activity.
<p>Landfill / Waste Disposal</p>	<p>The site itself was originally occupied by a spoil mound associated with the adjoining former Mount Pleasant Colliery and brick works to the south. The spoil appears to have been levelled in the 1970s as part of development of the industrial estate.</p> <p>The land adjoining to the east / northeast formed part of the Standard Landfill, previously known as Standard Claypit. This is recorded as having been initially operated by Alyn & Deeside DC and A D Waste Ltd from 1989, later being operated by FCC from July 1993 to October 2005. At the time of the SGP 2012 report this landfill was complete and undergoing restoration; it is now closed and fully restored although it remains managed, monitored and maintained under an Environmental Permit issued by Natural Resources Wales (NRW; ref: EPR/BP3390VA/T001. The landfill is reported as receiving inert, industrial, commercial, household waste, and liquid sludge. The landfill is subject to active gas capture and electricity generation, the plant for which lies within the area of the Site although outside the application boundary.</p>

	<p>The Envirocheck report indicates that there are an additional 4 registered historic landfills within 500m of the site. A summary of the historical landfills from the Envirocheck report with increased distance from the site is made below:</p> <ul style="list-style-type: none"> • Mrs Fennah’s Clay Pit managed by Alyn and Deeside District Council (105m SW), operated from December 1984 to December 1987. It received inert, commercial, and household waste (Provider ref: EAHLD15108); • Etna Tip managed by Nevor Hada (111m W), operated from December 1978 to December 1990. It received inert, industrial, commercial, household waste, and special waste (Provider ref: EAHLD15099); now forms the Etna Country Park, understood to be served by an active gas extraction system; • a disused clayhole managed by Waste Disposal NW Ltd (269m S), operated from March 1980 to February 1987. It received inert waste (Provider ref: EAHLD15131); • Mount Pool managed by Shones Buckley Ltd (431m SW), operated from December 1979 to July 1990. It received inert waste (Provider ref: EAHLD15118). <p>The 2012 SGP report referred to <i>concerns that had been raised regarding possible leachate migration from the Etna landfill site with ochreous leachate being observed close to the Buckley town football fields 120m to the northwest of the site and potentially reported close to the Standard Landfill.</i></p> <p><u>Currently Operational Landfill:</u></p> <p>The closest registered landfill site is 134m to the east, operated by A.D. Waste Ltd (license ref: NOW-440-L (174/93)) since June 1993. Envirocheck states takes in greater than or equal to 250,000 tons of mostly unrestricted waste per year. It does not accept liquid wastes or wastes with a ‘flash point’ <30°C.</p> <p>The surrounding industrial estate has multiple waste management licenses for activities such as recycling, landfilling, and metal recycling, within 165m of the site.</p>
<p>Industrial Land Use / Nearby Contaminative Activities</p>	<p>The site is located in a mixed industrial / rural area (within Spencer Industrial Estate) with industrial facilities located to the west, south and east. ‘Steel 4 Structures Limited’ bounds the site to the immediate southeast and undertakes metal fabrication and engineering. A number of other mixed light industrial units extend south-eastwards along Standard Road; the adjacent unit, and several others are vehicle maintenance and repair garages.</p>
<p>Radon</p>	<p>The site lies within an area where between 1-3% of homes are estimated to be at or above the Radon Action Level.</p>
<p>UXO Risk</p>	<p>The UXO bomb risk map shows the site to be classed as Low Risk (15 bombs per 1000 acres or less). There are no identified Luftwaffe targets within the surrounding area. A copy of the UXO bomb risk map is presented in Appendix E.</p>
<p>Nature Conservation</p>	<p>The land to the immediate north, beyond Standard Road and surrounding the Mount Pleasant Country Park, is designated as an SSSI and SAC, part of the Buckley</p>

	<p>Claypits and Commons SSSI and Deeside and Buckley Newts SAC. The area of Etna Country Park to the west / northwest beyond the Household waste recycling centre is also designated as a SSSI and SAC.</p> <p>It is known that Great Crested Newts are potentially present in the area.</p> <p>No invasive weeds, such as Japanese Knotweed or Himalayan Balsam were observed during the site visit, although a formal survey has not been undertaken by SGP.</p>
Additional Comments	<p>Anecdotal information has been provided by the FCC CLO, indicating that the area is prone to ochreous precipitate appearing, suggesting there are fissures or preferential pathways for groundwater or leachate to discharge to the surface from the coal measures or landfill.</p> <p>The CLO also advised that it is assumed that the majority of competent fireclays beneath the site and in the surrounding area were quarried by the local brickworks and cannot be relied upon to prevent gas migration.</p>

5. Preliminary Conceptual Site Model

5.1. Methodology

5.1.1. Information from the desk study has been used to identify the likely source-pathway-target relationships that may exist at the site during and following the proposed development. Principal factors that may determine potential sources of contaminants at the site, receptor vulnerability and potential pathways have been identified and each assessed in turn to derive a Conceptual Site Model (CSM).

5.2. Site Sources

5.2.1. The historical mapping and mining information indicates that the site was originally occupied by part of a spoil tip associated with the adjoining Mount Pleasant Colliery and possibly the Standard Brick and Terra Cotta works, and a former railway embankment and railway line in the west. The tip appears to have been levelled sometime in the 1970s as part of development of the area. Based on existing information, colliery spoil, and possible brickworks waste, is expected across the site and may extend to 5-10m bgl. Mine spoils are largely inert and tend to weather to clays, silts and gravels. Mine spoils and coal ash from steam-raising on collieries may contain moderately elevated concentrations of metals and metalloids (typically arsenic, lead, nickel and zinc), and polyaromatic hydrocarbons (PAHs). In addition, mine spoils and the natural ground may contain iron pyrites which weathers into sulphates and sulphuric acid. The presence of other deleterious materials (metals, wood etc) or degradable organic materials within the residual spoils cannot be completely discounted at this stage.

5.2.2. The original spoil is not mapped across the full extent of the eastern part of the site throughout the 1900s, the ground being shown here to fall steeply to the north and east. At some point between 2000 and 2006 this area has been levelled / infilled to the existing topography and subsequently used to be ancillary areas (offices, parking, etc), to the landfill. The specific nature of fills in this eastern area is therefore unknown.

5.2.3. The site itself is understood to have been occupied by a scrap yard in the 1980s / 90s although no detailed information is available. This may have resulted in ground contamination, principally with metals, polyaromatic hydrocarbons and petroleum hydrocarbons resulting from any leaks of oils and / or fuels.

5.2.4. The existing building on the site is believed to have been constructed between 2000 and 2006 and the site used as a waste transfer station until modification to a recycling facility in mid-2011. Fuels and oils are stored securely in bunded areas on site, hazardous wastes are not received, and the operational areas are fully provided with paved hardstanding. The WTS is operated under an Environmental Permit and these uses are unlikely to have given rise to any significant ground contamination.

5.2.5. The potential exists for shallow mineworkings on the site and deeper mineworkings from the former Mount Pleasant Colliery are anticipated. The presence of any shallow workings may give rise to mine / ground gas, as could the presence of deep deposits of colliery spoil.

5.2.6. The site lies within an area where 1-3% of homes are estimated to be at or above the Radon Action level.

5.3. Off-Site Sources

5.3.1. The surrounding land has a long history of intensive industrial use including brick works, collieries, gas works and railway lines. Substantial regrading of spoil heaps, and subsequent waste disposal and infilling activities, have occurred in the area and significant depths of made ground are considered likely across the surrounding area.

5.3.2. The adjoining land to the east / northeast formed the Standard Landfill site; the weighbridge and access infrastructure for which was located in the eastern area of the development site. The landfill is now complete and restored to Mount Etna Country Park but remains subject to on-going active landfill gas extraction, the plant for which is located within the application site boundary,

5.3.3. At the time of preparation of this report FCC had provided the Closure Plan⁴ for the former landfill which details the proposed management and maintenance plan for up until such a time as the Permit is surrendered. The closure plan was accepted by NRW in 2018⁵. The Closure Plan includes a Landfill Gas Management Plan detailing the proposed landfill gas monitoring regime; this includes monthly perimeter well monitoring and quarterly reporting to NRW alongside routine monitoring and maintenance of on-site wells and the gas field. The Plan includes a limited summary of landfill gas data up until 2011. This indicates a landfill perimeter well, BH22, to be within the site alongside the gas extraction plant. Very elevated methane concentrations are reported in this well with an average of ~20% v/v over the monitoring period with peak readings of ~40% v/v recorded. A level of 40% v/v in this borehole is the suggested trigger value above which the Emergency Gas Action Plan would be implemented. No further information, such as flow data, or assessment is provided.

⁴ Caulmert Limited, Standard Landfill Site, Standard Closure Plan, for Flintshire County Council Waste Management Services, ref: 3031-CAU-XX-XX-RP-V-0304.AO-C3, November 2017

⁵ Natural Resources Wales, letter to Flintshire County Council, ERP-BP3390VA Standard Landfill, ref: 37073/ML1/05, dated 17 May 2018

5.3.4. The Etna Country Park to the east was also an area of former landfill and is understood to similarly be served by an active gas extraction system.

5.3.5. Two former mine shafts are reported to the south and one to the east. Although locations are unconfirmed, they may pose a potential source of mine gas and act as a preferential migration pathway for gas.

5.3.6. The nearby historic landfilling activities may also give rise to landfill leachate and breakouts of ochreous precipitate have been reported in the area.

5.4. Potential Receptors

5.4.1. The proposal is for the redevelopment of the existing WTS and includes the demolition of the current buildings and construction of new buildings, roads, car parking and storage areas across the site.

5.4.2. The new WTS is to be located in the western area of the site, in the area of the existing WTS. The eastern area is to provide car parking and storage, similar uses to currently. The existing LFG Compound is included within the application boundary but is not to be altered as part of the proposals.

5.4.3. The proposals do not include for a change in the sensitivity of use of the site and they would be considered as low sensitivity for a commercial development scenario with respect to human health. The proposed buildings and structures are to be located in broadly similar locations to presently, with buildings in the west and open areas in the east.

5.4.4. The new development is assumed to be fully provided with surfaced hardstanding. It is assumed all built structures will be constructed using standard construction methods with concrete foundations and require utility connections.

5.4.5. The nearest surface watercourse is approximately 100m from the site. The site is in an area of moderate environmental sensitivity as far as groundwater is concerned with the underlying bedrock supporting a Secondary A aquifer. However, the site is not in an area of aquifer vulnerability or Source Protection Zone.

5.4.6. The principle vulnerable receptors with respect to potential exposure to any soil contamination that may be present for the proposed use will be:

- construction workers who may be exposed to contaminants during preparatory and construction / refurbishment works;
- future site workers and visitors;
- underground services and future maintenance workers accessing such services;

- buildings / structures (building foundations);
- areas of soft landscaping;
- controlled waters (underlying superficial and bedrock aquifers).

5.4.7. Neighbouring developments and landuses or conservation interests are not considered to be potential receptors with respect to potential contamination at the site.

5.5. Human Health Risk Assessment

5.5.1. The status of onsite soils is currently unknown but the potential for significant contamination to be present that may pose an acute risk to construction workers during the development is considered to be moderate / low. Suitable mitigation / occupational hygiene measures should however be implemented and maintained during any excavation works into shallow soils. The only situation that may introduce a higher acute risk would be working in confined spaces where ground gas can accumulate.

5.5.2. The generation of contaminated dust and / or track-out during the construction period may impact neighbouring facilities and users, although is unlikely to pose a high risk.

5.5.3. The majority of the site is currently provided with built development and / or surface hardstanding and this is to be enhanced as part of the redevelopment. The potential for any direct exposure of future site users to any contamination in shallow soils, such as through ingestion and dermal exposure, is therefore negligible.

5.5.4. Given the open nature of existing buildings on site and hardstanding the potential for the build-up of explosive and / or toxic accumulations of ground gas is low. However, the redevelopment may introduce more enclosed buildings and with greater risks of ground gas build up with a potential for ground gas migration primarily via service entries and sides of floor slabs. Further information would be required to confirm the ground gas regime, both from on-site and off-site sources, and determination of any remedial measures required for the development. In particular, this would include reviewing information regarding the landfill gas management regime for the adjoining landfill, including that for the borehole onsite and assessing its effectiveness in preventing off-site gas migration. However based on the available monitoring results for an on-site borehole, mitigation measures would be required for most built development.

5.5.5. The potential for off-site loss of contamination associated with the WTS is considered unlikely, particularly given the operational in accordance with an Environmental Permit, current widespread cover of hardstanding and the bunding of any fuel tanks.

5.6. Property Risk Assessment

5.6.1. Elevated concentrations of sulphates and pyritic materials may be present within the fills which may pose aggressive conditions to concrete. The use of appropriate sulphate resistant concrete during

the redevelopment is likely to be necessary subject to confirmation through intrusive investigations. Similarly a potential for chemical attack on polymer materials used in services exists and requires investigation.

5.7. Controlled Waters Risk Assessment

5.7.1. Groundwater may be present within the underlying ground although is likely to be limited to discontinuous pockets. The nearest surface watercourses is mapped as 95m to the north. Based on existing information, the potential for construction activities to result in the mobilisation of shallow groundwater contamination is considered to be low. However, in the event any unexpected contamination is encountered during construction works suitable precautions will be necessary to ensure contamination mobilisation does not occur.

5.7.2. Historical leaching of the underlying made ground may have resulted in impacts on any shallow groundwater present. However, given the size of the site in the context of the surrounding areas of polluting waste deposits, its overall contribution is likely to be negligible. The existing presence of built development and concrete hardstanding serves to restrict the infiltration of rainwater into the ground and leaching of residual contamination into the shallow groundwater. The proposals would result in enhanced hardstanding surfacing and surface water drainage system and potential risks associated with impacts on controlled waters is negligible.

5.8. Preliminary Conceptual Site Model (CSM)

5.8.1. The preliminary CSM has been derived for the site using the information described above, describing the potential contamination sources, pathways and receptors and is summarised below in Table 5.1:

Table 5.1: Preliminary Conceptual Site Model

Receptor	Source / Contaminant	Pathway / Exposure	Pollutant Linkage (in absence of mitigation)	Further Works
1. humans – construction workers / future maintenance workers	Metals / metalloids / asbestos / PAHs / heavy hydrocarbons	Dermal contact / ingestion / inhalation – short term exposure	Possible – contaminants may be present across the site within shallow soils; concentrations not anticipated to be of significant concern with regards to acute risks, particularly in the relatively recently developed western area, but require confirmation	Site investigation, including shallow soil sampling, to confirm the shallow ground conditions and soil chemistry. Mitigated through use of standard occupational hygiene measures; provision of services in clean trenches
	Ground gas (methane, carbon dioxide)	Accumulation within voids, confined spaces and service runs to toxic concentrations	Possible – Shallow mineworkings and made ground are anticipated to be on site, and adjoining land has been subject to landfilling, which may produce ground gas that can accumulate in confined spaces.	Site investigation to confirm the ground conditions and ground gas regime Mitigated through appropriate assessment and mitigation of risks for any confined space working required
2. humans – adjacent site users and neighbouring residents	Metals / metalloids / asbestos / PAHs / heavy hydrocarbons	Wind blow / dermal contact / ingestion / inhalation	Unlikely – contaminants may be present within shallow soils across the site; however, exposure would be limited under the proposed development plans and use.	Site investigation, including shallow soil sampling, to confirm the shallow ground conditions and soil chemistry. Mitigated through use of standard dust management techniques and other environmental controls during construction
3. humans – future site visitors / workers	Metals / metalloids / asbestos / PAHs / heavy hydrocarbons	Dermal contact / ingestion / inhalation	Unlikely – contaminants may be present within shallow soils across the site; however, exposure would be limited under the proposed development plans and use.	Site investigation, including shallow soil sampling, to confirm the shallow ground conditions and soil chemistry. Mitigated through provision of surfaced hardstanding / built development / cover soils

Receptor	Source / Contaminant	Pathway / Exposure	Pollutant Linkage (in absence of mitigation)	Further Works
	Ground gas (methane, carbon dioxide)	Accumulation within voids, confined spaces and service runs to toxic concentrations	Likely – Made ground is expected on site and shallow mineworkings may be present which may give rise to on-site ground gas. Adjoining land has been subject to recent landfilling; subject to active gas extraction but potential for on-site migration cannot be discounted at this stage.	Site investigation and assessment to confirm the ground conditions and ground gas regime Mitigated through provision of gas protection measures
	VOC vapours from soil/groundwater sources			No Action unless viable pollutant sources identified during investigation or construction
	Radon gas from natural ground		Very Unlikely – <1% of homes are estimated to be at or above the Action level.	No Actions anticipated gas protection will manage residual risks
4. property / services	Ground gas (methane)	Accumulation within voids, confined spaces and service runs to flammable concentrations	Likely – Made ground is expected on site and shallow mineworkings may be present which may give rise to on-site ground gas. Adjoining land has been subject to recent landfilling; subject to active gas extraction but potential for on-site migration cannot be discounted at this stage	Site investigation and assessment to confirm the ground conditions and ground gas regime Mitigated through provision of gas protection measures
	pH, sulphate	Chemical attack of buried concrete and plastic materials	Possible – Sulphates and pyritic materials may be present within made and natural ground.	Site investigation, including shallow soil sampling, to confirm the shallow ground conditions and soil chemistry, including pH and soluble sulphate analysis within any geotechnical testing. Provision of sulphate resistant concrete and suitable water pipe materials
4. vegetation / landscaping	leachable metals / metalloids may be present within made ground / natural soils	plant uptake	Very Unlikely – It is assumed that no landscaped areas are proposed.	No actions, unless areas of soft landscaping proposed

Receptor	Source / Contaminant	Pathway / Exposure	Pollutant Linkage (in absence of mitigation)	Further Works
5. ecosystems / protected species & habitats	leachable metals / metalloids may be present within made ground / natural soils	Dermal contact / ingestion / inhalation – short term exposure	Unlikely – SSSI and SAC adjacent to the north/northeast boundary. However, impacts from ground contamination are not likely to be higher than the surrounding areas and the contribution from the site following development is likely to be negligible	No Action unless viable pollutant sources identified during investigation or construction
6. surface waters	Leachable metals / metalloids / asbestos / PAHs / hydrocarbons	migration via shallow groundwater / surface water run-off.	Unlikely – Any sources of contaminants with the potential to impact controlled waters found on site are unlikely to affect the river due to the distance from site (95m N).	No Action unless viable pollutant sources identified during investigation or construction
7. groundwater – undifferentiated aquifer within Glacial Till	Leachable metals / metalloids / asbestos / PAHs / hydrocarbons	migration via saturated zone	Unlikely – presence of hardstanding / built development across the site would prevent the mobilisation of any contamination within any shallow groundwater; the contribution of any contamination from the site is considered trivial when compared to the surrounding area.	No Action unless viable pollutant sources identified during investigation or construction
8. groundwater – Secondary A aquifer within bedrock	Leachable metals / metalloids / asbestos / PAHs / hydrocarbons	migration via saturated zone	Unlikely – presence of hardstanding / built development across the site would prevent the mobilisation of any contamination within any shallow groundwater; the contribution of any contamination from the site is considered trivial when compared to the surrounding area.	No Action unless viable pollutant sources identified during investigation or construction

5.9. Additional Considerations

Ground Stability

5.9.1. The site is located within an area where natural soils are classed as posing low to no hazard of landslides, collapsible ground, running sand, compressible ground, dissolution, or shrinking and swelling clay hazards. However, the site is likely to be underlain by deep made ground which may be unstable and unsuitable for supporting structures.

Mining Risk Assessment

5.9.2. The site has been identified in area of risk due to former shallow mineworkings which can cause instability if there is less than 20m rock cover to underground workings.

5.9.3. Two former mineshafts have been identified within about 10m of the site. These are mapped as being on the strip of land associated with the adjoining facility to the immediate south of the WTS. The shafts are believed to have been infilled in the late 1960s but no information is available on any capping or subsequent remedial works carried out to these shafts. They only be provided with thin concrete caps or steelwork and any fill may have since settled creating a void under any cap.

5.9.4. Old mining wastes may be combustible depending on its coal content. There appears to be no evidence of combustion or potential combustion at the site.

Ecological Considerations

5.9.5. Anecdotal information provided by the FCC stated that Great Crested Newts are known to be found in the area.

UXO Risk Assessment

5.9.6. The UXO screening assessment has identified the site as being located in an area of low risk with regard to potential unexploded ordnance. No further assessment of potential UXO risk is deemed necessary.

6. Conclusions and Recommendations

6.1. Conclusions

- 6.1.1. The site was originally occupied by part of a spoil tip associated with the adjoining Mount Pleasant Colliery and possibly the Standard Brick and Terra Cotta works. The tip appears to have been levelled sometime in the 1970s following closure of the colliery and later the brickworks. To the north, a series of claypits were used for a large landfill, part of which appears to have extended onto the site, although this may not necessarily include waste deposits. Land to the immediate southeast was redeveloped to an industrial estate, initially comprising a single large works (now occupied by Spencer Industrial) and later followed by additional smaller units. The site itself is understood to have been occupied by a scrap yard in the 1980s / 90s although no information is available regarding this. The existing building on the site is believed to have been constructed in about 2008 and the site has been used as a waste transfer station since then.
- 6.1.2. No information is available as to the current ground conditions across the site or the contamination status. In addition, no information is available to indicate whether any intrusive investigations or remedial works were undertaken at the time of the construction of the existing WTS building. Colliery spoil, and possibly other waste, is expected across the site and may extend to >5m bgl. The presence of other deleterious materials (metals, wood etc) within the residual underlying spoils cannot be completely discounted at this stage.
- 6.1.3. The underlying spoils may contain moderately elevated concentrations of metals and metalloids and polyaromatic hydrocarbons (PAHs). Asbestos containing materials may also be present. Contamination of the underlying soils with hydrocarbons (fuels and oils) may also have arisen from the historical use of the site as a scrap yard. Sulphates and pyritic materials may be present which pose aggressive conditions for concrete.
- 6.1.4. The proposals include for the provision of surfaced hardstanding and built development across the site. Significant risks to human health and controlled waters from any residual underlying contamination are not indicated, although should be subject to confirmation. Potential risks to structures and services are also likely to be low but should be confirmed.
- 6.1.5. The underlying spoils and made ground, possible shallow mineworkings and nearby mine shafts, may also give rise to ground / mine gas. The adjacent former landfill site may also give rise to on-site gas migration. It is known the landfill is served by an active gas extraction system, the compound for which is located within the site but outside the formal application boundary, and the landfill remains subject to routine management and monitoring under an Environmental Permit. The LFG compound is to remain in place and subject to continued operation and maintenance. The potential for on-site gas migration from the landfill cannot

however be discounted at this stage and evidence from monitoring data provided to SGP to date indicates elevated landfill gas is present on the site.

6.1.6. Ground gas may pose a risk to the proposed recycling facility development, particularly in confined or poorly ventilated habitated spaces, such as offices and further ground gas risk assessment is required to confirm the ground gas regime and remedial requirements.

6.1.7. The site is within an area where <1% of homes lie above the Radon Action Level; radon protection measures are not required in new buildings or extensions.

6.2. Recommendations

6.2.1. It is recommended an intrusive site investigation is carried out across the site to determine the ground conditions and contamination status of the shallow soils. Such works could be completed concurrently with any geotechnical investigation undertaken to inform the structural design / bearing capacity. Sampling of the soils should include analysis for a range of typical industrial contaminants including pH, metals, fractionated hydrocarbons, speciated PAHs, sulphates / sulphur and asbestos.

6.2.2. A gas monitoring programme will be required to inform the ground gas regime across the site. This should be informed by further information relating to the Standard Landfill and existing landfill gas status including review of the routine perimeter gas well monitoring data and NRW inspection reports.

6.2.3. The findings of the investigations would be used to inform the remedial requirements with regards to ground contamination and ground gas risks, including mitigation measures required during the construction works and to be incorporated within the built development.

6.2.4. Under current development proposals, a ground gas risk assessment is considered necessary. However industrial units are of low sensitivity with respect to future site users and can be managed through gas protection measures incorporated into the building design under most circumstances.

6.2.5. The scope of the contamination intrusive investigations and ground gas assessment should be agreed in advance with the FCC Contaminated Land Officer. However, SGP considers that the site is suitable for the proposed use with regards to ground contamination subject to the implementation of certain mitigation measures which will be informed by further investigations and assessment. There is no reason why the requirements for site investigation should not be included as a standard contaminated land condition in any grant of planning consent for the proposed development.

6.3. Other Considerations

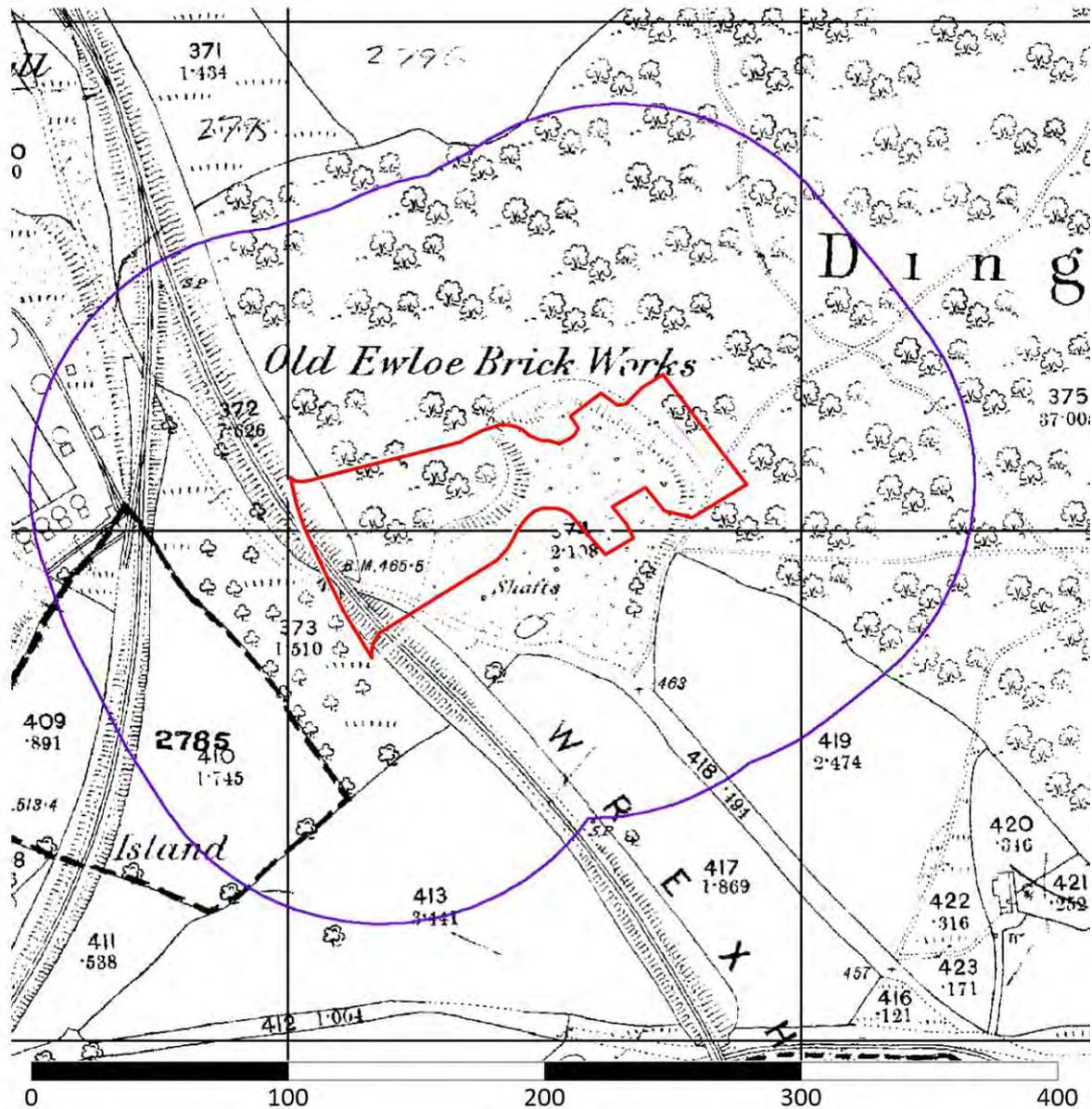
- 6.3.1. The presence of substantial depths of made ground and possible presence of spoil would need further investigation and assessment to inform the structural design / bearing capacity.
- 6.3.2. Shallow mineworkings may exist on the site and investigations are required to determine the depth and condition of any such workings and the overlying deposits to confirm remedial requirements. This should be undertaken as described in the CMRA.
- 6.3.3. No information is available on the current status of the two former mine shafts located within 10m of the southeastern boundary of the site. Any zone of collapse of the shaft might migrate onto the site, depending on the ground conditions and the design of the development structures and supporting infrastructure should consider the potential for collapse and ground disturbance migration onto the site from these features.
- 6.3.4. The LFDG Compound associated with the adjoining former landfill lies outside the formal application boundary and no alterations to this are proposed as part of the development. It is assumed that this will be retained and maintained over the lifetime of the development, or as long as is required under the terms of the landfill permit / closure plan.

6.4. Limitations

- 6.4.1. This report has been prepared by SGP for the sole and exclusive use of Flintshire County Council / Axis P.E.D. Ltd. Reasonable skill, care and diligence has been exercised within the budget available, and in accordance with the technical requirements of the brief. Notwithstanding the efforts made by the professional team in undertaking the assessment and preparing this report, it is possible that other ground conditions and contamination as yet undetected may exist. Reliance on the findings of this report must therefore be limited accordingly. Such reliance must be based on the whole report and not on extracts which may lead to incomplete or incorrect conclusions when taken out of context.
- 6.5. SGP reserves the right to alter any of the foregoing information in the event of new information being disclosed or provided and in the light of changes to legislation, guidelines and responses by the statutory and regulatory authorities.

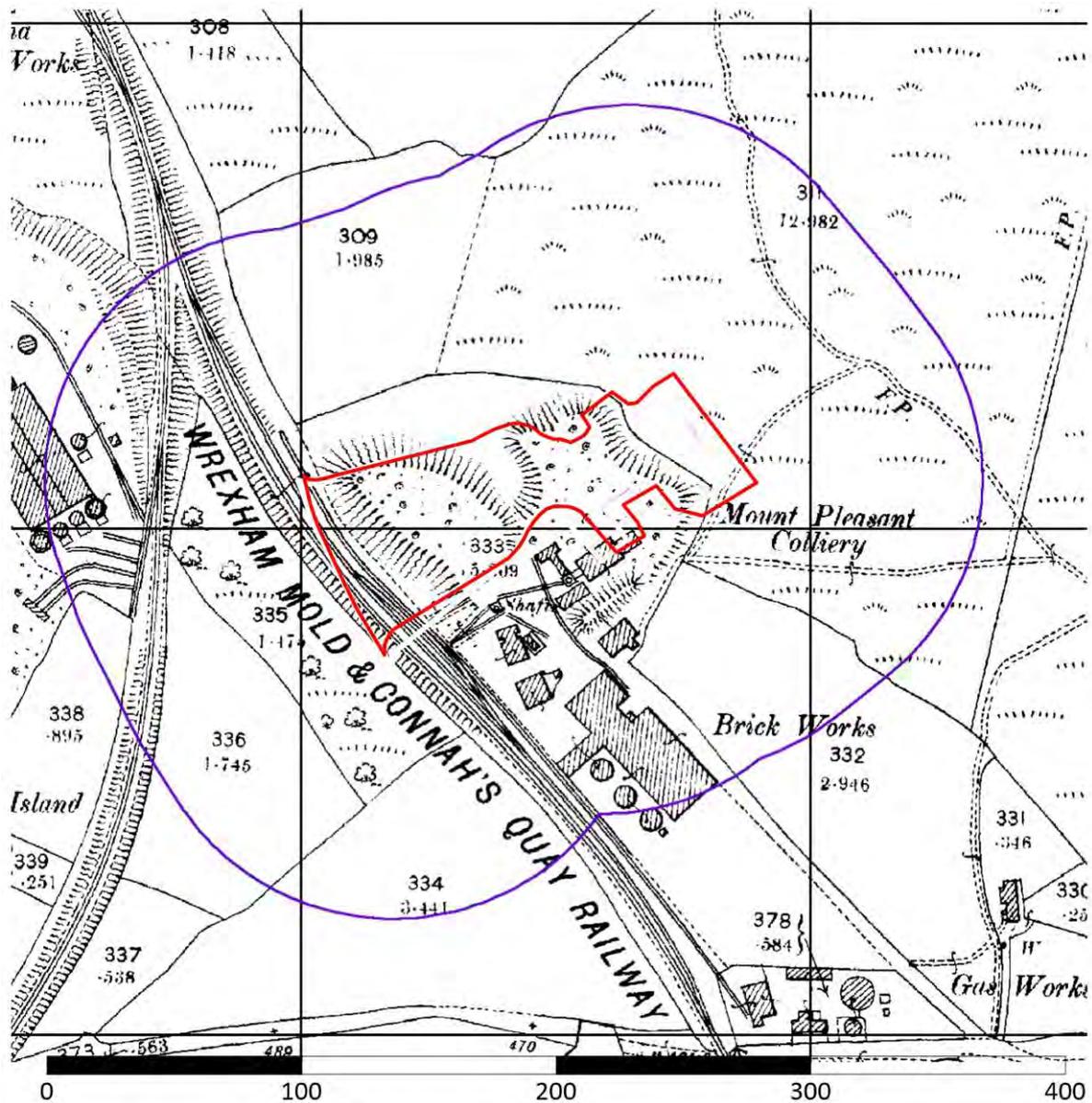
DRAWINGS

Note: Site boundary is indicative, for actual formal boundary refer to planning application drawings



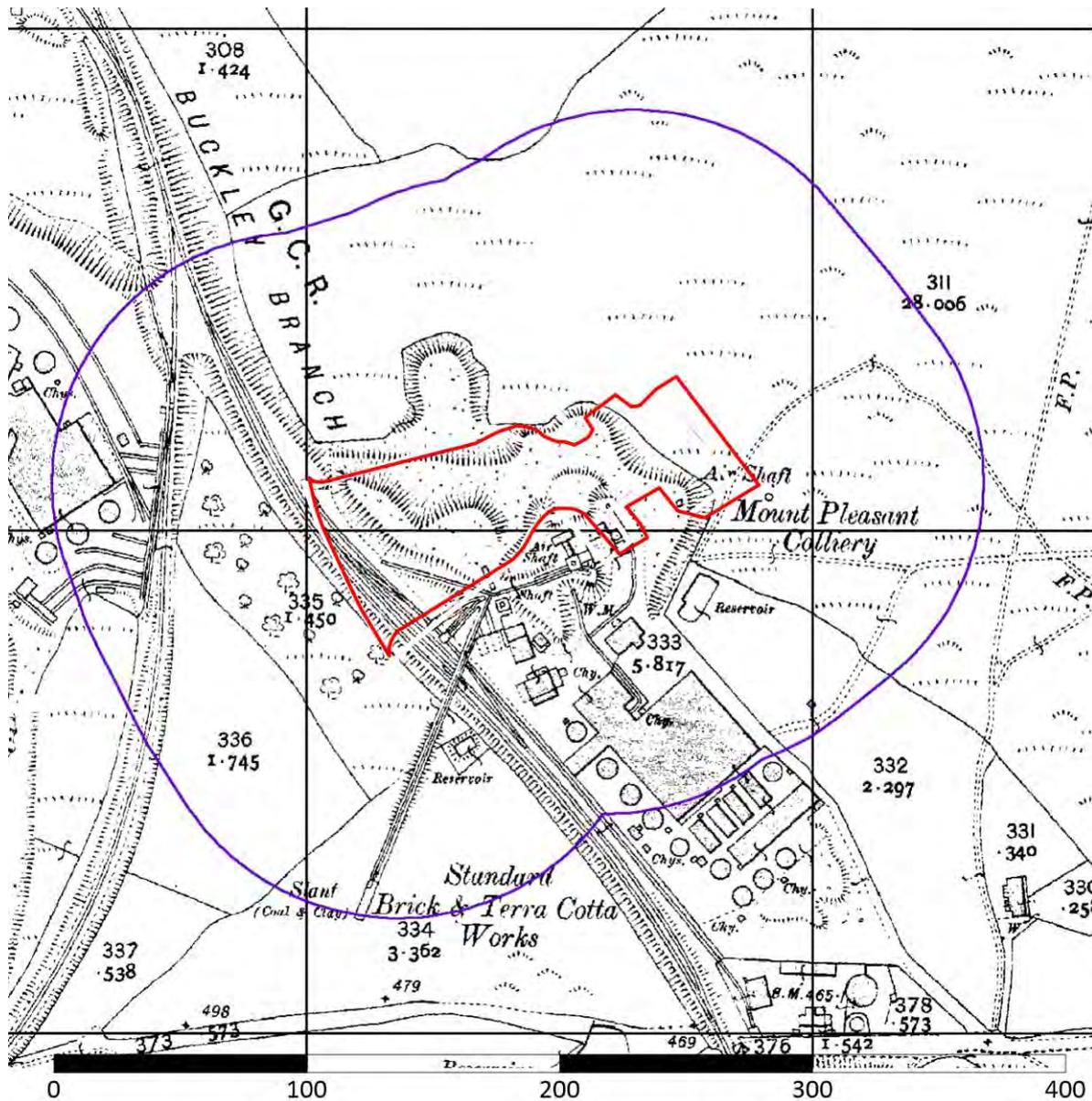
Ordnance Survey: © Crown copyright. All rights reserved. Licence number 10005799

D01: Historical Map – 1865-1879 (1:2,500 scale)



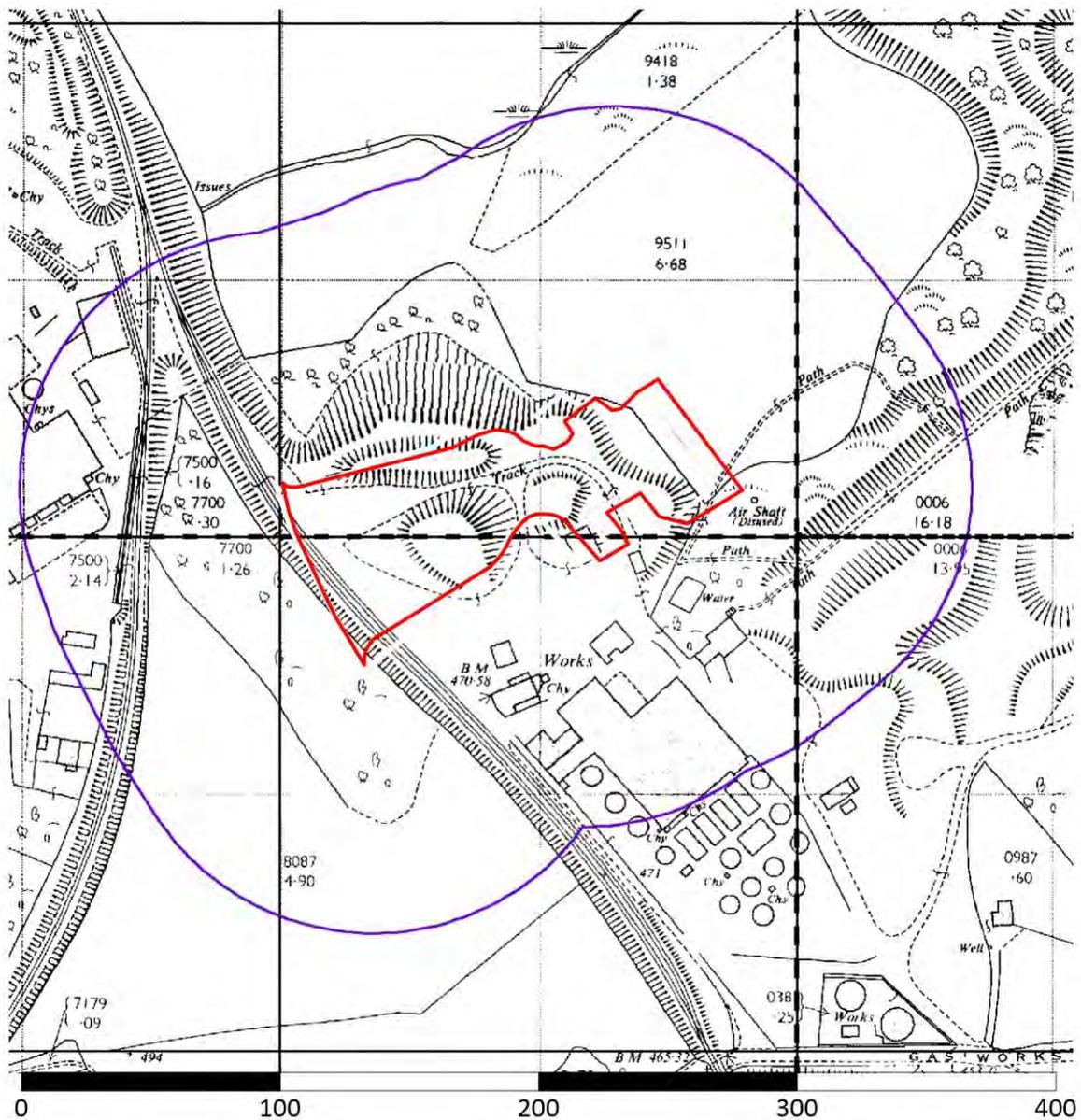
Ordnance Survey: © Crown copyright. All rights reserved. Licence number 100005799

D02: Historical Map – 1899 (1:2,500 scale)



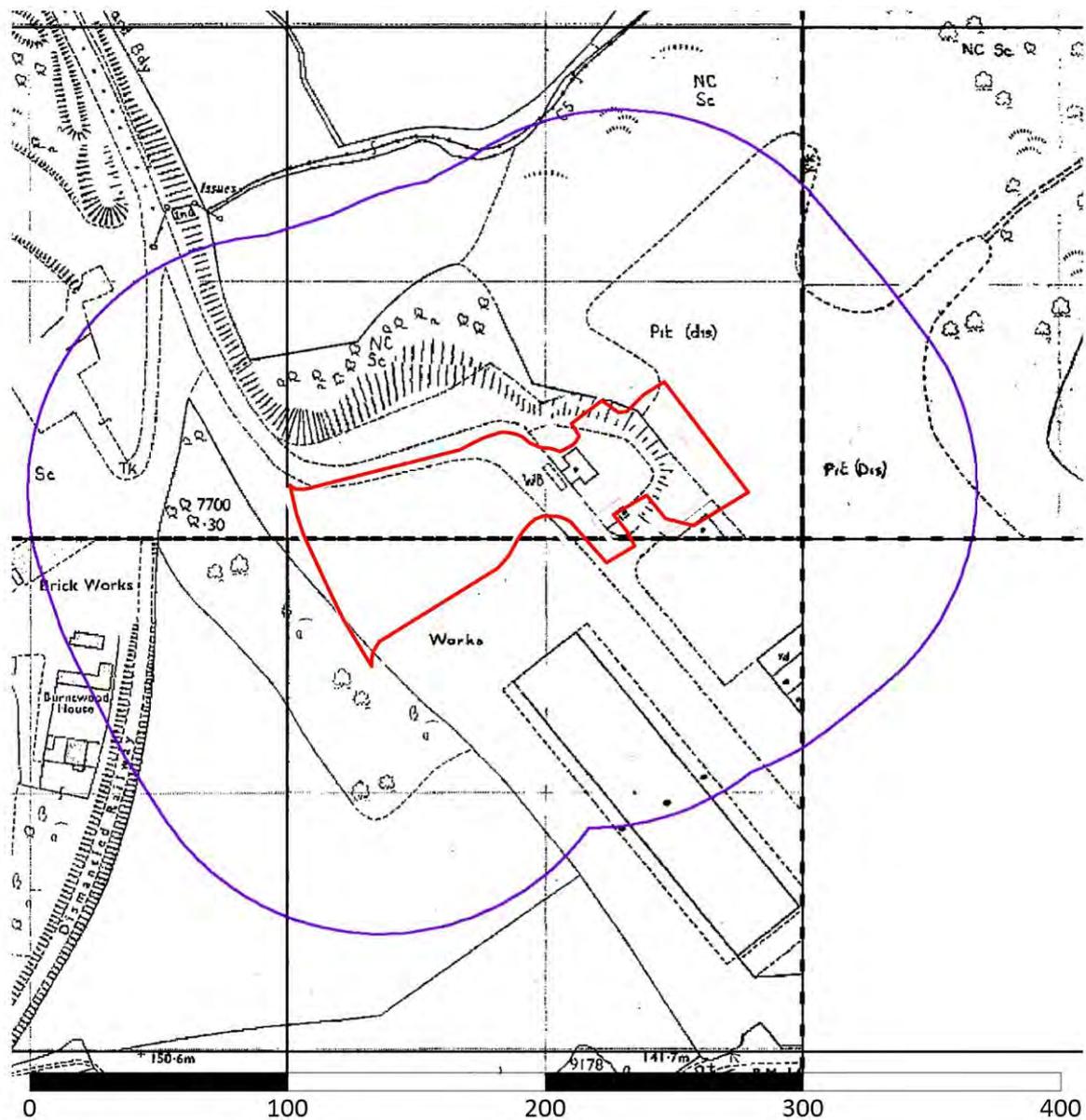
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D03: Historical Map – 1912 (1:2,500 scale)



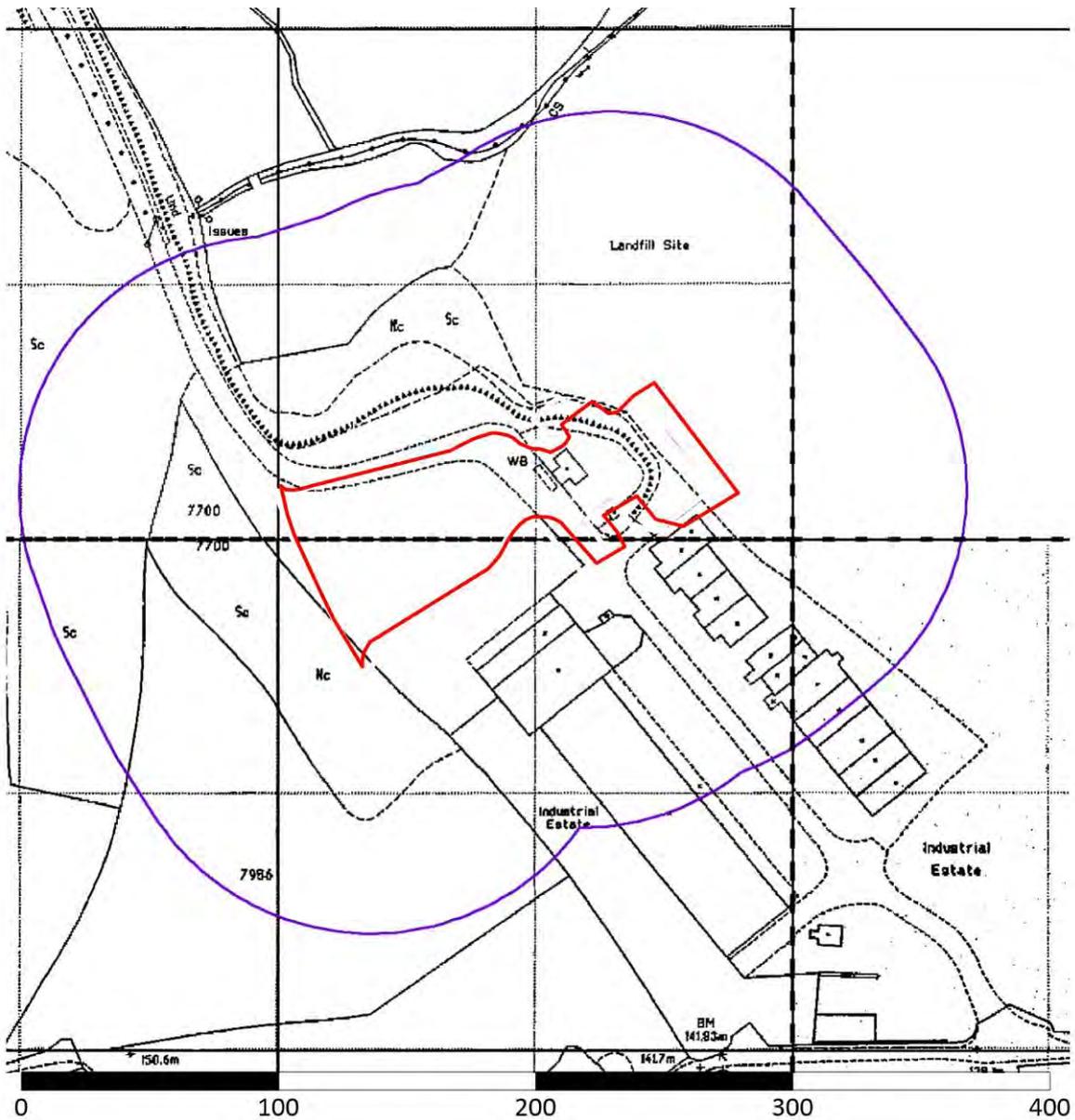
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D04: Historical Map – 1964-1965 (1:2,500 scale)



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D05: Historical Map – 1977-1989 (1:2,500 scale)

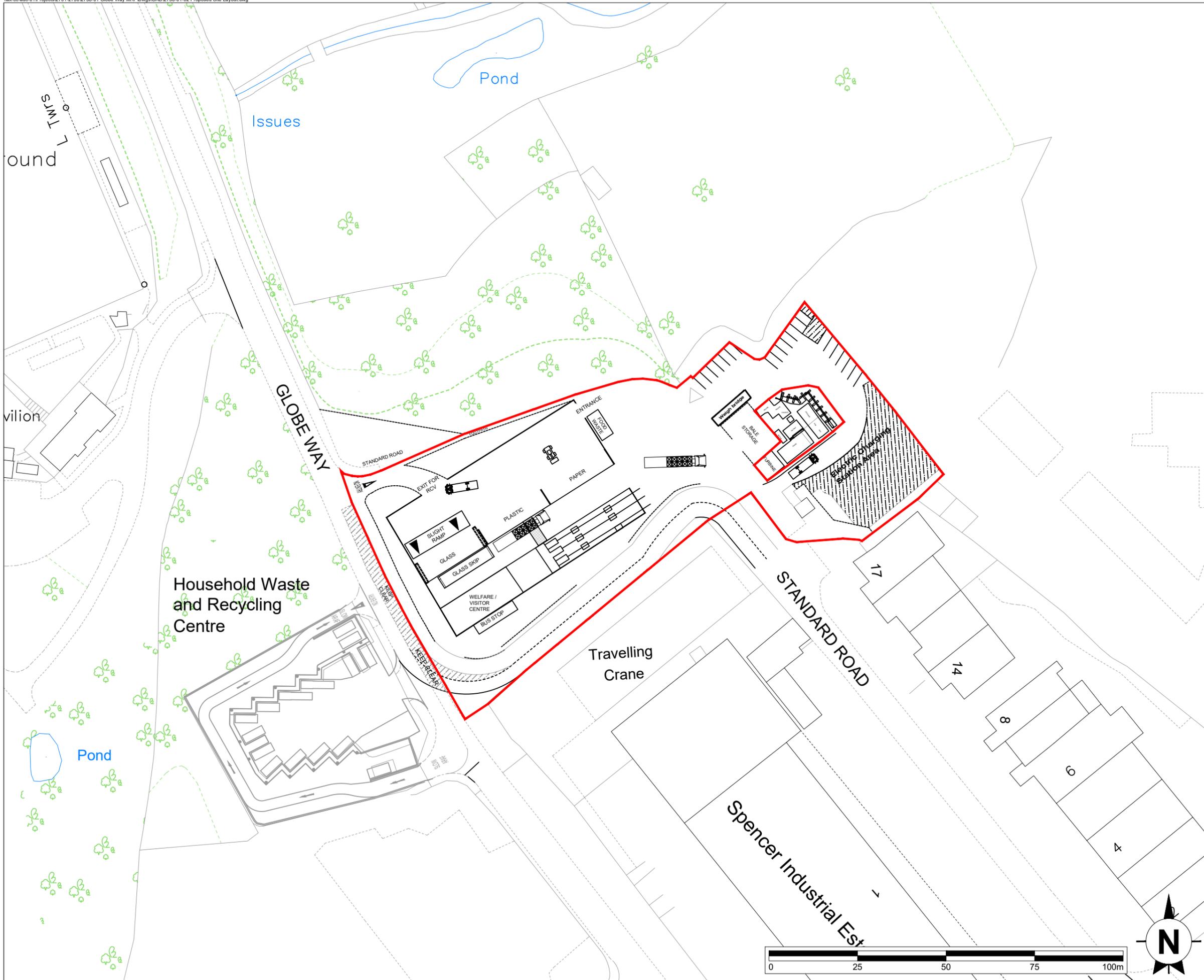


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D06: Historical Map – 1992-1993 (1:2,500 scale)

APPENDIX A

Proposed Layout



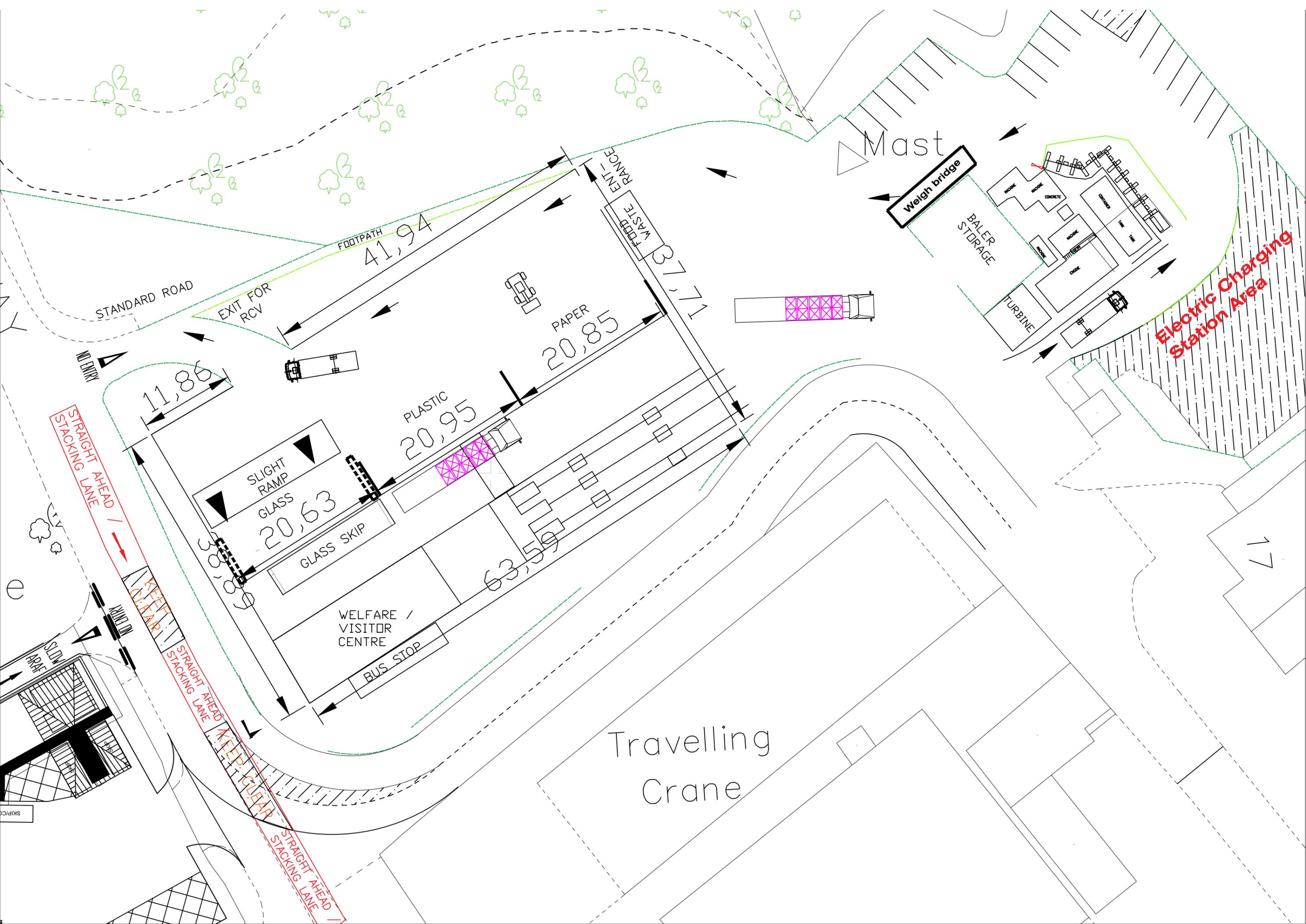
This drawing is the copyright of AXIS P.E.D Limited and may not be loaned, copied or reproduced in any way - or used for any offer, quote, tender or construction purposes without written consent of the company to do so

Follow any figured dimensions - do not scale for construction purposes. IF IN DOUBT ASK.

• Revision History • Date

Revision History	Date

Chester Office: Well House Square Chester CH4 8DH	South Manchester Office: Cavendish House 74 Water Lane Wilmslow SK9 6SL	axis 0844 8700 007 • www.axisped.co.uk
client: FLINTSHIRE COUNTY COUNCIL		
project: STANDARD ROAD WASTE TRANSFER STATION		
drawing title: PROPOSED SITE LAYOUT		
date: October 2020	drawn by: SM	checked: SH
drawing number: 2738-01-02	status: --	rev: --
scale(s): 1:1000@A3	planning environment design	



STANDARD ROAD

EXIT FOR RCV

FOOTPATH
41,94

WASTE
ENTRANCE
37,17

PAPER
20,85

PLASTIC
20,95

GLASS
20,63

GLASS SKIP

WELFARE /
VISITOR
CENTRE

BUS STOP

Mast

Weigh bridge

BALERS
STORAGE

TURBINE

Electric Charging
Station Area

Travelling
Crane

STRAIGHT AHEAD
STACKING LANE

KEEP CLEAR

STRAIGHT AHEAD
STACKING LANE

KEEP CLEAR

STRAIGHT AHEAD
STACKING LANE

11,86

SLOW
AREA

17

APPENDIX B

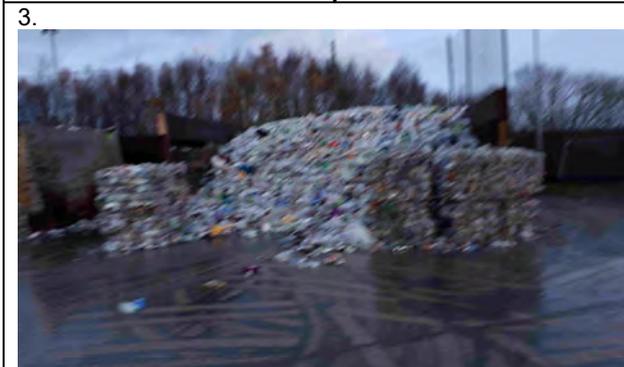
Photographic Record



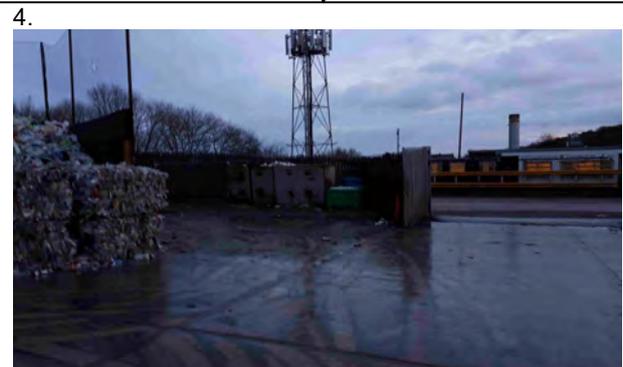
05.12.2019 – SW area: main yard



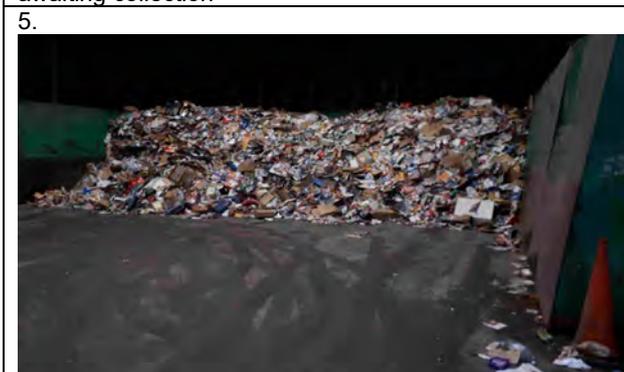
05.12.2019 – SW area main yard



05.12.2019 – SW area main yard: baled plastic wastes awaiting collection



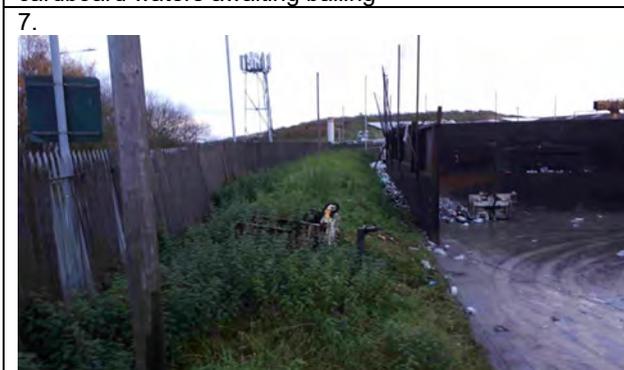
05.12.2019 – SW area: main yard entrance



05.12.2019 – SW area: building internal – paper and cardboard wastes awaiting bailing



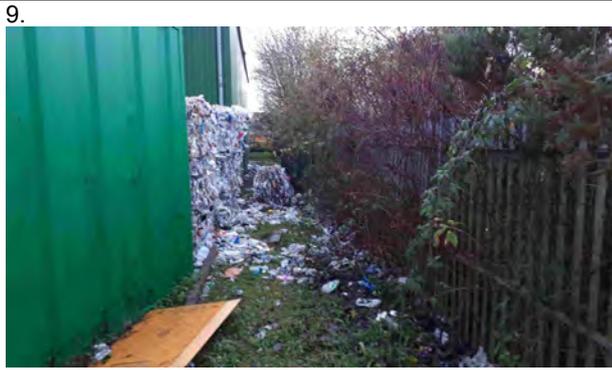
05.12.2019 – SW area side yard: baled steel and aluminium cans awaiting collection



05.12.2019 – SW area: N. boundary to WTS soil bund



05.12.2019 SW area: N. Boundary to WTS soil bund



05.12.2019 – SW area W boundary



05.12.2019 – SW area south boundary: red diesel store in bunded tank, lube oil and other chemicals stored in secure container



05.12.2019 – Bisecting Standard Road Weighbridge: Offices and mess to north



05.12.2019 – NE area spare covered skips for Christmas food waste



05.12.2019 – NE area landfill gas engine compound: collection point



05.12.2019 - NE area landfill gas engine compound: cleaning and engine / generator



05.12.2019 – NE area northeast boundary onto landfill



05.12.2019 - NE area Northeast boundary onto landfill

17.

18.



05.12.2019 – NE area eastern corner, relict slab from landfill operation

19.



05.12.2019 – NE area eastern corner, relict slab from landfill operation

20.



05.12.2019 – NE area 2 bunded fuel oil tanks in landfill gas engine compound

21.



05.12.2019 – NE area bund holding clean water

22.



05.12.2019 – NE area oil containers in landfill gas engine compound

23.



05.12.2019 – NE area switch box to rear of external substation

24.



05.12.2019 – NE area transformer adjacent to mess / office & entrance road

13.



05.12.2019 – NE area adjacent sub stations adjacent to entrance road (external to site)

14.

APPENDIX C

Envirocheck Report (including Historical Maps)

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	-285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		
	Bracken		Heath
	Rough Grassland		
	Marsh		Reeds
	Saltings		
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		
	Standard Gauge Single Track		
	Siding, Tramway or Mineral Line		
	Narrow Gauge		
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

1:10,000 Raster Mapping

	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	MHW(S) Mean high water (springs)		MLW(S) Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building

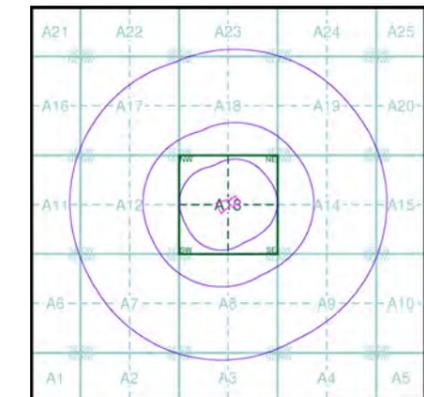
Envirocheck

LANDMARK INFORMATION GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Flintshire	1:10,560	1871	2
Flintshire	1:10,560	1881	3
Cheshire	1:10,560	1900	4
Flintshire	1:10,560	1900	5
Cheshire	1:10,560	1914	6
Flintshire	1:10,560	1914	7
Flintshire	1:10,560	1938	8
Flintshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1954	10
Ordnance Survey Plan	1:10,000	1963 - 1966	11
Ordnance Survey Plan	1:10,000	1967 - 1969	12
Ordnance Survey Plan	1:10,000	1969	13
Ordnance Survey Plan	1:10,000	1970 - 1978	14
Ordnance Survey Plan	1:10,000	1982 - 1983	15
Ordnance Survey Plan	1:10,000	1988	16
Ordnance Survey Plan	1:10,000	1991 - 1992	17
10K Raster Mapping	1:10,000	1999 - 2000	18
10K Raster Mapping	1:10,000	2006	19
VectorMap Local	1:10,000	2019	20

Historical Map - Slice A



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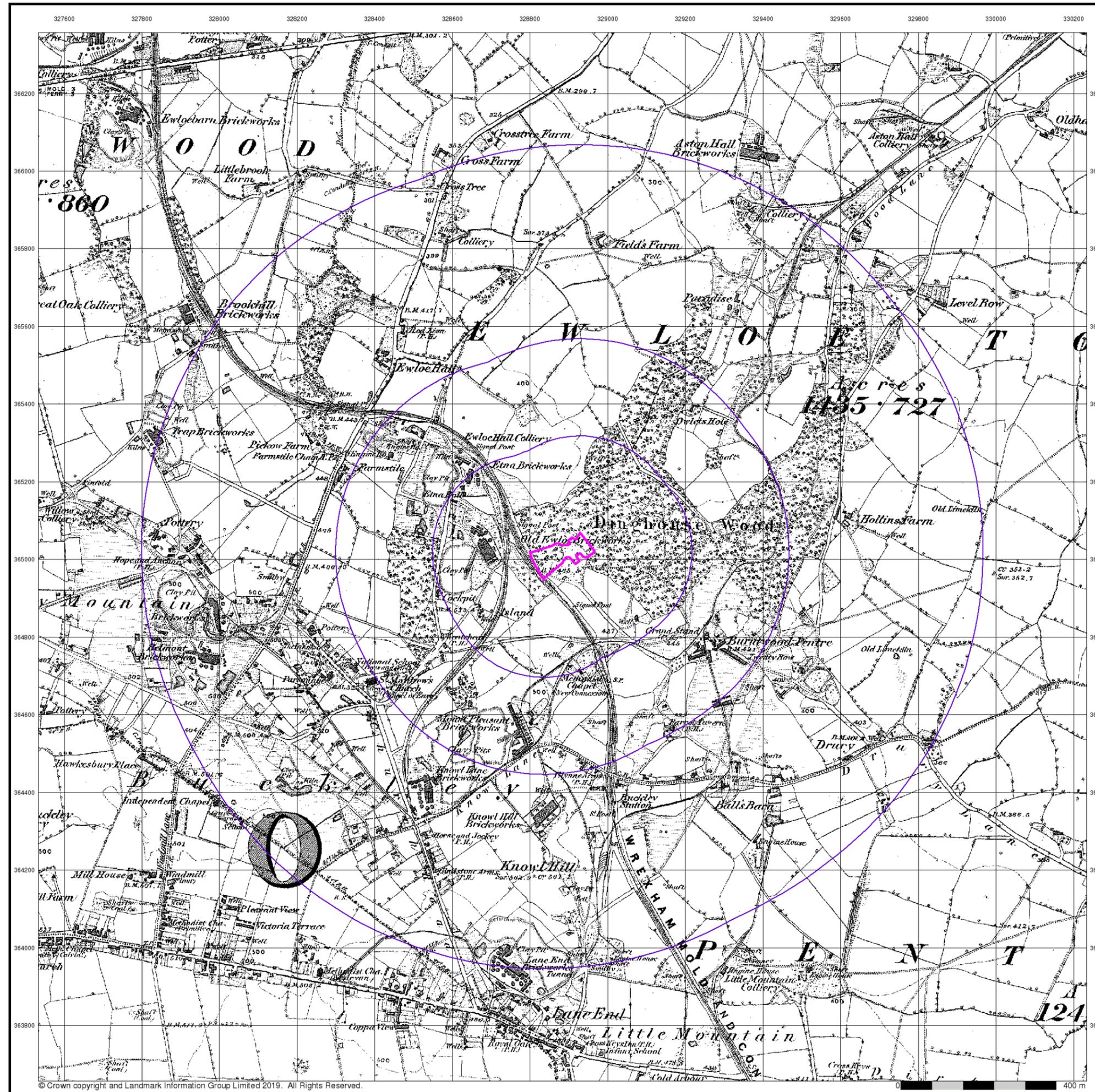
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 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Landmark
 INFORMATION GROUP

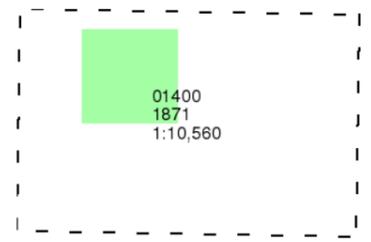
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



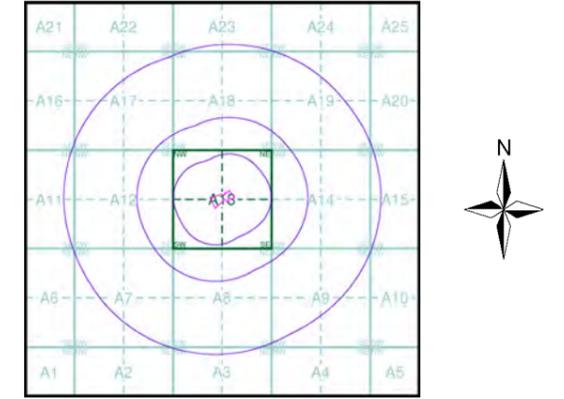
Flintshire
Published 1871
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

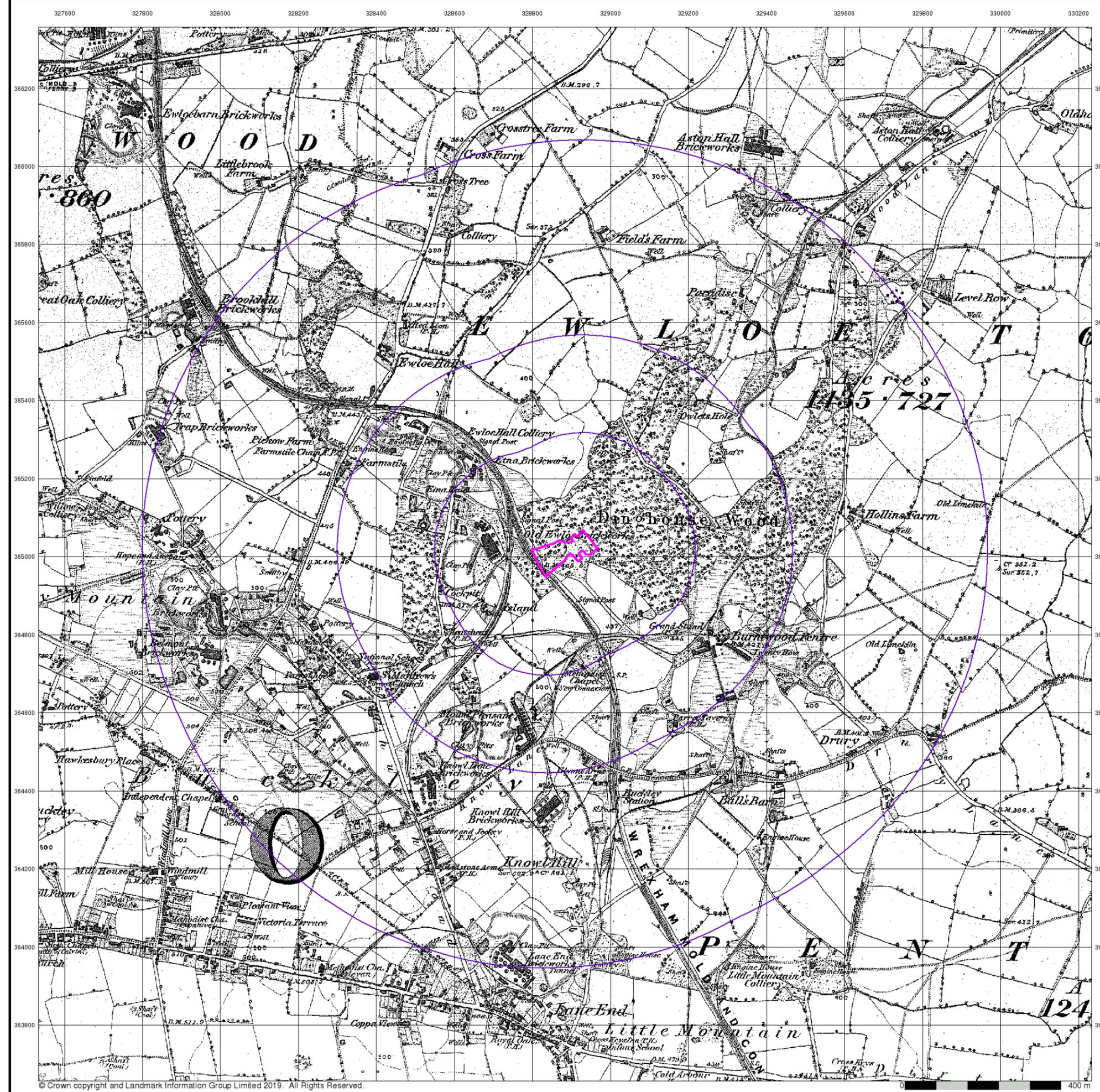


Historical Map - Slice A



Order Details
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Site Details
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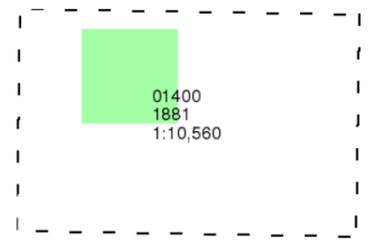


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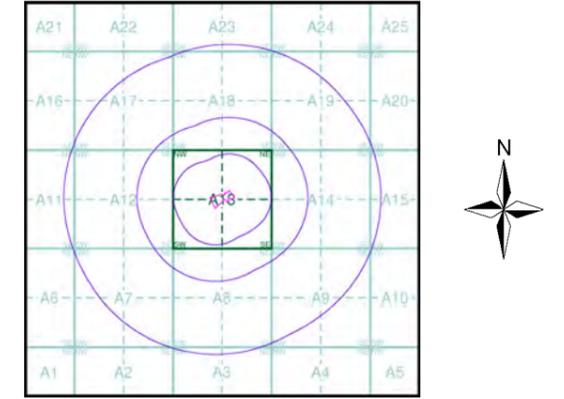
Flintshire
Published 1881
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details
 Order Number: 227445982_1_1
 Customer Ref: R2817
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Site Details
 Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

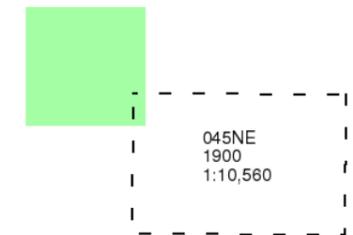
Cheshire

Published 1900

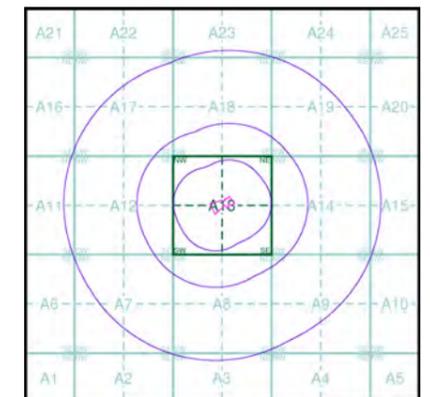
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

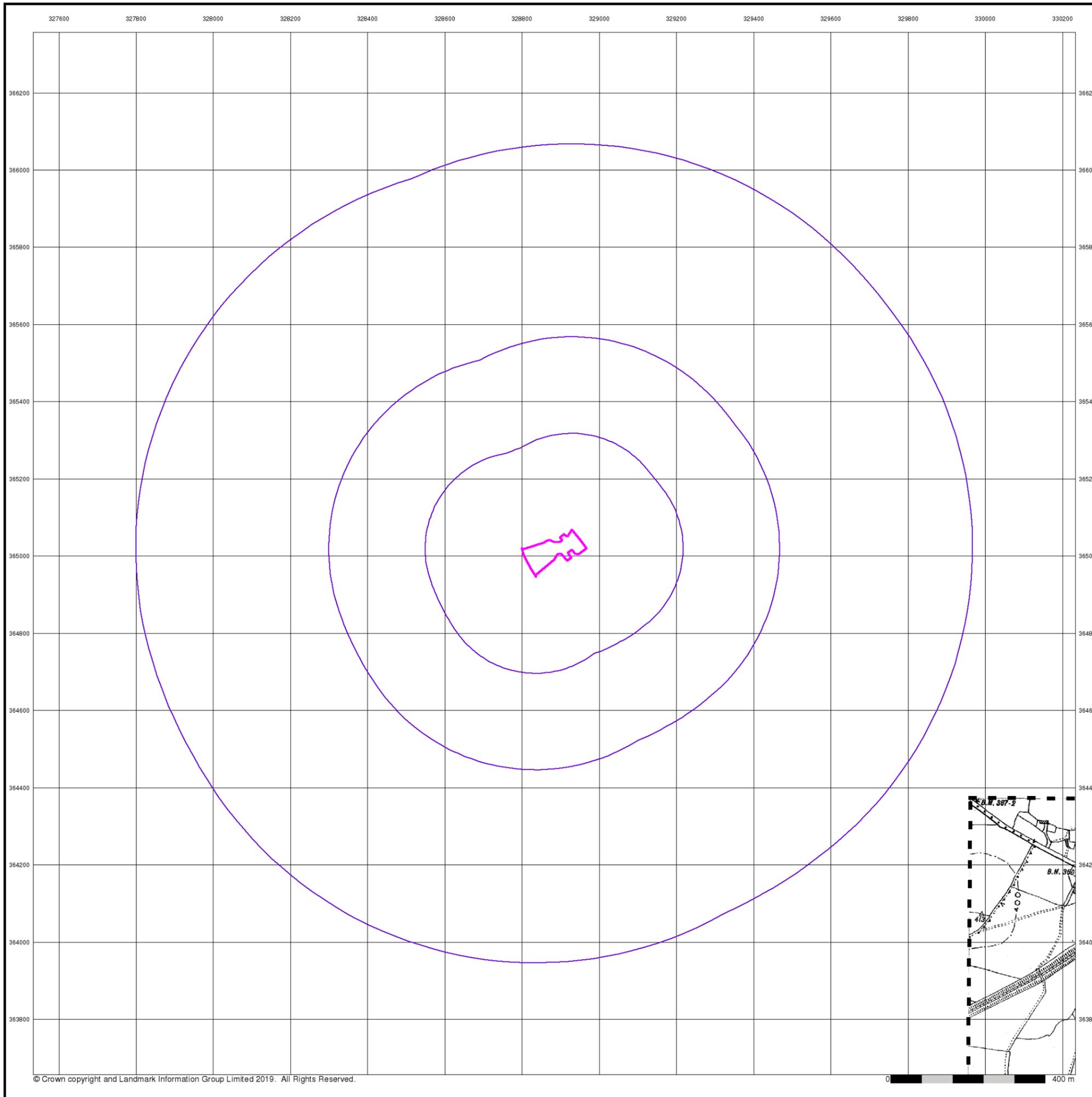


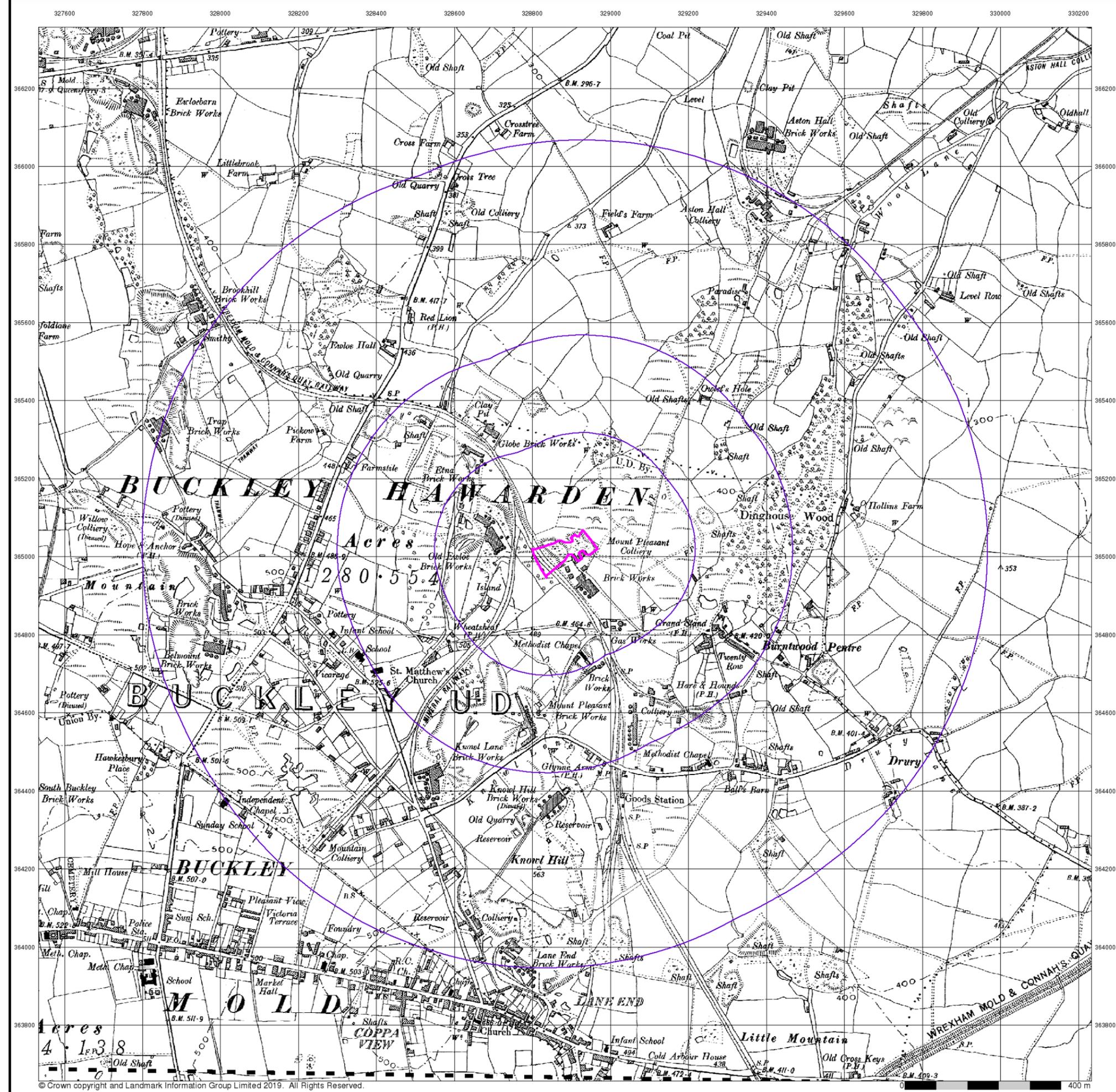
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Customer Ref: R2817
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Slice: A
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Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY





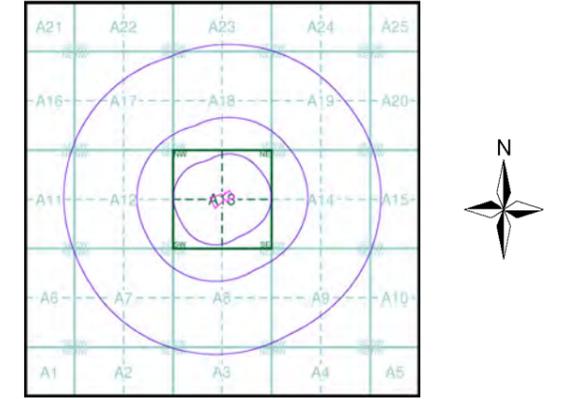
Flintshire
Published 1900
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

014NW	1900	1:10,560
014SW	1900	1:10,560

Historical Map - Slice A



Order Details
 Order Number: 227445982_1_1
 Customer Ref: R2817
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 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details
 Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

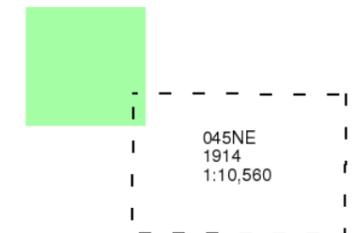
Cheshire

Published 1914

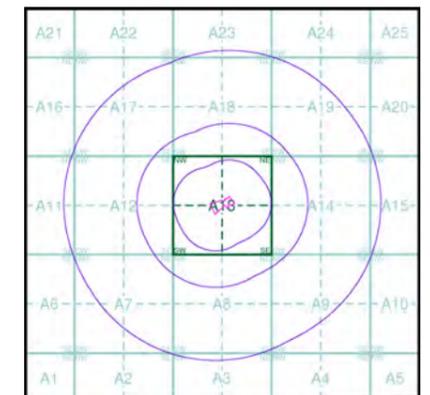
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

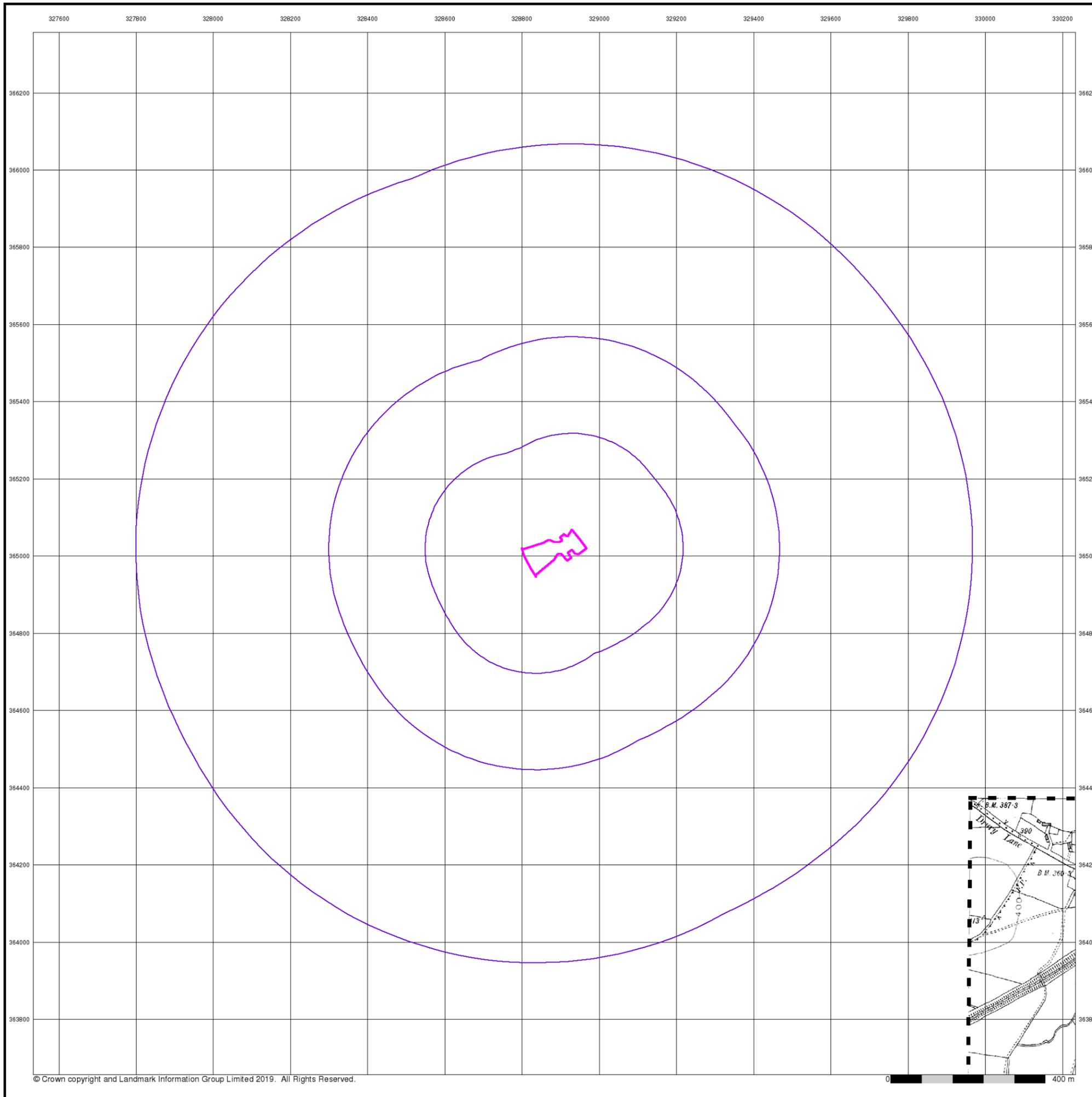


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
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 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



Flintshire

Published 1914

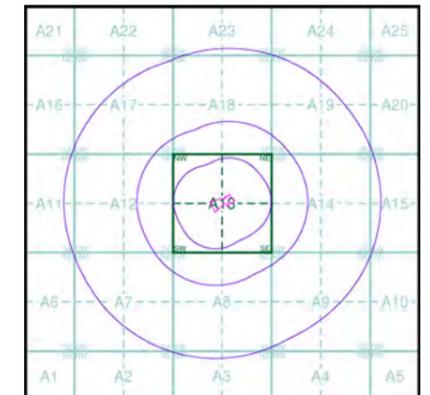
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

014NW	1914	1:10,560
014SW	1914	1:10,560

Historical Map - Slice A

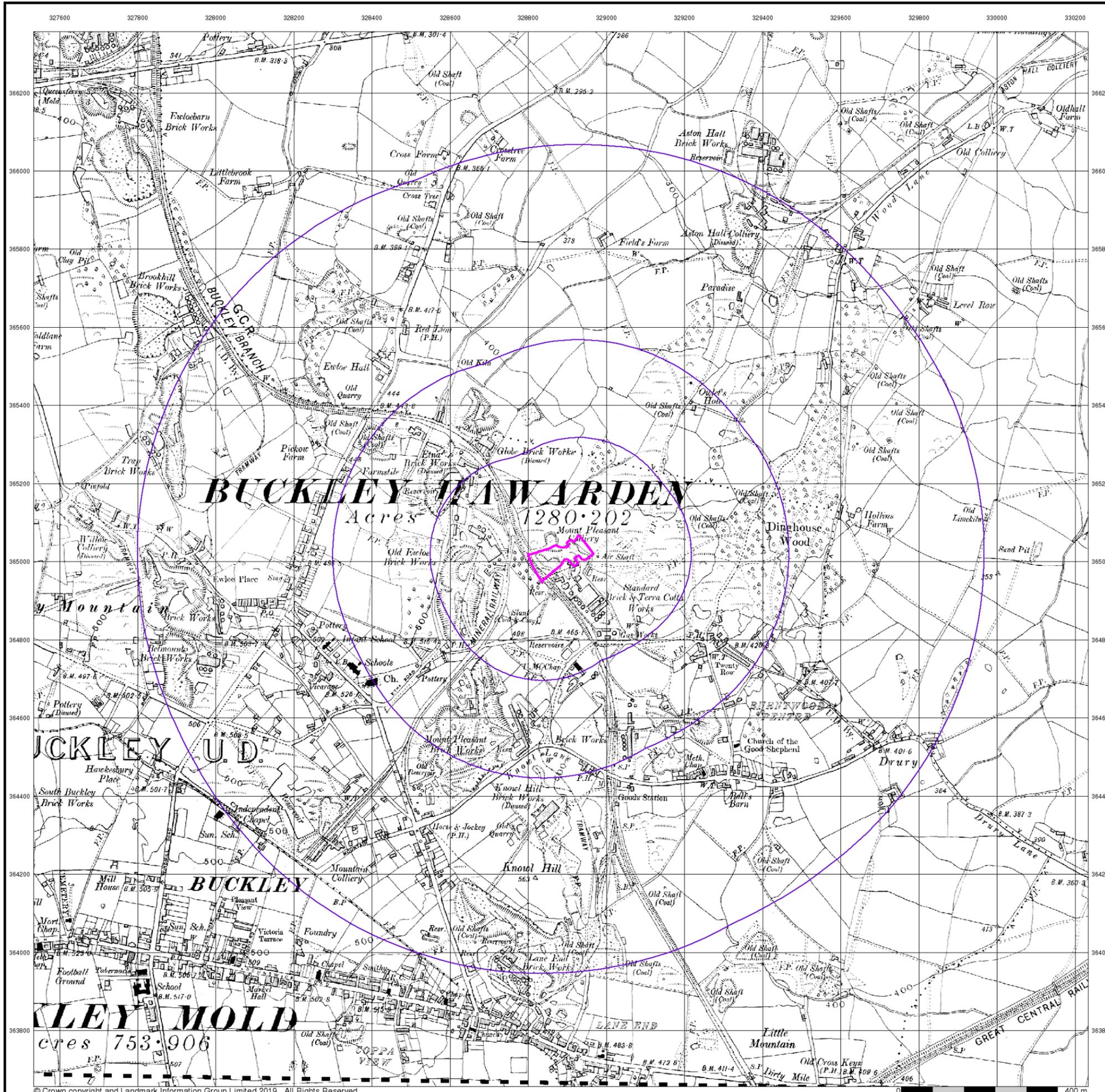


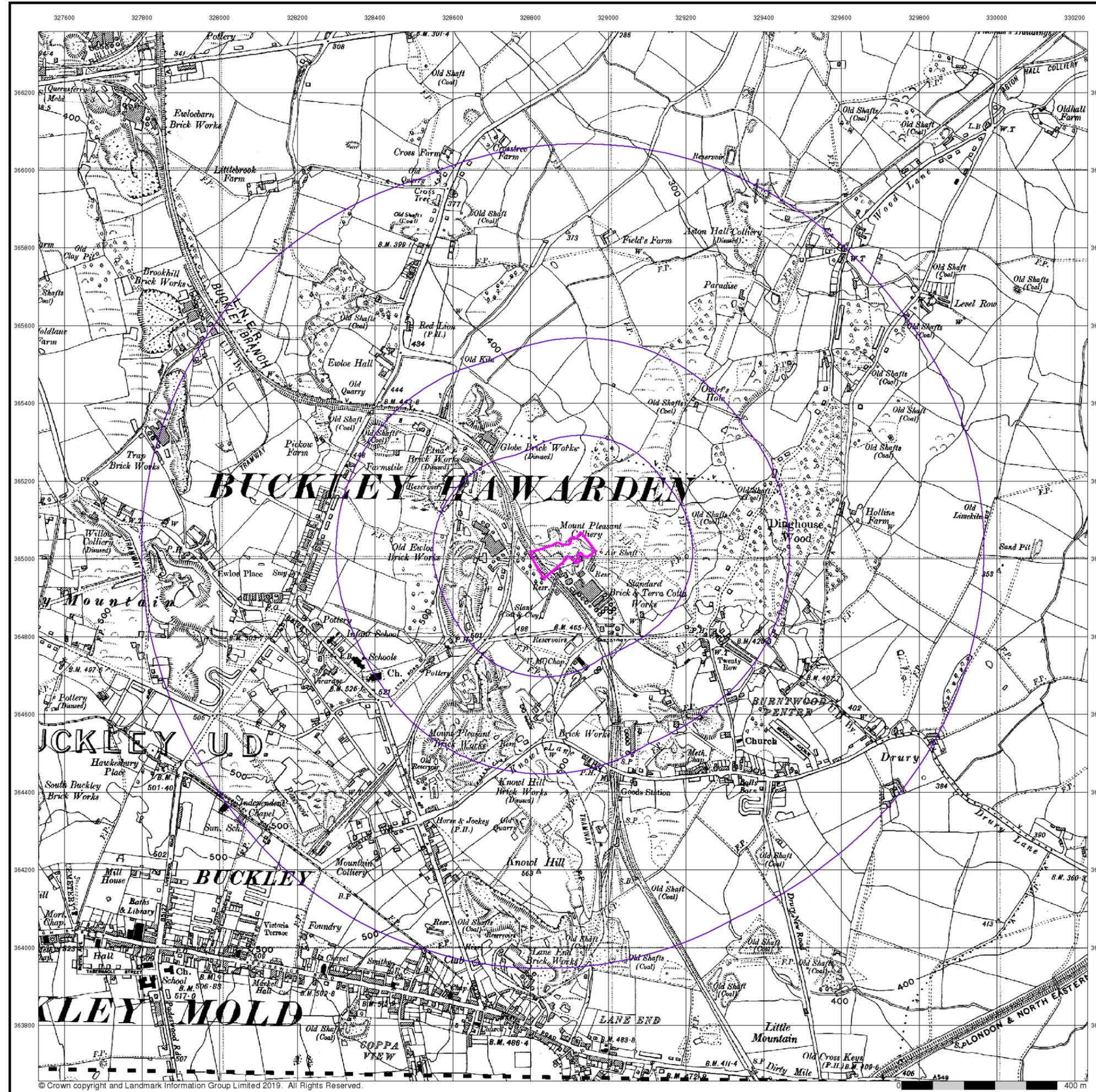
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 Customer Ref: R2817
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 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY





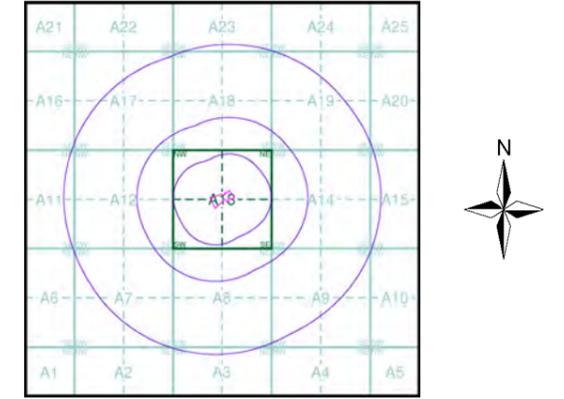
Flintshire
Published 1938
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

014NW	1938	1:10,560
014SW	1938	1:10,560

Historical Map - Slice A



Order Details
 Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details
 Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Flintshire

Published 1954

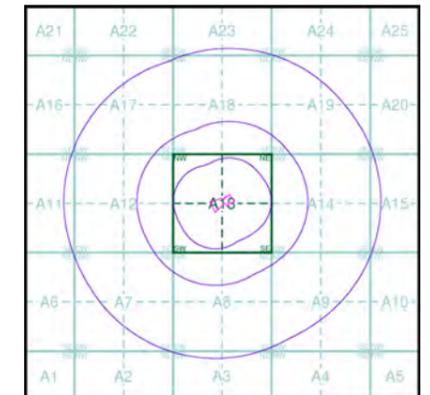
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

014NW
1954
1:10,560
014SW
1954
1:10,560

Historical Map - Slice A

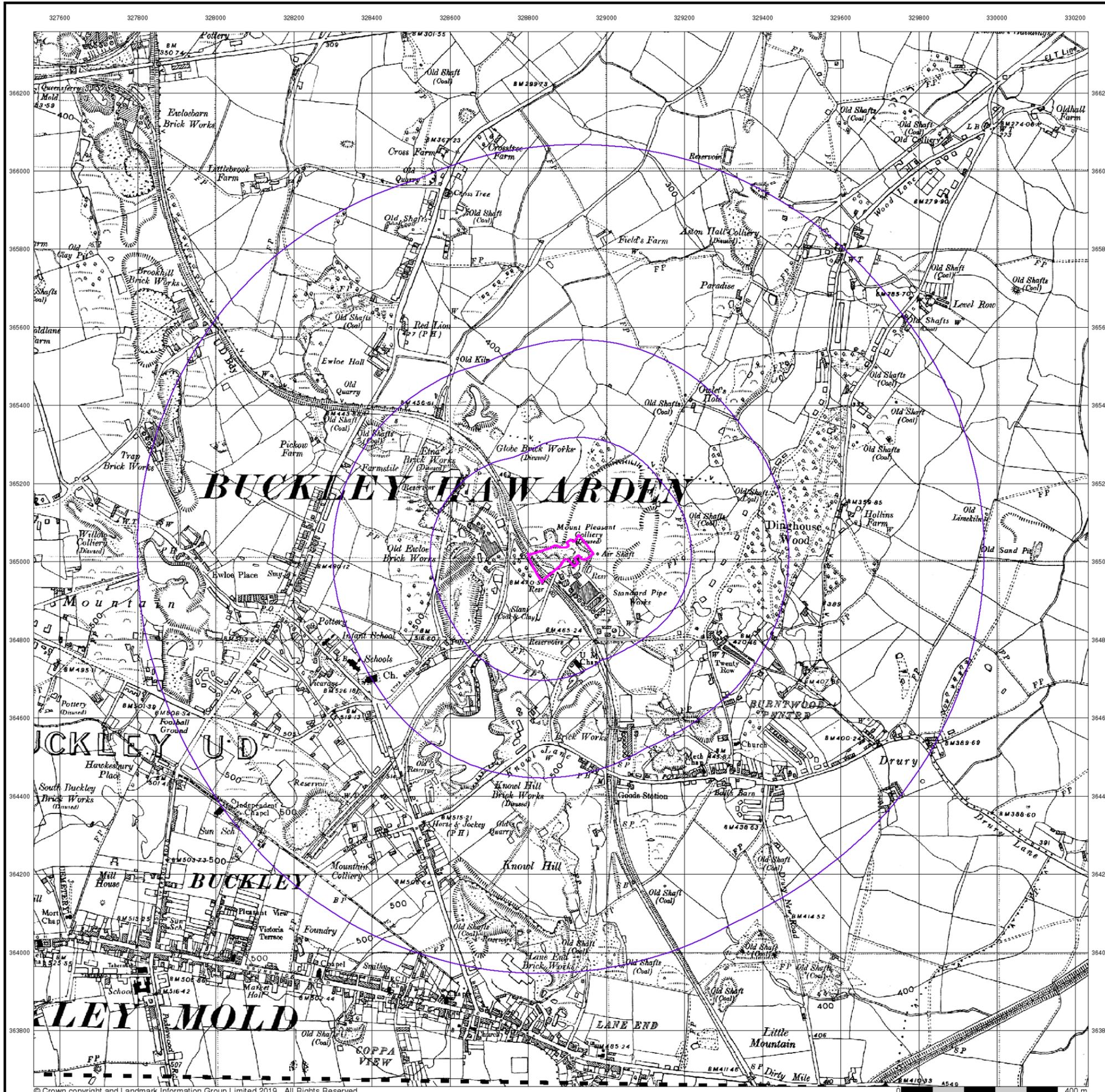


Order Details

Order Number: 227445982_1_1
Customer Ref: R2817
National Grid Reference: 328880, 365010
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



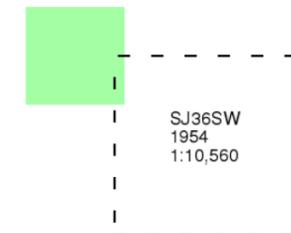
Ordnance Survey Plan

Published 1954

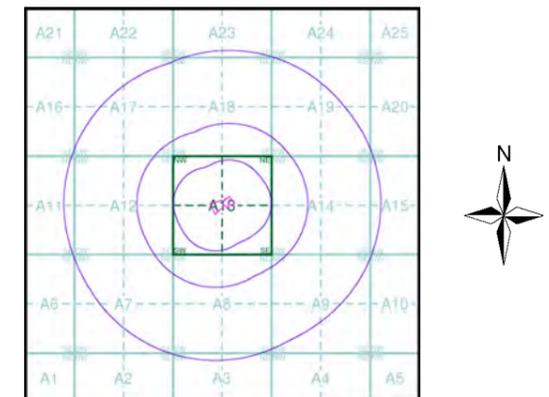
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

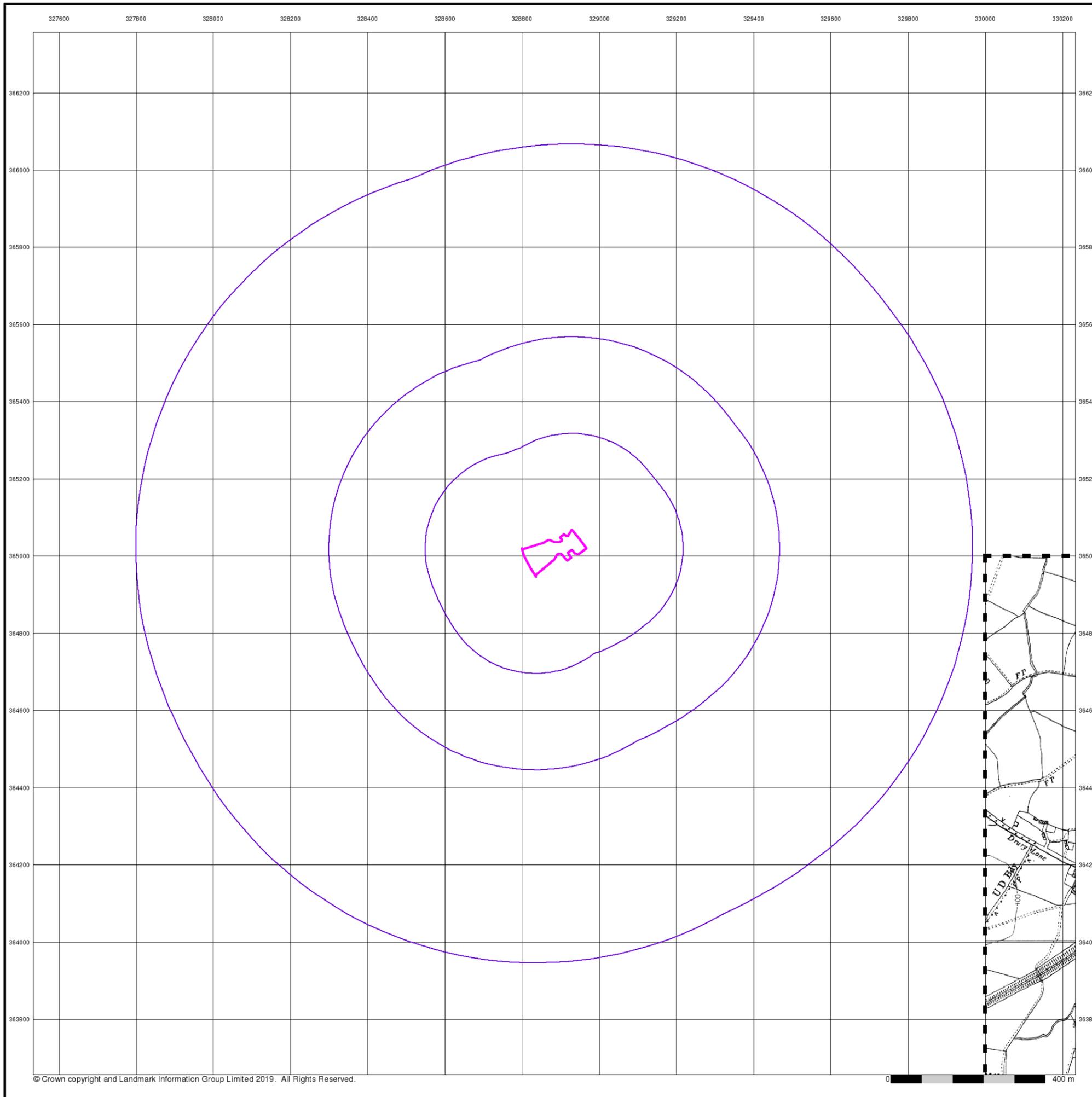


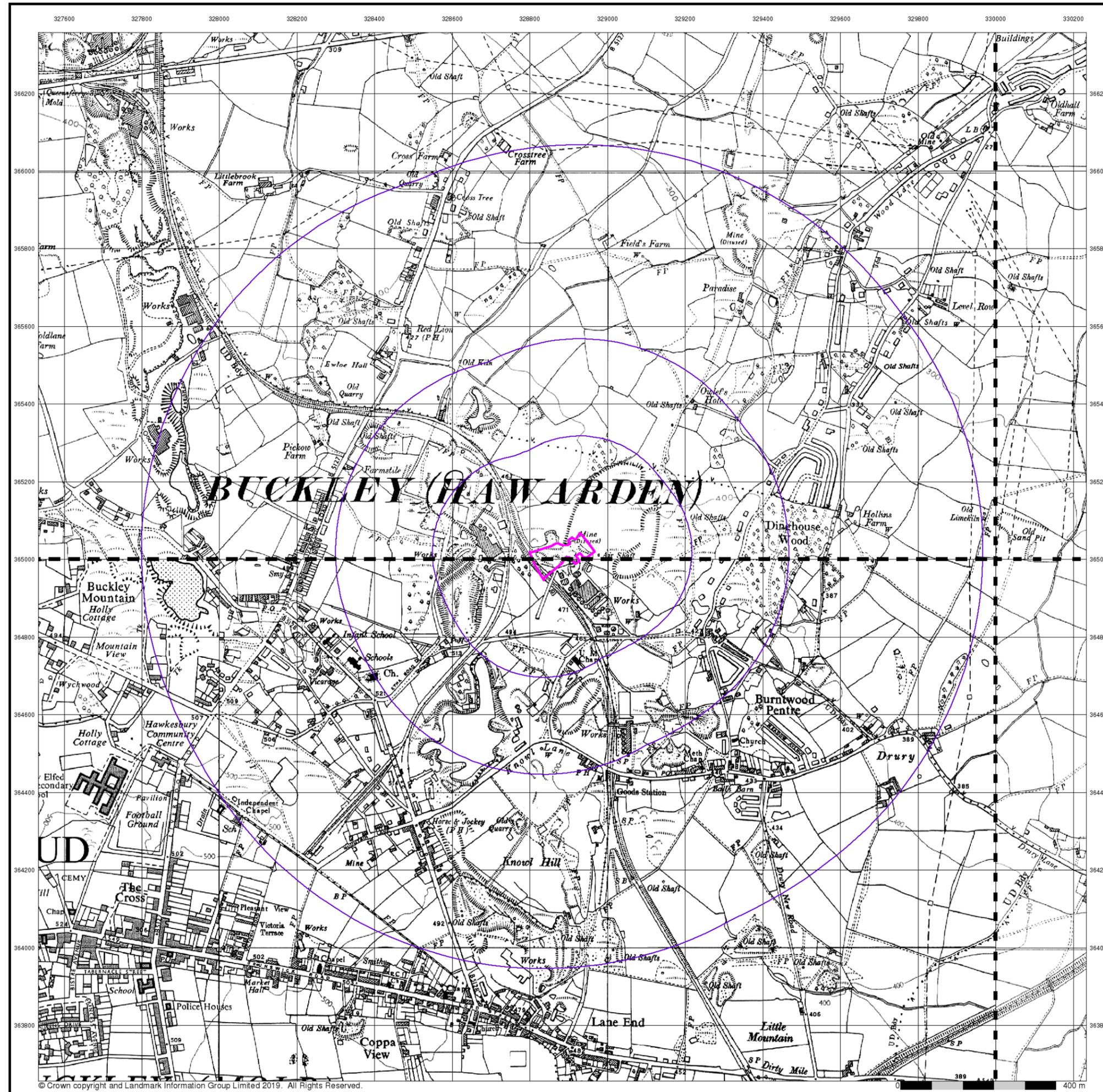
Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY





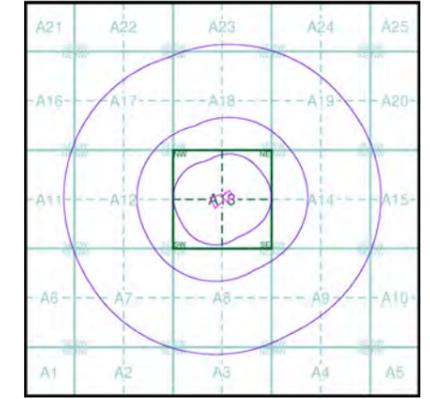
Ordnance Survey Plan Published 1963 - 1966 Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SJ26NE	SJ36NW
1963	1963
1:10,560	1:10,560
SJ26SE	SJ36SW
1964	1966
1:10,560	1:10,560

Historical Map - Slice A

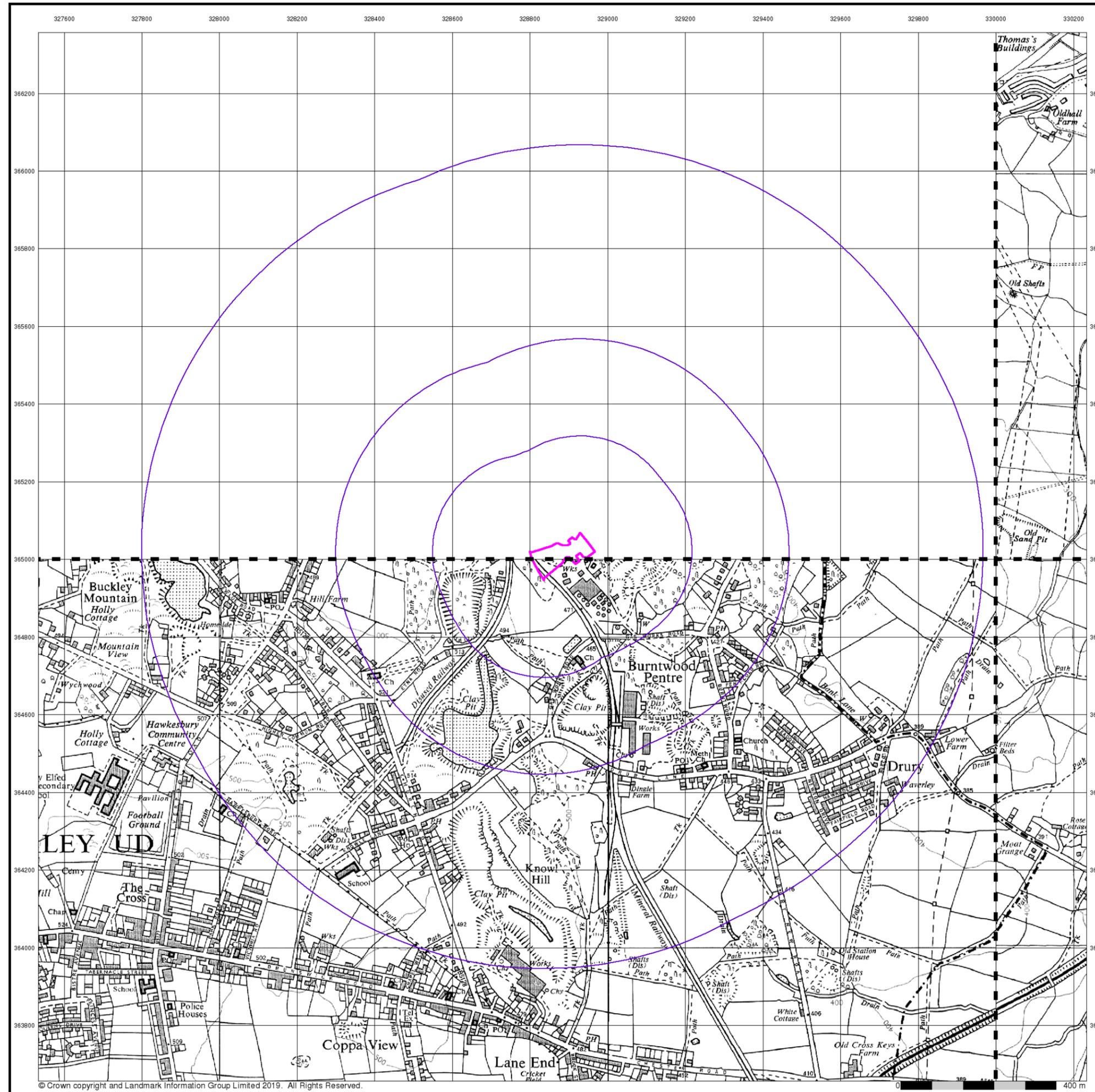


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
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Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



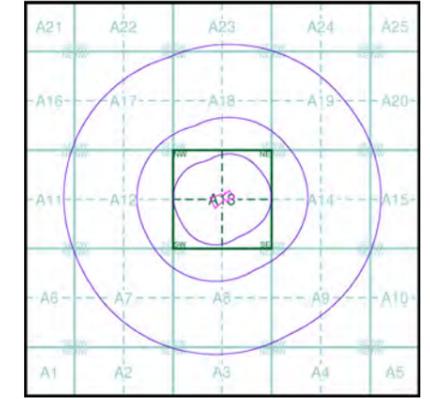
Ordnance Survey Plan Published 1967 - 1969 Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SJ36NW	1967	1:10,560
SJ26SE	1968	1:10,560
SJ36SW	1969	1:10,560

Historical Map - Slice A



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

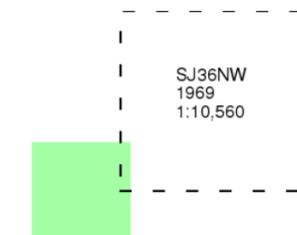
Ordnance Survey Plan

Published 1969

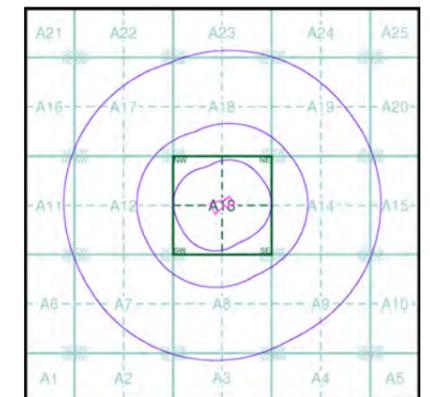
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

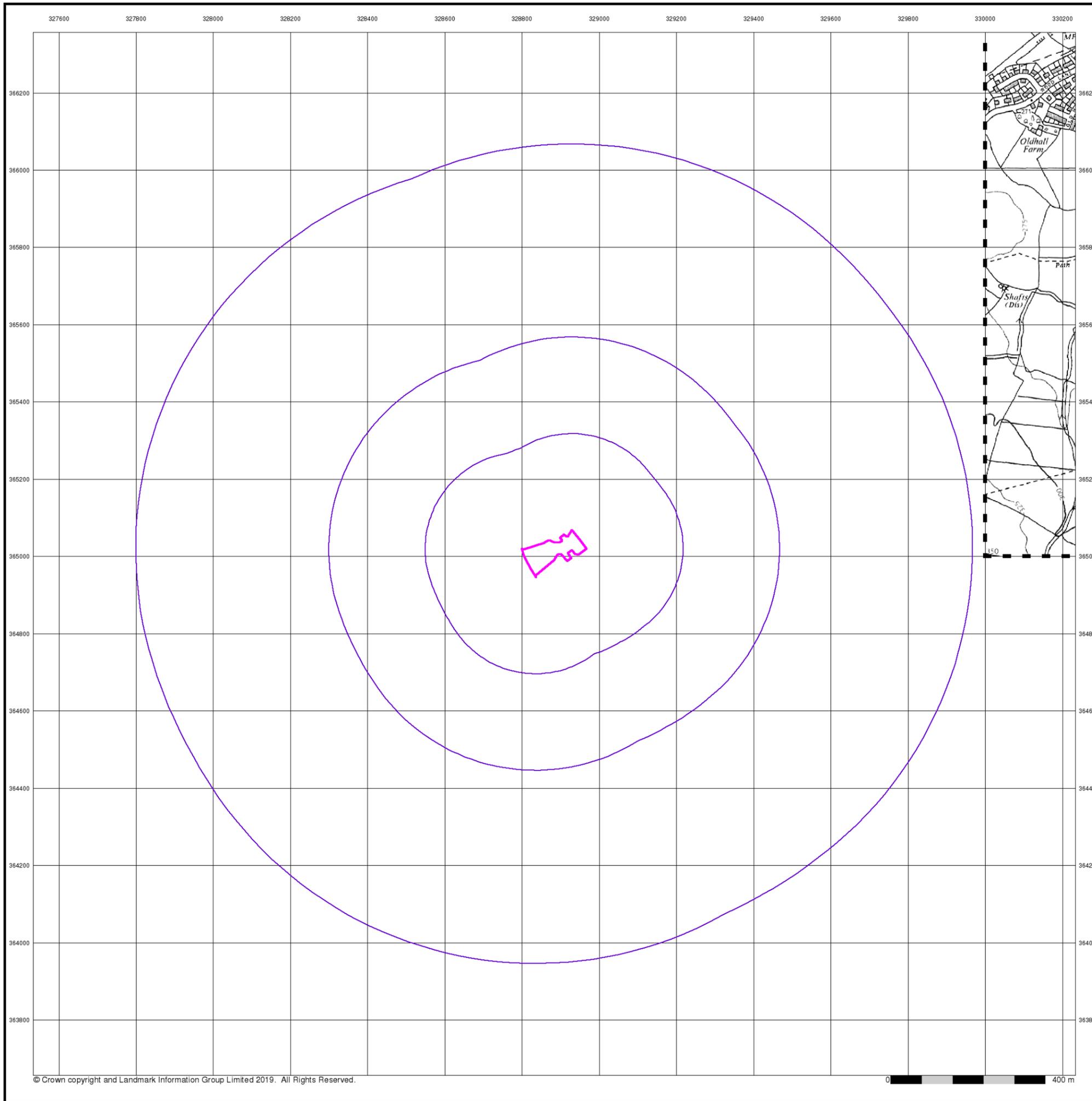


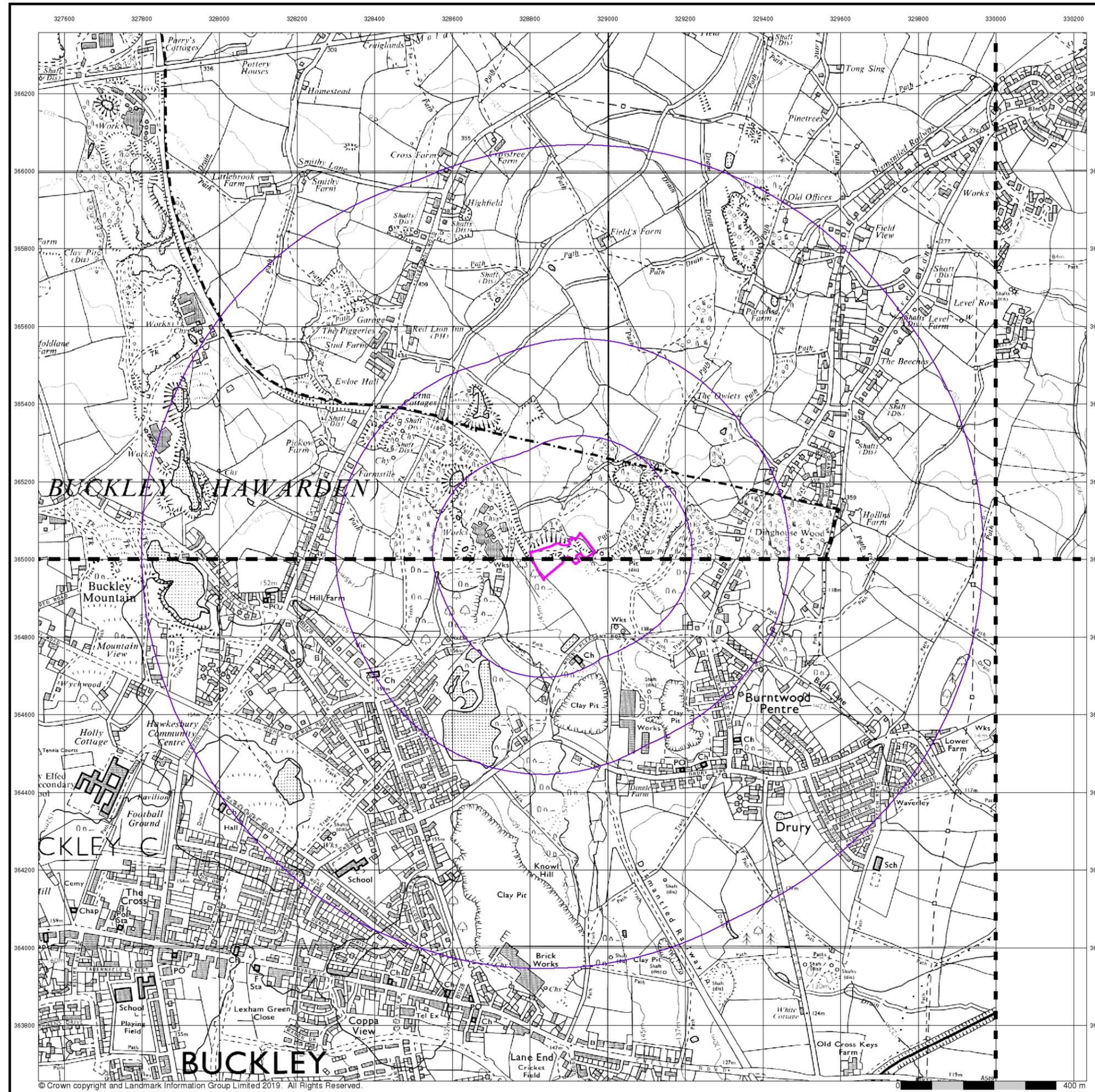
Order Details

Order Number: 227445982_1_1
Customer Ref: R2817
National Grid Reference: 328880, 365010
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY





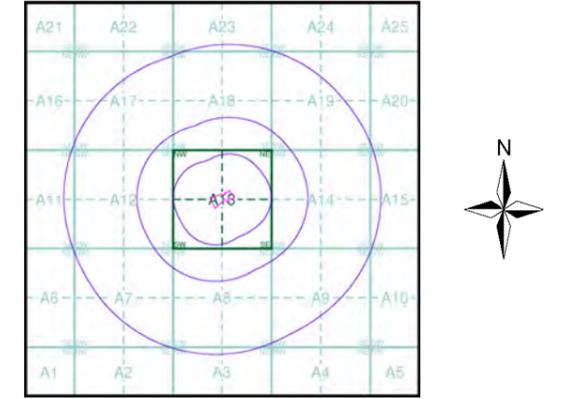
Ordnance Survey Plan Published 1970 - 1978 Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

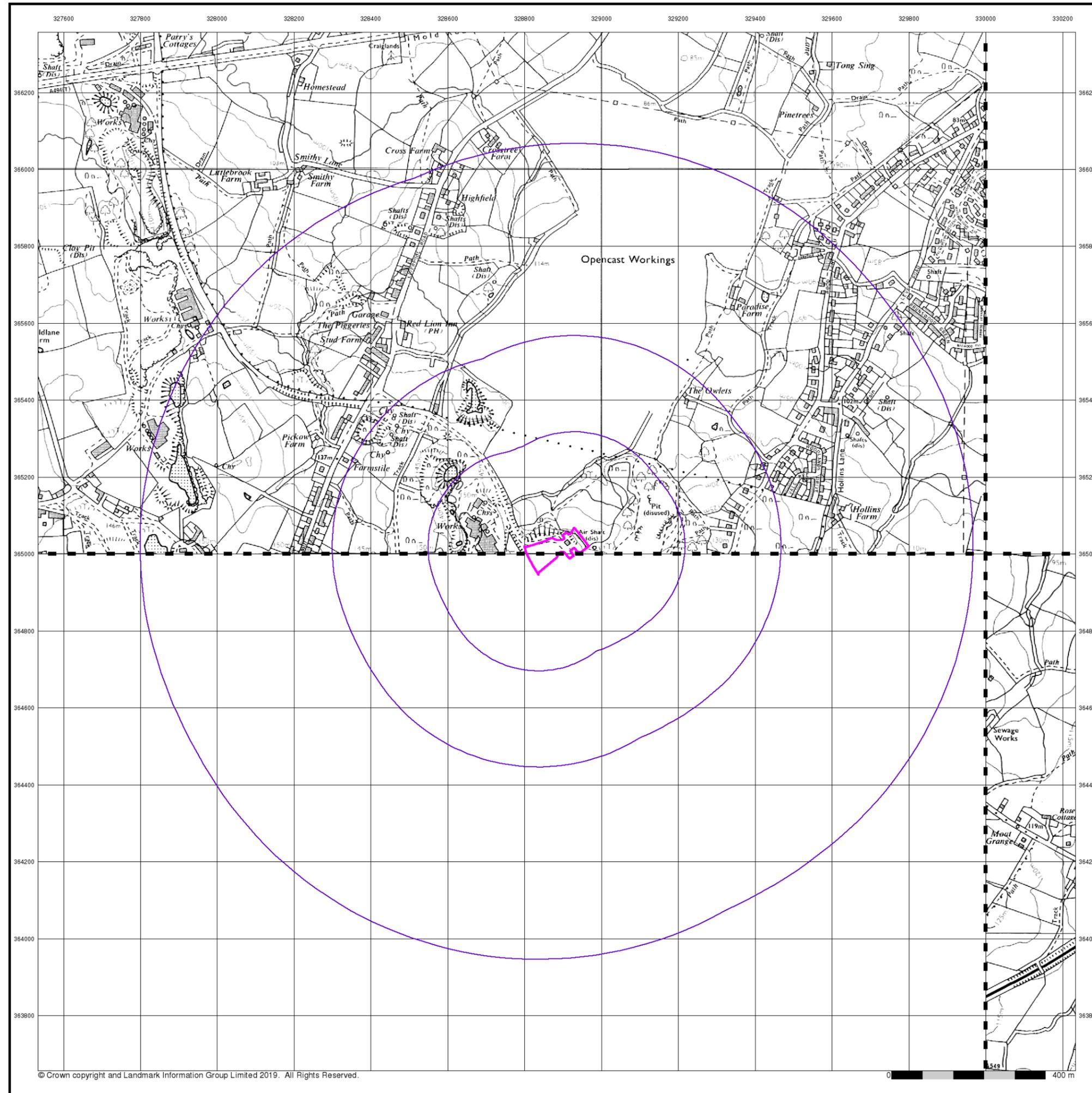
SJ26NE	SJ36NW
1970	1978
1:10,560	1:10,000
■	
SJ26SE	
1975	
1:10,000	

Historical Map - Slice A



Order Details
 Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details
 Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



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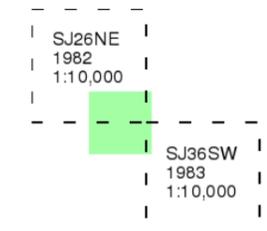
Ordnance Survey Plan

Published 1982 - 1983

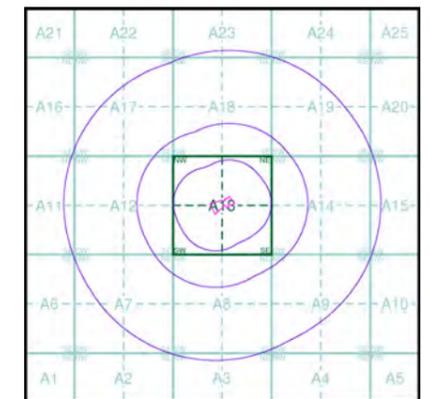
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

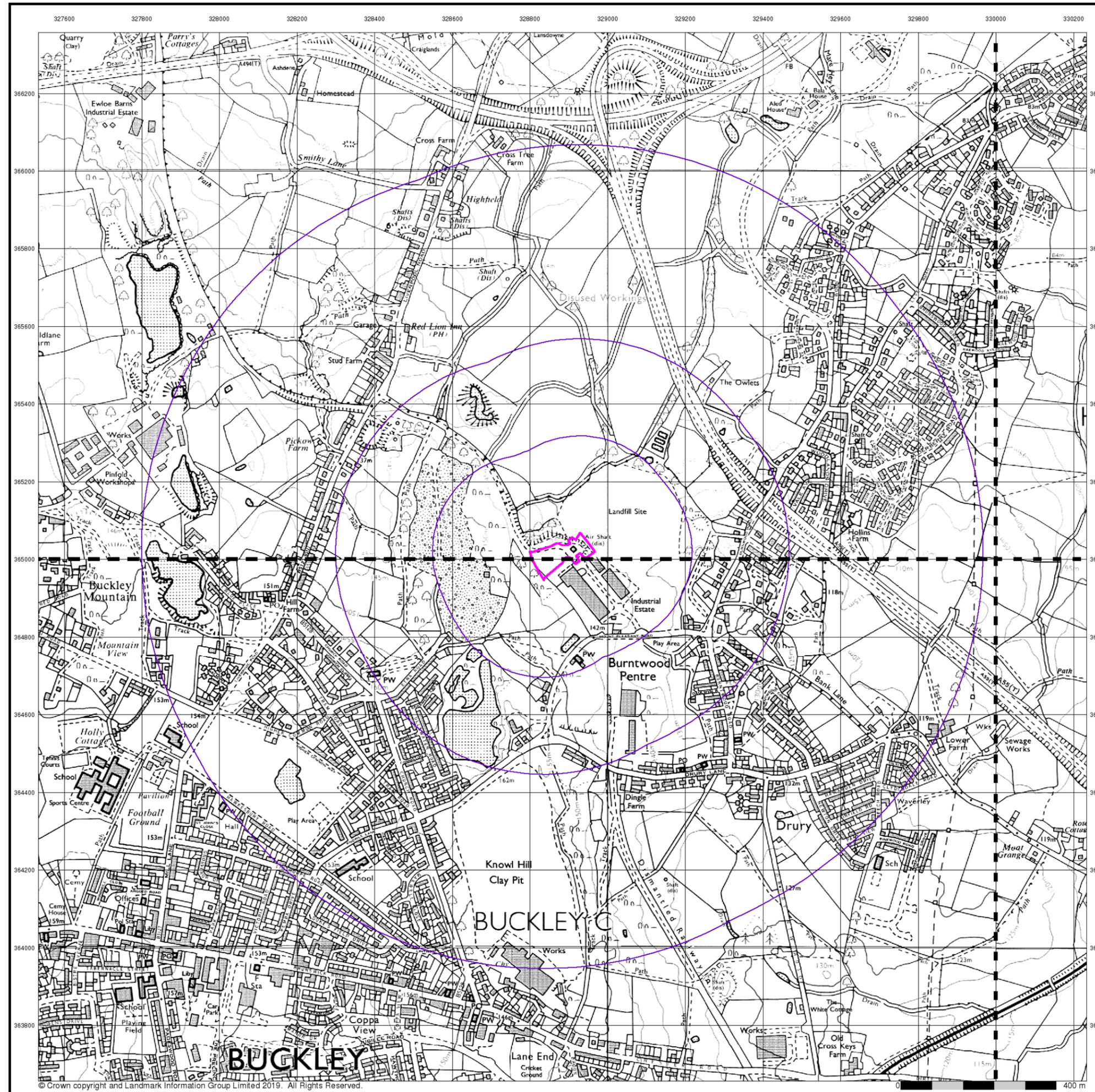
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



Ordnance Survey Plan

Published 1991 - 1992

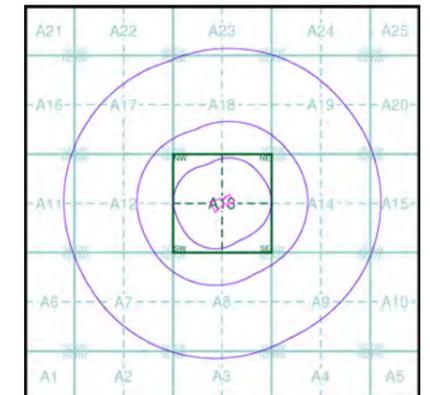
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SJ26NE	SJ36NW
1992	1992
1:10,000	1:10,000
■	
SJ26SE	SJ36SW
1991	1991
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



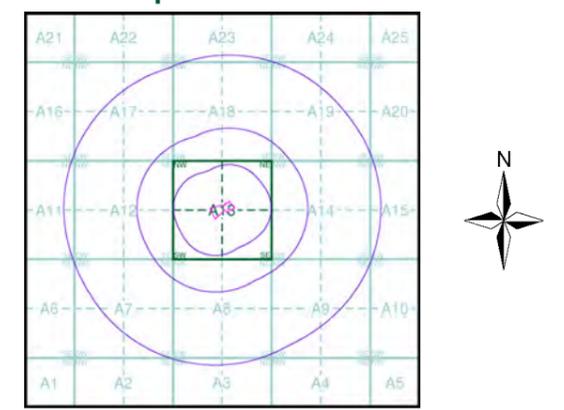
10k Raster Mapping
Published 1999 - 2000
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SJ26NE	SJ36NW
2000	2000
1:10,000	1:10,000
SJ26SE	SJ36SW
2000	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



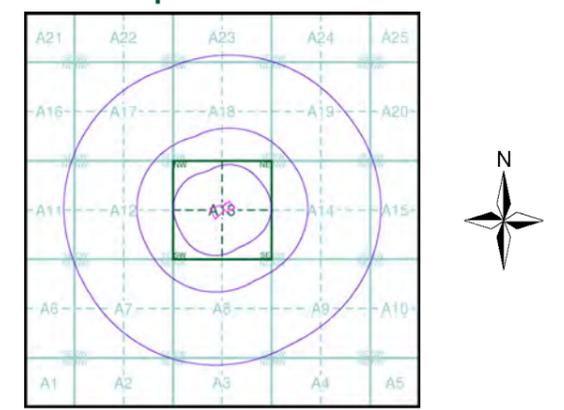
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SJ26NE	SJ36NW
2006	2006
1:10,000	1:10,000
SJ26SE	SJ36SW
2006	2006
1:10,000	1:10,000

Historical Map - Slice A

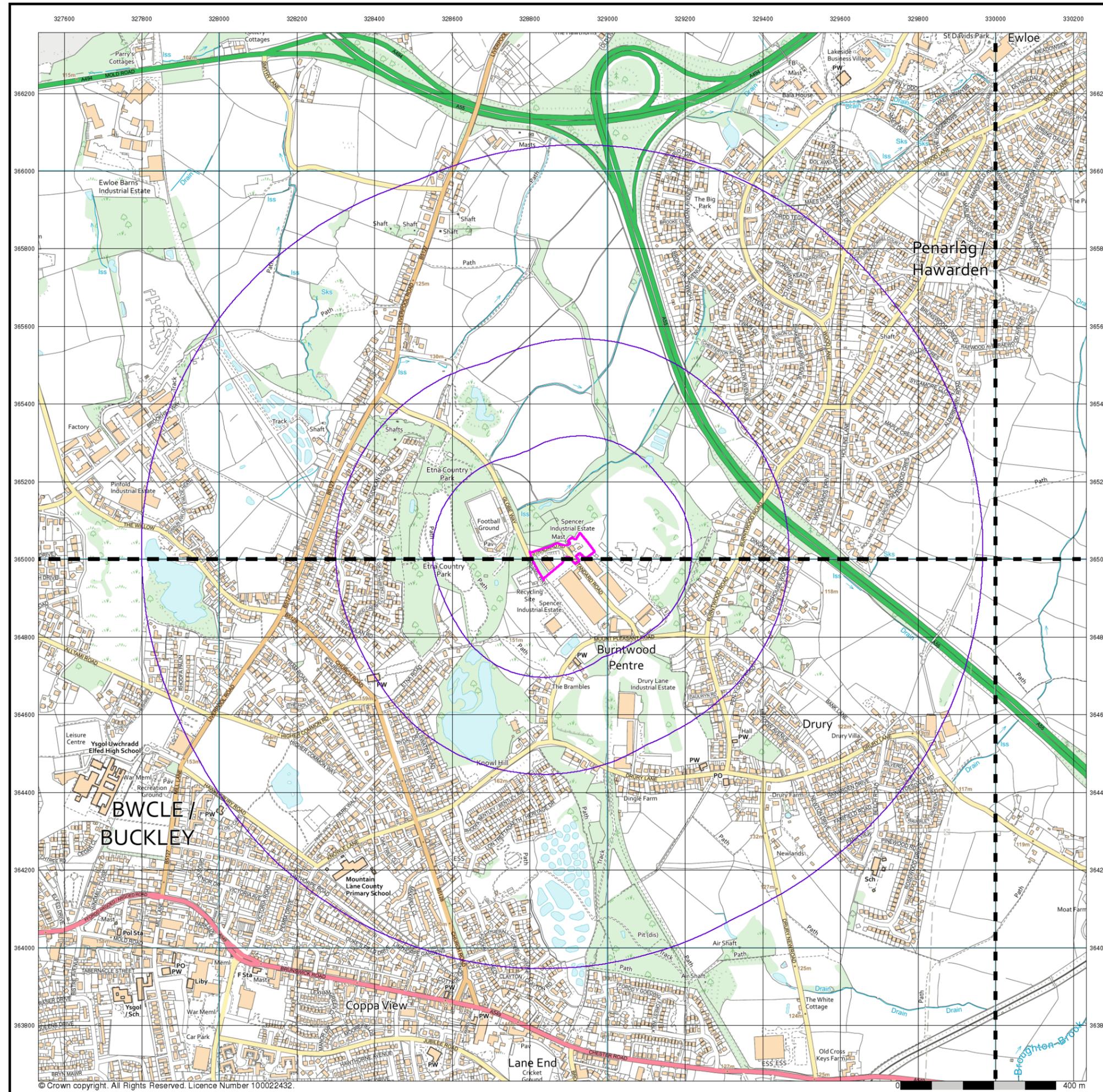


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spicer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



VectorMap Local

Published 2019

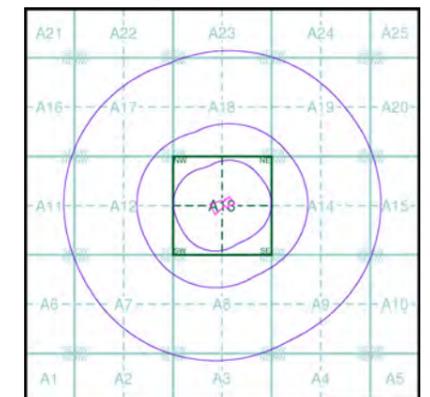
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SJ26NE 2019 Variable	SJ36NW 2019 Variable
SJ26SE 2019 Variable	SJ36SW 2019 Variable

Historical Map - Slice A



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

Quarry **Gravel Pit** **Sand Pit**
Clay Pit **Shingle** **Refuse Heap**
Sloping Masonry **Flat Rock**
Marsh **Reeds** **Osiers**
Rough Pasture **Furze** **Wood**
Mixed Wood **Brushwood** **Orchard**
Fir **Ford** **Stepping Stones**
Ferry **Waterfall** **Lock**
Trig. Station **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **Surface Level**
Arrow denotes flow of water **Antiquities (site of)**
Cutting **Embankment**
Railway crossing Road **Level Crossing** **Road crossing Railway**
Railway crossing River or Canal **Road over single stream** **Road over River or Canal**
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
County Burgh Boundary (Scotland)
Boundary Post or Stone **Police Call Box**
B.R. Bridle Road **Pump**
E.P. Electricity Pylon **S.P. Signal Post**
F.B. Foot Bridge **Sl. Sluice**
F.P. Foot Path **Sp. Spring**
G.P. Guide Post or Board **T.C.B. Telephone Call Box**
M.S. Mile Stone **Tr. Trough**
M.P. M.R. Mooring Post or Ring **W. Well**

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

Inactive Quarry, Chalk Pit or Clay Pit **Active Quarry, Chalk Pit or Clay Pit**
Rock **Boulders**
Cliff **Slopes** **Top**
Roofed Building **Glazed Roof Building**
Sloping Masonry **Archway**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Bench Mark** **Antiquity (site of)**
Cave Entrance **Triangulation Station** **Electricity Pylon**
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
London Borough Boundary
Symbol marking point where boundary mereing changes
BH Beer House **P Pillar, Pole or Post**
BP, BS Boundary Post or Stone **PO Post Office**
Cn, C Capstan, Crane **PC Public Convenience**
Chy Chimney **PH Public House**
D Fn Drinking Fountain **Pp Pump**
EI P Electricity Pillar or Post **SB, S Br Signal Box or Bridge**
FAP Fire Alarm Pillar **SP, SL Signal Post or Light**
FB Foot Bridge **Spr Spring**
GP Guide Post **Tk Tank or Track**
H Hydrant or Hydraulic **TCB Telephone Call Box**
LC Level Crossing **TCP Telephone Call Post**
MH Manhole **Tr Trough**
MP Mile Post or Mooring Post **Wr Pt, Wr T Water Point, Water Tap**
MS Mile Stone **W Well**
NTL Normal Tidal Limit **Wd Pp Wind Pump**

Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m Bench Mark **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks Barracks **P Pillar, Pole or Post**
Bty Battery **PO Post Office**
Cemy Cemetery **PC Public Convenience**
Chy Chimney **Pp Pump**
Cis Cistern **Ppg Sta Pumping Station**
Dismtd Rly Dismantled Railway **PW Place of Worship**
EI Gen Sta Electricity Generating Station **Sewage Ppg Sta Sewage Pumping Station**
EI P Electricity Pole, Pillar **SB, S Br Signal Box or Bridge**
EI Sub Sta Electricity Sub Station **SP, SL Signal Post or Light**
FB Filter Bed **Spr Spring**
Fn / D Fn Fountain / Drinking Ftn. **Tk Tank or Track**
Gas Gov Gas Valve Compound **Tr Trough**
GVC Gas Governor **Wd Pp Wind Pump**
GP Guide Post **Wr Pt, Wr T Water Point, Water Tap**
MH Manhole **Wks Works (building or area)**
MP, MS Mile Post or Mile Stone **W Well**

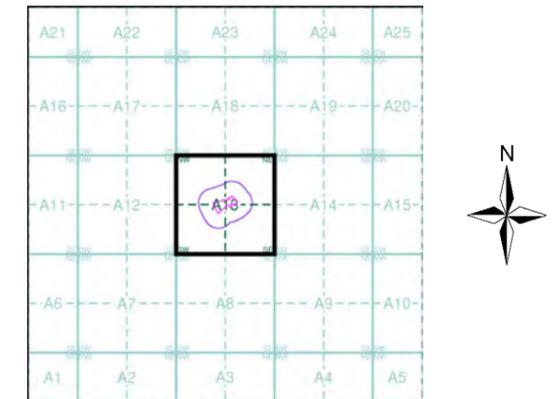
Envirocheck

LANDMARK INFORMATION GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Flintshire	1:2,500	1869 - 1875	2
Flintshire	1:2,500	1899	3
Flintshire	1:2,500	1912	4
Ordnance Survey Plan	1:2,500	1964 - 1965	5
Ordnance Survey Plan	1:2,500	1970	6
Supply of Unpublished Survey Information	1:2,500	1974	7
Additional SIMs	1:2,500	1977 - 1989	8
Ordnance Survey Plan	1:2,500	1990	9
Additional SIMs	1:2,500	1991	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:2,500	1992 - 1993	12
Large-Scale National Grid Data	1:1,250	1995	13
Large-Scale National Grid Data	1:2,500	1996	14
Large-Scale National Grid Data	1:1,250	1996	15
Historical Aerial Photography	1:2,500	2001	16

Historical Map - Segment A13



Order Details

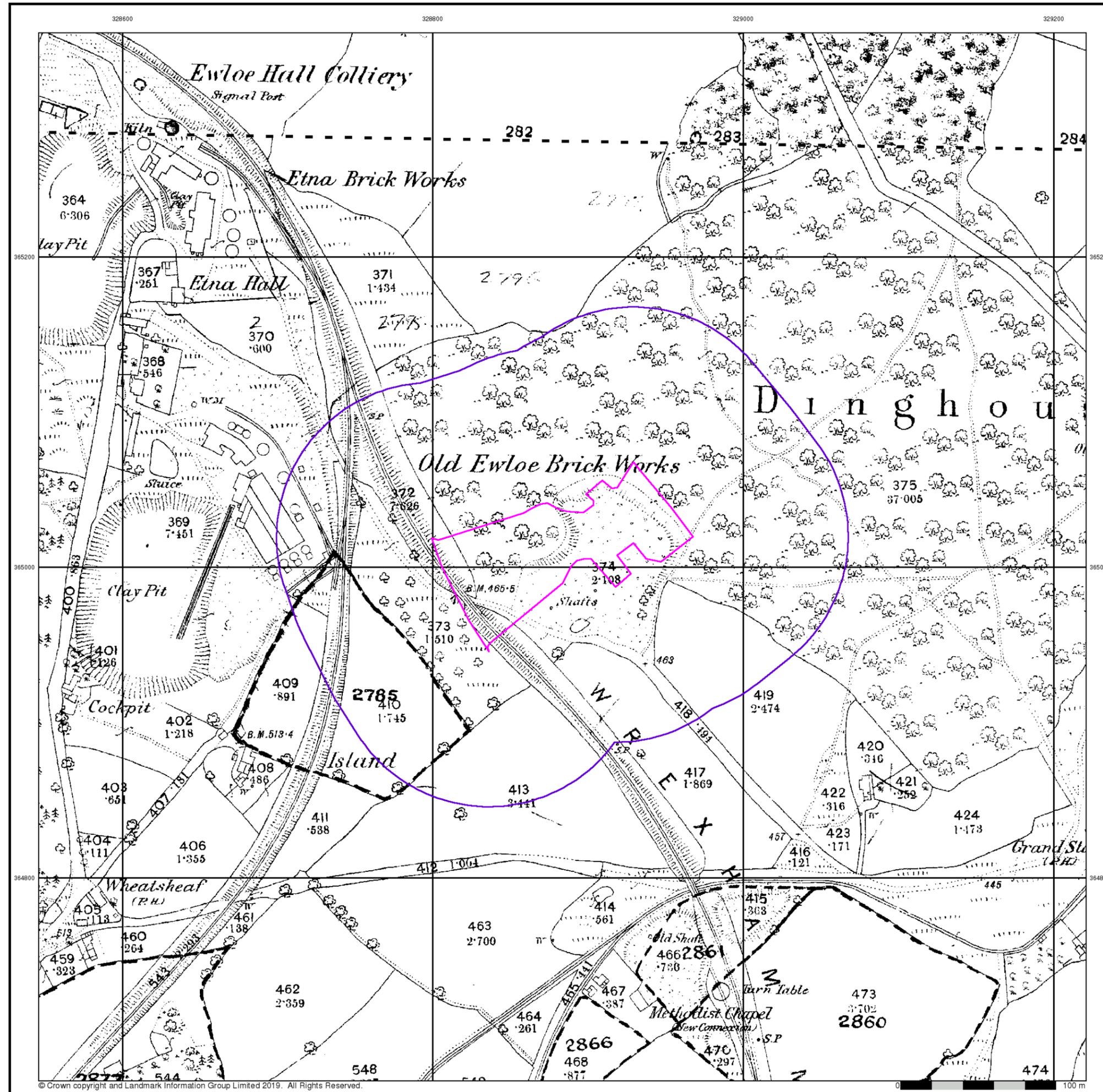
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



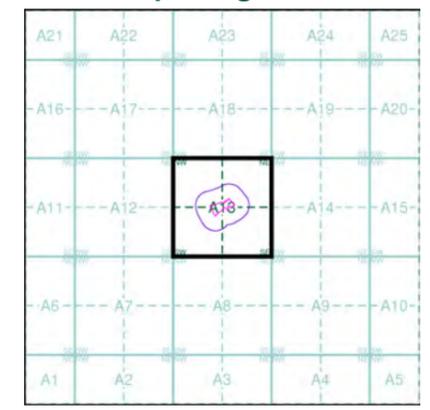
Flintshire
Published 1869 - 1875
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

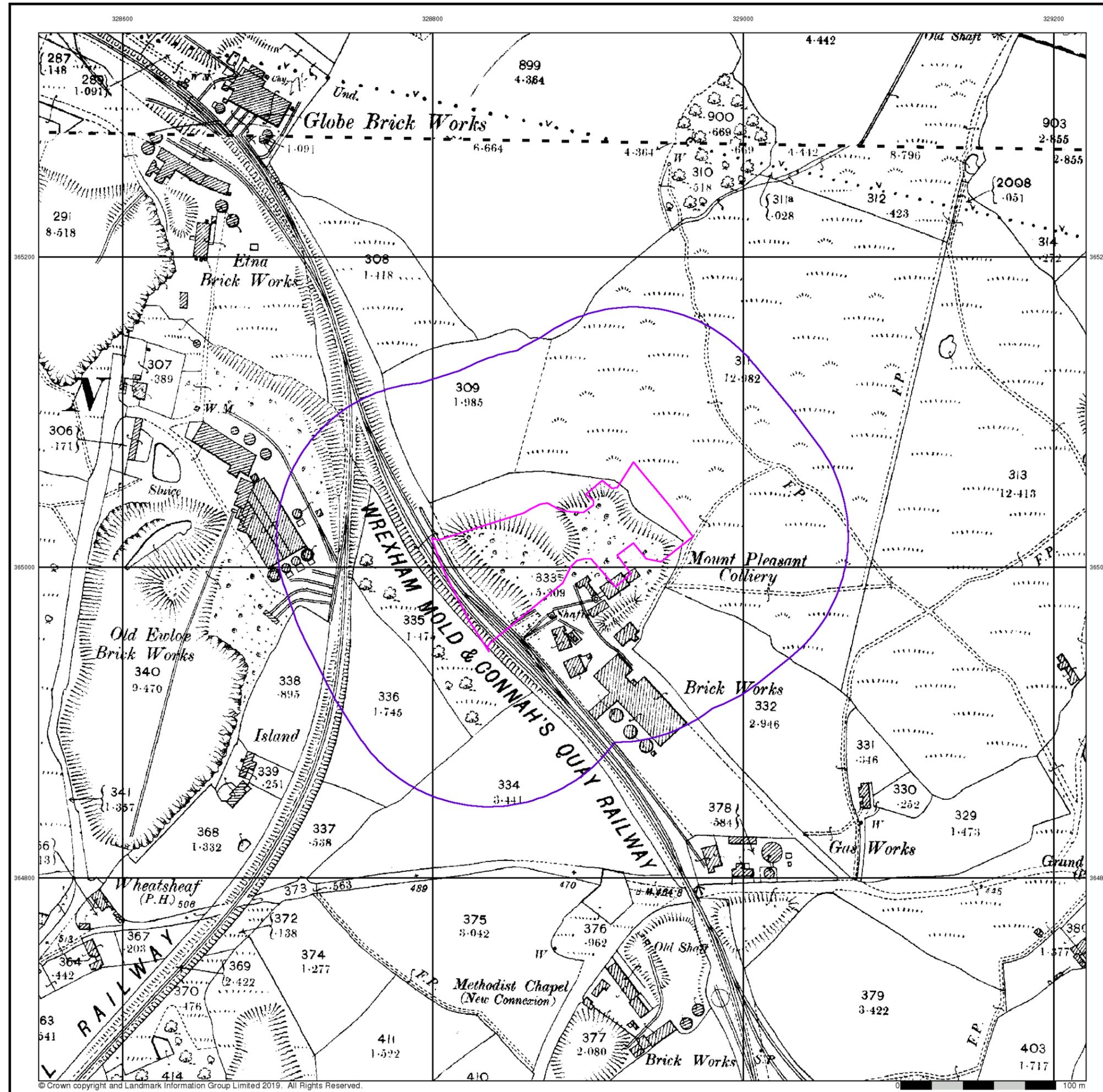
014_02	1869	1:2,500
014_06	1875	1:2,500

Historical Map - Segment A13



Order Details
 Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details
 Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



Flintshire

Published 1899

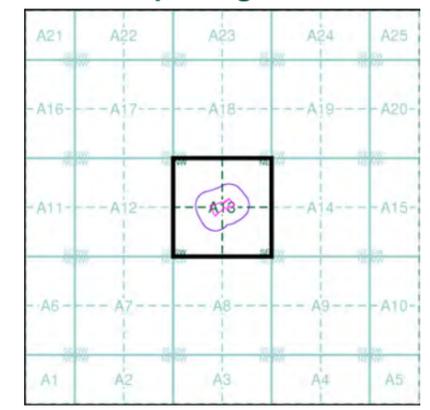
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

014_02	1899	1:2,500
014_06	1899	1:2,500

Historical Map - Segment A13

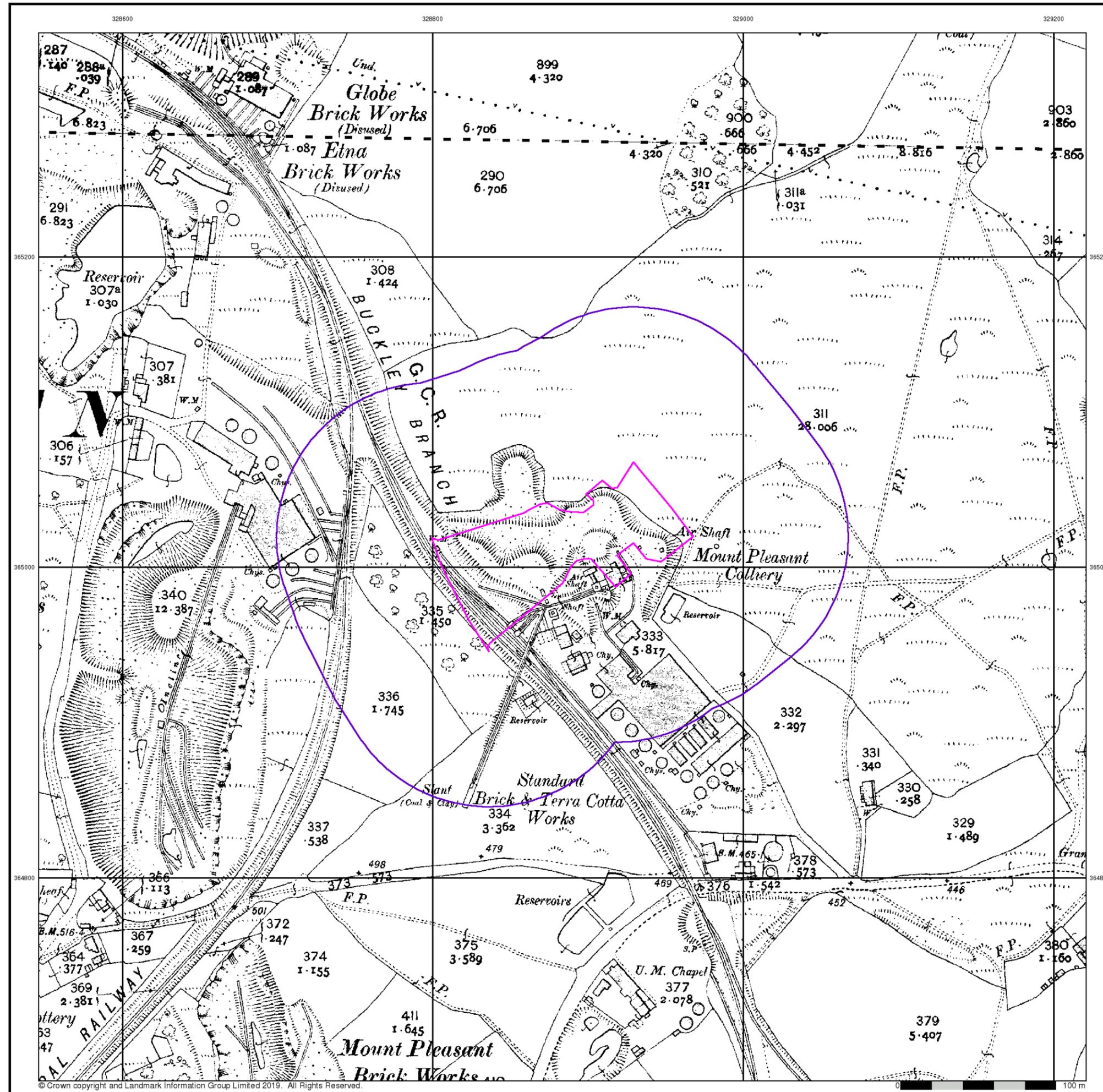


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



Flintshire

Published 1912

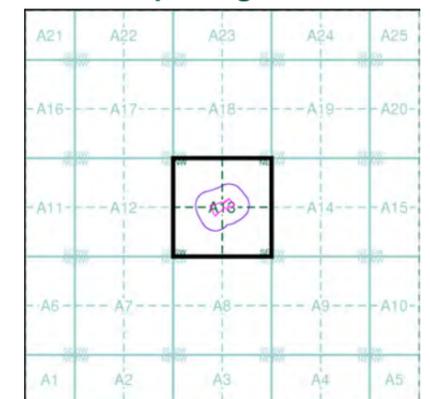
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

014_02	1912	1:2,500
014_06	1912	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Ordnance Survey Plan

Published 1964 - 1965

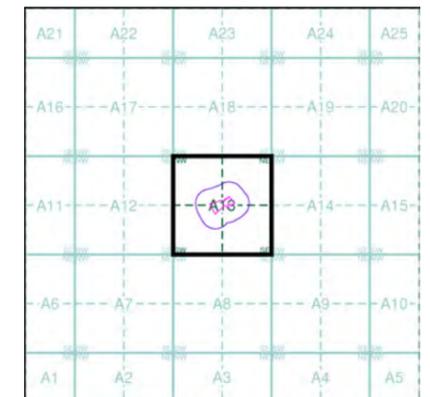
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SJ2865 1964 12,500	SJ2965 1964 12,500
SJ2864 1965 12,500	SJ2964 1965 12,500

Historical Map - Segment A13

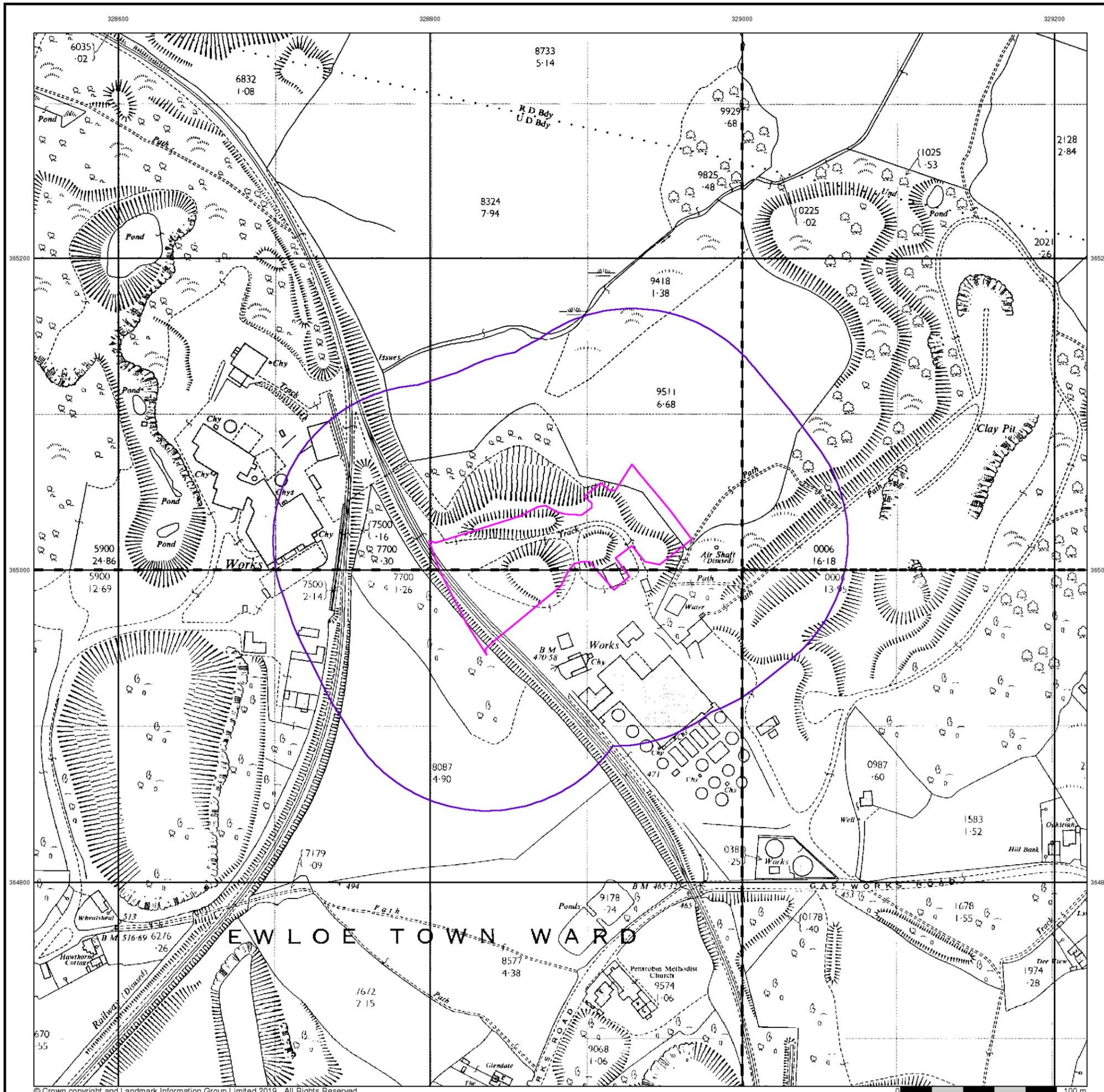


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



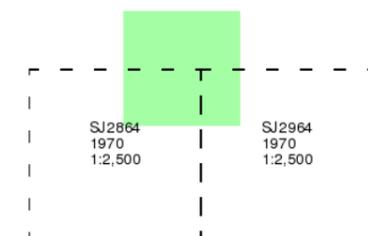
Ordnance Survey Plan

Published 1970

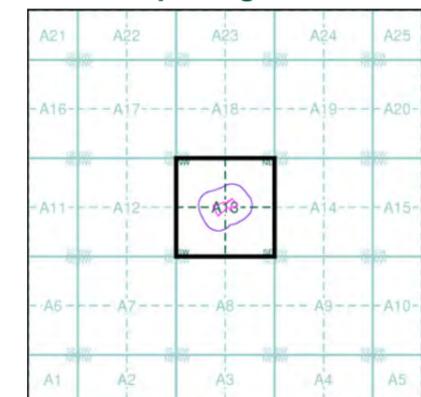
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

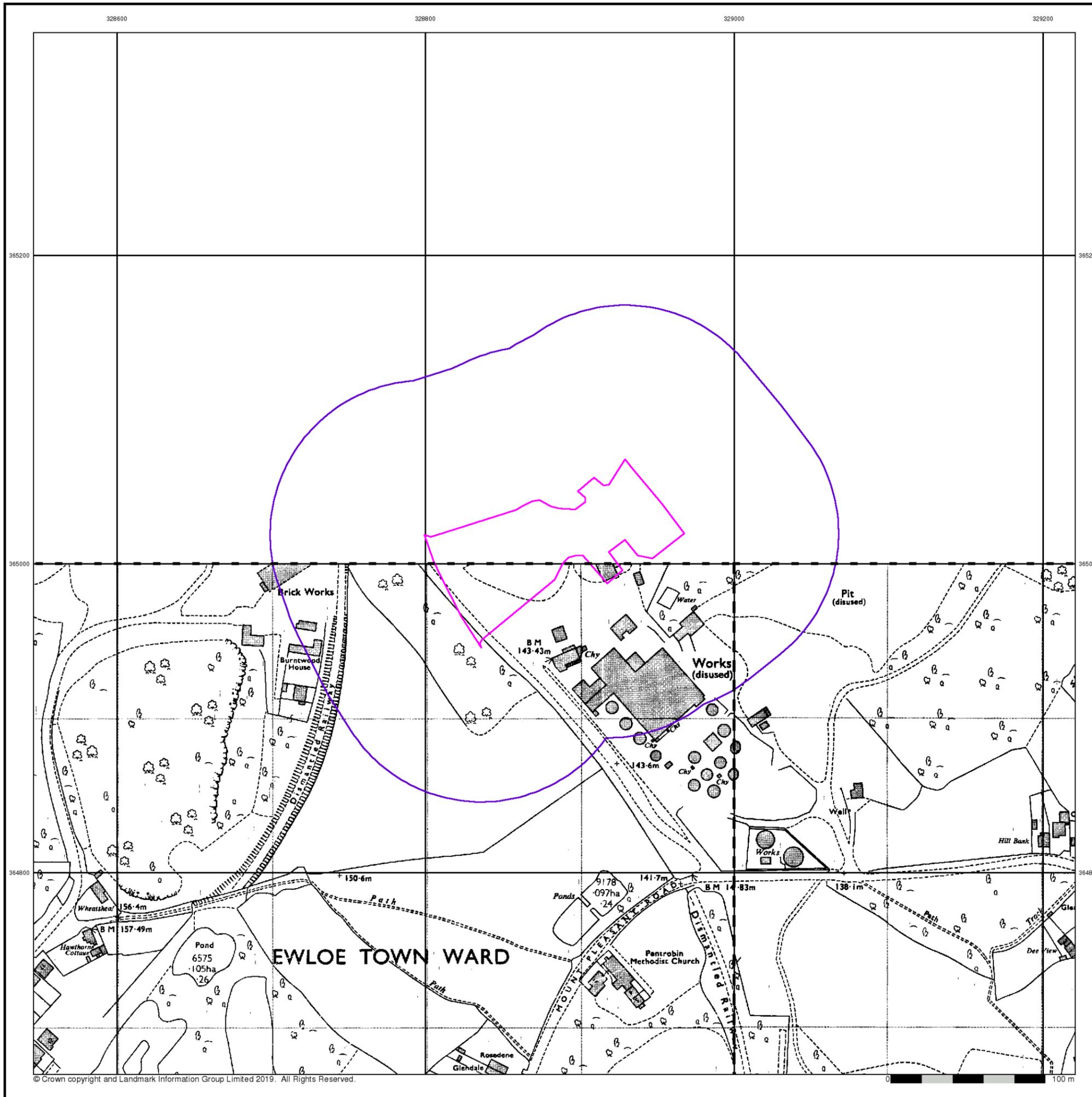


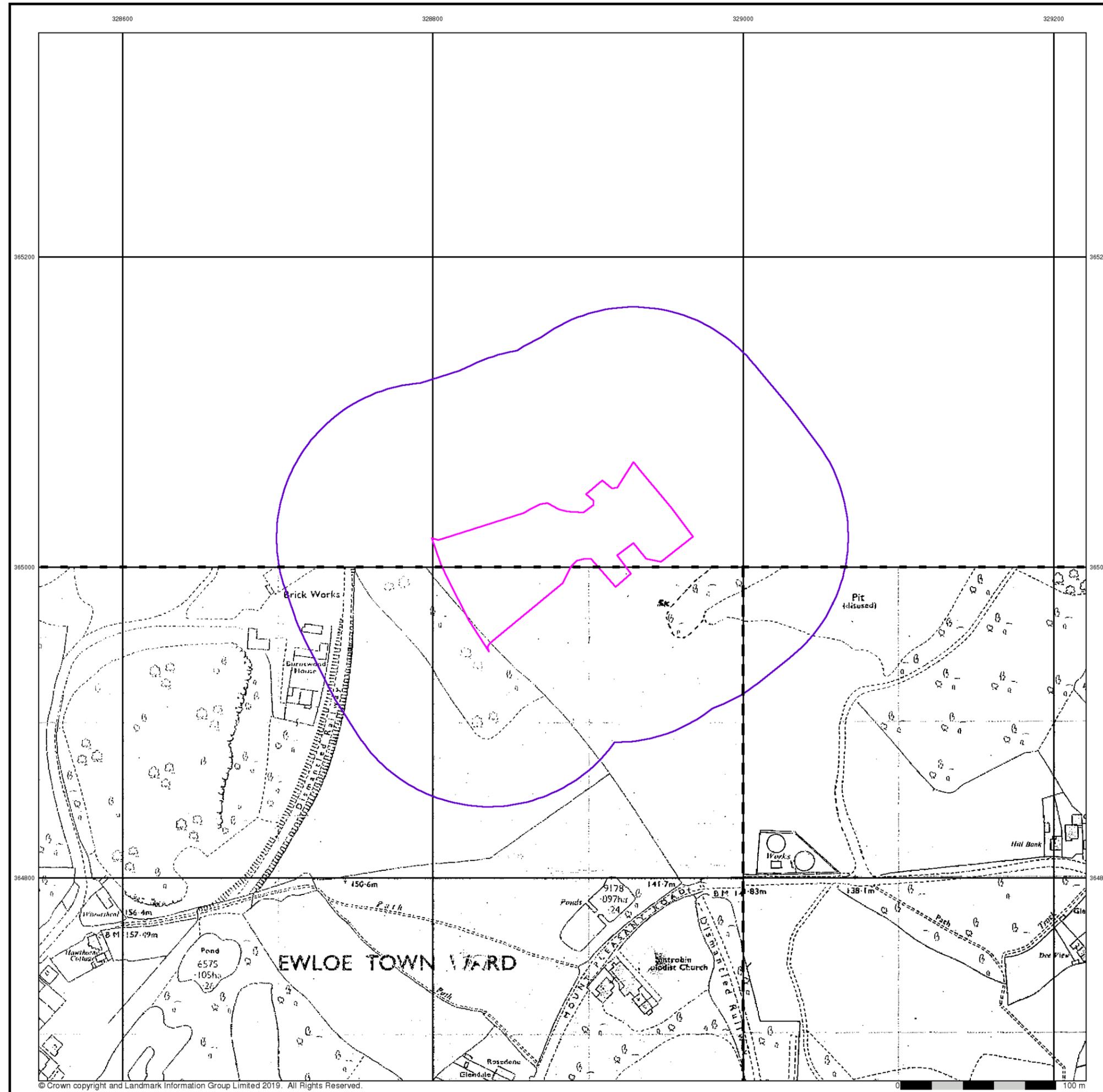
Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY





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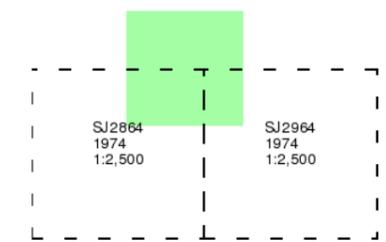
Supply of Unpublished Survey Information

Published 1974

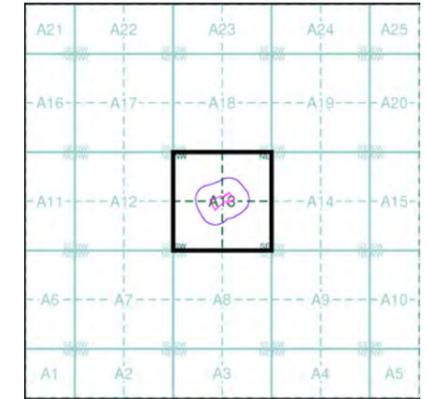
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

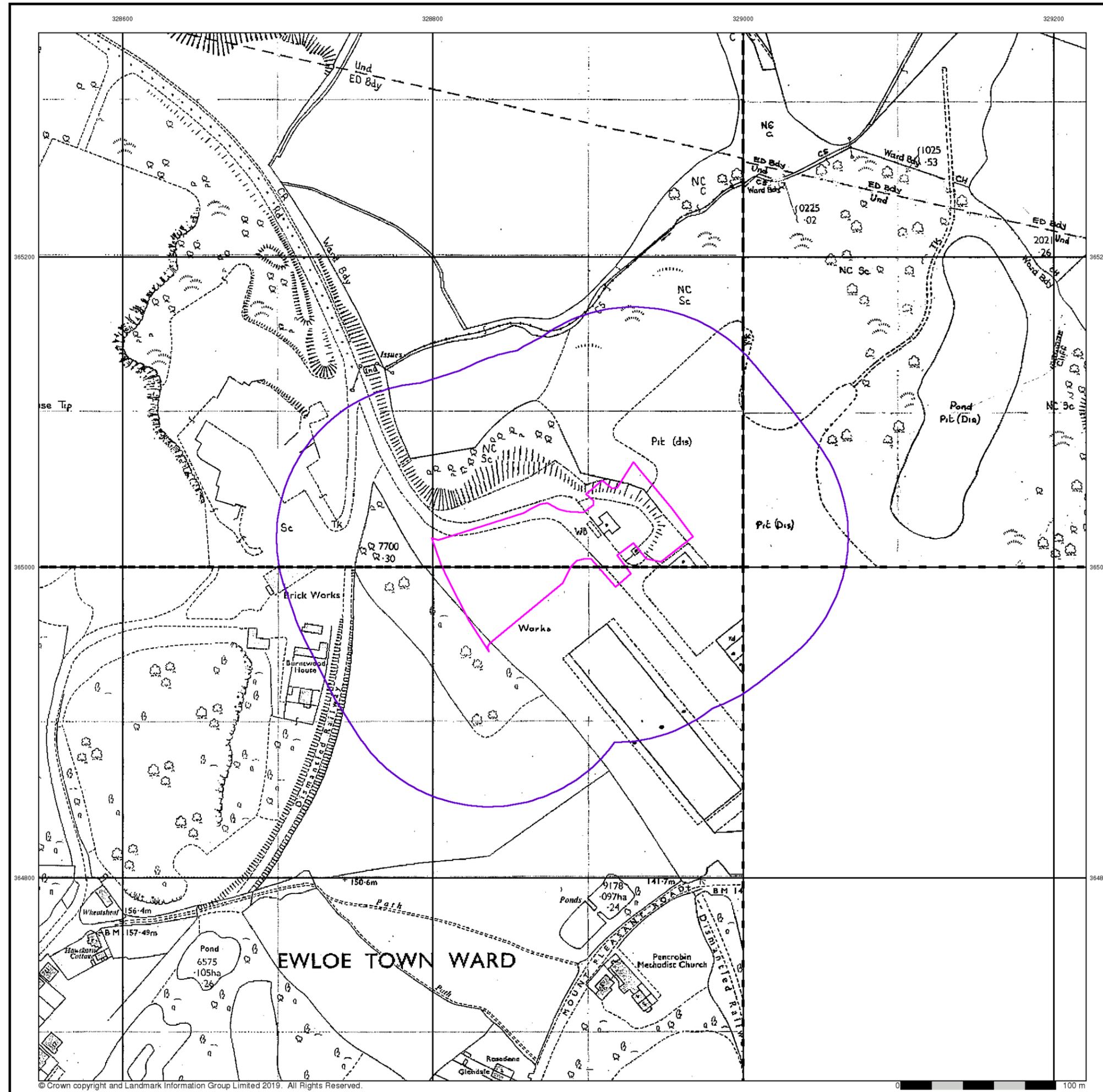


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



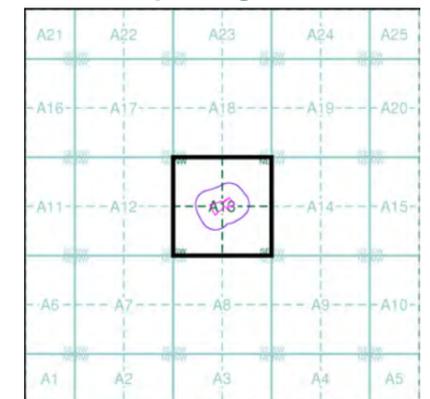
Additional SIMs
Published 1977 - 1989
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

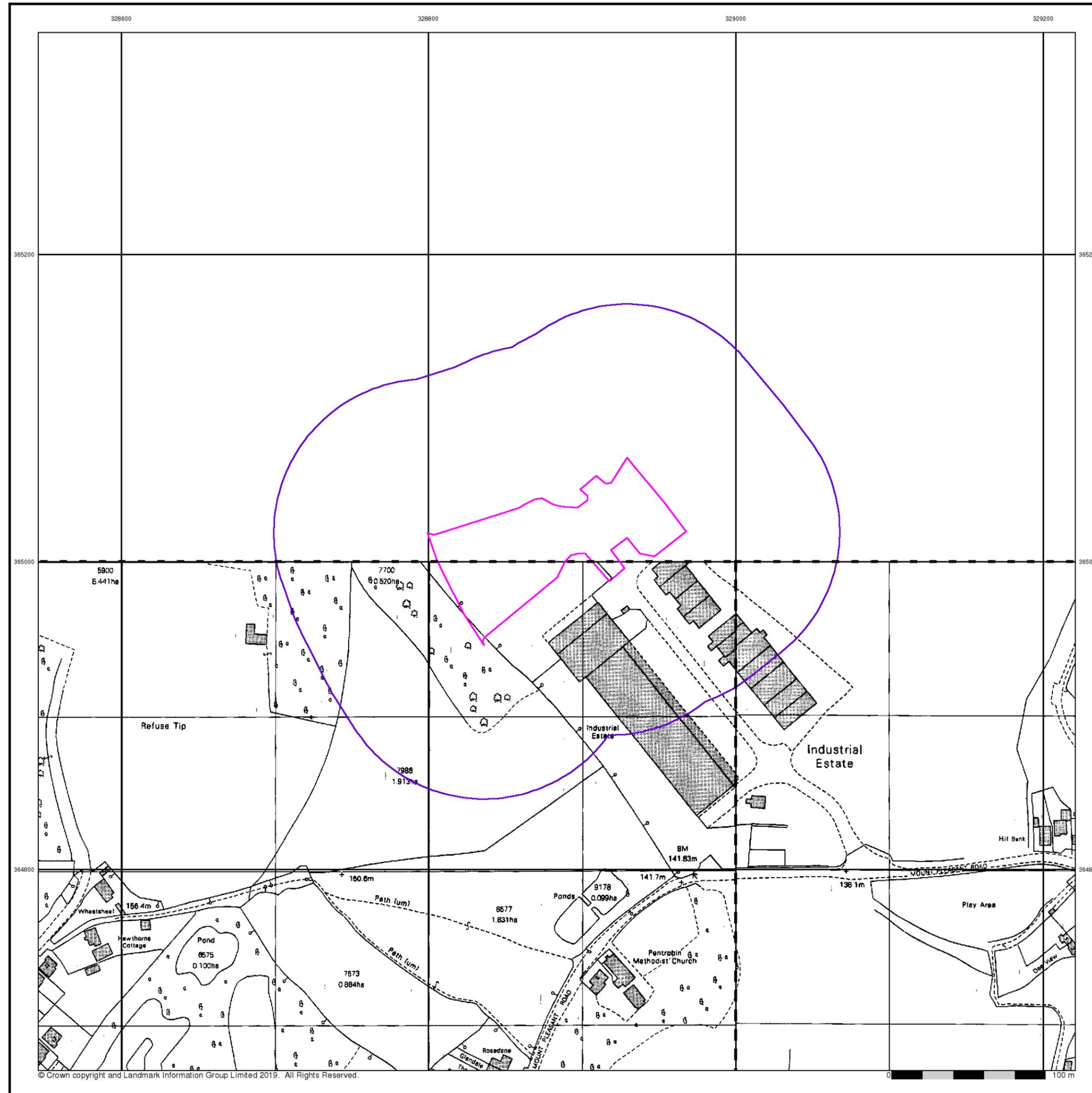
SJ2865	SJ2965
1989	1988
1:2,500	1:2,500
SJ2864	
1977	
1:2,500	

Historical Map - Segment A13



Order Details
 Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details
 Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



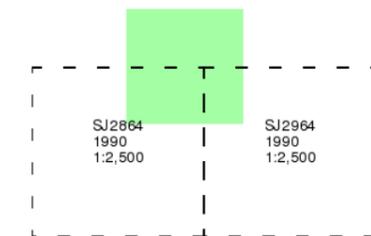
Ordnance Survey Plan

Published 1990

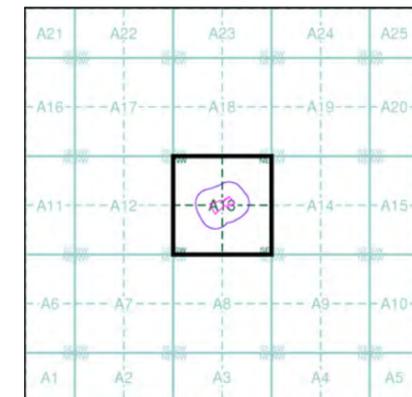
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Additional SIMs

Published 1991

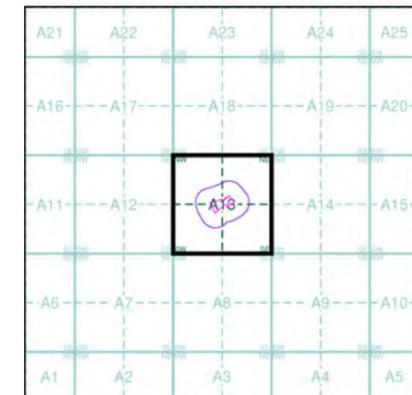
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ2865 1991 1:2,500	SJ2965 1991 1:2,500
---------------------------	---------------------------

Historical Map - Segment A13

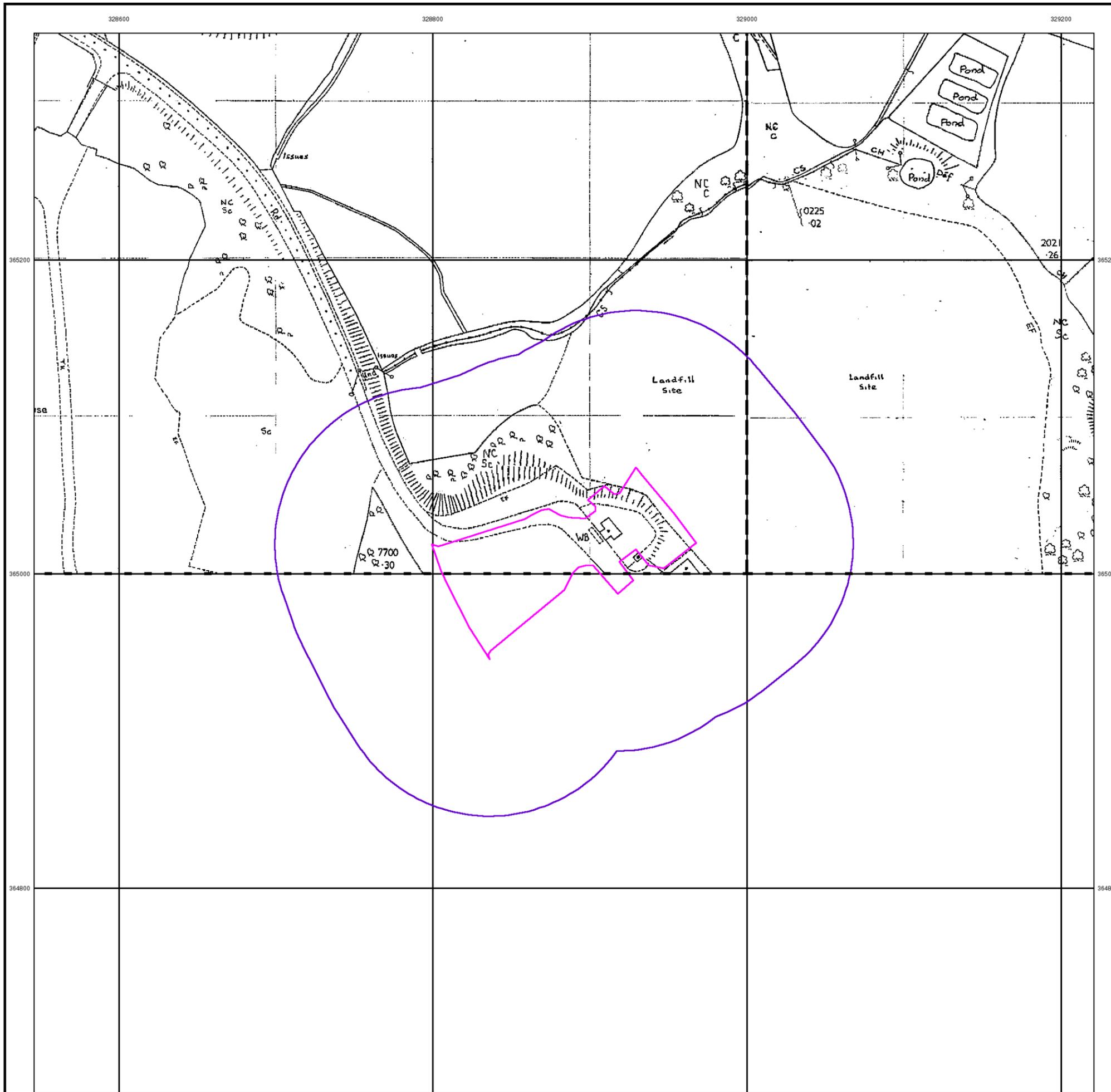


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



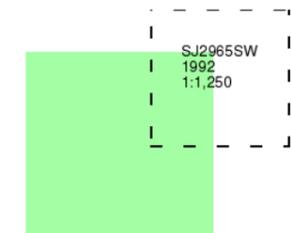
Large-Scale National Grid Data

Published 1992

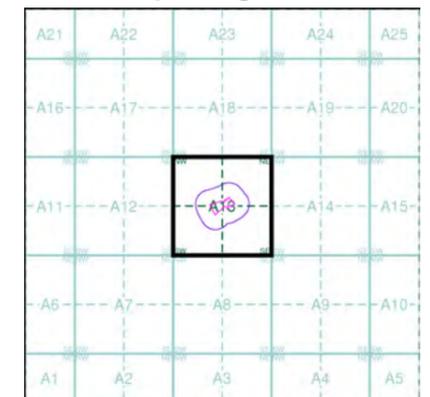
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

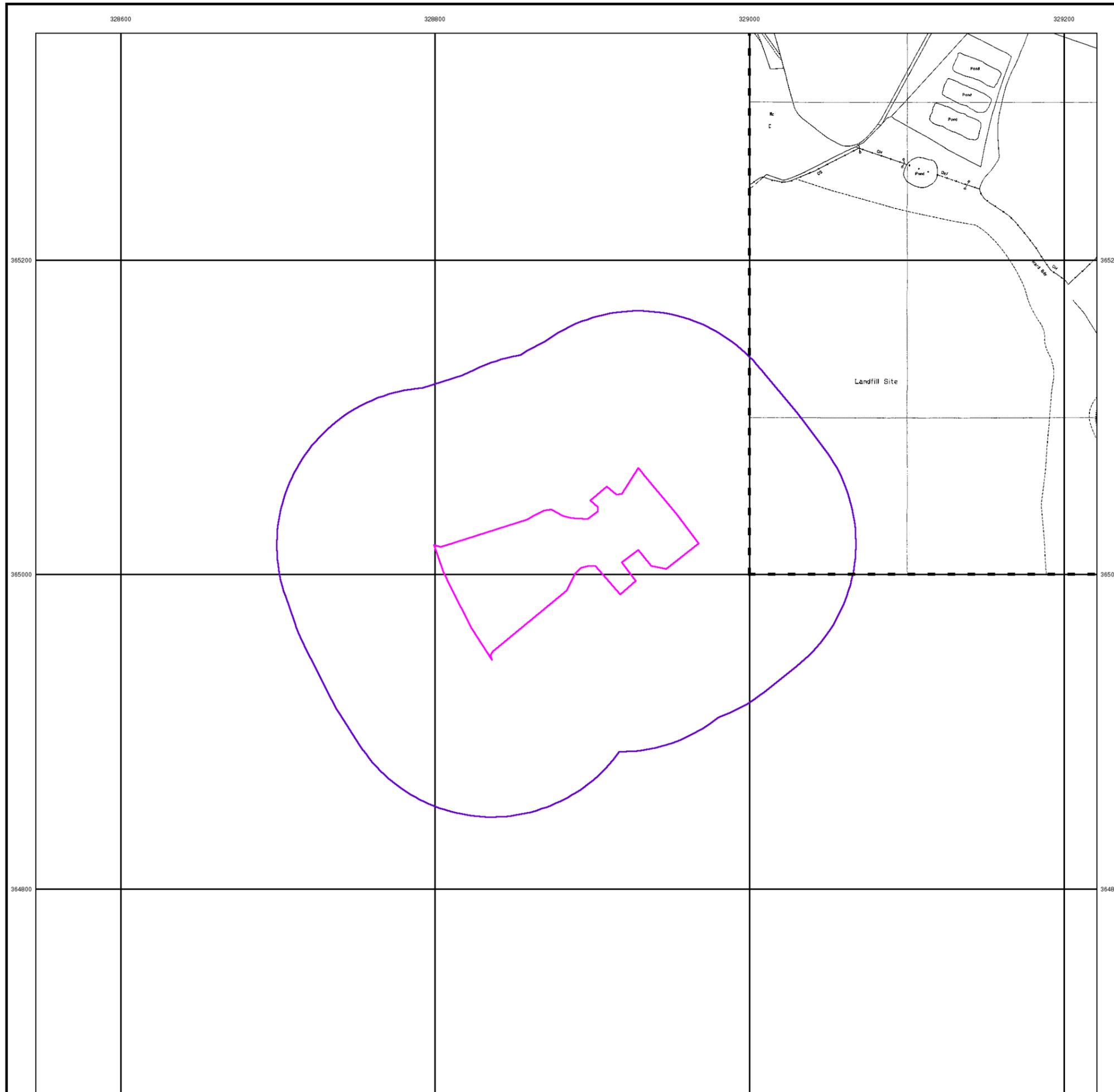


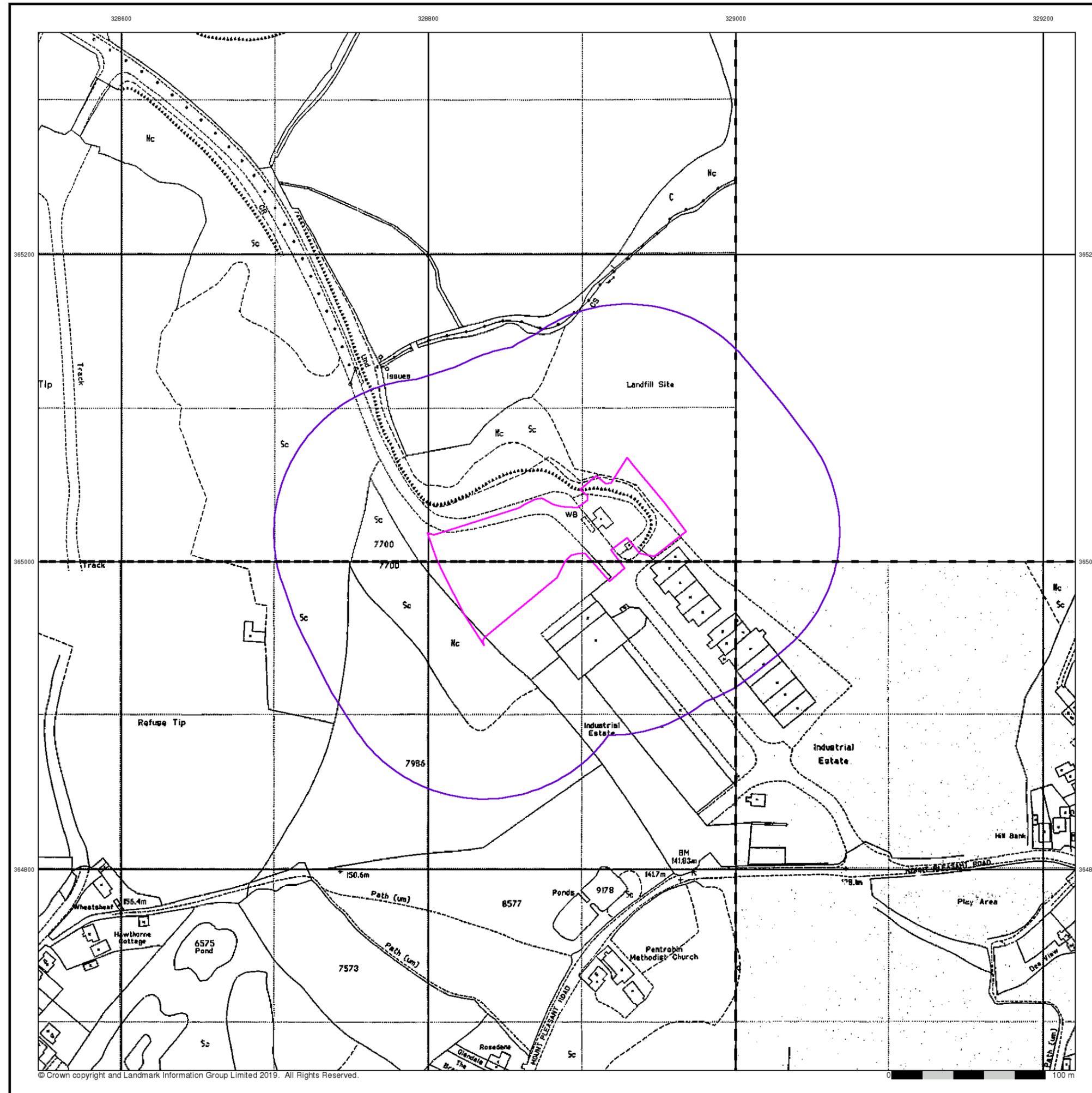
Order Details

Order Number: 227445982_1_1
Customer Ref: R2817
National Grid Reference: 328880, 365010
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY





Large-Scale National Grid Data

Published 1992 - 1993

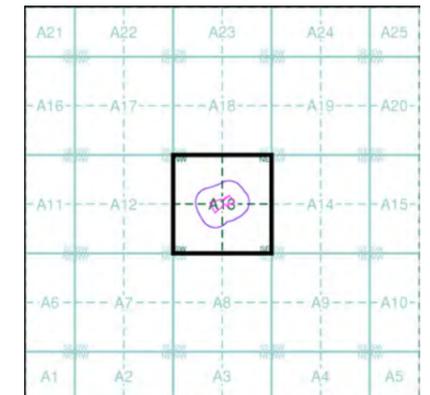
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ2885	1992	12,500
SJ2884	1993	12,500
SJ2964	1993	12,500

Historical Map - Segment A13



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

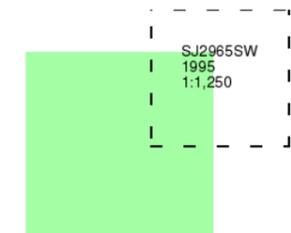
Large-Scale National Grid Data

Published 1995

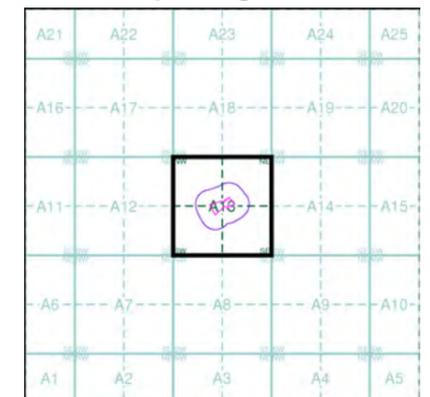
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

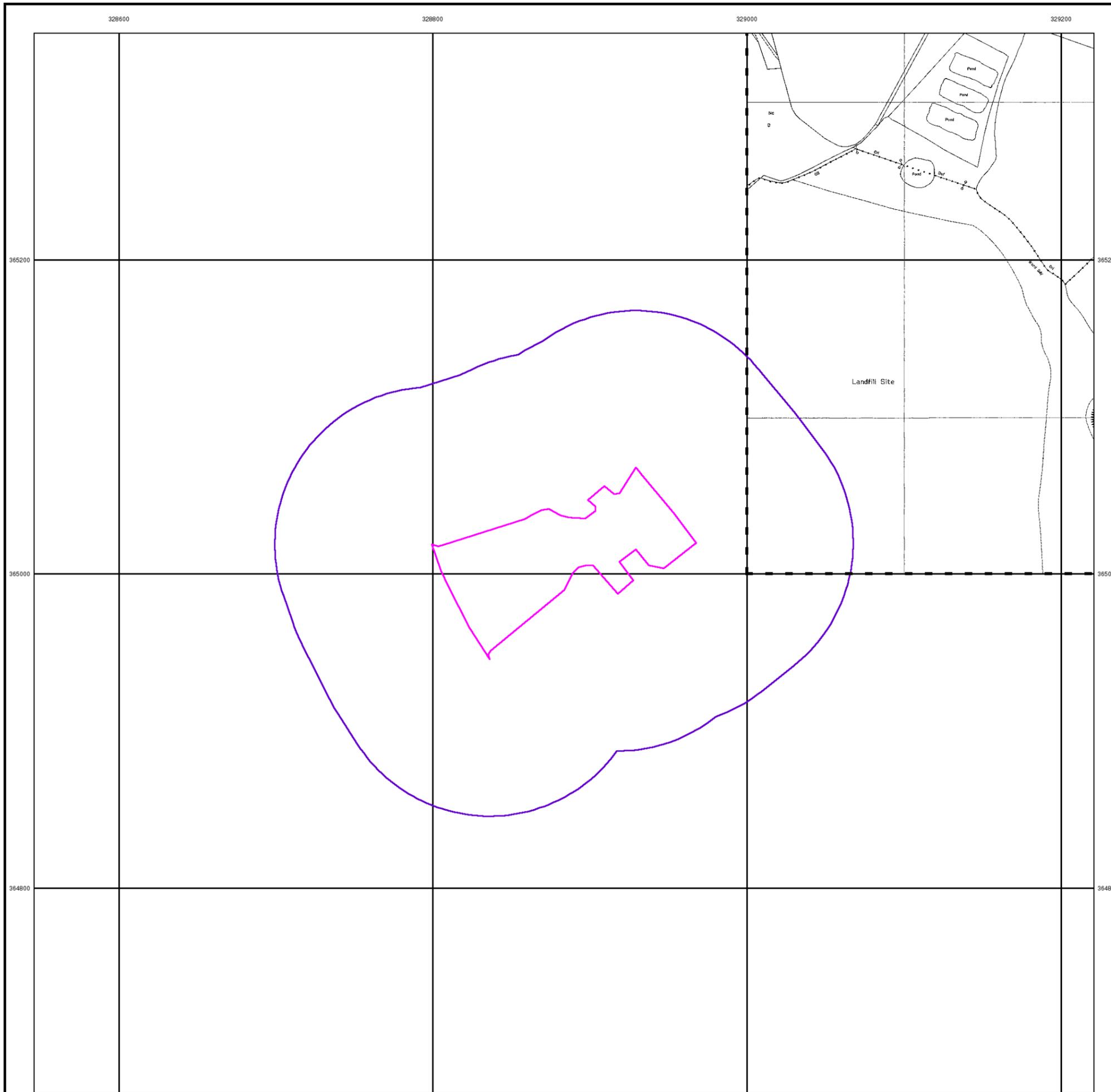


Order Details

Order Number: 227445982_1_1
Customer Ref: R2817
National Grid Reference: 328880, 365010
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



Large-Scale National Grid Data

Published 1996

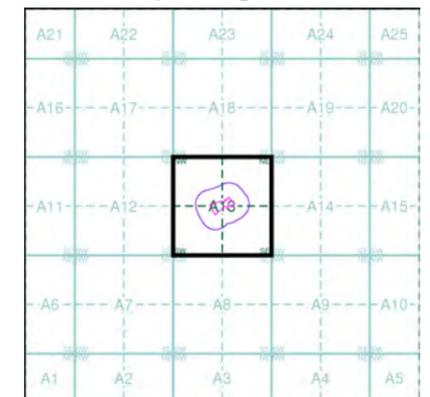
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SJ2865	1996	1:2,500
SJ2864	1996	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



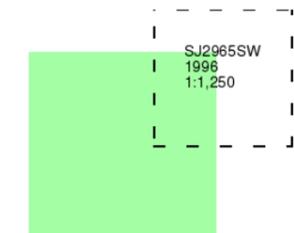
Large-Scale National Grid Data

Published 1996

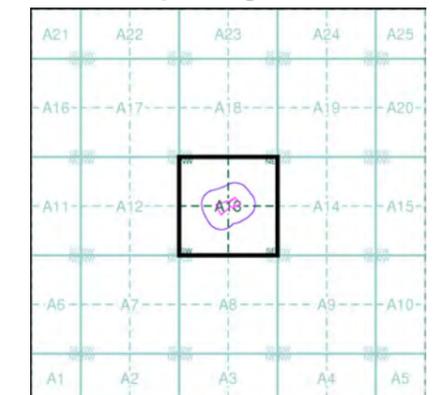
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

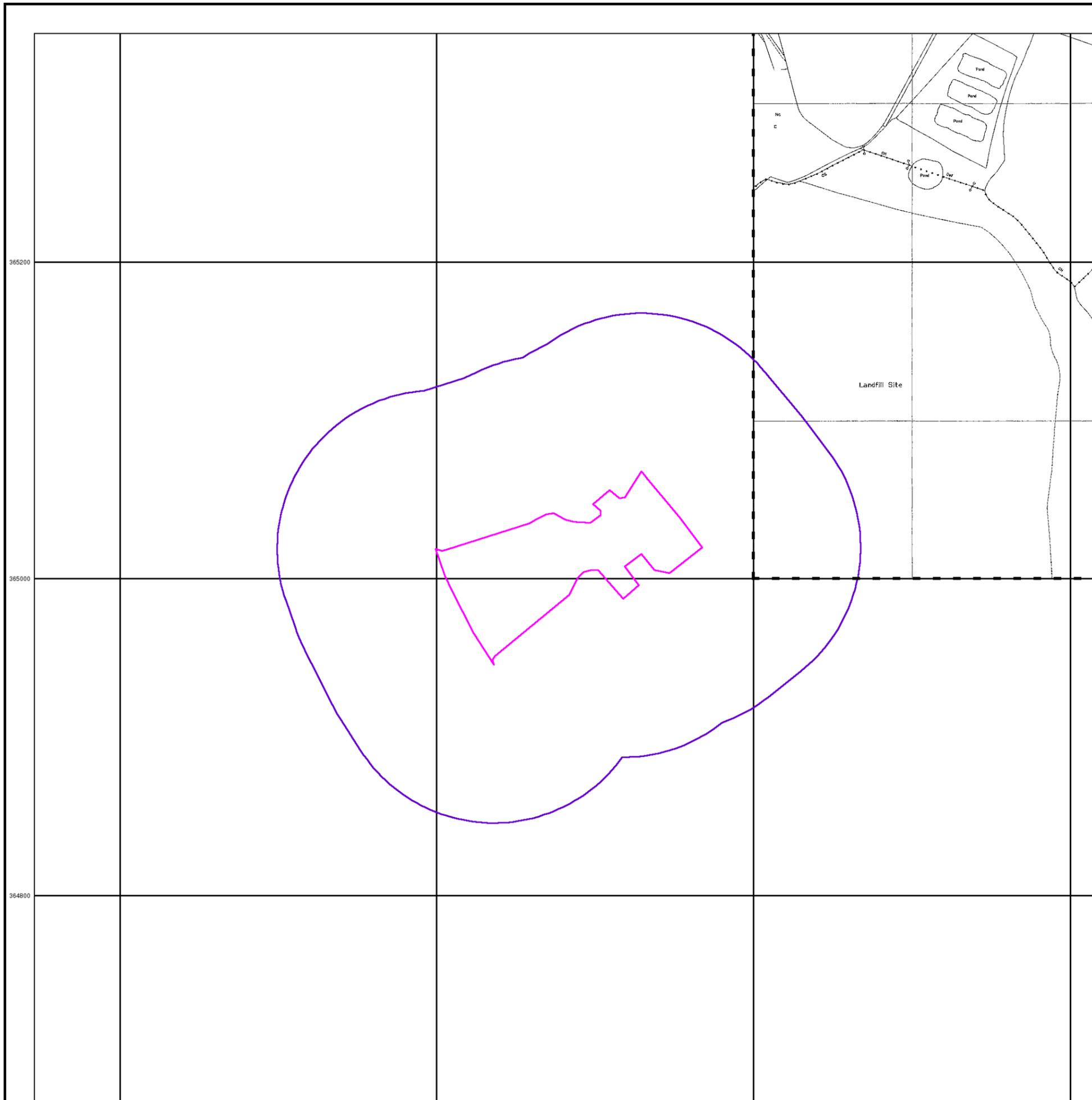


Order Details

Order Number: 227445982_1_1
Customer Ref: R2817
National Grid Reference: 328880, 365010
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



328600 328800 329000 329200

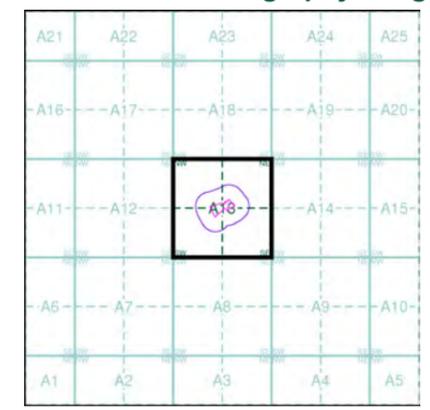


365200
365000
364800

Historical Aerial Photography Published 2001

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 227445982_1_1
Customer Ref: R2817
National Grid Reference: 328880, 365010
Slice: A
Site Area (Ha): 0.83
Search Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Historical Land Use Information (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Map ID
- Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆	—	
Disturbed Ground	◆	—	
General Quarrying	◆	—	
Heap, unknown constituents	◆	—	
Mineral Railway	◆	—	
Mining and Quarrying General	◆	—	
Mining of Coal & Lignite	◆	—	
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆	—	

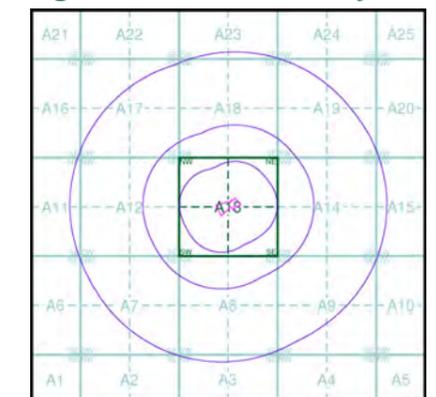
Historical Land Use

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●	---	
Potentially Infilled Land (Water)	●	---	
Former Marsh	✕		

Mining Data

- Potential Mining Area
- ▼ BGS Recorded Mineral Site

Mining and Ground Stability - Slice A

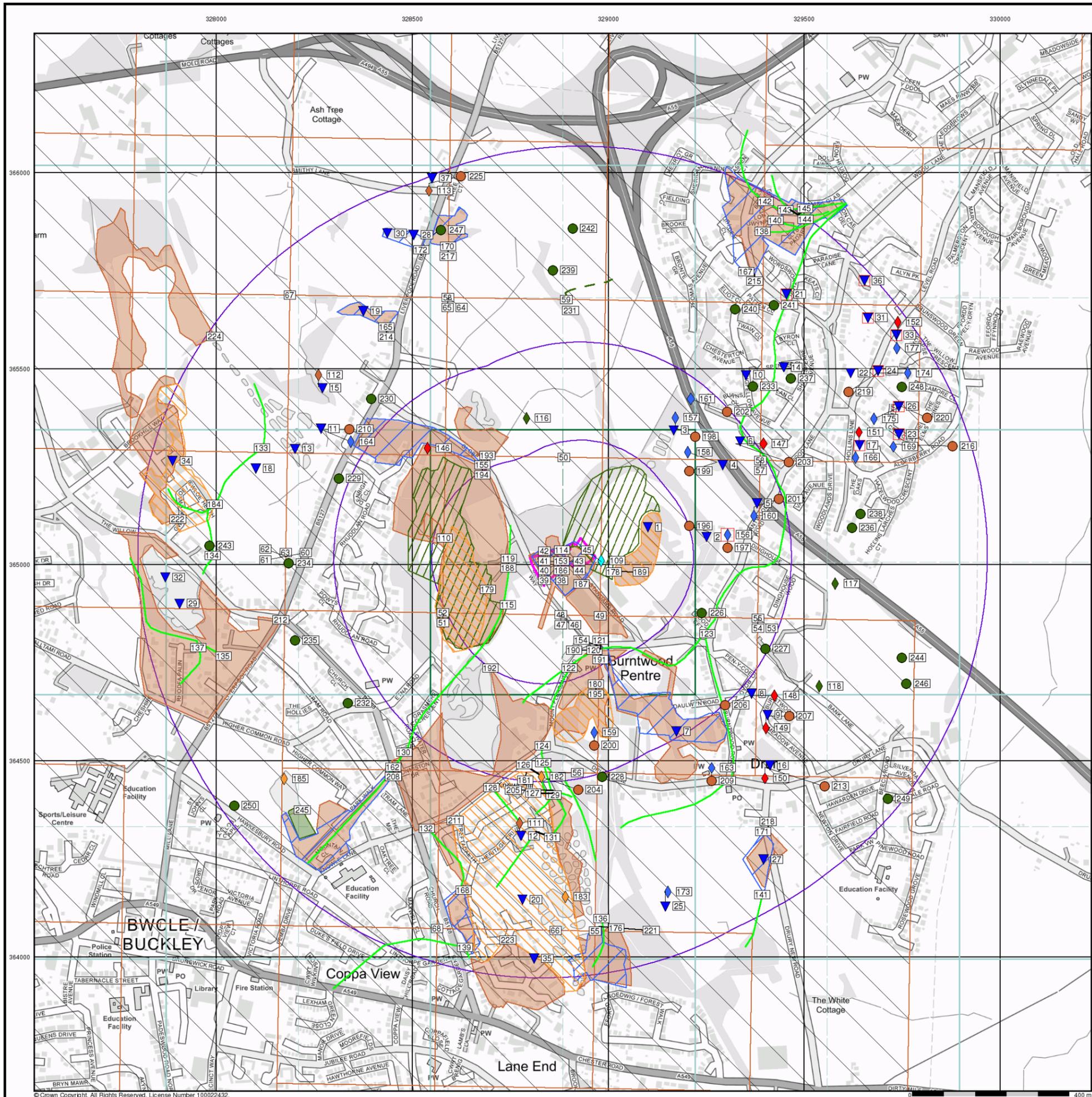


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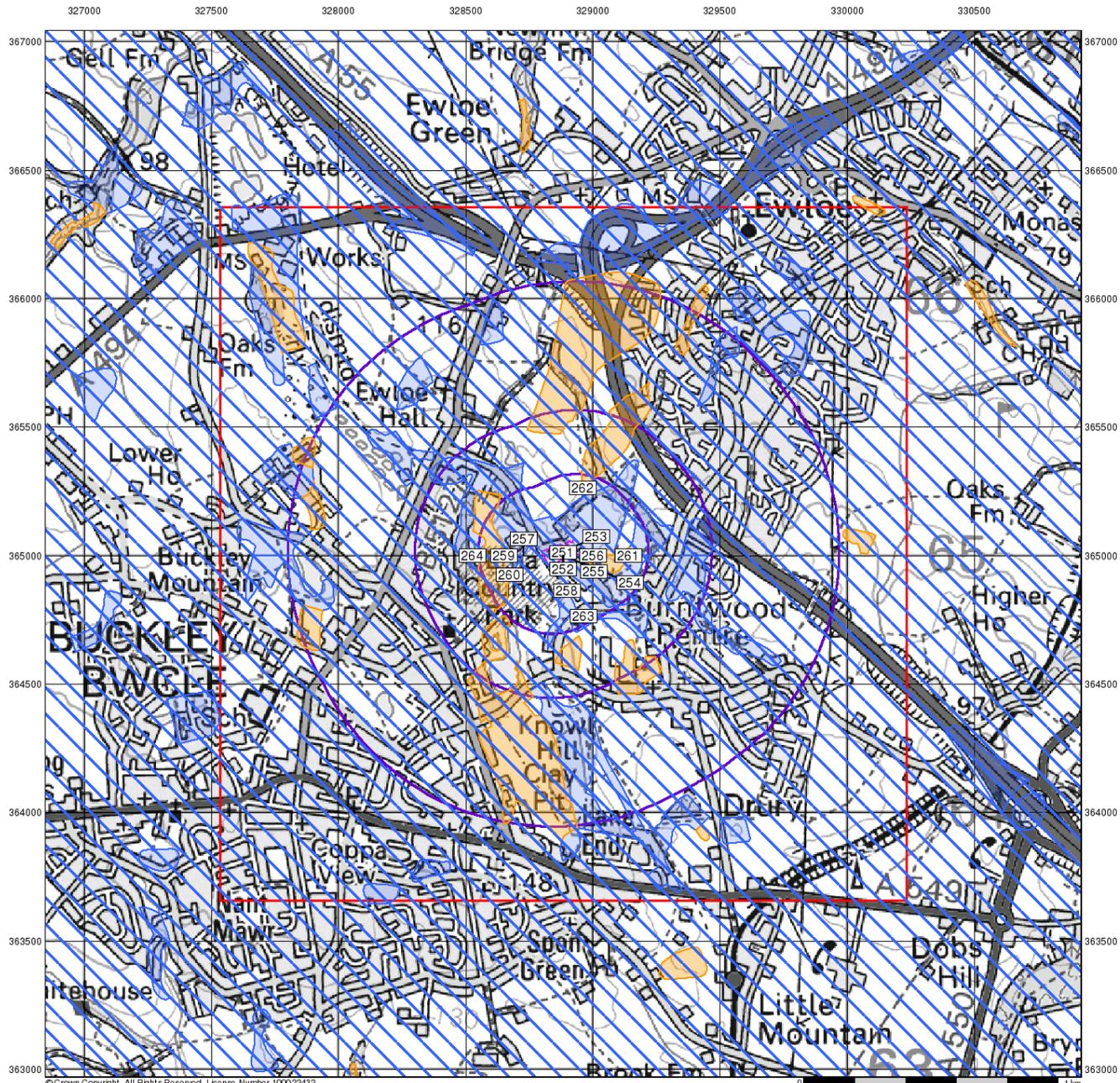
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



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Ground Stability Data (1:50,000)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Potential for Compressible Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

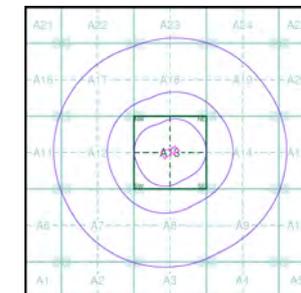
Potential for Collapsible Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Brine Pumping and Salt Mining

- | | Point | Polygon |
|-------------------------------|-------|---------|
| Brine Pumping Related Feature | | |
| Salt Mining Related Feature | | |

Mining and Ground Stability - Slice A



Order Details

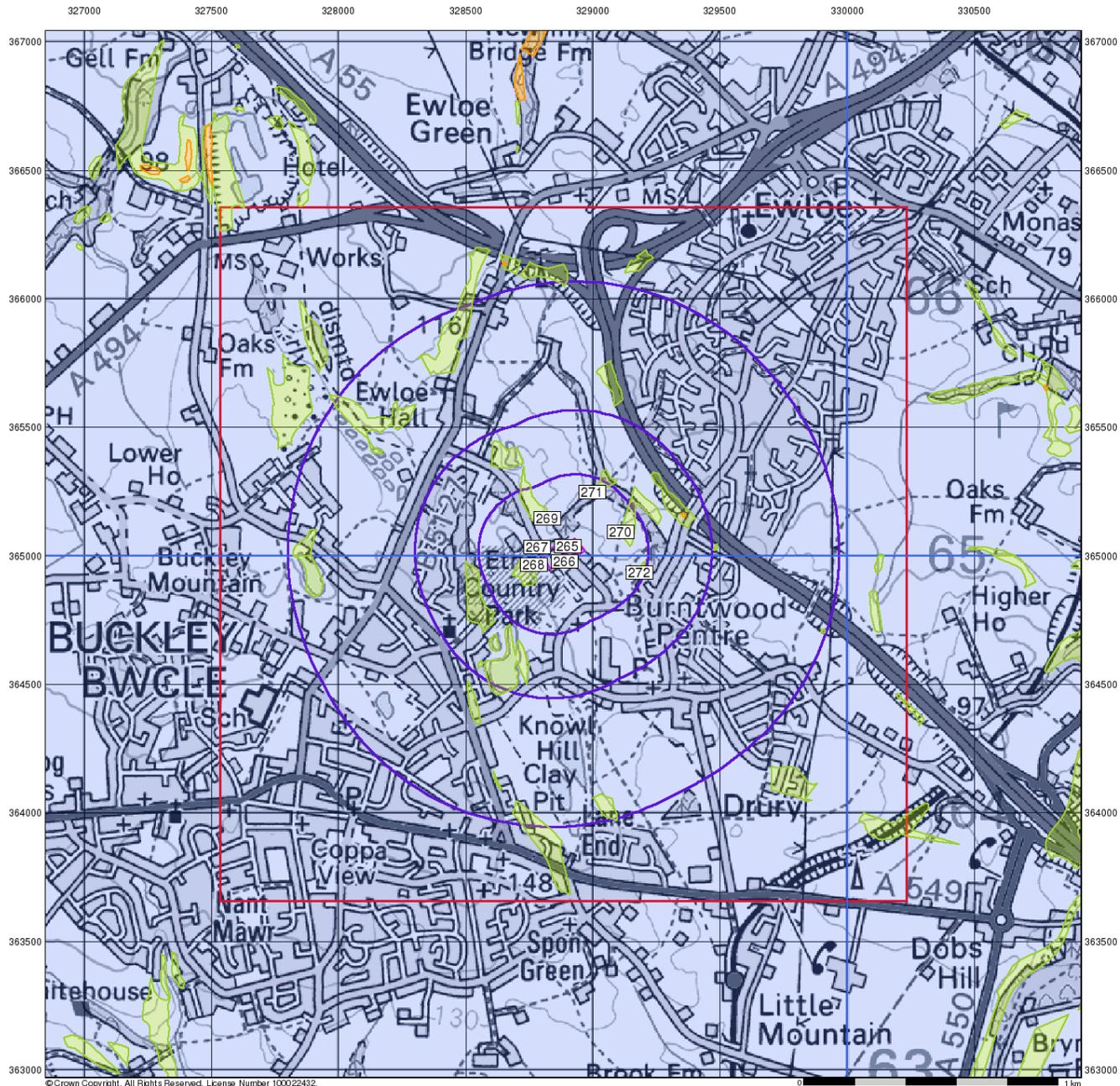
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



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Envirocheck®

LANDMARK INFORMATION GROUP®

Ground Stability Data (1:50,000)

General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

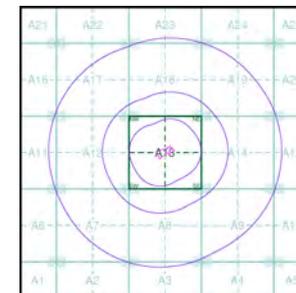
Potential for Landslide Ground Stability Hazards

-  High
-  Moderate
-  Low
-  Very Low

Potential for Ground Dissolution Stability Hazards

-  High
-  Moderate
-  Low
-  Very Low

Mining and Ground Stability - Slice A



Order Details

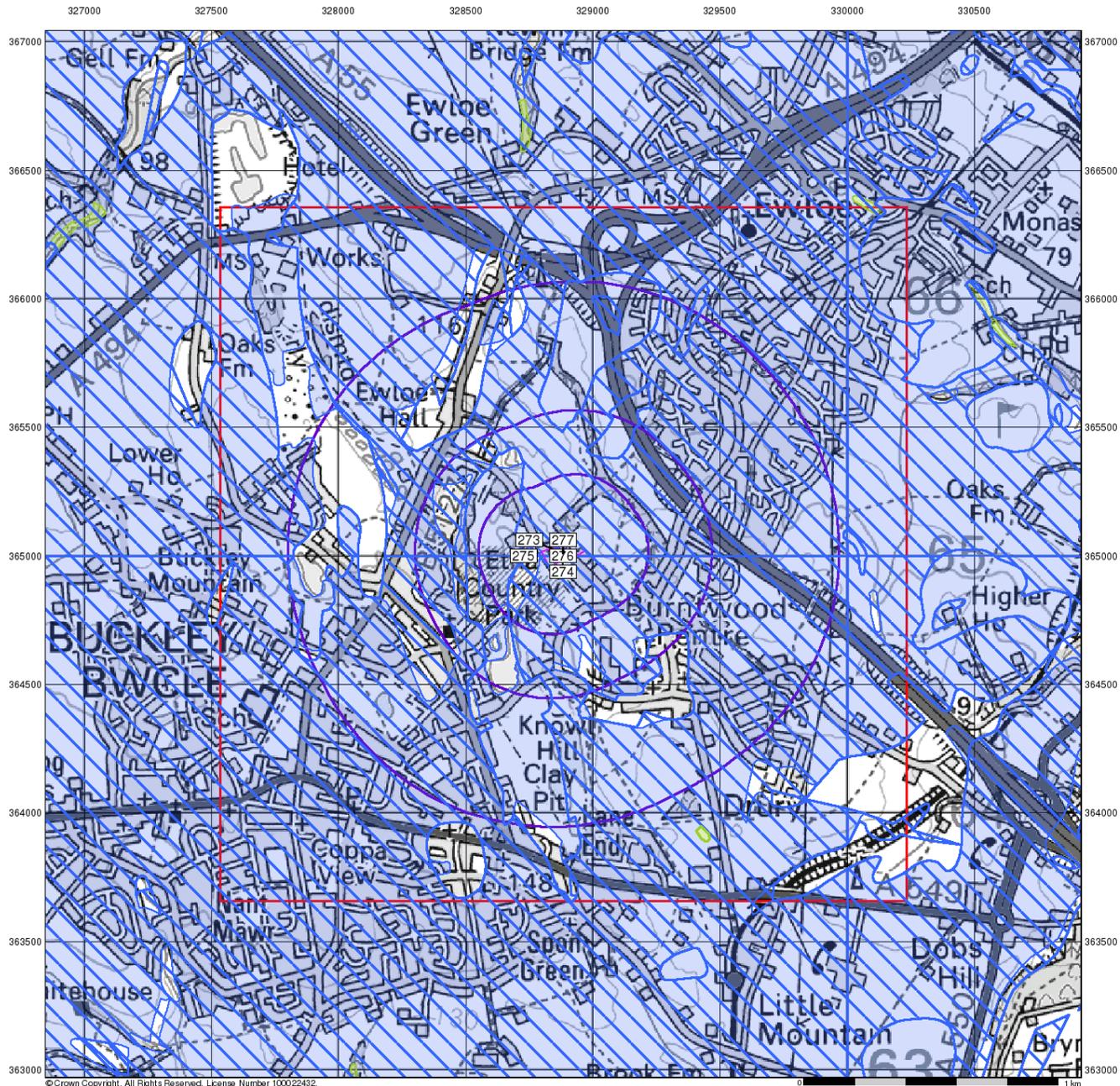
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

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Ground Stability Data (1:50,000)

General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice
-  Map ID

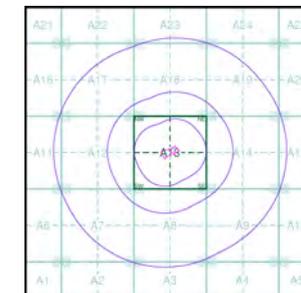
Potential for Running Sand Ground Stability Hazards

-  High
-  Low
-  Moderate
-  Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

-  High
-  Low
-  Moderate
-  Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

227445982_1_1

Customer Reference:

R2817

National Grid Reference:

328880, 365010

Slice:

A

Site Area (Ha):

0.83

Search Buffer (m):

1000

Site Details:

Spencer Industrial Estate

Liverpool Road

BUCKLEY

CH7 3LY

Client Details:

Mr D Wayland

Smith Grant Partnership

Station House

Station Road

Ruabon

Wrexham

LL14 6DL

Report Section and Details	Page Number
Summary	-
<p>The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected.</p> <p>For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).</p>	
Mining and Natural Cavities Data	1
<p>The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities.</p> <p>Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.</p>	
Historical Land Use Information (1:2,500)	13
<p>The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative.</p> <p>For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.</p>	
Historical Land Use Information (1:10,000)	17
<p>The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses.</p> <p>For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.</p>	
Ground Stability Data (1:50,000)	24
<p>The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.</p>	
Historical Map List	26
<p>The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.</p>	
Data Currency	27
Data Suppliers	28
Useful Contacts	29

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		1	6	39
Coal Mining Affected Areas	pg 8	Yes	n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability	pg 8	Yes	n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 8	Yes	Yes	n/a	n/a
Potential Mining Areas	pg 9	7	6	8	10
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)	pg 13	3	4	n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)	pg 13	1	6	n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)	pg 14	5	12	n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 15	3	4	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts	pg 17		1		
Disturbed Ground					
General Quarrying	pg 17		1		3
Heap, unknown constituents	pg 17	1	1	1	2
Mineral Railway	pg 17		4	4	19
Mining & quarrying general	pg 18			2	5
Mining of coal & lignite	pg 19	1	1	8	16
Quarrying of sand & clay, operation of sand & gravel pits	pg 20		2	3	3
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 20	1	5	13	21
Potentially Infilled Land (Water)	pg 22			2	23
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 24	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 24	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Salt Mining Related Features					

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Mount Pleasant Occs Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 6481 Type: Opencast Status: Ceased Operator: R. & A. Young Mining Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 100m</p>	A13NE (E)	155	1	329100 365100
2	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136883 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (E)	288	1	329250 365075
3	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Owlefs Hole Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136882 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A18SE (NE)	367	1	329166 365347
4	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136887 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	403	1	329291 365259
5	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136885 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (E)	436	1	329379 365161
6	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136886 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	475	1	329336 365319

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Colliery Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136869 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A8NE (SE)	482	1	329173 364579
8	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136872 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	526	1	329365 364676
9	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136870 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	593	1	329406 364621
10	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 4 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253100 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	596	1	329351 365488
11	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Smalley'S Colliery, Deep Engine Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136880 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	629	1	328266 365351
12	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Knowl Hill Location: Spon Green, Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 105085 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	636	1	328777 364313

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Catheralls Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 5851 Type: Opencast Status: Ceased Operator: Hanson Building Products Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 100m</p>	A12NW (NW)	662	1	328200 365300
14	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 3 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253099 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	680	1	329447 365508
15	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Ewloe Quarry Location: Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 15669 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	686	1	328270 365455
16	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136871 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	690	1	329412 364493
17	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136890 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	733	1	329640 365309
17	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Water Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253101 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	757	1	329665 365314

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Catheralls li Occs Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 4787 Type: Opencast Status: Ceased Operator: Clay Colliery Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	737	1	328100 365250
19	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Ewloe Hall Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136873 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	762	1	328374 365651
20	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lane End Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 1990 Type: Opencast Status: Ceased Operator: Hanson Building Products Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	798	1	328780 364150
21	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 2 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253096 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	800	1	329470 365656
21	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 1 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253095 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19NW (NE)	818	1	329454 365694
22	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Ewloe Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253098 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	805	1	329618 365493

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Flowery Field Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253104 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	812	1	329725 365310
23	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253103 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	836	1	329741 365337
24	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Engine Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253097 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	826	1	329641 365498
24	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Water Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136889 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	866	1	329688 365499
25	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Knowl Hill Location: Spon Green, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 105556 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	838	1	329145 364167
26	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253102 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	854	1	329745 365371

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136891 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	866	1	329741 365408
27	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Drury Location: Spon Green, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 105557 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	875	1	329395 364253
28	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Crossfield Colliery Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136853 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	878	1	328502 365845
29	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hope & Anchor Brickworks Location: Buckley Mountain, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 11442 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	902	1	327905 364905
30	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Crossfield Colliery Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253073 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	910	1	328439 365854
31	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253090 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	926	1	329662 365634

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Slant Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253092 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	934	1	329644 365668
31	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253091 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	942	1	329664 365657
32	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hope & Anchor Brickworks Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253042 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A11SE (W)	932	1	327869 364972
33	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253089 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	944	1	329707 365606
33	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dick'S Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136888 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	956	1	329734 365590
34	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Trap Brickworks Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253041 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	946	1	327887 365269

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	BGS Recorded Mineral Sites Site Name: Lane End Brick Works Location: Lane End, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 11441 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m	A8SW (S)	947	1	328810 364000
36	BGS Recorded Mineral Sites Site Name: No. 6 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253094 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	950	1	329614 365725
36	BGS Recorded Mineral Sites Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253093 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	981	1	329653 365729
37	BGS Recorded Mineral Sites Site Name: Cross Farm Quarry Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136850 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	998	1	328549 365990
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (W)	0	2	328881 365010
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (W)	0	3	328881 365010
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	114	1	328688 365037
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	119	1	328682 365000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	Potential Mining Areas Name: Mount Pleasant Ceased Operation: 1928 Commodity: Coal; Bind; Brassey Reference: 9710 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A13NW (W)	0	4	328881 365010
39	Potential Mining Areas Name: Mount Pleasant Ceased Operation: 1925 Commodity: Coal; Main Reference: 8240 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A13NW (W)	0	4	328881 365010
40	Potential Mining Areas Name: Mount Pleasant Ceased Operation: 1898 Commodity: Coal; Wood; Yard; Wall and Bench Reference: Not Supplied Alternate: Not Supplied Name/Mine: Custodian: E. Lloyd Jones, Plas-Isa, Rhosymedre, Wrexham.	A13NW (W)	0	4	328881 365010
41	Potential Mining Areas Name: Mount Pleasant Ceased Operation: 1914 Commodity: Coal; Hollin; Brassey; Main; King; Bind Reference: 6960 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A13NW (W)	0	4	328881 365010
42	Potential Mining Areas Name: Mount Pleasant Ceased Operation: 1892 Commodity: Coal; Yard; Premier Reference: 8280 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A13NW (W)	0	4	328881 365010
43	Potential Mining Areas Name: Mount Pleasant Ceased Operation: 1900 Commodity: Coal; Wall and Bench Reference: 8350 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A13NW (W)	0	4	328881 365010
44	Potential Mining Areas Name: Mount Pleasant Ceased Operation: 1931 Commodity: Coal; Main Reference: 10443 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A13NW (W)	0	4	328881 365010
45	Potential Mining Areas Name: Aston Hall Ceased Operation: 1908 Commodity: Coal; Wall and Bench Reference: 5205 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A13NE (E)	14	4	328981 365008
46	Potential Mining Areas Name: Ewloe Hall Ceased Operation: 1879 Commodity: Coal; Main; Hollin; Brassey Reference: 1053 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A13SW (S)	74	4	328879 364872

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Potential Mining Areas Name: Sandycroft Ceased Operation: 1874 Commodity: Coal; Rough Reference: 145 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A13SW (S)	74	4	328879 364872
48	Potential Mining Areas Name: Sandycroft Ceased Operation: 1900 Commodity: Coal; Wall and Bench Reference: 1664A Alternate: Pentrobin Name/Mine: Custodian: Not Supplied	A13SW (S)	74	4	328879 364872
49	Potential Mining Areas Name: Sandycroft Ceased Operation: 1884 Commodity: Coal; Rough Reference: 1664 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A13SE (SE)	133	4	328979 364870
50	Potential Mining Areas Name: Aston Hall Ceased Operation: 1906 Commodity: Coal; Four Feet; Yard Reference: 4970 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A13NE (N)	206	4	328885 365274
51	Potential Mining Areas Name: Buckley Ceased Operation: 1929 Commodity: Coal; Main Reference: 9937 Alternate: Elm Nos. 1, 2 Name/Mine: Alternate: Mountain Name/Mine: Alternate: Oak Great Name/Mine: Alternate: Willow Name/Mine: Custodian: Not Supplied	A13SW (SW)	260	4	328577 364877
52	Potential Mining Areas Name: Buckley Ceased Operation: 1928 Commodity: Coal; Hollin; Brassey; Wall and Bench; Premier Reference: 9719 Alternate: Mountain Name/Mine: Alternate: Willow Name/Mine: Custodian: Not Supplied	A13SW (SW)	260	4	328577 364877
53	Potential Mining Areas Name: Drury Ceased Operation: 1918 Commodity: Coal; Main Reference: 6936 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A14SW (E)	443	4	329381 364864
54	Potential Mining Areas Name: Drury Main Ceased Operation: 1931 Commodity: Coal; Main Reference: 10643 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A14SW (E)	443	4	329381 364864

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Potential Mining Areas Name: Buckley Hawarden Ceased Operation: Not Supplied Commodity: Coal Reference: Not Supplied Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A14SW (E)	443	4	329381 364864
56	Potential Mining Areas Name: Lane End Ceased Operation: 1903 Commodity: Coal; Main; Upper Main; Hollin; Brassey Reference: 4399 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A8NW (S)	476	4	328872 364470
57	Potential Mining Areas Name: Wood Lane Ceased Operation: 1927 Commodity: Coal; Hollin Reference: 9081 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A14NW (NE)	487	4	329388 365266
58	Potential Mining Areas Name: Hawarden Ceased Operation: Not Supplied Commodity: Coal Reference: Not Supplied Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A14NW (NE)	487	4	329388 365266
59	Potential Mining Areas Name: Ewloe Hall and Cheapside Ceased Operation: 1849 Commodity: Coal; Main Reference: R386 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A18SE (N)	608	4	328892 365676
60	Potential Mining Areas Name: Buckley Ceased Operation: 1930 Commodity: Coal; Brassey; Premier Reference: 10065 Alternate: Elm Name/Mine: Alternate: Nos. 1, 2 Name/Mine: Alternate: Oak Great Name/Mine: Custodian: Not Supplied	A12NW (W)	623	4	328177 365021
61	Potential Mining Areas Name: Buckley Ceased Operation: 1878 Commodity: Coal; Main Reference: 894 Alternate: Oak Name/Mine: Alternate: Willow Name/Mine: Custodian: Not Supplied	A12NW (W)	623	4	328177 365021
62	Potential Mining Areas Name: Buckley Ceased Operation: 1932 Commodity: Coal; Wall and Bench; Premier Reference: 10867 Alternate: Elm Nos. 1, 3 Name/Mine: Custodian: Not Supplied	A12NW (W)	623	4	328177 365021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Potential Mining Areas Name: Buckley Ceased Operation: 1934 Commodity: Coal; Brassey; Hollin Reference: 11222 Alternate Name/Mine: Elm Alternate Name/Mine: Nos. 1, 2, 3 Alternate Name/Mine: Oak Alternate Name/Mine: Oak Great Custodian: Not Supplied	A12NW (W)	623	4	328177 365021
64	Potential Mining Areas Name: Cheapside Ceased Operation: 1876 Commodity: Coal; Brassey Reference: 588 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A18SW (NW)	695	4	328590 365681
65	Potential Mining Areas Name: Cheapside Ceased Operation: 1875 Commodity: Coal; Main Reference: 204 Alternate Name/Mine: Nos. 1, 2 Custodian: Not Supplied	A18SW (NW)	695	4	328590 365681
66	Potential Mining Areas Name: Spon Green Ceased Operation: 1878 Commodity: Coal; Hollin; Main; Brassey Reference: 1018 Alternate Name/Mine: Nos. 1, 2, 3, 4 Custodian: Not Supplied	A8SW (S)	878	4	328866 364067
67	Potential Mining Areas Name: Buckley Ceased Operation: 1933 Commodity: Coal; Main Reference: 10959 Alternate Name/Mine: Elm Alternate Name/Mine: Nos. 1, 2, 3 Custodian: Not Supplied	A17NW (NW)	907	4	328188 365688
68	Potential Mining Areas Name: Lexham Green Ceased Operation: 1893 Commodity: Coal; Hollin; Brassey; Main Reference: 2892 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A8SW (S)	915	4	328564 364072

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	Extractive Industries or Potential Excavations from 1855-1909 Use: Railway Embankment First Map Published 1875 Date: Last Map Published Not Applicable Date:	A13SW (SW)	0	-	328850 364965
70	Extractive Industries or Potential Excavations from 1855-1909 Use: Railway Embankment First Map Published 1875 Date: Last Map Published Not Applicable Date:	A13SW (SW)	0	-	328826 364985
71	Extractive Industries or Potential Excavations from 1855-1909 Use: Unspecified Deposited Material First Map Published 1875 Date: Last Map Published Not Applicable Date:	A13NW (W)	0	-	328881 365010
72	Extractive Industries or Potential Excavations from 1855-1909 Use: Shafts First Map Published 1875 Date: Last Map Published Not Applicable Date:	A13SW (S)	8	-	328877 364974
73	Extractive Industries or Potential Excavations from 1855-1909 Use: Shafts First Map Published 1875 Date: Last Map Published Not Applicable Date:	A13SE (SE)	12	-	328905 364985
74	Extractive Industries or Potential Excavations from 1855-1909 Use: Old Ewloe Brick Works First Map Published 1875 Date: Last Map Published Not Applicable Date:	A13NW (W)	61	-	328739 365018
75	Extractive Industries or Potential Excavations from 1855-1909 Use: Railway Cutting First Map Published 1875 Date: Last Map Published Not Applicable Date:	A13SW (W)	72	-	328746 364960
76	Extractive Industries or Potential Excavations from 1893-1915 Use: Unspecified Deposited Material First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13NW (W)	0	-	328881 365010
77	Extractive Industries or Potential Excavations from 1893-1915 Use: Mount Pleasant Colliery First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13NW (W)	0	-	328881 365010
78	Extractive Industries or Potential Excavations from 1893-1915 Use: Unspecified Deposited Material First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SE (SE)	9	-	328908 364971
79	Extractive Industries or Potential Excavations from 1893-1915 Use: Shafts First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SW (S)	12	-	328877 364969

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	Extractive Industries or Potential Excavations from 1893-1915 Use: Shafts First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SE (SE)	15	-	328905 364980
81	Extractive Industries or Potential Excavations from 1893-1915 Use: Railway Embankment First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13NW (W)	22	-	328791 365039
82	Extractive Industries or Potential Excavations from 1893-1915 Use: Brick Works First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SE (SE)	42	-	328920 364944
83	Extractive Industries or Potential Excavations from 1893-1915 Use: Old Ewloe Brick Works First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13NW (W)	60	-	328740 365019
84	Extractive Industries or Potential Excavations from 1906-1937 Use: Unspecified Deposited Material First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SE (S)	0	-	328893 364979
85	Extractive Industries or Potential Excavations from 1906-1937 Use: Railway Embankment First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13NW (W)	0	-	328809 365021
86	Extractive Industries or Potential Excavations from 1906-1937 Use: Unspecified Pit First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13NE (SE)	0	-	328886 365008
87	Extractive Industries or Potential Excavations from 1906-1937 Use: Unspecified Deposited Material First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13NW (W)	0	-	328881 365010
88	Extractive Industries or Potential Excavations from 1906-1937 Use: Mount Pleasant Colliery First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13NW (W)	0	-	328881 365010
89	Extractive Industries or Potential Excavations from 1906-1937 Use: Air Shaft First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SE (SE)	10	-	328905 364987
90	Extractive Industries or Potential Excavations from 1906-1937 Use: Shaft First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (S)	11	-	328877 364971

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	Extractive Industries or Potential Excavations from 1906-1937 Use: Air Shaft First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13NE (E)	17	-	328983 365014
92	Extractive Industries or Potential Excavations from 1906-1937 Use: Reservoir First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SE (SE)	23	-	328948 364973
93	Extractive Industries or Potential Excavations from 1906-1937 Use: Railway Embankment First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (S)	25	-	328848 364925
94	Extractive Industries or Potential Excavations from 1906-1937 Use: Standard Brick & Terra Cotta Works First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SE (SE)	25	-	328925 364963
95	Extractive Industries or Potential Excavations from 1906-1937 Use: Reservoir First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (S)	36	-	328865 364922
96	Extractive Industries or Potential Excavations from 1906-1937 Use: Old Ewloe Brick Works First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13NW (W)	56	-	328744 365024
97	Extractive Industries or Potential Excavations from 1906-1937 Use: Railway Cutting First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (W)	67	-	328748 364969
98	Extractive Industries or Potential Excavations from 1906-1937 Use: Slant (Coal & Clay) First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (S)	86	-	328828 364860
99	Extractive Industries or Potential Excavations from 1906-1937 Use: Railway Embankment First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13NW (NW)	95	-	328767 365108
100	Extractive Industries or Potential Excavations from 1906-1937 Use: Railway Embankment First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SE (S)	100	-	328909 364878
101	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Deposited Material First Map Published 1964 Date: Last Map Published N/A Date:	A13NE (E)	0	-	328899 365012

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Deposited Material First Map Published 1964 Date: Last Map Published N/A Date:	A13NW (NW)	0	-	328875 365023
103	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Deposited Material First Map Published 1965 Date: Last Map Published N/A Date:	A13NW (W)	0	-	328881 365010
104	Extractive Industries or Potential Excavations from 1950-1980 Use: Air Shaft (Disused) First Map Published 1964 Date: Last Map Published N/A Date:	A13NE (E)	17	-	328983 365015
105	Extractive Industries or Potential Excavations from 1950-1980 Use: Water First Map Published 1965 Date: Last Map Published N/A Date:	A13SE (SE)	22	-	328950 364975
106	Extractive Industries or Potential Excavations from 1950-1980 Use: Clay Pit First Map Published 1964 Date: Last Map Published 1965 Date:	A13SE (E)	37	-	328981 364972
107	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Deposited Material First Map Published 1964 Date: Last Map Published N/A Date:	A13NE (E)	58	-	329021 365039
108	Extractive Industries or Potential Excavations from 1950-1980 Use: Railway Cutting First Map Published 1965 Date: Last Map Published N/A Date:	A13SW (W)	66	-	328749 364968

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	Air Shafts Use: Not Supplied Date of Mapping: 1914 - 1963	A13NE (E)	17	-	328981 365010
110	General Quarrying Use: Not Supplied Date of Mapping: 1963	A13NW (W)	223	-	328582 365068
111	General Quarrying Use: Not Supplied Date of Mapping: 1900	A8SW (S)	627	-	328773 364322
112	General Quarrying Use: Not Supplied Date of Mapping: 1881	A17SE (NW)	693	-	328260 365453
113	General Quarrying Use: Not Supplied Date of Mapping: 1881	A17NE (N)	986	-	328541 365974
114	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1963	A13NW (N)	0	-	328882 365037
115	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1991	A13SW (SW)	105	-	328743 364898
116	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1881	A18SW (N)	336	-	328791 365373
117	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1881	A14SE (E)	616	-	329579 364952
118	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1881	A14SW (SE)	658	-	329537 364691
119	Mineral Railway Use: Not Supplied Date of Mapping: 1881 - 1963	A13NW (W)	53	-	328747 365016
120	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A13SE (S)	206	-	328964 364782
121	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A13SE (SE)	211	-	328980 364786
122	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A13SE (S)	220	-	328901 364736
123	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A14SW (SE)	347	-	329253 364824
124	Mineral Railway Use: Not Supplied Date of Mapping: 1881 - 1938	A8NW (S)	409	-	328832 364538
125	Mineral Railway Use: Not Supplied Date of Mapping: 1881 - 1900	A8NW (S)	451	-	328834 364495
126	Mineral Railway Use: Not Supplied Date of Mapping: 1914 - 1938	A8NW (S)	480	-	328822 364467
127	Mineral Railway Use: Not Supplied Date of Mapping: 1900	A8NW (S)	529	-	328856 364418
128	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A8NW (S)	532	-	328702 364432
129	Mineral Railway Use: Not Supplied Date of Mapping: 1900	A8NW (S)	534	-	328861 364413

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Mineral Railway Use: Not Supplied Date of Mapping: 1964	A7NE (SW)	554	-	328480 364522
131	Mineral Railway Use: Not Supplied Date of Mapping: 1900	A8SW (S)	627	-	328815 364320
132	Mineral Railway Use: Not Supplied Date of Mapping: 1900	A7SE (SW)	688	-	328537 364327
133	Mineral Railway Use: Not Supplied Date of Mapping: 1900 - 1938	A12NW (W)	739	-	328116 365298
134	Mineral Railway Use: Not Supplied Date of Mapping: 1900 - 1938	A12NW (W)	809	-	327991 365030
135	Mineral Railway Use: Not Supplied Date of Mapping: 1938	A12SW (W)	821	-	328019 364766
136	Mineral Railway Use: Not Supplied Date of Mapping: 1881 - 1938	A8SE (S)	862	-	328983 364097
137	Mineral Railway Use: Not Supplied Date of Mapping: 1938	A12SW (W)	876	-	327954 364788
138	Mineral Railway Use: Not Supplied Date of Mapping: 1938	A19NW (NE)	911	-	329394 365850
139	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A8SW (S)	945	-	328634 364023
140	Mineral Railway Use: Not Supplied Date of Mapping: 1938	A19NW (NE)	952	-	329427 365879
141	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A9SW (SE)	955	-	329392 364159
142	Mineral Railway Use: Not Supplied Date of Mapping: 1938	A19NW (NE)	980	-	329402 365926
143	Mineral Railway Use: Not Supplied Date of Mapping: 1881	A19NW (NE)	988	-	329452 365905
144	Mineral Railway Use: Not Supplied Date of Mapping: 1938	A19NW (NE)	994	-	329465 365904
145	Mineral Railway Use: Not Supplied Date of Mapping: 1938	A19NW (NE)	997	-	329485 365895
146	Mining & quarrying general Use: Not Supplied Date of Mapping: 1900	A12NE (NW)	383	-	328538 365298
147	Mining & quarrying general Use: Not Supplied Date of Mapping: 1881	A14NW (NE)	460	-	329325 365309
148	Mining & quarrying general Use: Not Supplied Date of Mapping: 1881 - 1900	A9NW (SE)	528	-	329359 364666
149	Mining & quarrying general Use: Not Supplied Date of Mapping: 1900	A9NW (SE)	595	-	329402 364614
150	Mining & quarrying general Use: Not Supplied Date of Mapping: 1881 - 1900	A9NW (SE)	689	-	329399 364484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	Mining & quarrying general Use: Not Supplied Date of Mapping: 1992	A14NE (E)	732	-	329639 365310
152	Mining & quarrying general Use: Not Supplied Date of Mapping: 1992	A19SE (NE)	959	-	329738 365589
153	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900 - 1938	A13NW (W)	0	-	328881 365010
154	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1914	A13SE (SE)	203	-	328974 364793
155	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A13NW (NW)	264	-	328679 365254
156	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A14NW (E)	295	-	329255 365085
156	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1914	A14NW (E)	342	-	329304 365077
157	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A18SE (NE)	371	-	329170 365350
158	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1900	A14NW (NE)	393	-	329277 365262
159	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A8NE (S)	395	-	328963 364572
160	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1900	A14NW (E)	424	-	329371 365148
161	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A18SE (NE)	454	-	329210 365424
162	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900 - 1964	A7NE (SW)	602	-	328451 364484
163	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A9NW (SE)	610	-	329263 364483
164	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A17SE (NW)	626	-	328267 365346
165	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1914	A17SE (NW)	692	-	328434 365607
166	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A14NE (E)	716	-	329630 365289
167	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1914	A19NW (NE)	801	-	329352 365747
168	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1900	A8SW (S)	803	-	328631 364170
169	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1914	A14NE (E)	813	-	329727 365308
170	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1900	A18NW (N)	818	-	328591 365812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1900	A9SW (SE)	818	-	329395 364320
172	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1900	A17NE (NW)	832	-	328522 365803
173	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A8SE (S)	842	-	329151 364166
174	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A19SE (NE)	859	-	329687 365490
175	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1914	A19SE (NE)	869	-	329747 365405
176	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881 - 1914	A8SE (S)	880	-	328976 364077
177	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1881	A19SE (NE)	953	-	329735 365583
178	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1963	A13SE (E)	58	-	329015 364983
179	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1963	A13SW (W)	130	-	328693 364937
180	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1964	A13SE (S)	281	-	328969 364695
181	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1964 - 1991	A8NW (S)	479	-	328791 364470
182	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1914	A8NW (S)	487	-	328829 364459
183	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1881	A8SE (S)	795	-	328889 364154
184	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1963	A12NW (W)	816	-	327995 365154
185	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1881	A7NW (SW)	826	-	328172 364455
186	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13NW (W)	0	-	328881 365010
187	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (SE)	37	-	328932 364952
188	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13NW (W)	55	-	328745 365007
189	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (E)	58	-	329015 364983
190	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (S)	203	-	328956 364783
191	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (SE)	216	-	328980 364781

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SW (SW)	251	-	328700 364736
193	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NW (NW)	263	-	328692 365259
194	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NW (NW)	264	-	328679 365254
195	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (S)	281	-	328969 364695
196	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	295	-	329255 365085
197	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	342	-	329304 365077
198	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18SE (NE)	371	-	329170 365350
199	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (NE)	393	-	329277 365262
200	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NE (S)	395	-	328963 364572
201	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	424	-	329371 365148
202	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18SE (NE)	454	-	329210 365424
203	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (NE)	460	-	329325 365309
204	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (S)	487	-	328829 364459
205	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (S)	522	-	328859 364425
206	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	528	-	329359 364666
207	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	595	-	329402 364614
208	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7NE (SW)	602	-	328451 364484
209	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	610	-	329263 364483
210	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SE (NW)	626	-	328267 365346
211	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (S)	641	-	328610 364347
212	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A12SW (W)	655	-	328164 364860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	689	-	329399 364484
214	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SE (NW)	692	-	328434 365607
215	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19NW (NE)	807	-	329373 365740
216	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NE (E)	813	-	329727 365308
217	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18NW (N)	818	-	328591 365812
218	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9SW (SE)	824	-	329408 364322
219	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SE (NE)	859	-	329687 365490
220	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SE (NE)	869	-	329747 365405
221	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8SE (S)	880	-	328976 364077
222	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12NW (W)	903	-	327902 365116
223	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8SW (S)	908	-	328743 364043
224	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SW (NW)	982	-	327996 365582
225	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17NE (N)	986	-	328541 365974
226	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SW (E)	306	-	329238 364878
227	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A14SW (SE)	493	-	329401 364786
228	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8NE (S)	509	-	328983 364459
229	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A12NE (W)	528	-	328312 365220
230	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1881	A17SE (NW)	573	-	328394 365423
231	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18SE (N)	582	-	328904 365648
232	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A7NE (SW)	583	-	328335 364647
233	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	597	-	329369 365471

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A12SW (W)	617	-	328183 365005
235	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12SW (W)	635	-	328200 364808
236	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A14NE (E)	659	-	329621 365094
237	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	675	-	329465 365479
238	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A14NE (E)	685	-	329643 365131
239	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18NW (N)	687	-	328858 365751
240	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	705	-	329323 365652
241	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	778	-	329423 365669
242	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18NE (N)	790	-	328908 365857
243	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NW (W)	819	-	327982 365049
244	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	823	-	329748 364763
245	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7NE (SW)	842	-	328219 364374
246	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	856	-	329760 364697
247	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	857	-	328533 365833
248	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A19SE (NE)	893	-	329748 365454
249	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A9NE (SE)	968	-	329713 364404
250	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A7NW (SW)	970	-	328045 364385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
251	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
252	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
253	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
254	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
255	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	39	1	328980 364966
256	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	40	1	329001 365000
257	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	75	1	328728 365000
258	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	105	1	328898 364862
259	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	152	1	328649 365000
260	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	152	1	328672 364925
261	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	174	1	329139 365000
262	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	196	1	328959 365261
263	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	221	1	328963 364764
264	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	241	1	328560 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	328818 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	328852 364973
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	103	1	328837 365138
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
265	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
266	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
267	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	26	1	328779 365035
268	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	52	1	328767 364964
269	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	118	1	328818 365146
270	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	158	1	329109 365091
271	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	191	1	328996 365246
272	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	329183 364935
273	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
274	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
275	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	75	1	328728 365000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	6	1	328794 365016
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	13	1	328793 365000
276	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
277	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	71	1	328731 365000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	71	1	328732 364997

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheets	Published Date
Flintshire	014_02	1869
Flintshire	014_06	1875
Flintshire	014_02	1899
Flintshire	014_06	1899
Flintshire	014_02	1912
Flintshire	014_06	1912
Ordnance Survey Plan	SJ2865	1964
Ordnance Survey Plan	SJ2965	1964
Ordnance Survey Plan	SJ2864	1965
Ordnance Survey Plan	SJ2964	1965

The following mapping has been analysed for Historical Land Use Information (1:10,000):

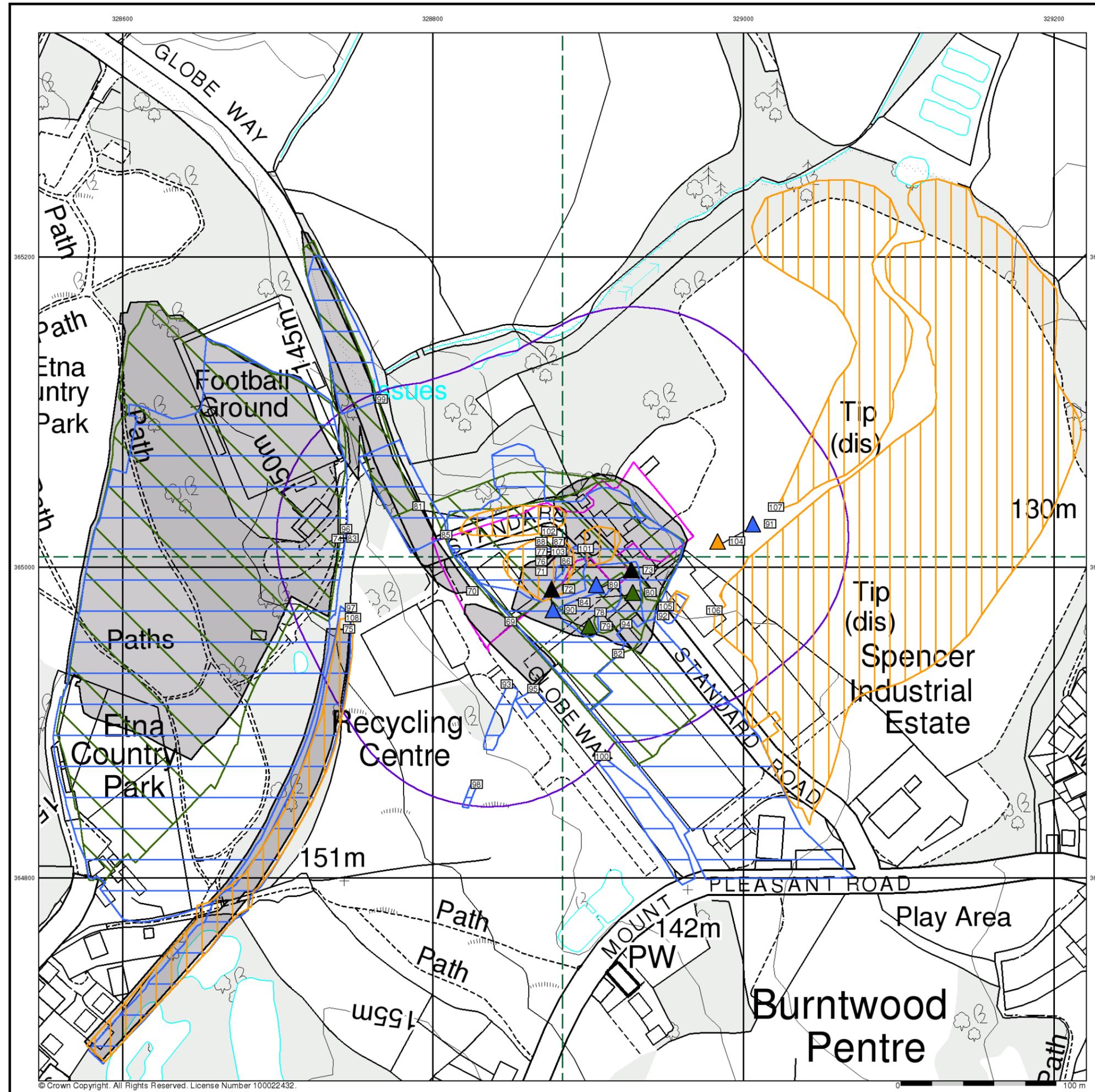
1:10,560	Mapsheets	Published Date
Flintshire	014_00	1881
Cheshire	045_00	1881
Cheshire	038A_00	1882
Flintshire	014_NW	1900
Flintshire	014_SW	1900
Cheshire	045_NE	1900
Flintshire	014_NW	1914
Flintshire	014_SW	1914
Cheshire	045_NE	1914
Flintshire	014_NW	1938
Flintshire	014_SW	1938
Ordnance Survey Plan	SJ36SW	1954
Ordnance Survey Plan	SJ26NE	1963
Ordnance Survey Plan	SJ36NW	1963
Ordnance Survey Plan	SJ26SE	1964
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Ordnance Survey Plan	SJ26SE	1991
Ordnance Survey Plan	SJ36SW	1991
Ordnance Survey Plan	SJ26NE	1992
Ordnance Survey Plan	SJ36NW	1992

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Peter Brett Associates	July 2019	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	July 2019	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	March 2019	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area Johnson Poole & Bloomer	January 2015	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Peter Brett Associates	
Wardell Armstrong	
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
3	Ove Arup & Partners Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
4	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9960 Fax: 0844 844 9951 Email: customerservice@promap.co.uk Website: www.landmarkinfo.co.uk
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



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Historical Land Use Information (1:2,500)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

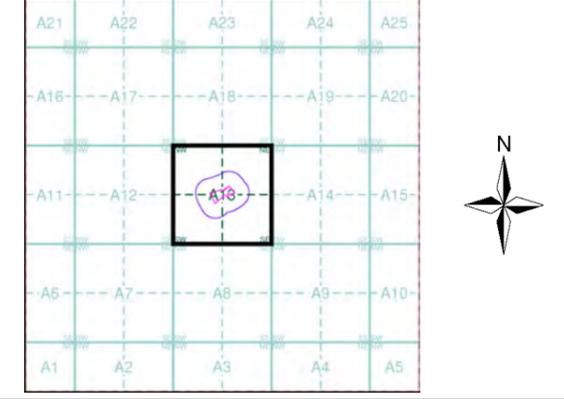
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	■
Extractive Industries Activity from 1893 - 1915	▲	—	■
Extractive Industries Activity from 1906 - 1937	▲	—	■
Extractive Industries Activity from 1924 - 1949	▲	—	■
Extractive Industries Activity from 1950 - 1980	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment A13



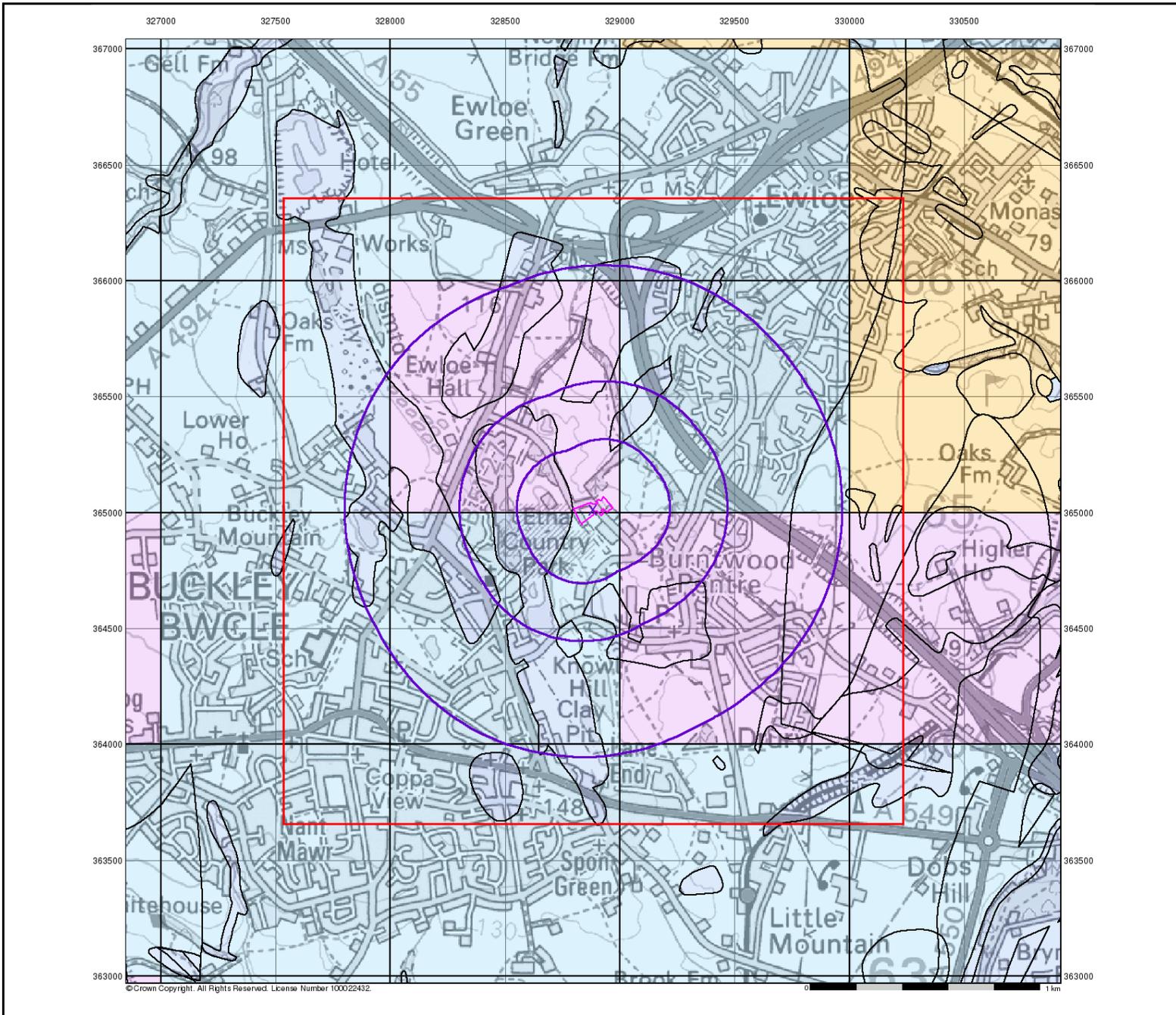
Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Plot Buffer (m): 100

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

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 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



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Groundwater Vulnerability

General

- ◆ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
■ High Vulnerability, Principal Aquifer	■ High Vulnerability, Principal Aquifer
■ High Vulnerability, Secondary Aquifer	■ High Vulnerability, Secondary Aquifer
■ Medium Vulnerability, Principal Aquifer	■ Medium Vulnerability, Principal Aquifer
■ Medium Vulnerability, Secondary Aquifer	■ Medium Vulnerability, Secondary Aquifer
■ Low Vulnerability, Principal Aquifer	■ Low Vulnerability, Principal Aquifer
■ Low Vulnerability, Secondary Aquifer	■ Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
 Soluble Rock

Site Sensitivity Context Map - Slice A

Order Details

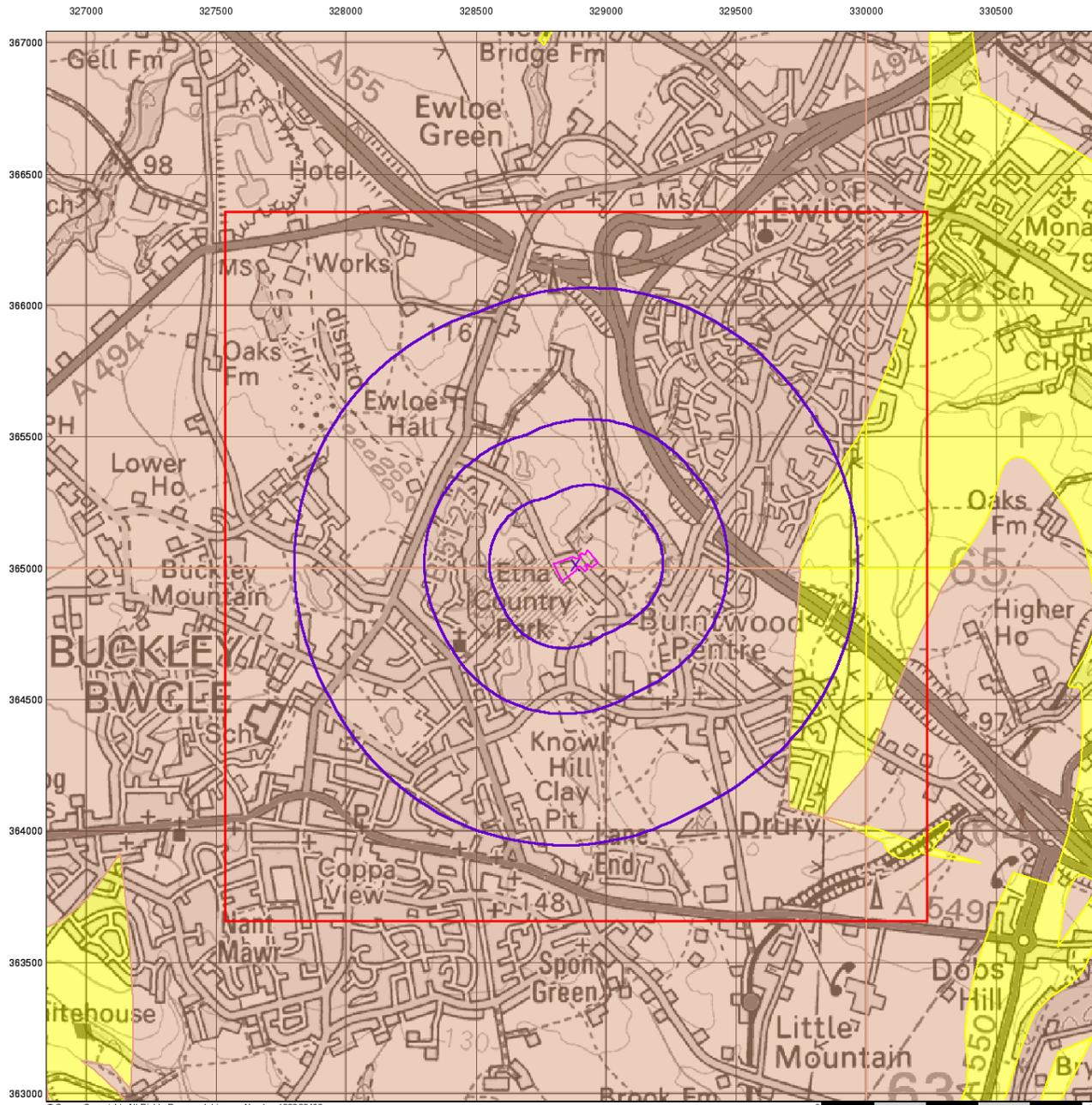
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Customer Ref:	R2817
National Grid Reference:	328880, 365010
Slice:	A
Site Area (Ha):	0.83
Search Buffer (m):	1000

Site Details
 Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Landmark
 INFORMATION GROUP

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 Web: www.envirocheck.co.uk

A Landmark Information Group Service v15.0 05-Dec-2019 Page 1 of 6



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0 1 km

Bedrock Aquifer Designation

General

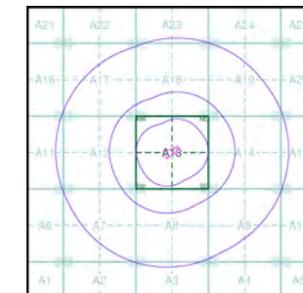
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

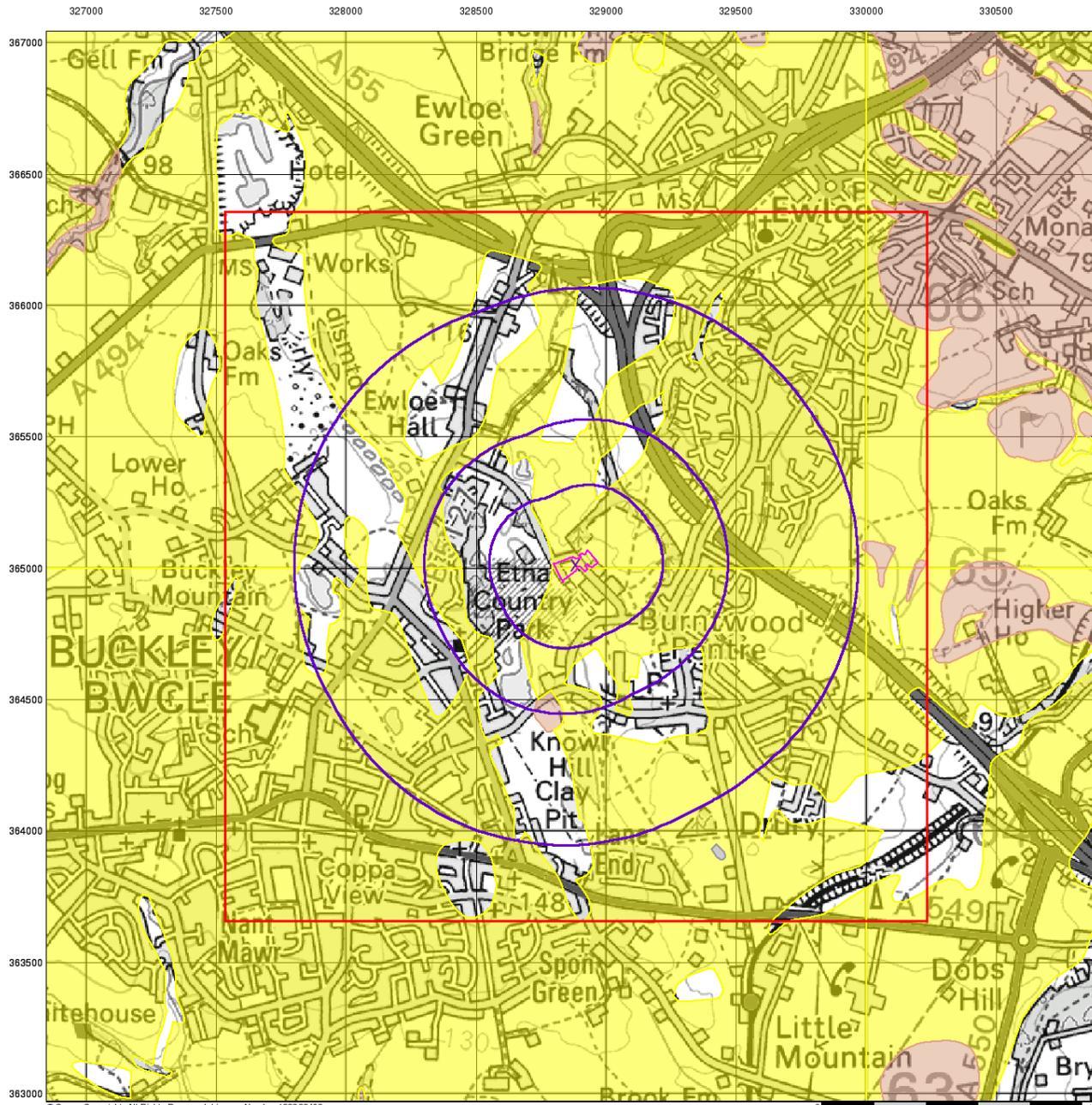


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



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Superficial Aquifer Designation

General

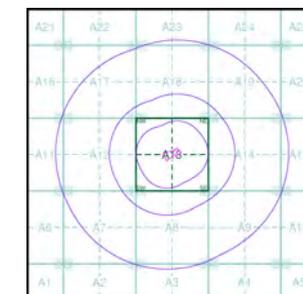
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

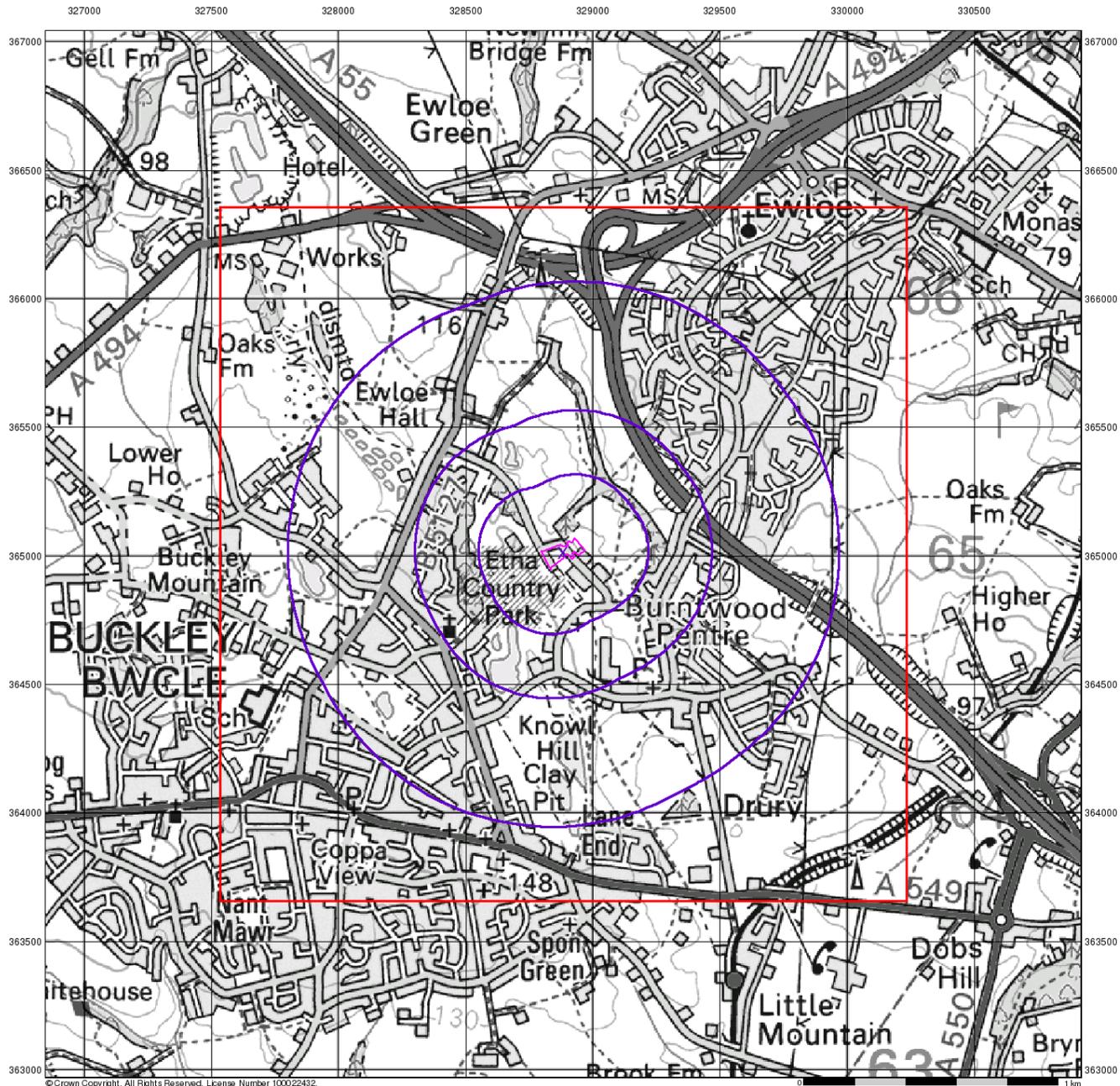
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



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Source Protection Zones

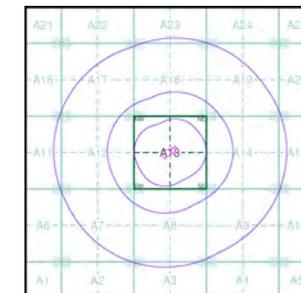
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

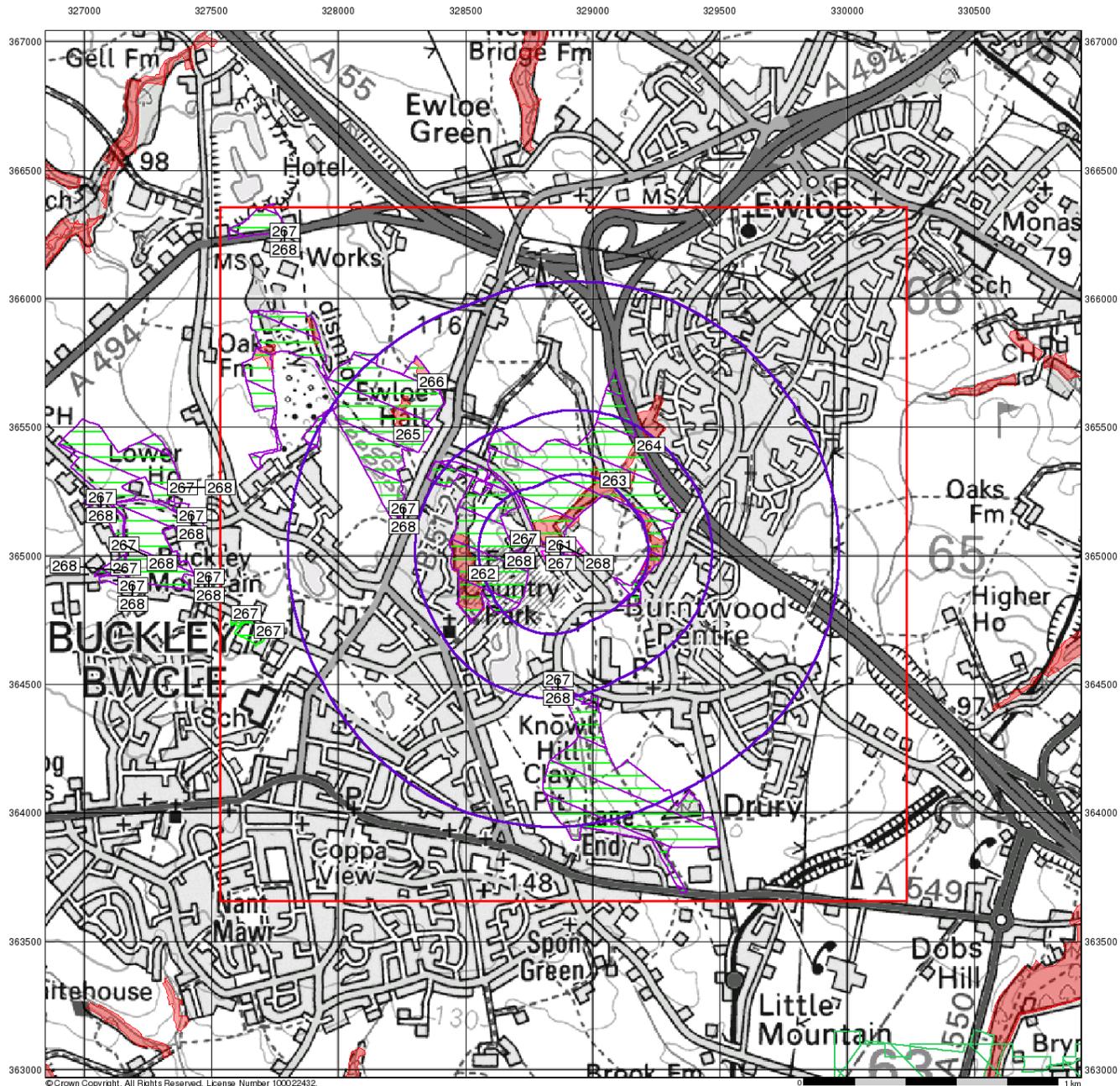
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
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Sensitive Land Uses

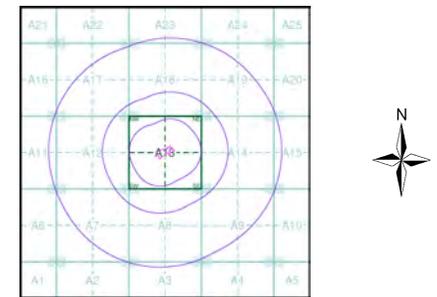
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A

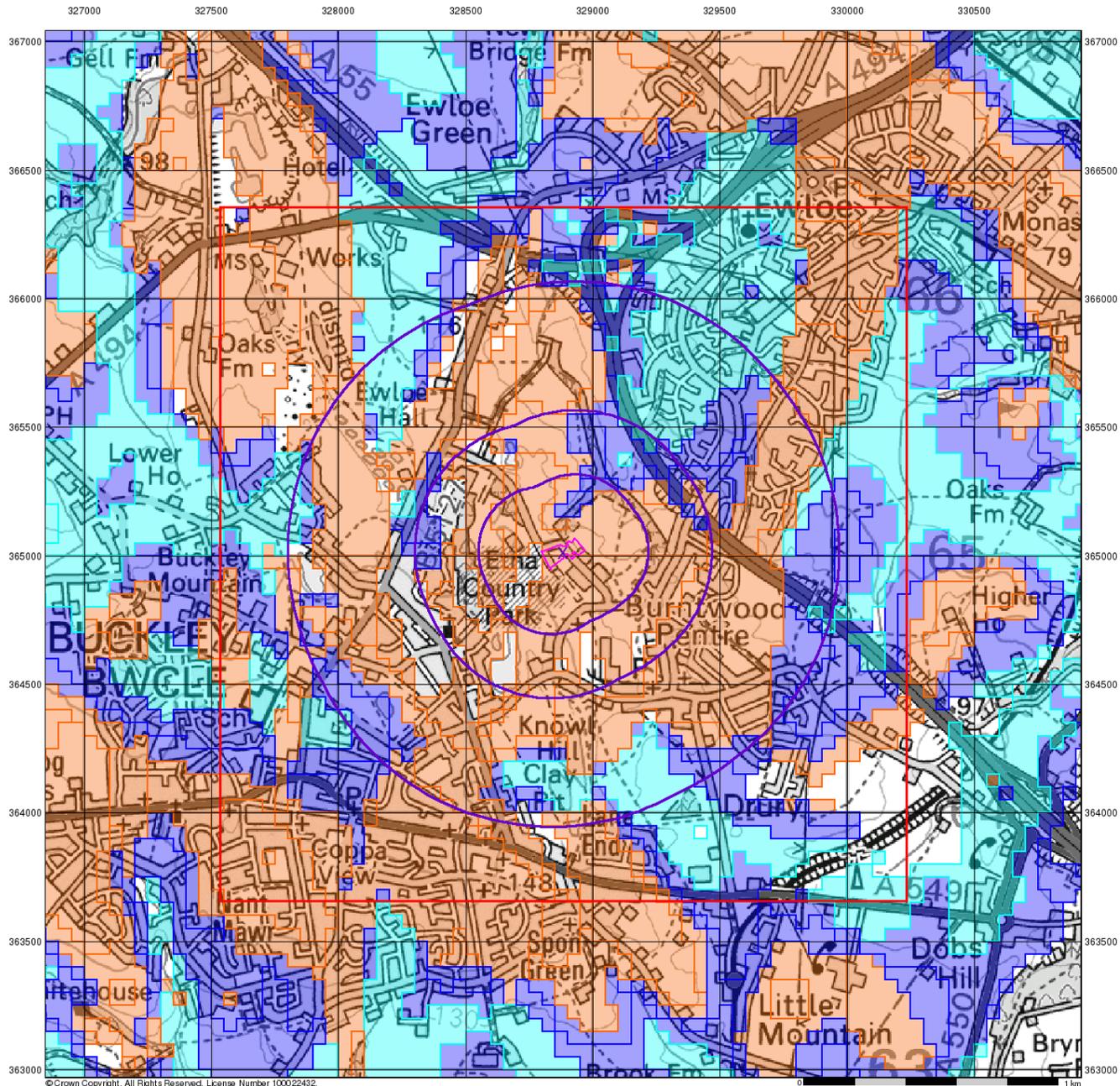


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

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BGS Flood GFS Data

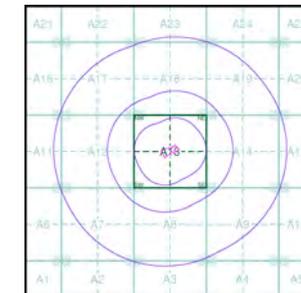
General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Slice

Agency and Hydrological (Flood)

-  Limited Potential for Groundwater Flooding to Occur
-  Potential for Groundwater Flooding of Property Situated Below Ground Level
-  Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

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Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

227445982_1_1

Customer Reference:

R2817

National Grid Reference:

328880, 365010

Slice:

A

Site Area (Ha):

0.83

Search Buffer (m):

1000

Site Details:

Spencer Industrial Estate

Liverpool Road

BUCKLEY

CH7 3LY

Client Details:

Mr D Wayland

Smith Grant Partnership

Station House

Station Road

Ruabon

Wrexham

LL14 6DL

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	33
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Industrial Land Use	45
Sensitive Land Use	59
Data Currency	60
Data Suppliers	64
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		2	2	8
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 6				6
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7		1		2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7		Yes		
Pollution Incidents to Controlled Waters	pg 8		3	2	6
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 9				2
Water Abstractions	pg 10				(*10)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 12	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 13		1	1	20

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 16	1	2	2	2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 17	1			1
Licensed Waste Management Facilities (Locations)	pg 17	4	5		2
Local Authority Landfill Coverage	pg 20	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 20			2	2
Potentially Infilled Land (Non-Water)	pg 21	1	5	13	21
Potentially Infilled Land (Water)	pg 23			2	23
Registered Landfill Sites	pg 26		4	2	3
Registered Waste Transfer Sites	pg 30		1	1	2
Registered Waste Treatment or Disposal Sites	pg 32		1		
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 33				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 34	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 34	Yes			Yes
BGS Recorded Mineral Sites	pg 34		1	6	39
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 42	Yes	n/a	n/a	n/a
Mining Instability	pg 42	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 42	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 42	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 42	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 43	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 44	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 44	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 44	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 45	1	19	7	46
Fuel Station Entries	pg 51				2
Points of Interest - Commercial Services	pg 51		9	6	18
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 54		4	5	18
Points of Interest - Public Infrastructure	pg 56	2	5		10
Points of Interest - Recreational and Environmental	pg 57			3	7
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 59		2	2	2
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 59		1		
Special Areas of Conservation	pg 59		1		
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	0	1	328881 365010
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	0	1	328881 365000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	44	1	328881 365100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	83	1	328881 365150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	100	1	328700 365010
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	102	1	328700 365000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	118	1	328700 364950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	136	1	328881 365200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	150	1	328650 365010
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	184	1	328950 365250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	196	1	329000 365250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	237	1	328650 364800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	250	1	329100 365250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	287	1	329150 365250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	295	1	329200 365200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	330	1	329100 365350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	350	1	328450 365010
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	350	1	328450 365000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	357	1	329200 365300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	379	1	329300 365200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	391	1	329250 364750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	394	1	328700 365400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	400	1	328400 365010
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	400	1	328400 365000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	401	1	328400 365050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	405	1	329350 365150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	410	1	328650 365400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	423	1	329350 365200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	429	1	329200 365400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	440	1	329400 365100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	449	1	328450 365300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	455	1	328750 364500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	462	1	328400 365250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	467	1	328700 364500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	475	1	328600 365450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	477	1	329200 364600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	483	1	329450 365010
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	483	1	328900 365550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	484	1	328881 365550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	488	1	329000 365550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Spencer Industrial N Wales Ltd Property Type: Not Supplied Location: Spencer Industrial North Wales Ltd, Spencer Industrial N Wales Ltd, Spencer Ind Est Liverpool Road, Buckley, Flintshire, Ch7 3et Authority: Natural Resources Wales Catchment Area: SANDYCROFT DRAIN Reference: Cg0392701 Permit Version: 1 Effective Date: 18th May 2001 Issued Date: 18th May 2001 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Wepre Brook Status: Effective Positional Accuracy: Located by supplier to within 10m</p>	A13SW (S)	38	2	328870 364930
2	<p>Discharge Consents</p> <p>Operator: Alyn & Deeside District Council Property Type: Undefined Or Other Location: The Spencers Ind Estate Buckley Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0160201 Permit Version: 1 Effective Date: 10th May 1988 Issued Date: 10th May 1988 Revocation Date: 11th December 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib Broughton Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	105	2	328880 365160
3	<p>Discharge Consents</p> <p>Operator: Alyn & Deeside District Council Property Type: Undefined Or Other Location: The Former Standard Clayhole Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0160202 Permit Version: 1 Effective Date: 10th May 1988 Issued Date: 10th May 1988 Revocation Date: 24th September 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib Of Broughton Bro Status: Consent expired Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	261	2	329080 365280
3	<p>Discharge Consents</p> <p>Operator: Spencer Industrial N Wales Ltd Property Type: Undefined Or Other Location: The Former Standard Clayhole Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0097801 Permit Version: 1 Effective Date: 25th July 1984 Issued Date: 25th July 1984 Revocation Date: 22nd December 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib. Of Broughton Br Status: Consent expired Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	261	2	329080 365280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>Operator: Alyn & Deeside District Council Property Type: Undefined Or Other Location: Vehicle Washing Machine Etna Tip B, Etna Tip Buckley Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0087701 Permit Version: 1 Effective Date: 6th February 1980 Issued Date: 6th February 1980 Revocation Date: 5th April 1995 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Culverted Trib. Of Wepre Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	527	2	328390 365350
5	<p>Discharge Consents</p> <p>Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Buckley Liverpool Road - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0195901 Permit Version: 4 Effective Date: 31st March 2007 Issued Date: 31st March 2007 Revocation Date: 5th August 2008 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib. Wepre Brook Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	532	2	328300 365200
5	<p>Discharge Consents</p> <p>Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Buckley Liverpool Road - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0195901 Permit Version: 3 Effective Date: 14th September 2006 Issued Date: 14th September 2006 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib. Wepre Brook Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	532	2	328300 365200
5	<p>Discharge Consents</p> <p>Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Buckley Liverpool Road - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0195901 Permit Version: 2 Effective Date: 31st March 2008 Issued Date: 8th March 2005 Revocation Date: 13th September 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib. Wepre Brook Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	532	2	328300 365200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Buckley Liverpool Road - Sso Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0195901 Permit Version: 1 Effective Date: 20th October 1989 Issued Date: 20th October 1989 Revocation Date: 30th March 2008 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib. Wepre Brook Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	532	2	328300 365200
6	<p>Discharge Consents</p> <p>Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Buckley Liverpool Road - Sso Authority: Natural Resources Wales Catchment Area: WEPRE BROOK Reference: Cm0195901 Permit Version: 5 Effective Date: 6th August 2008 Issued Date: 6th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib. Wepre Brook Status: Effective Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	589	2	328282 365300
6	<p>Discharge Consents</p> <p>Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Buckley Liverpool Road - Sso Authority: Natural Resources Wales Catchment Area: WEPRE BROOK Reference: Cm0195901 Permit Version: 5 Effective Date: 6th August 2008 Issued Date: 6th August 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib. Wepre Brook Status: Effective Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	589	2	328282 365300
7	<p>Discharge Consents</p> <p>Operator: Dwr Cymru Cyfyngedig Property Type: Undefined Or Other Location: Buckley Liverpool Rd. Storm Overflo, Liverpool Rd. Storm Overflow Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0009701 Permit Version: 1 Effective Date: 13th May 1960 Issued Date: 13th May 1960 Revocation Date: 22nd December 1992 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Un-Named Trib.Of Wepre Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m</p>	A12NE (W)	596	2	328250 365250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p>Integrated Pollution Prevention And Control</p> <p>Name: Ad Waste Ltd Location: Brookhill Landfill Site, Brook Hill Lfs, Pinfold Industrial Estate,Pinfold Lane,, BUCKLEY, Clwyd, CH7 3PL Authority: Natural Resources Wales Permit Reference: DP3633GF Original Permit Ref: Bv7273iq Effective Date: 10th June 2009 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A12NW (W)	962	2	327889 365329
8	<p>Integrated Pollution Prevention And Control</p> <p>Name: Ad Waste Ltd Location: Pinfold Lane Industrial Estate, BUCKLEY, Clwyd, CH7 3PL Authority: Natural Resources Wales Permit Reference: CP3534LE Original Permit Ref: Bv7273iq Effective Date: 12th February 2008 Status: Superseded By Variation Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Automatically positioned to the address Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A12NW (W)	962	2	327889 365329
8	<p>Integrated Pollution Prevention And Control</p> <p>Name: Flintshire County Council Location: Brookhill Landfill Site, Brook Hill Lfs, Pinfold Industrial Estate,Pinfold Lane,, BUCKLEY, Clwyd, CH7 3PL Authority: Natural Resources Wales Permit Reference: JP3036ZX Original Permit Ref: Ap3739ks Effective Date: 25th March 2013 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 5.4 A(1) a) (i) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Primary Activity: N</p>	A12NW (W)	968	2	327880 365320
8	<p>Integrated Pollution Prevention And Control</p> <p>Name: Flintshire County Council Location: Brookhill Landfill Site, Brook Hill Lfs, Pinfold Industrial Estate,Pinfold Lane,, BUCKLEY, Clwyd, CH7 3PL Authority: Natural Resources Wales Permit Reference: FP3832FN Original Permit Ref: Ap3739ks Effective Date: 22nd November 2011 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment Primary Activity: N</p>	A12NW (W)	968	2	327880 365320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p>Integrated Pollution Prevention And Control</p> <p>Name: Flintshire County Council Location: Brookhill Landfill Site, Brook Hill Lfs, Pinfold Industrial Estate, Pinfold Lane,, BUCKLEY, Clwyd, CH7 3PL Authority: Natural Resources Wales Permit Reference: KP3734TF Original Permit Ref: Ap3739ks Effective Date: 15th June 2010 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Located by supplier to within 100m Activity Code: 5.3 A(1) (C) (I) Activity Description: Other Waste Disposal; Non-Hazardous Waste >50T/D By Biological Treatment Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A12NW (W)	968	2	327880 365320
8	<p>Integrated Pollution Prevention And Control</p> <p>Name: Ad Waste Ltd Location: Brookhill Landfill Site Ea/Epr/Bv7273iq/V005, Brook Hill Lfs, Pinfold Industrial Estate, Pinfold Lane,, BUCKLEY, Clwyd, CH7 3PL Authority: Natural Resources Wales Permit Reference: Bv7273iq Original Permit Ref: Bv7273iq Effective Date: 17th August 2004 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y</p>	A12NW (W)	968	2	327880 365320
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Hirsts (Animal Feedstuffs) Limited Location: Unit 1B Standard Road, Spencers Industrial Estate, Drury, BUCKLEY, Clwyd, CH7 3LY Authority: Flintshire Council, Environmental Health Department Permit Reference: Not Given Dated: 5th August 1997 Process Type: Local Authority Air Pollution Control Description: PG6/24 Pet food manufacturing Status: Authorised Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	102	3	328952 364892
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Buckley Service Station Location: Liverpool Road, BUCKLEY, Flintshire, CH7 3LN Authority: Flintshire Council, Environmental Health Department Permit Reference: 5932 Dated: 4th September 2002 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A17SE (NW)	700	3	328441 365620
11	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Hanson Brick Ltd Location: Buckley, BUCKLEY, Flintshire, CH7 Authority: Flintshire Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/2 Manufacture of heavy clay goods and refractory goods Status: Authorised Positional Accuracy: Manually positioned within the geographical locality</p>	A3NW (S)	977	3	328725 363976
	<p>Nearest Surface Water Feature</p>	A13NW (N)	95	-	328875 365148

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Road (Lost Load) Location: Spencer Industrial Estate Authority: Environment Agency, Welsh Region Pollutant: Cement/Mortar Note: Accidental Spillage/Leakage Incident Date: 30th October 1995 Incident Reference: 26538 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A13SE (SE)	5	4	328910 364990
13	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Waste Handling Facilities Location: Clwyd Refractory, Fibres Spencer Authority: Environment Agency, Welsh Region Pollutant: Oils - Petrol Note: Deliberate Act Incident Date: 10th October 1994 Incident Reference: 21380 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A13SE (E)	39	4	329001 365001
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Warehouses Location: Standard Industrial Estate, BUCKLEY Authority: Environment Agency, Welsh Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Vandalism Incident Date: 23rd March 1992 Incident Reference: 3457 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	81	4	328721 365001
15	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Liverpool Road, BUCKLEY Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Not Supplied Incident Date: 25th August 1996 Incident Reference: 29932 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Unknown</p>	A18SW (NW)	394	4	328700 365400
16	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Dee, Auto, Service Spencer Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 13th August 1991 Incident Reference: 3112 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A18SW (NW)	431	4	328600 365400
17	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Church Road, At Crossroads Authority: Environment Agency, Welsh Region Pollutant: Sewage - Treated Effluent Note: Accident Incident Date: 6th March 1997 Incident Reference: 31418 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Burst Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	559	4	328500 364500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 27th June 1996 Incident Reference: 28899 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A14NW (E)	563	4	329500 365200
19	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Along B5127, Bedwell Road Authority: Environment Agency, Welsh Region Pollutant: Sewage Sludge Note: Neglect Incident Date: 21st November 1996 Incident Reference: 30788 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Direct Discharge Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A17SE (NW)	567	4	328500 365500
20	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Water Company Sewage: Sewerage Location: BUCKLEY Authority: Environment Agency, Welsh Region Pollutant: Filter Backwash Water Note: Weather Incident Date: 12th January 1992 Incident Reference: 2453 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	618	4	328260 365320
21	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Council Premises Location: Liverpool Road, Ewloe Behind Garage Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Inadequate Design/Capacity Incident Date: 3rd April 1991 Incident Reference: 44 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A17SE (NW)	722	4	328240 365475
22	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Highfield Farm, BUCKLEY Authority: Environment Agency, Welsh Region Pollutant: Algae Note: Not Supplied Incident Date: 19th April 1991 Incident Reference: 2620 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A18NW (N)	832	4	328620 365840
23	<p>Substantiated Pollution Incident Register</p> <p>Authority: Natural Resources Wales Incident Date: 16th January 2008 Incident Reference: 556611 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Storm Sewage</p>	A12NE (W)	563	2	328286 365250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 1st September 2003 Incident Reference: 186523 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A17SE (NW)	665	2	328277 365430
	Water Abstractions Operator: Newport Brothers Licence Number: 24/67/10/0020 Permit Version: 100 Location: Well A Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th October 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1723	4	330690 365051
	Water Abstractions Operator: Mr T E Taylor Licence Number: 24/67/10/0077 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Mining Operation Daily Rate (m3): 96 Yearly Rate (m3): 1136 Details: Mine Adit Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1769	4	330600 365700
	Water Abstractions Operator: Newport Brothers Licence Number: 24/67/10/0020 Permit Version: 100 Location: Well B Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Well A Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th October 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1798	4	330760 365155
	Water Abstractions Operator: Hawarden Golf Club Ltd Licence Number: 24/67/10/0065 Permit Version: 100 Location: Groomsdale Brook Authority: Environment Agency, Welsh Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Groomsdale Brook Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(E)	1938	4	330770 365730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Hawarden Golf Club Limited Licence Number: Wa/067/0010/014 Permit Version: 1 Location: Reservoir At Hawarden Golf Club Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(E)	1948	2	330850 365520
	<p>Water Abstractions</p> <p>Operator: Hawarden Golf Club Ltd Licence Number: 24/67/10/0162 Permit Version: 2 Location: Surface Water Reservoir At Hawarden Golf Club Authority: Natural Resources Wales Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Hawarden Golf Course Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 17th May 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(E)	1948	2	330850 365520
	<p>Water Abstractions</p> <p>Operator: Hawarden Golf Club Ltd Licence Number: 24/67/10/0162 Permit Version: 1 Location: Surface Water Reservoir At Hawarden Golf Club Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Hawarden Golf Course Authorised Start: 01 May Authorised End: 30 November Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(E)	1948	4	330850 365520
	<p>Water Abstractions</p> <p>Operator: Hawarden Golf Club Ltd Licence Number: 24/67/10/0065 Permit Version: 102 Location: Surface Water Reservoir At Hawarden Golf Club Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Hawarden Golf Course Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 19th October 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(E)	1948	4	330850 365520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Hawarden Golf Club Ltd Licence Number: 24/67/10/0065 Permit Version: 101 Location: Surface Water Reservoir At Hawarden Golf Club Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Hawarden Golf Course Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 28th May 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1948	4	330850 365520
	Water Abstractions Operator: Hawarden Golf Club Limited Licence Number: Wa/067/0010/014 Permit Version: Not Supplied Location: Spray Irrigation From Reservoir At Hawarden Golf Club Authority: Natural Resources Wales Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1948	2	330850 365520
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial: <90% Patchiness: Superficial 3-10m Thickness: Superficial Low Recharge:	A13SW (S)	0	2	328881 365000
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial: <90% Patchiness: Superficial <3m Thickness: Superficial No Data Recharge:	A13NW (W)	0	2	328881 365010
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (S)	0	2	328881 365000
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (W)	0	2	328881 365010
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (W)	0	2	328881 365010
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (S)	0	2	328881 365000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 820.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13NW (N)	95	5	328875 365148
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 636.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A13NW (NW)	264	5	328702 365264
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 577.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (NW)	527	5	328590 365502
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (W)	585	5	328255 365234
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (NW)	587	5	328278 365288
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (NW)	591	5	328281 365301
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (NW)	615	5	328277 365341

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17SE (NW)	631	5	328283 365381
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NE (N)	634	5	329074 365685
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 324.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17SE (NW)	647	5	328288 365414
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 152.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (E)	647	5	329611 364959
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 352.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NE (N)	676	5	329090 365724
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 322.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	704	5	329249 365695
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 826.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (E)	732	5	329699 365006
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NW (N)	786	5	328763 365835
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 266.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NW (N)	790	5	328764 365840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (E)	791	5	329739 364847
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17SE (NW)	855	5	328253 365677
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A14SE (E)	886	5	329821 364787
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 279.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17NW (NW)	941	5	328181 365727
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SW (SE)	967	5	329279 364087
46	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 29.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A9SW (SE)	998	5	329307 364067

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	<p>Historical Landfill Sites</p> <p>Licence Holder: Alyn and Deeside District Council Location: Mountpleasant Name: Standard Clay Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15125 First Input Date: 31st December 1989 Last Input Date: 31st December 1991 Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge Type: Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6835/0148 BGS Ref: Not Supplied Other Ref: 159/89, 173/93/m1</p>	A13NE (N)	0	2	328901 365059
48	<p>Historical Landfill Sites</p> <p>Licence Holder: Alyn and Deeside District Council Location: Off Etna Road, Buckley Name: Mrs Fennahs Clay Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15108 First Input Date: 31st December 1984 Last Input Date: 31st December 1987 Specified Waste: Deposited Waste included Inert, Commercial and Household Waste Type: Deposited Waste included Inert, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6835/0061 BGS Ref: Not Supplied Other Ref: 129/84</p>	A13SW (SW)	105	2	328743 364897
49	<p>Historical Landfill Sites</p> <p>Licence Holder: Nevor Hada Location: Buckley, Flintshire Name: Etna Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15099 First Input Date: 31st December 1978 Last Input Date: 31st December 1990 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste Type: Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6835/0034 BGS Ref: Not Supplied Other Ref: 103A/78</p>	A13SW (W)	111	2	328699 364970
50	<p>Historical Landfill Sites</p> <p>Licence Holder: Waste Disposal NW Limited Location: Drury Lane, Buckley, Flintshire Name: Disused Clayhole Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15131 First Input Date: 7th March 1980 Last Input Date: 5th February 1987 Specified Waste: Deposited Waste included Inert Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6835/0033 BGS Ref: Not Supplied Other Ref: 108/80, R7/2</p>	A13SE (S)	269	2	328956 364701
51	<p>Historical Landfill Sites</p> <p>Licence Holder: Shones Buckley Limited Location: Drury Lane, Buckley Name: Mount Pool Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15118 First Input Date: 31st December 1979 Last Input Date: 12th July 1990 Specified Waste: Deposited Waste included Inert Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6835/0095 BGS Ref: Not Supplied Other Ref: 106/79, 135/85</p>	A8NW (SW)	431	2	328582 364599

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	<p>Historical Landfill Sites</p> <p>Licence Holder: Alyn and Deeside District Council Location: Buckley, Flintshire Name: Former Catheralls Brickworks Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14714 First Input Date: 31st March 1988 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6835/0071 BGS Ref: Not Supplied Other Ref: 153/88</p>	A12NW (W)	818	2	327994 365161
53	<p>Historical Landfill Sites</p> <p>Licence Holder: Buckley Urban District Council Location: Alltami Road, Buckley, Flintshire Name: Belmont Yard Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14647 First Input Date: 31st December 1950 Last Input Date: 31st December 1965 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6835/0106 BGS Ref: Not Supplied Other Ref: Not Supplied</p>	A12SW (W)	869	2	327958 364803
54	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: Standard Landfill Site Licence Number: 37073 Location: Land / Premises At, Standard Road, Spencers Industrial Est, Buckley, Flintshire, CH7 3LY Licence Holder: Flintshire County Council Authority: Natural Resources Wales Site Category: Co-disposal Landfill Sites Max Input Rate: Not Supplied Licence Status: Modified Issued: 21st July 1993 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A13NE (NE)	0	2	328900 365025
55	<p>Licensed Waste Management Facilities (Landfill Boundaries)</p> <p>Name: Brookhill Landfill Site Licence Number: 37207 Location: Brookhill Landfill Site, Brookhill Way, Pinfold Industrial Estate, Buckley, Flintshire, CH7 3PL Licence Holder: Flintshire County Council Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied Licence Status: PPC Issued: 7th September 1999 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied</p>	A17SW (NW)	984	2	327992 365580
56	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: YP3894FR Location: Standard Road Transfer Station, Spencers Industrial Estate, Buckley, Flintshire, Flintshire, CH7 3LY Operator Name: Flintshire County Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 6th September 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	0	2	328893 365017

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 37271 Location: Standard Road Transfer Station, Spencers Industrial Estate, Buckley, CH7 3LY Operator Name: Flintshire County Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Transferred Issued: 17th October 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	0	2	328893 365017
56	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: JP3994FX Location: West Penine Recycling Transfer Station, Spencer Industrial Estate, Buckley, Flintshire, Flintshire, CH7 3LY Operator Name: W P R (U K) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Expired Issued: 29th July 2005 Last Modified: Not Supplied Expires: 9th October 2018 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13NE (E)	0	2	328918 365011
56	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 37281 Location: Standard Landfill Site, Standard Road, Spencer Industrial Estate, Buckley, CH7 3LY Operator Name: W P R (U K) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Transferred Issued: 29th July 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13NE (E)	0	2	328918 365011
57	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: BP3291EB Location: Globe Way Recycling Park, Globe Way Recycling Park, Spencer Industrial Estate, Buckley, Flintshire, Flintshire, CH7 3LY Operator Name: Flintshire County Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 17th March 1995 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	21	2	328819 364935

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 37126 Location: Globe Way Recycling Park, Globe Way, Spencer Industrial Estate, Buckley, CH7 3LY Operator Name: Flintshire County Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Household Waste Amenity Sites Licence Status: Modified Issued: 17th March 1995 Last Modified: 29th January 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	21	2	328819 364935
58	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: BP3390VA Location: Standard Landfill Site, Land / Premises At, Spencers Industrial Est, Buckley, Flintshire, Flintshire, CH7 3LY Operator Name: Flintshire County Council Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 30th July 2018 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	121	2	329064 365092
59	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: CP3494FZ Location: Spencer Ind Est Scrapyard, Liverpool Road, Buckley, Flintshire, Flintshire, CH7 3LY Operator Name: Spencer Industrial (North Wales) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 17th October 2018 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13SE (SE)	165	2	328966 364830
59	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 37127 Location: Spencer Ind Est, Liverpool Road, Buckley, CH7 3LY Operator Name: Spencer Industrial (North Wales) Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Modified Issued: 22nd March 1995 Last Modified: 23rd October 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A13SE (SE)	165	2	328966 364830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 37087 Location: Plot B, Pinfold Lane, Catheralls Ind Est, Buckley, CH7 3PS Operator Name: Personnel Hygiene Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Clinical Waste Transfer Stations Licence Status: Modified Issued: 13th December 1993 Last Modified: 20th February 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	954	2	327889 365303
60	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: KP3294FW Location: P H S North Wales, Catheralls Ind Est, Buckley, Flintshir, Flintshire, CH7 3PS Operator Name: Personnel Hygiene Services Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Not Supplied Licence Status: Effective Issued: 13th December 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	959	2	327892 365327
	<p>Local Authority Landfill Coverage</p> <p>Name: Flintshire Council - Has supplied landfill data</p>		0	3	328881 365010
61	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Drury Lane, Buckley Reference: Not Supplied Authority: Flintshire Council, Environmental Health Department Last Reported Status: Closed Types of Waste: Inert Date of Closure: Not Supplied Positional Accuracy: Manually positioned within the geographical locality Boundary Quality: Not Applicable</p>	A8NE (S)	305	3	328940 364660
62	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Buckley Reference: Not Supplied Authority: Flintshire Council, Environmental Health Department Last Reported Status: Closed Types of Waste: Inert Date of Closure: 31/12/1988 Positional Accuracy: Located by supplier to within 10m Boundary Quality: Not Applicable</p>	A8NE (SE)	487	3	329181 364577
63	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Part Of Catheralls Industrial Estate, Buckley Reference: Not Supplied Authority: Flintshire Council, Environmental Health Department Last Reported Status: Unknown Types of Waste: Demolition, Cement, Asbestos, Inert Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Applicable</p>	A12NW (W)	918	3	327900 365200
64	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Alltami Road, Buckley Reference: Not Supplied Authority: Flintshire Council, Environmental Health Department Last Reported Status: Unknown Types of Waste: Domestic Date of Closure: Not Supplied Positional Accuracy: Located by supplier to within 10m Boundary Quality: Not Applicable</p>	A12SW (W)	926	3	327920 364730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13NW (W)	0	-	328881 365010
66	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (SE)	37	-	328932 364952
67	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13NW (W)	55	-	328745 365007
68	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (E)	58	-	329015 364983
69	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (S)	203	-	328956 364783
70	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (SE)	216	-	328980 364781
71	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SW (SW)	251	-	328700 364736
72	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NW (NW)	263	-	328692 365259
73	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NW (NW)	264	-	328679 365254
74	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SE (S)	281	-	328969 364695
75	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	295	-	329255 365085
76	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	342	-	329304 365077
77	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18SE (NE)	371	-	329170 365350
78	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (NE)	393	-	329277 365262
79	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NE (S)	395	-	328963 364572
80	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	424	-	329371 365148

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18SE (NE)	454	-	329210 365424
82	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (NE)	460	-	329325 365309
83	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (S)	487	-	328829 364459
84	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (S)	522	-	328859 364425
85	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	528	-	329359 364666
86	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	595	-	329402 364614
87	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7NE (SW)	602	-	328451 364484
88	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	610	-	329263 364483
89	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SE (NW)	626	-	328267 365346
90	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8NW (S)	641	-	328610 364347
91	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A12SW (W)	655	-	328164 364860
92	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	689	-	329399 364484
93	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SE (NW)	692	-	328434 365607
94	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19NW (NE)	807	-	329373 365740
95	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NE (E)	813	-	329727 365308
96	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18NW (N)	818	-	328591 365812

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9SW (SE)	824	-	329408 364322
98	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SE (NE)	859	-	329687 365490
99	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SE (NE)	869	-	329747 365405
100	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8SE (S)	880	-	328976 364077
101	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12NW (W)	903	-	327902 365116
102	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A8SW (S)	908	-	328743 364043
103	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17SW (NW)	982	-	327996 365582
104	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A17NE (N)	986	-	328541 365974
105	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SW (E)	306	-	329238 364878
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A14SW (SE)	493	-	329401 364786
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8NE (S)	509	-	328983 364459
108	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A12NE (W)	528	-	328312 365220
109	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1881	A17SE (NW)	573	-	328394 365423
110	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18SE (N)	582	-	328904 365648
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A7NE (SW)	583	-	328335 364647
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	597	-	329369 365471
113	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A12SW (W)	617	-	328183 365005
114	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A12SW (W)	635	-	328200 364808
115	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A14NE (E)	659	-	329621 365094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	675	-	329465 365479
117	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A14NE (E)	685	-	329643 365131
118	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18NW (N)	687	-	328858 365751
119	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	705	-	329323 365652
120	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19SW (NE)	778	-	329423 365669
121	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18NE (N)	790	-	328908 365857
122	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12NW (W)	819	-	327982 365049
123	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	823	-	329748 364763
124	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7NE (SW)	842	-	328219 364374
125	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14SE (E)	856	-	329760 364697
126	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A17NE (NW)	857	-	328533 365833
127	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A19SE (NE)	893	-	329748 365454
128	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A9NE (SE)	968	-	329713 364404
129	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A7NW (SW)	970	-	328045 364385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	<p>Registered Landfill Sites</p> <p>Licence Holder: A.D. Waste Ltd Licence Reference: NOW-440-L (174/93) Site Location: Standard Landfill, Spencers Estate, Liverpool Road, Buckley, Flintshire Licence Easting: 329100 Licence Northing: 365000 Operator Location: 3 Hilliards Court, Chester Business Park, Wrexham Road, CHESTER, Cheshire, CH4 9QX</p> <p>Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 21st June 1993 Preceded By: 159/89 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste</p> <ul style="list-style-type: none"> Acid Anhydrides Aliphatic Acids Aliphatic Hydrocarbons Animal Processing Wastes Aromatic Acids Asbestos Barium Compounds (Water Soluble) Calcium Hydroxide Calcium Oxide Cellulose Wastes (Natural/Synth.) Chromium Compounds Clin. Grp A,D,E -Control.Waste Regs'92 Construction Ind. Wastes Contaminated Rubbish/Bags/Sacks Contaminated Soils Copper Compounds Difficult Wastes (As Listed) Dyestuffs Waste Empty Used Containers Epoxy Resins (Not Finished Prod'S) Fats, Waxes And Greases Ferrous Metal Scrap Food Processing Wastes/Starch Glue Wastes House, Com + Ind.Waste Industrial Effluent Treatment Sludge Interceptor Pit Wastes Ion-Exchange Resin Wastes Iron Compounds Latex, Latex/Rubber Sol'Ns/Susp'Ns Lead Compounds Manganese, Cobalt, Magnesium Cpds Mineral Processing Wastes Nickel Compounds Non-Ferrous Metal Scrap Non-Pumpable Sewage Treatment Sludge Other Industrial Wastes Other Non-Toxic Metal Compounds Other Resins And Polymeric Materials Paint Waste Paper Pulp Pharmaceutical/Cosmetic Products Phenol-Formaldehyde Resins (Not Prod) Phthalates Polyester Resins (Not Finished Prod'S) Polyurethane Printing Industry Wastes/Ink Road Sweepings & Gully Emptyings Scrap Rubber (Inc. Shredded Tyres) Septic Tank/Cess Pit Emptyings Silt And Dredgings Silver Compounds Slag, Boiler/Flue Cleanings Soaps & Detergents Sodium/Potassium Oxides/Hydroxides Sodium/Potassium Carbonates Synthetic Adhesive Wastes Tank Cleaning Sludge Tannery & Fellmongers Waste Tar, Pitch, Bitumen, Asphalts Thallium Compounds Titanium Compounds Used Filter Materials Vanadium Compounds 	A13SE (E)	134	4	329100 365000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Prohibited Waste Vegetable And Other Oils Waste Treated Timber Zinc Compounds Liquid Wastes Waste With Flash Pt < 30 C				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	<p>Registered Landfill Sites</p> <p>Licence Holder: Alyn & Deeside D.C. Licence Reference: 159/89 Site Location: Standard Landfill Facility, Mount Pleasant, Buckley, Flintshire Licence Easting: 329100 Licence Northing: 365000 Operator Location: Civic Centre, Connaught Quay, Clwyd Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st January 1992 Preceded By: 159/89 Licence: Superseded By: NOW-440-L (174/93) Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Aluminium (Excluding Powders) Animal Processing Wastes Asbestos - Bonded Forms Only Blood, Fat, Grease, Etc Calcium Hydroxide Carcasses And Flesh Cellulose Wastes (Natural/Synth.) Civic Amenity Waste Commercial Waste Construction And Demolition Wastes Contamin.Rubbish/Bags/Sacks - Non-Haz. Difficult Wastes As Below Empty Used Cont'Rs -Non-Haz. Epoxy Resins (Not Finished Prod'S)\$ Excrement Fats, Waxes And Greases Ferrous Metal Scrap Food Processing Wastes/Starch Glue Wastes - Not Solvent Based Household Waste Ind. Effluent Treatment - Solid Cake Ind. Non-Diff.Waste (Not Constr/Excav) Interceptor Pit Wastes Ion-Exchange Resin Wastes Iron Compounds Latex Rubber Max.Waste Permitted By Licence-Stated Mineral Processing Wastes Non-Ferrous Metal Scrap Oil/Sand Mixtures From Maritime Spills Other Industrial Wastes Other Non-Toxic Metal Compounds Paint Waste Paper Pulp Pharm'S/Cosmetics In Retail Cont'Rs Phenol-Formaldehyde Resins (Not Prod)\$ Polymeric Material, Products/Scrap Printing Industry Wastes Proprietary Alkaline Cleaners Scrap Rubber (Including Tyres) Silt And Dredgings Slag, Boiler/Flue Cleanings Sodium/Potassium Carbonates Synthetic Adhesive Wastes Tar, Pitch, Bitumen, Asphalts Tunnelling Or Other Excavation Waste Used Filter Materials - Non-Haz. Waste Treated Timber</p> <p>Prohibited Waste Aerosols Any Liquid Wastes Clinical Wastes Cyanides Halogenated Hydrocarbons Highly Reactive Wastes List I/li Substances In Eec Dir. 80/68 Persistent Organic Chemicals Phenols, Analogues/Derivatives Prescription Only Medicines Special Wastes Sulphides Waste N.O.S. Wastes With Flash Pt < 40 C</p>	A13SE (E)	134	4	329100 365000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	<p>Registered Landfill Sites</p> <p>Licence Holder: Alyn & Deeside D.C. Licence Reference: 159/89 Site Location: Former Standard Brickworks, Mount Pleasant, Buckley, Flintshire Licence Easting: 329100 Licence Northing: 365000 Operator Location: Civic Centre, Connahs Quay, Clwyd Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st September 1989 Preceded By: Not Given Licence: Superseded By: 159/89 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Bulky Household Collection Wastes Inert/Non-Tox Wastes Ex Constr'N Ind. Rock, Sand, Clay, Sub/Topsoil Similar Excavation Waste Street Sweepings/Litter Trade & Commercial Waste Prohibited Waste: Toxic Wastes Waste Forming Polluting Leachate</p>	A13SE (E)	134	4	329100 365000
131	<p>Registered Landfill Sites</p> <p>Licence Holder: Alyn & Deeside D.C. Licence Reference: 129/84 (103A/78) Site Location: Mrs Fennahs Clay Pit, Etna Road, Buckley, Flintshire Licence Easting: 328600 Licence Northing: 364900 Operator Location: Council Offices, Civic Centre, CONNAHS QUAY, Clwyd, CH5 4HB Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st January 1978 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Bulk Household Collections Domestic Waste Garden Wastes Inert/Non-Tox/Non-Leach.Prod.Constr'N Rock,Sand,Clay,Sub/Topsoil,Sim.Excav.W Sim.Non-Leach.Prod. Trade/Com. Waste Street Sweepings/Litter Collections</p>	A13SW (W)	230	4	328600 364900
132	<p>Registered Landfill Sites</p> <p>Licence Holder: Alyn & Deeside D.C. Licence Reference: 112/82 (110/81) Site Location: Drury Clayholes, Drury, Buckley, Flintshire Licence Easting: 328900 Licence Northing: 364600 Operator Location: Council Offices, Civic Centre, CONNAHS QUAY, Clwyd, CH5 4HB Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1981 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Inert Waste</p>	A8NE (S)	352	4	328900 364600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	<p>Registered Landfill Sites</p> <p>Licence Holder: Alyn & Deeside D.C. Licence Reference: 109/80 (108/80) Site Location: Brickworks Clayholes, Drury, Buckley, Flintshire Licence Easting: 329150 Licence Northing: 364600 Operator Location: Council Offices, Civic Centre, CONNAHS QUAY, Clwyd, CH5 4HB Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Selected Fill</p>	A8NE (SE)	452	4	329150 364600
134	<p>Registered Landfill Sites</p> <p>Licence Holder: Shones (Buckley) Ltd Licence Reference: 135/85 Site Location: The Mount Tip, Drury Lane, Buckley, Flintshire Licence Easting: 328650 Licence Northing: 364450 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1985 Preceded By: 106/79 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Inert/Non-Comb.Waste Building Mat'L Rock,Sand,Clay,Sim.Excav.Mat'L,Topsoil</p>	A8NW (S)	530	4	328650 364450
134	<p>Registered Landfill Sites</p> <p>Licence Holder: Shones (Buckley) Ltd Licence Reference: 106/79 Site Location: The Mount Tip, Drury Lane, Buckley, Flintshire Licence Easting: 328650 Licence Northing: 364450 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Record supersededSuperseded Dated: 1st December 1979 Preceded By: Not Given Licence: Superseded By: 135/85 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Constr'N/Demol. Inert/Non-Combustible Excavated Natural Materials \$ Environment Agency Waste N.O.S must give specific authorisation for this waste to be acceptedWaste requires prior approval</p>	A8NW (S)	530	4	328650 364450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	<p>Registered Landfill Sites</p> <p>Licence Holder: Alyn & Deeside D.C. Licence Reference: 153/88 Site Location: Catheralls Brickworks, Adj. Pinfold Industrial Estate, Buckley, Flintshire Licence Easting: 327900 Licence Northing: 365200 Operator Location: Council Offices, Civic Centre, CONNAHS QUAY, Clwyd, CH5 4HB Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 30th November 1988 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Bulky Household Collection Wastes Inert/Non-Tox Wastes Ex Constr'N Ind. Rock, Sand, Clay, Sub/Topsoil Similar Excavation Waste Street Sweepings/Litter Trade & Commercial Waste Prohibited Waste: Toxic Wastes Waste Forming Polluting Leachate</p>	A12NW (W)	918	4	327900 365200
136	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: A.D. Waste Ltd Licence Reference: NOW-443-L (197/95) Site Location: Globe Way C.A.Site, Buckley, Flintshire Operator Location: 3 Hilliards Court, Chester Business Park, Wrexham Road, CHESTER, Cheshire, CH4 9QX Authority: Environment Agency Wales, North Area Site Category: Civic Amenity Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 17th March 1995 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Cement Asbestos Sheets (Intact) Commercial Waste Household Waste Max.Waste Permitted By Licence Uncontam. Tunnelling/Excavation Waste Veh' Batts From H'Hold Premises M.Stor Waste Oil From Household Premises Prohibited Waste: Clinical Wastes Spec.Waste (Epa'90:S62/1996 Regs)</p>	A13SW (SW)	29	4	328800 364950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: A.D. Waste Ltd Licence Reference: 184/93 Site Location: Off Globe Way, Buckley, Flintshire Operator Location: 3 Hilliards Court, Chester Business Park, Wrexham Road, CHESTER, Cheshire, CH4 9QX Authority: Environment Agency Wales, North Area Site Category: Civic Amenity Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence has completion certificateSurrendered Dated: 1st June 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Car Batteries Cement Asbestos Commercial Waste Construction And Demolition Wastes Household Waste Max.Waste Permitted By Licence Waste Oil Prohibited Waste: Agricultural Wastes Any Clinical Wastes Contaminated Soils Food Or Foodstuffs Highly Putrescible Waste Industrial Wastes Liquid/Sludge Other Than Waste Oil Sewage/Sewage Sludge Special Wastes Waste N.O.S. (Pre-Packeged Or Not) Waste With Flash Pt. < 40 C</p>	A13NW (NW)	354	4	328550 365270
138	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Personnel Hygiene Services Ltd Licence Reference: NOW-435-L (172/92) Site Location: Plot B Catheralls Industrial Estate, Pinfold Lane, BUCKLEY, Flintshire, CH7 3PS Operator Location: PO Box 251, Longmore Street, LONDON, Greater London, SW1V 1JJ Authority: Environment Agency Wales, North Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 13th December 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Clinical Wastes - Hsc Groups A,B,C,D,E Prohibited Waste: Spec.Waste (Epa'90:S62/1996 Regs)N.O.S</p>	A12NW (W)	952	4	327900 365330
138	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Personnel Hygiene Services Ltd Licence Reference: 165 Site Location: Unit 3 Catheralls Industrial Estate, Pinfold Lane, Buckley, Flintshire Operator Location: PO Box 251, Longmore Street, LONDON, Greater London, SW1V 1JJ Authority: Environment Agency Wales, North Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st October 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Sharps In Sealed Cont'Rs Max.Stor Used Nappy/Incontinence Pads Max.Stor Used Sanitary Dressings Max.Stor Prohibited Waste: Any Special Wastes Any Waste Not Specified Above Any Waste With Plash Pt < 40 C</p>	A11NE (W)	981	4	327860 365300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: Spencer Industrial (North Wales) Ltd Licence Reference: NOW-428-L (198/95) Site Location: Spencer Industrial Estate, Liverpool Road, BUCKLEY, Flintshire, CH7 3EY Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is known Dated: 22nd March 1995 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Ferrous Metal Lead/Acid Batteries Max.Storage In Licence Max.Waste Permitted By Licence Non-Ferrous Metal Scrap Prohibited Waste: Drummed Waste Liquid Waste (Unless Integral To Scrap Spec.Waste (Epa'90:S62/1996 Regs)N.O.S Waste N.O.S. (Whether/Not Pre-Treated)</p>	A13SE (SE)	56	4	328960 364950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	<p>Control of Major Accident Hazards Sites (COMAH)</p> <p>Name: Butterley Building Materials Location: Knowle Lane, BUCKLEY, Clwyd, CH7 3JQ Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	861	6	328295 364277

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (W)	0	1	328881 365010
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	0	1	328881 365010
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18NW (N)	934	1	328881 366000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19NW (N)	991	1	329265 366000
141	BGS Recorded Mineral Sites Site Name: Mount Pleasant Occs Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 6481 Type: Opencast Status: Ceased Operator: R. & A. Young Mining Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 100m	A13NE (E)	155	1	329100 365100
142	BGS Recorded Mineral Sites Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136883 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (E)	288	1	329250 365075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Owlefs Hole Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136882 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A18SE (NE)	367	1	329166 365347
144	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136887 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	403	1	329291 365259
145	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136885 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (E)	436	1	329379 365161
146	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dinghouse Wood Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136886 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	475	1	329336 365319
147	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Colliery Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136869 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A8NE (SE)	482	1	329173 364579
148	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136872 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	526	1	329365 364676

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136870 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	593	1	329406 364621
150	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 4 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253100 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	596	1	329351 365488
151	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Smalley'S Colliery, Deep Engine Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136880 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	629	1	328266 365351
152	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Knowl Hill Location: Spon Green, Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 105085 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	636	1	328777 364313
153	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Catheralls Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 5851 Type: Opencast Status: Ceased Operator: Hanson Building Products Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 100m</p>	A12NW (NW)	662	1	328200 365300
154	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 3 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253099 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	680	1	329447 365508

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Ewloe Quarry Location: Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 15669 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	686	1	328270 365455
156	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Burntwood Pentre Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136871 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	690	1	329412 364493
157	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136890 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	733	1	329640 365309
157	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Water Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253101 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	757	1	329665 365314
158	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Catheralls li Occs Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 4787 Type: Opencast Status: Ceased Operator: Clay Colliery Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	737	1	328100 365250
159	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Ewloe Hall Location: Buckley, Mold, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136873 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	762	1	328374 365651

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lane End Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 1990 Type: Opencast Status: Ceased Operator: Hanson Building Products Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	798	1	328780 364150
161	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 2 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253096 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SW (NE)	800	1	329470 365656
161	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 1 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253095 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19NW (NE)	818	1	329454 365694
162	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Ewloe Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253098 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	805	1	329618 365493
163	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Flowery Field Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253104 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	812	1	329725 365310
163	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253103 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	836	1	329741 365337

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Engine Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253097 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	826	1	329641 365498
164	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Water Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136889 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	866	1	329688 365499
165	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Knowl Hill Location: Spon Green, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 105556 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A8SE (S)	838	1	329145 364167
166	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253102 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	854	1	329745 365371
166	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hollins Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136891 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	866	1	329741 365408
167	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Drury Location: Spon Green, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 105557 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	875	1	329395 364253

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Crossfield Colliery Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136853 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	878	1	328502 365845
169	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hope & Anchor Brickworks Location: Buckley Mountain, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 11442 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	902	1	327905 364905
170	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Crossfield Colliery Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253073 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	910	1	328439 365854
171	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253090 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	926	1	329662 365634
171	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Slant Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253092 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	934	1	329644 365668
171	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253091 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	942	1	329664 365657

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hope & Anchor Brickworks Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253042 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A11SE (W)	932	1	327869 364972
173	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253089 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	944	1	329707 365606
173	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Dick'S Pit Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136888 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19SE (NE)	956	1	329734 365590
174	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Trap Brickworks Location: Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253041 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	946	1	327887 365269
175	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Lane End Brick Works Location: Lane End, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 11441 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	947	1	328810 364000
176	<p>BGS Recorded Mineral Sites</p> <p>Site Name: No. 6 Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253094 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A19NE (NE)	950	1	329614 365725

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
176	BGS Recorded Mineral Sites Site Name: Level Row Pit Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253093 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	981	1	329653 365729
177	BGS Recorded Mineral Sites Site Name: Cross Farm Quarry Location: Ewloe, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 136850 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hollin Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NW (N)	998	1	328549 365990
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (W)	0	7	328881 365010
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (W)	0	-	328881 365010
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	114	1	328688 365037
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	119	1	328682 365000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	328818 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	328852 364973

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	39	1	328980 364966
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	40	1	329001 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	75	1	328728 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	103	1	328837 365138
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	105	1	328898 364862
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	152	1	328649 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	152	1	328672 364925
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	174	1	329139 365000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	196	1	328959 365261
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	221	1	328963 364764
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	241	1	328560 365000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	26	1	328779 365035
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	52	1	328767 364964
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	118	1	328818 365146
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	158	1	329109 365091
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	191	1	328996 365246
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	232	1	329183 364935

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	6	1	328794 365016
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	13	1	328793 365000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	75	1	328728 365000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	71	1	328731 365000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	71	1	328732 364997
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365001
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328875 365010
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	328875 365001
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	328881 365001
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328881 365010
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	0	1	328875 365010
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	328875 365001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	<p>Contemporary Trade Directory Entries</p> <p>Name: A D Waste Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, Clwyd, CH7 3LY Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	0	-	328912 365028
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Lester Roofing Supplies Location: Unit 17, Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	13	-	328955 364994
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Deeside Saw Co Ltd Location: Unit 17, Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Classification: Tool Sharpening, Repairing & Servicing Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	13	-	328955 364994
179	<p>Contemporary Trade Directory Entries</p> <p>Name: J D M Autobodies Location: Unit 17, Spencer Ind Est, Buckley, Clwyd, CH7 3LY Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (E)	13	-	328956 364995
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Kenzie Surfacing Location: Unit 16, Spencer Industrial Estate, Liverpool Road, Buckley, Clwyd, CH7 3LY Classification: Asphalt & Coated Macadam Laying Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	25	-	328964 364986
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Dee Auto Services Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	50	-	328977 364964
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Graham Eyton Body Repairs Location: Spencer Industrial Estate, Liverpool Road, Buckley, Clwyd, CH7 3LY Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	67	-	328991 364954
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Dee Line Location: Spencer Ind Est, Liverpool Rd, Buckley, Clwyd, CH7 3LY Classification: Kitchen Furniture Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	82	-	328992 364936
180	<p>Contemporary Trade Directory Entries</p> <p>Name: R B Service & Repair Ltd Location: Unit 18, Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Classification: Plant & Machinery Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	44	-	328907 364946
181	<p>Contemporary Trade Directory Entries</p> <p>Name: Agrihaul Engineering Ltd Location: Unit 1a, Spencer Industrial Estate, Liverpool Road, Buckley, Clwyd, CH7 3LY Classification: Engineering Services Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	96	-	328946 364896
181	<p>Contemporary Trade Directory Entries</p> <p>Name: Bromborough Plastics Ltd Location: Unit 1b, Spencer Industrial Estate, Liverpool Road, Buckley, Clwyd, CH7 3LY Classification: Recycling Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	102	-	328952 364892
181	<p>Contemporary Trade Directory Entries</p> <p>Name: A B C Powder Co Location: Spencer Indust Est, Liverpool Rd, Buckley, Clwyd, CH7 3LY Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	102	-	328952 364892

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	<p>Contemporary Trade Directory Entries</p> <p>Name: John Hirst (Animal Feedstuffs) Ltd Location: Spencer Indust Est,Liverpool Rd, Buckley, Clwyd, CH7 3LY Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	102	-	328952 364892
182	<p>Contemporary Trade Directory Entries</p> <p>Name: Spencer Industrial North Wales Ltd Location: Unit 5, Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	102	-	329016 364929
182	<p>Contemporary Trade Directory Entries</p> <p>Name: Clwyd Refractory Fibres Ltd Location: Unit 5, Spencer Industrial Estate, Liverpool Road, Buckley, Clwyd, CH7 3LY Classification: Ceramic Manufacturers, Supplies & Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	116	-	329028 364920
182	<p>Contemporary Trade Directory Entries</p> <p>Name: Clwyd Refactory Fibres Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, Clwyd, CH7 3LY Classification: Refractory Materials & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	116	-	329028 364920
182	<p>Contemporary Trade Directory Entries</p> <p>Name: Clarkes Paint & Panel Ltd Location: Spencer Ind Est,Liverpool Rd, Buckley, Clwyd, CH7 3LY Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	124	-	329045 364924
183	<p>Contemporary Trade Directory Entries</p> <p>Name: Spencer Industrial (Nw) Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	168	-	329061 364879
184	<p>Contemporary Trade Directory Entries</p> <p>Name: Clwyd Refactory Fibres Ltd Location: Unit 5,Mount Pleasant Rd, Buckley, Clwyd, CH7 3ET Classification: Ceramic Manufacturers, Supplies & Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SE (S)	207	-	328912 364754
185	<p>Contemporary Trade Directory Entries</p> <p>Name: Lester Fabrications & Cladding Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Classification: Cladding Suppliers & Installers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	219	-	329049 364811
186	<p>Contemporary Trade Directory Entries</p> <p>Name: The Iron Maiden Location: 40, Burntwood Road, Buckley, Clwyd, CH7 3EN Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	391	-	329357 364991
187	<p>Contemporary Trade Directory Entries</p> <p>Name: Flintshire Haulage Location: The Mount, Drury Lane, Buckley, Clwyd, CH7 3DR Classification: Quarries Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	432	-	328769 364520
188	<p>Contemporary Trade Directory Entries</p> <p>Name: Flintshire Truck & Bus Location: Drury Industrial Estate, Drury Lane, Buckley, CH7 3DZ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	451	-	329059 364555
188	<p>Contemporary Trade Directory Entries</p> <p>Name: Flintshire Commercials Location: Drury Industrial Estate, Drury Lane, Buckley, Clwyd, CH7 3DZ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	452	-	329063 364555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	<p>Contemporary Trade Directory Entries</p> <p>Name: Autopro Location: Unit 4-5, Drury Industrial Estate, Drury Lane, Buckley, Clwyd, CH7 3DZ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	467	-	329061 364537
188	<p>Contemporary Trade Directory Entries</p> <p>Name: Cg Motors Location: Unit 4-5, Drury Industrial Estate, Drury Lane, Buckley, Clwyd, CH7 3DZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	467	-	329061 364537
188	<p>Contemporary Trade Directory Entries</p> <p>Name: Drury Car & Commercial Location: Unit 6-7, Drury Industrial Estate, Drury Lane, Buckley, CH7 3DZ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	487	-	329059 364514
189	<p>Contemporary Trade Directory Entries</p> <p>Name: P V C Joinery Location: 130, Church Road, Buckley, Clwyd, CH7 3JN Classification: Cladding Suppliers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	586	-	328252 364812
189	<p>Contemporary Trade Directory Entries</p> <p>Name: J & M Quality Cars Location: 129, Church Road, Buckley, Clwyd, CH7 3JN Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	632	-	328210 364791
189	<p>Contemporary Trade Directory Entries</p> <p>Name: Williams Quality Cars Location: 129, Church Road, Buckley, Clwyd, CH7 3JN Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	632	-	328210 364791
189	<p>Contemporary Trade Directory Entries</p> <p>Name: Williams Location: 129, Church Road, Buckley, Clwyd, CH7 3JN Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	632	-	328210 364791
190	<p>Contemporary Trade Directory Entries</p> <p>Name: The Thesis Man Location: Tregaron, Liverpool Road, Buckley, Clwyd, CH7 3LN Classification: Bookbinding & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	592	-	328391 365447
190	<p>Contemporary Trade Directory Entries</p> <p>Name: Chester Book Binders Location: Tregaron, Liverpool Road, Buckley, CH7 3LN Classification: Bookbinding & Equipment Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	594	-	328389 365447
191	<p>Contemporary Trade Directory Entries</p> <p>Name: Akw Medi-Care Ltd Location: 2, Coniston Drive, Buckley, Clwyd, CH7 3LA Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	594	-	328496 364459
192	<p>Contemporary Trade Directory Entries</p> <p>Name: West House Rope Ltd Location: 7, Dylan Close, Ewloe, Deeside, Clwyd, CH5 3TT Classification: Ropes & Hawsers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	597	-	329408 365425
193	<p>Contemporary Trade Directory Entries</p> <p>Name: T F S Country Stores Location: Liverpool Road, Buckley, Clwyd, CH7 3LJ Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	605	-	328214 364869

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	<p>Contemporary Trade Directory Entries</p> <p>Name: Buckley Coatings Location: Old Smithy Garage, Liverpool Road, Buckley, CH7 3LH Classification: Car Paint & Lacquer Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	616	-	328185 364978
195	<p>Contemporary Trade Directory Entries</p> <p>Name: Norman Catherall M O T Centre Location: Bank Lane Yard, Drury, Buckley, Clwyd, CH7 3EQ Classification: Mot Testing Centres Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	621	-	329509 364716
196	<p>Contemporary Trade Directory Entries</p> <p>Name: Saxon Performance Location: 5, New Mount, Buckley, CH7 3GQ Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	643	-	328842 364304
197	<p>Contemporary Trade Directory Entries</p> <p>Name: Ovensclean Location: Shalamar, Liverpool Road, Buckley, Clwyd, CH7 3LN Classification: Oven Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	665	-	328447 365582
197	<p>Contemporary Trade Directory Entries</p> <p>Name: Ewloe Hall Motors Location: Liverpool Road, Buckley, Clwyd, CH7 3LN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	699	-	328440 365618
197	<p>Contemporary Trade Directory Entries</p> <p>Name: Buckley Trade Centre Location: Ewloe Hall Motors, Liverpool Road, Buckley, CH7 3LN Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	701	-	328437 365619
197	<p>Contemporary Trade Directory Entries</p> <p>Name: Texaco Location: Liverpool Road, Buckley, CH7 3LN Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	706	-	328454 365634
197	<p>Contemporary Trade Directory Entries</p> <p>Name: Texaco Location: Liverpool Road, Buckley, Clwyd, CH7 3LN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	707	-	328447 365631
197	<p>Contemporary Trade Directory Entries</p> <p>Name: Texaco Location: Liverpool Road, BUCKLEY, Clwyd, CH7 3LN Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	707	-	328447 365631
198	<p>Contemporary Trade Directory Entries</p> <p>Name: P R G Automotive Location: Higher Common Rd, Buckley, Clwyd, CH7 3NG Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A7NE (SW)	697	-	328239 364587
199	<p>Contemporary Trade Directory Entries</p> <p>Name: Warrington Road Filling Station Ltd Location: Shell Buckley Liverpool Road, Buckley, Clwyd, CH7 3LN Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A17SE (NW)	738	-	328459 365673
200	<p>Contemporary Trade Directory Entries</p> <p>Name: Avatill Location: 4, Alderberry Road, Hawarden, Deeside, Clwyd, CH5 3JS Classification: Cash Registers & Check-Out Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	783	-	329720 365233

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
201	<p>Contemporary Trade Directory Entries</p> <p>Name: Enviroclear Site Services Location: 49, Maxwell Close, Buckley, Clwyd, CH7 3JF Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	798	-	328528 364211
201	<p>Contemporary Trade Directory Entries</p> <p>Name: Enviroclear Site Services Location: 49, Maxwell Close, Buckley, Clwyd, CH7 3JF Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	798	-	328528 364211
202	<p>Contemporary Trade Directory Entries</p> <p>Name: Brushed Away Location: 5, Higher Common Road, Buckley, Clwyd, CH7 3NG Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	803	-	328106 364606
202	<p>Contemporary Trade Directory Entries</p> <p>Name: F Reynolds & Son Location: 5, Higher Common Road, Buckley, Clwyd, CH7 3NG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	803	-	328106 364606
202	<p>Contemporary Trade Directory Entries</p> <p>Name: Auto Safety Centre Rose Garage Location: 3, Higher Common Road, Buckley, CH7 3NG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	826	-	328082 364602
203	<p>Contemporary Trade Directory Entries</p> <p>Name: Excalibur Windows Location: Belmont Ho, Liverpool Rd, Buckley, Clwyd, CH7 3NF Classification: Cladding Suppliers & Installers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	814	-	328027 364764
204	<p>Contemporary Trade Directory Entries</p> <p>Name: Morris Cabin Suppliers Uk Ltd Location: 46, Ewloe Heath, Buckley, Clwyd, CH7 3PU Classification: Container Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	826	-	327985 365153
205	<p>Contemporary Trade Directory Entries</p> <p>Name: C & C Packaging Ltd Location: 6, Sheridan Avenue, Ewloe, Deeside, Clwyd, CH5 3UN Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19NW (NE)	827	-	329242 365833
206	<p>Contemporary Trade Directory Entries</p> <p>Name: Alexander Glass Design Location: Knowle La, Buckley, Clwyd, CH7 3JA Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	828	-	328358 364271
207	<p>Contemporary Trade Directory Entries</p> <p>Name: A C Workshop Location: 6, Keats Close, Hawarden, Deeside, Clwyd, CH5 3TG Classification: Garage Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19NW (NE)	867	-	329511 365710
208	<p>Contemporary Trade Directory Entries</p> <p>Name: Helping Hands Cleaning Services Location: 8, Ewloe Heath, Buckley, CH7 3PU Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	884	-	327922 365121
209	<p>Contemporary Trade Directory Entries</p> <p>Name: Lester Fabrications & Cladding Co Ltd Location: 18, Belmont Crescent, Buckley, Clwyd, CH7 3NE Classification: Cladding Suppliers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	900	-	327958 364698

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
210	<p>Contemporary Trade Directory Entries</p> <p>Name: Woodlane Service Station Ltd Location: 136, Wood Lane, Hawarden, Deeside, Clwyd, CH5 3JG Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19NE (NE)	908	-	329574 365706
211	<p>Contemporary Trade Directory Entries</p> <p>Name: Saygrove Systems Ltd Location: Unit 9, Catheralls Industrial Estate, Brookhill Way, Buckley, Clwyd, CH7 3PS Classification: Scientific Apparatus & Instruments - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	944	-	327889 365267
211	<p>Contemporary Trade Directory Entries</p> <p>Name: Proactive Pest Solutions Ltd Location: Unit 9-10, Catheralls Industrial Estate, Brookhill Way, Buckley, CH7 3PS Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	945	-	327889 365268
212	<p>Contemporary Trade Directory Entries</p> <p>Name: Beck Carpet Cleaning Location: 1, Greenvale Park, Hawarden, Deeside, CH5 3DP Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	961	-	329720 365618
213	<p>Contemporary Trade Directory Entries</p> <p>Name: Acceleration Collection & Delivery Location: Trieste, Paradise Lane, Hawarden, Deeside, Clwyd, CH5 3LD Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19NE (NE)	962	-	329579 365776
214	<p>Contemporary Trade Directory Entries</p> <p>Name: A S I Engineering Location: 27, Sheridan Avenue, Ewloe, Deeside, Clwyd, CH5 3UN Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	967	-	329205 365994
215	<p>Contemporary Trade Directory Entries</p> <p>Name: Auto Crash Repair Centre Location: 5, Hawkesbury Road, Buckley, Clwyd, CH7 3HR Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	974	-	328139 364267
216	<p>Contemporary Trade Directory Entries</p> <p>Name: North West Enamellers Location: Catheralls Industrial Estate, Brookhill Way, BUCKLEY, Clwyd, CH7 3PS Classification: Blast Cleaning Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SW (W)	974	-	327887 365358
216	<p>Contemporary Trade Directory Entries</p> <p>Name: Protech Supplies Ltd Location: Unit 5, Catheralls Industrial Estate, Brookhill Way, Buckley, CH7 3PS Classification: Industrial Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SW (W)	975	-	327886 365359
217	<p>Contemporary Trade Directory Entries</p> <p>Name: M E P Automotive Location: Unit 14, Catheralls Industrial Estate, Brookhill Way, Buckley, CH7 3PS Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A11NE (W)	975	-	327845 365220
217	<p>Contemporary Trade Directory Entries</p> <p>Name: Buckley Car Services Location: Unit 14, Catheralls Industrial Estate, Brookhill Way, Buckley, Clwyd, CH7 3PS Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A11NE (W)	979	-	327842 365219
218	<p>Contemporary Trade Directory Entries</p> <p>Name: Mil-Tek Uk Location: Catheralls Industrial Estate, Brookhill Way, Buckley, Clwyd, CH7 3PS Classification: Waste Processing Machinery Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A11NE (W)	991	-	327851 365304

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	Contemporary Trade Directory Entries Name: Rooms & Views Location: Unit 2, Catheralls Industrial Estate, Brookhill Way, Buckley, CH7 3PS Classification: Window Frame Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	997	-	327845 365308
219	Fuel Station Entries Name: Buckley Service Station Location: Liverpool Road , , Buckley, Flintshire, CH7 3LN Brand: Texaco Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	709	-	328445 365632
220	Fuel Station Entries Name: Wood Lane Service Station Location: 136, Wood Lane , Hawarden , Deeside, Flintshire, CH5 3JG Brand: Carlton Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A19NE (NE)	908	-	329579 365701
221	Points of Interest - Commercial Services Name: Lester Roofing Supplies Location: Unit 17 Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (E)	12	8	328954 364994
221	Points of Interest - Commercial Services Name: J D M Autobodies Location: Unit 17, Spencer Ind Est, Buckley, Clwyd, CH7 3LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	13	8	328956 364995
221	Points of Interest - Commercial Services Name: Spencer Industrial Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A13SE (SE)	41	8	328909 364948
221	Points of Interest - Commercial Services Name: Dee Auto Services Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	49	8	328978 364966
221	Points of Interest - Commercial Services Name: Dee Auto Services Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	49	8	328978 364966
221	Points of Interest - Commercial Services Name: Graham Eyton Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	67	8	328991 364954
221	Points of Interest - Commercial Services Name: Graham Eyton Body Repairs Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	68	8	328991 364953
221	Points of Interest - Commercial Services Name: Spencer Industrial North Wales Ltd Location: Unit 5 Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A13SE (SE)	102	8	329015 364928

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
221	<p>Points of Interest - Commercial Services</p> <p>Name: Bromborough Plastics Ltd Location: Unit 1b Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location</p>	A13SE (SE)	102	8	328952 364892
222	<p>Points of Interest - Commercial Services</p> <p>Name: Motor Accident Repairs Location: Moel Hyfryd, Mount Pleasant Road, Buckley, CH7 3ET Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A8NW (S)	402	8	328813 364545
223	<p>Points of Interest - Commercial Services</p> <p>Name: Flintshire Truck & Bus Location: Unit 2 Drury Industrial Estate, Drury Lane, Buckley, CH7 3DZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A8NE (S)	453	8	329063 364555
223	<p>Points of Interest - Commercial Services</p> <p>Name: Autopro Location: Unit 4-5 Drury Industrial Estate, Drury Lane, Buckley, CH7 3DZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A8NE (S)	467	8	329061 364537
223	<p>Points of Interest - Commercial Services</p> <p>Name: Dm Garage Services Location: Unit 4, Drury Ind Est, Drury La, Buckley, Clwyd, CH7 3DZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A8NE (S)	468	8	329061 364536
223	<p>Points of Interest - Commercial Services</p> <p>Name: Drury Car & Commercial Location: Unit 6-7 Drury Industrial Estate, Drury Lane, Buckley, CH7 3DZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A8NE (S)	488	8	329061 364513
223	<p>Points of Interest - Commercial Services</p> <p>Name: Drury Car & Commercial Location: Unit 6-7 Drury Industrial Estate, Drury Lane, Buckley, CH7 3DZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A8NE (S)	488	8	329061 364514
224	<p>Points of Interest - Commercial Services</p> <p>Name: Shones Location: Clevedale, Liverpool Road, Buckley, CH7 3LJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location</p>	A12NE (W)	529	8	328277 365102
225	<p>Points of Interest - Commercial Services</p> <p>Name: Ewloe Hall Motors Location: Liverpool Road, Buckley, CH7 3LN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A17SE (NW)	591	8	328441 365489
226	<p>Points of Interest - Commercial Services</p> <p>Name: A K Garage Location: 129 Church Road, Buckley, CH7 3JN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A12SE (W)	632	8	328210 364791
226	<p>Points of Interest - Commercial Services</p> <p>Name: P R G Automotive Location: Unit 2 Williams Quality Cars 129, Church Road, Buckley, CH7 3JN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A12SW (W)	636	8	328198 364812
227	<p>Points of Interest - Commercial Services</p> <p>Name: Ben Coppock Location: Ewloe Hall Motors Liverpool Road, Buckley, Clwyd, CH7 3LP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A17SE (NW)	698	8	328440 365617

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
227	Points of Interest - Commercial Services Name: Ewloe Hall Motors Location: Liverpool Road, Buckley, CH7 3LN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	699	8	328440 365618
227	Points of Interest - Commercial Services Name: Ewloe Hall Motors Location: Ewloe Hall, Liverpool Road, Buckley, CH7 3LN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	701	8	328437 365619
227	Points of Interest - Commercial Services Name: Buckley Service Station Location: Liverpool Road, Buckley, CH7 3LN Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SE (NW)	709	8	328445 365632
227	Points of Interest - Commercial Services Name: Car Wash Location: Liverpool Road, Buckley, CH7 3LN Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SE (NW)	709	8	328445 365632
228	Points of Interest - Commercial Services Name: F Reynolds & Son Location: 5 Higher Common Road, Buckley, CH7 3NG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	803	8	328106 364606
228	Points of Interest - Commercial Services Name: Auto Safety Centre Rose Garage Location: 3 Higher Common Road, Buckley, CH7 3NG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	827	8	328081 364601
229	Points of Interest - Commercial Services Name: Wood Lane Service Station Ltd Location: 136 Wood Lane, Hawarden, Deeside, CH5 3JG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NE (NE)	908	8	329574 365706
229	Points of Interest - Commercial Services Name: Wood Lane Service Station Ltd Location: 136 Wood Lane, Hawarden, Deeside, CH5 3JG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NE (NE)	908	8	329574 365706
229	Points of Interest - Commercial Services Name: Acceleration Collection & Delivery Location: Trieste, Paradise Lane, Hawarden, Deeside, CH5 3LD Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A19NE (NE)	961	8	329579 365775
230	Points of Interest - Commercial Services Name: N W T Horseshoes Location: Unit 11-12 Catheralls Industrial Estate, Brookhill Way, Buckley, CH7 3PS Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A12NW (W)	923	8	327904 365240
230	Points of Interest - Commercial Services Name: Proactive Pest Solutions Ltd Location: Unit 9-10 Catheralls Industrial Estate, Brookhill Way, Buckley, CH7 3PS Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A12NW (W)	945	8	327888 365268
230	Points of Interest - Commercial Services Name: Buckley Car Services Location: Unit 14 Catheralls Industrial Estate, Brookhill Way, Buckley, CH7 3PS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A11NE (W)	979	8	327841 365218

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
231	Points of Interest - Commercial Services Name: John Shone Haulage Location: 19 Church Road, Buckley, CH7 3JG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SW (S)	950	8	328576 364032
232	Points of Interest - Manufacturing and Production Name: Spencer Industrial Estate Location: CH7 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	44	8	328877 364928
233	Points of Interest - Manufacturing and Production Name: Ocean Granite Liverpool Stone Location: Globe Business Park, Liverpool Road, Buckley, CH7 3LY Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13SW (S)	133	8	328883 364822
234	Points of Interest - Manufacturing and Production Name: Grantech Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13SE (SE)	215	8	329095 364848
234	Points of Interest - Manufacturing and Production Name: Grantech Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A13SE (SE)	215	8	329095 364847
235	Points of Interest - Manufacturing and Production Name: Flintshire Haulage Location: The Mount, Drury Lane, Buckley, CH7 3DR Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A8NW (S)	432	8	328769 364520
235	Points of Interest - Manufacturing and Production Name: Flintshire Haulage Location: The Mount, Drury Lane, Buckley, CH7 3DR Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A8NW (S)	432	8	328769 364520
236	Points of Interest - Manufacturing and Production Name: Drury Lane Industrial Estate Location: CH7 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	439	8	329035 364555
237	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH7 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12NE (NW)	449	8	328455 365307
237	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH7 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17SE (NW)	477	8	328460 365354
238	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH7 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17SE (NW)	628	8	328266 365350
239	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH5 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A14NE (E)	734	8	329643 365306

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
240	Points of Interest - Manufacturing and Production Name: Clay Pit Location: CH7 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	788	8	328739 364164
241	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	826	8	327979 364928
242	Points of Interest - Manufacturing and Production Name: Works Location: CH7 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	834	8	328300 364307
242	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	835	8	328301 364306
242	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	898	8	328257 364260
243	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH7 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A18NW (N)	855	8	328572 365844
243	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH7 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A18NW (N)	879	8	328617 365889
244	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH7 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17NE (NW)	879	8	328505 365847
244	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CH7 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17NE (NW)	905	8	328444 365851
245	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	943	8	328760 364006
245	Points of Interest - Manufacturing and Production Name: Clay Pit Location: CH7 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	965	8	328687 363993
246	Points of Interest - Manufacturing and Production Name: Shaft Location: CH5 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A19SE (NE)	957	8	329736 365589

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
247	Points of Interest - Manufacturing and Production Name: Catheralls Industrial Estate Location: CH7 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	972	8	327856 365252
248	Points of Interest - Manufacturing and Production Name: Clay Pit Location: CH7 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A3NE (S)	975	8	328884 363973
249	Points of Interest - Manufacturing and Production Name: Bellis Bros Location: Drury Lane, Buckley, CH7 3DY Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NE (SE)	1000	8	329835 364524
249	Points of Interest - Manufacturing and Production Name: Bellis Bros Location: Drury Lane, Buckley, CH7 3DY Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NE (SE)	1000	8	329835 364524
250	Points of Interest - Public Infrastructure Name: A D Waste Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13NE (NE)	0	8	328912 365028
250	Points of Interest - Public Infrastructure Name: A D Waste Ltd Location: Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A13NE (NE)	0	8	328912 365028
250	Points of Interest - Public Infrastructure Name: Landfill Site Location: CH7 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	50	8	328944 365115
251	Points of Interest - Public Infrastructure Name: Household Waste and Recycling Centre Location: Standard Road, CH7 Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A13SW (SW)	45	8	328783 364947
251	Points of Interest - Public Infrastructure Name: Household Waste and Recycling Centre Location: Not Supplied Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	68	8	328781 364907
252	Points of Interest - Public Infrastructure Name: Bromborough Plastics Ltd Location: Unit 1b Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A13SE (SE)	102	8	328952 364892
252	Points of Interest - Public Infrastructure Name: Bromborough Plastics Ltd Location: Unit 1b Spencer Industrial Estate, Liverpool Road, Buckley, CH7 3LY Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A13SE (SE)	102	8	328952 364892
253	Points of Interest - Public Infrastructure Name: Buckley Service Station Location: Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	703	8	328453 365630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
253	Points of Interest - Public Infrastructure Name: Texaco Location: Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	705	8	328453 365633
253	Points of Interest - Public Infrastructure Name: Texaco Location: Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	708	8	328445 365631
253	Points of Interest - Public Infrastructure Name: Texaco Location: Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	709	8	328445 365632
253	Points of Interest - Public Infrastructure Name: Warrington Road Filling Station Ltd Location: Shell Buckley Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	709	8	328445 365632
253	Points of Interest - Public Infrastructure Name: Buckley Service Station Location: Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	709	8	328445 365632
253	Points of Interest - Public Infrastructure Name: Buckley Service Station Location: Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	709	8	328445 365632
253	Points of Interest - Public Infrastructure Name: Buckley Service Station Location: Liverpool Road, Buckley, CH7 3LN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	709	8	328445 365632
254	Points of Interest - Public Infrastructure Name: Enviroclear Site Services Location: 49 Maxwell Close, Buckley, CH7 3JF Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A7SE (SW)	798	8	328528 364211
254	Points of Interest - Public Infrastructure Name: Enviroclear Site Services Location: 49 Maxwell Close, Buckley, CH7 3JF Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A7SE (SW)	798	8	328528 364210
255	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	308	8	329158 364778
255	Points of Interest - Recreational and Environmental Name: Play Area Location: Mount Pleasant Road, CH7 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SE (SE)	309	8	329159 364778
256	Points of Interest - Recreational and Environmental Name: Play Area Location: CH7 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	414	8	328388 365061

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
257	Points of Interest - Recreational and Environmental Name: Play Area Location: CH5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	635	8	329403 365490
257	Points of Interest - Recreational and Environmental Name: Play Area Location: Longfellow Avenue, CH5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A19SW (NE)	642	8	329411 365492
257	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	643	8	329412 365491
258	Points of Interest - Recreational and Environmental Name: Play Area Location: CH7 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	728	8	328748 364224
259	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	839	8	328259 364337
259	Points of Interest - Recreational and Environmental Name: Play Area Location: Park Walk, CH7 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	839	8	328258 364338
260	Points of Interest - Recreational and Environmental Name: Play Area Location: CH5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19NW (N)	881	8	329237 365893

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
261	Ancient Woodland Name: Not Supplied Reference: 35845 Area(m ²): 35079.41 Type: Ancient and Semi-Natural Woodland	A13NW (N)	2	2	328871 365043
262	Ancient Woodland Name: Not Supplied Reference: 35844 Area(m ²): 23686.8 Type: Ancient and Semi-Natural Woodland	A13SW (W)	248	2	328568 364930
263	Ancient Woodland Name: Not Supplied Reference: 35846 Area(m ²): 7136.46 Type: Ancient and Semi-Natural Woodland	A13NE (NE)	275	2	329086 365293
264	Ancient Woodland Name: Not Supplied Reference: 35847 Area(m ²): 10183.73 Type: Ancient and Semi-Natural Woodland	A19SW (NE)	467	2	329222 365430
265	Ancient Woodland Name: Not Supplied Reference: 37338 Area(m ²): 5269.78 Type: Restored Ancient Woodland Site	A17SE (NW)	694	2	328275 365473
266	Ancient Woodland Name: Not Supplied Reference: 37339 Area(m ²): 4149.94 Type: Restored Ancient Woodland Site	A17SE (NW)	789	2	328366 365678
267	Sites of Special Scientific Interest Name: Buckley Claypits And Commons Multiple Areas: Y Total Area (m2): 997584.5499999999 Source: Natural Resources Wales Reference: 259231wwd Designation Details: Biological Designation Date: 15th January 2002 Date Type: Notified	A13NW (N)	2	2	328871 365043
268	Special Areas of Conservation Name: Deeside And Buckley Newt Sites Multiple Areas: Y Total Area (m2): 2071227.49 Source: Natural Resources Wales Reference: Uk0030132 Status: Designated	A13NW (N)	2	2	328871 365043

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Flintshire Council - Environmental Health Department	April 2014	Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 November 2019	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Welsh Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Welsh Region	October 2008	Variable
Integrated Pollution Prevention And Control Natural Resources Wales Environment Agency - Welsh Region	November 2019 October 2019	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Flintshire Council - Environmental Health Department	April 2016	Variable
Local Authority Pollution Prevention and Controls Flintshire Council - Environmental Health Department	April 2016	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Flintshire Council - Environmental Health Department	April 2016	Variable
Nearest Surface Water Feature Ordnance Survey	October 2019	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	Annual Rolling Update Annual Rolling Update
Registered Radioactive Substances Natural Resources Wales Environment Agency - Welsh Region	January 2015 June 2016	Annually
Substantiated Pollution Incident Register Environment Agency Wales - North Area Natural Resources Wales	October 2019 October 2019	Quarterly Quarterly
Water Abstractions Natural Resources Wales Environment Agency - Welsh Region	November 2019 October 2019	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	November 2019 October 2017	Quarterly Quarterly
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	November 2016	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Natural Resources Wales	August 2019	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	August 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	August 2019	Quarterly
OS Water Network Lines Ordnance Survey	July 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	October 2013	Annually
Surface Water Suitability Natural Resources Wales	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Natural Resources Wales	July 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Welsh Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency Wales - North Area Natural Resources Wales	July 2018 July 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Natural Resources Wales Environment Agency Wales - North Area	November 2019 October 2019	Quarterly Quarterly
Local Authority Landfill Coverage Flintshire Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites Flintshire Council - Environmental Health Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency Wales - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency Wales - North Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Flintshire Council	January 2016	Variable
Planning Hazardous Substance Consents Flintshire Council	January 2016	Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	December 2019	Quarterly
Points of Interest - Education and Health PointX	December 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2019	Quarterly
Points of Interest - Public Infrastructure PointX	December 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Outstanding Natural Beauty Natural Resources Wales	June 2019	Bi-Annually
Environmentally Sensitive Areas The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Flintshire Council	August 2018	Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	June 2019	Bi-Annually
National Parks Natural Resources Wales	August 2018	Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Natural Resources Wales The National Assembly for Wales - GI Services (Department of Planning & Countryside)	December 2017 July 2019 October 2005	Bi-Annually Bi-Annually
Ramsar Sites Natural Resources Wales	July 2019	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	March 2019	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

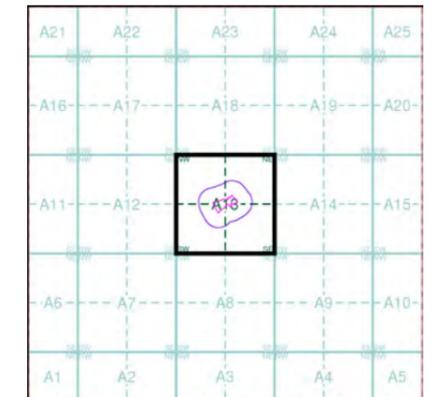
Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Flintshire Council - Environmental Health Department County Hall, Mold, Flintshire, CH7 6NF	Telephone: 01352 703413 Fax: 01352 703441 Website: www.flintshire.gov.uk
4	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

General

- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- ## Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- ## Waste
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- ## Hazardous Substances
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- ## Geological
- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Plot Buffer (m): 100

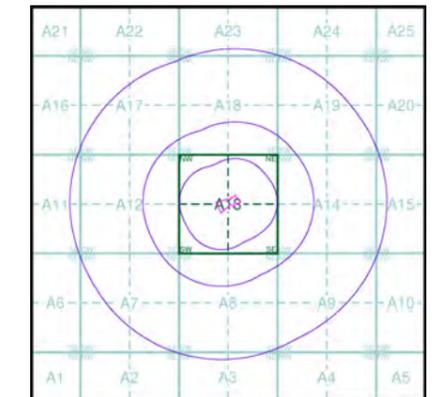
Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A

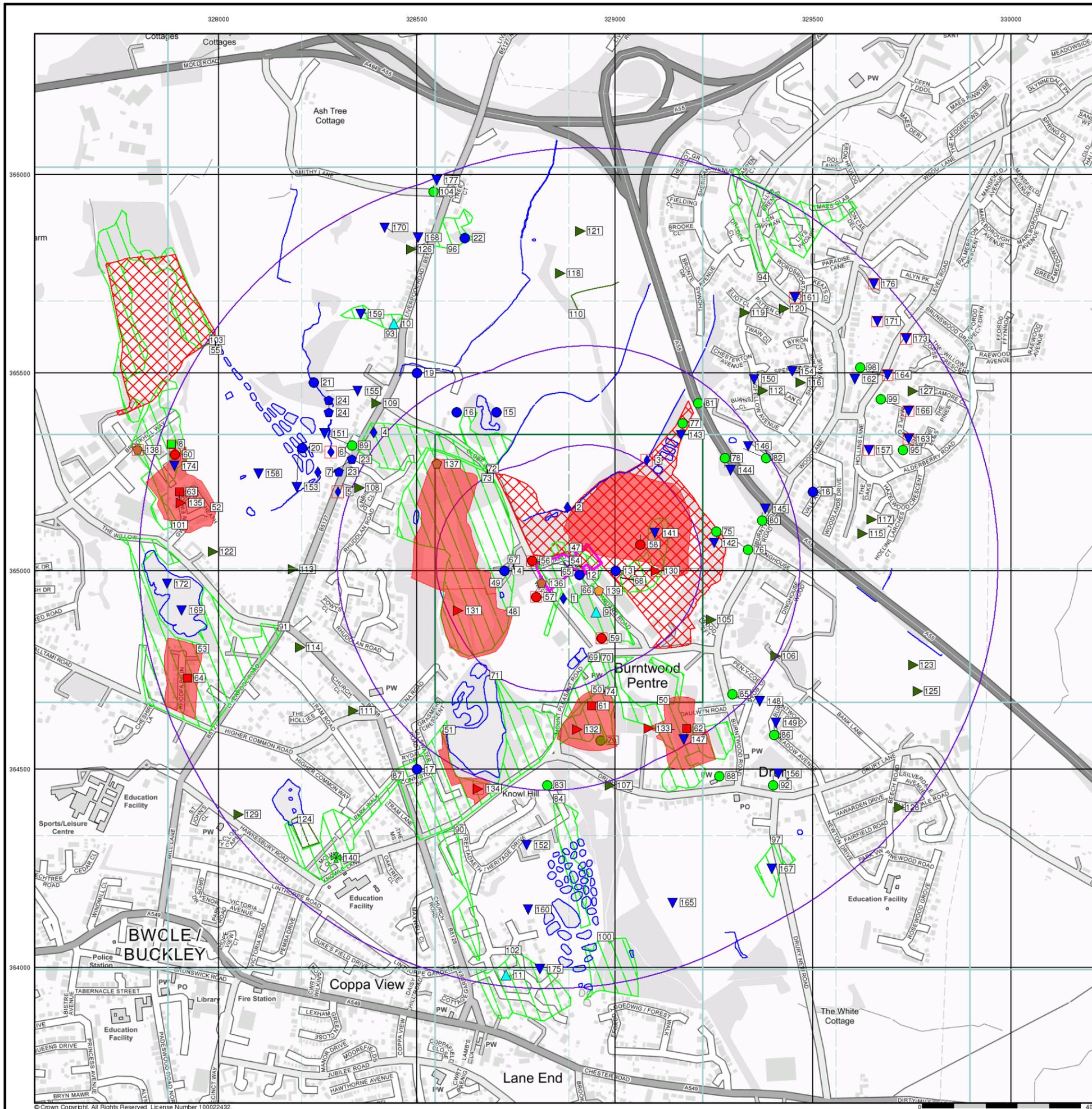


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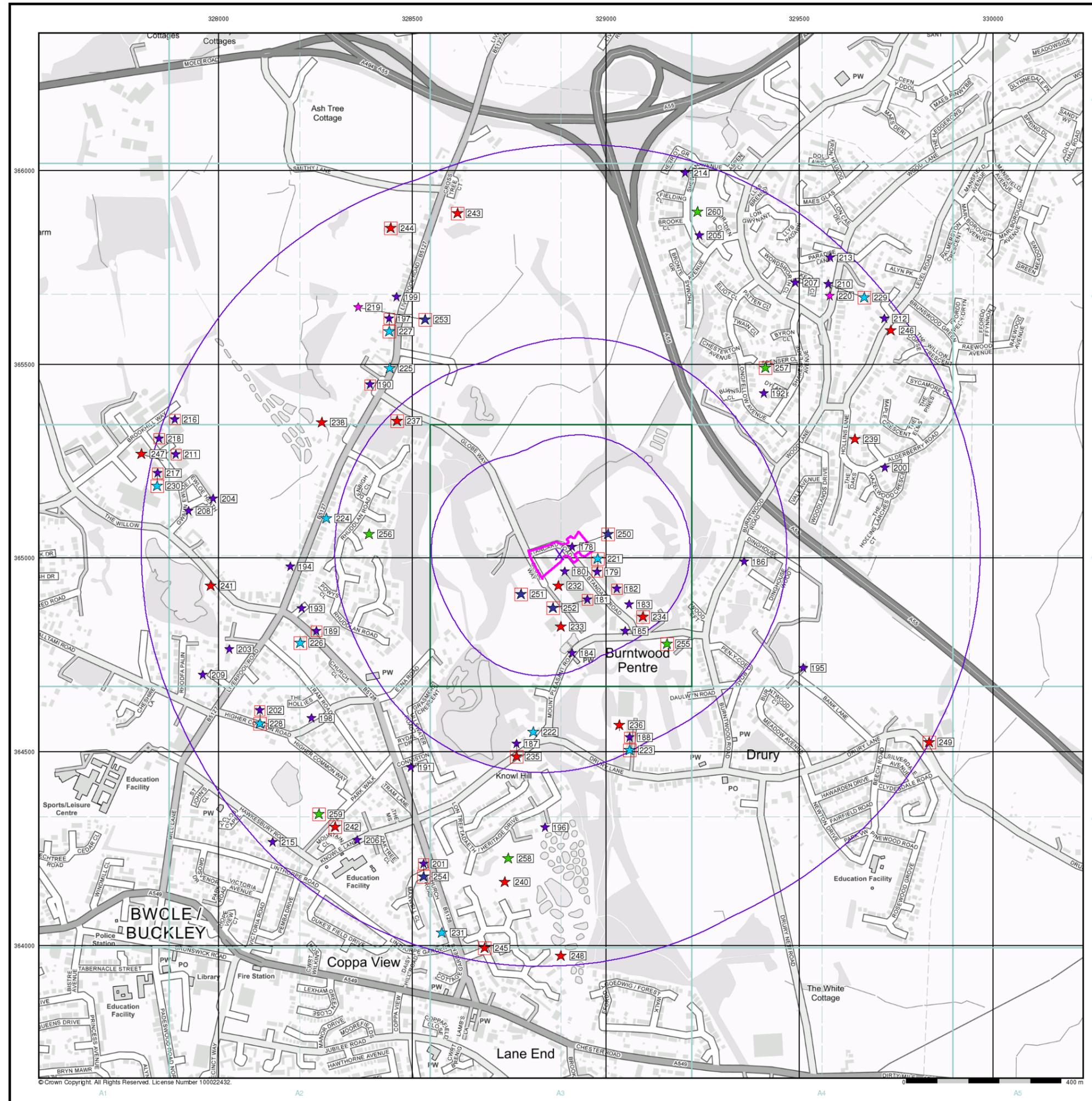
Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



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Industrial Land Use Map

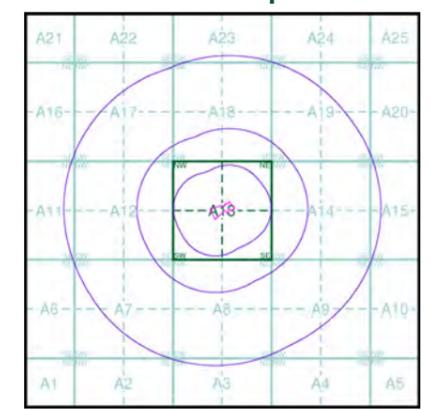
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A

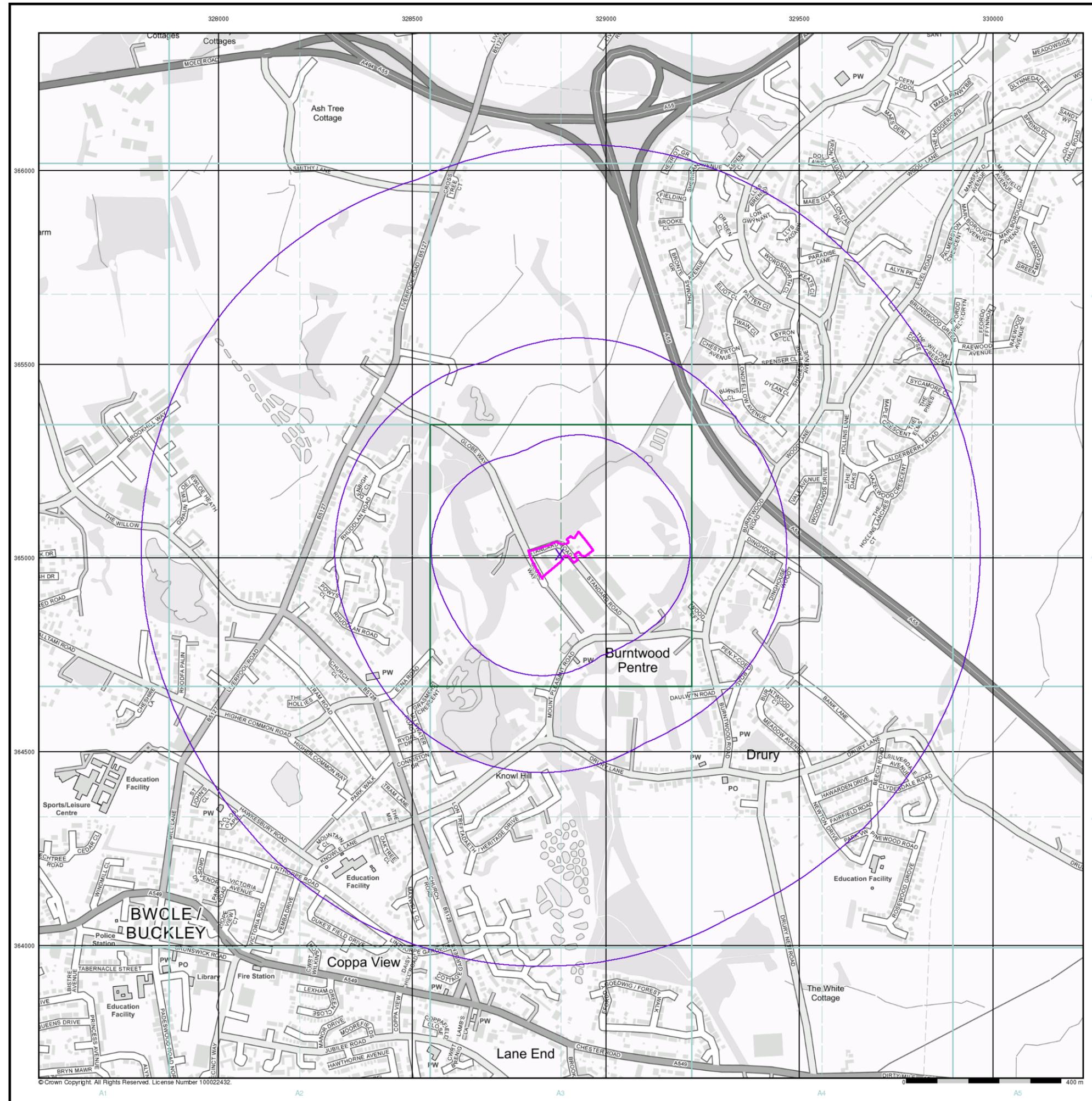


Order Details

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Site Details

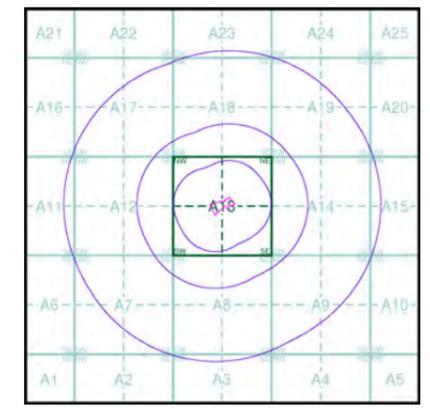
Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



- General**
- ◻ Specified Site
 - Specified Buffer(s)
 - ✕ Bearing Reference Point

- Agency and Hydrological (Flood)**
- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
 - Flooding from Rivers or Sea without Defences (Zone 3)
 - Area Benefiting from Flood Defence
 - Flood Water Storage Areas
 - Flood Defence

Flood Map - Slice A

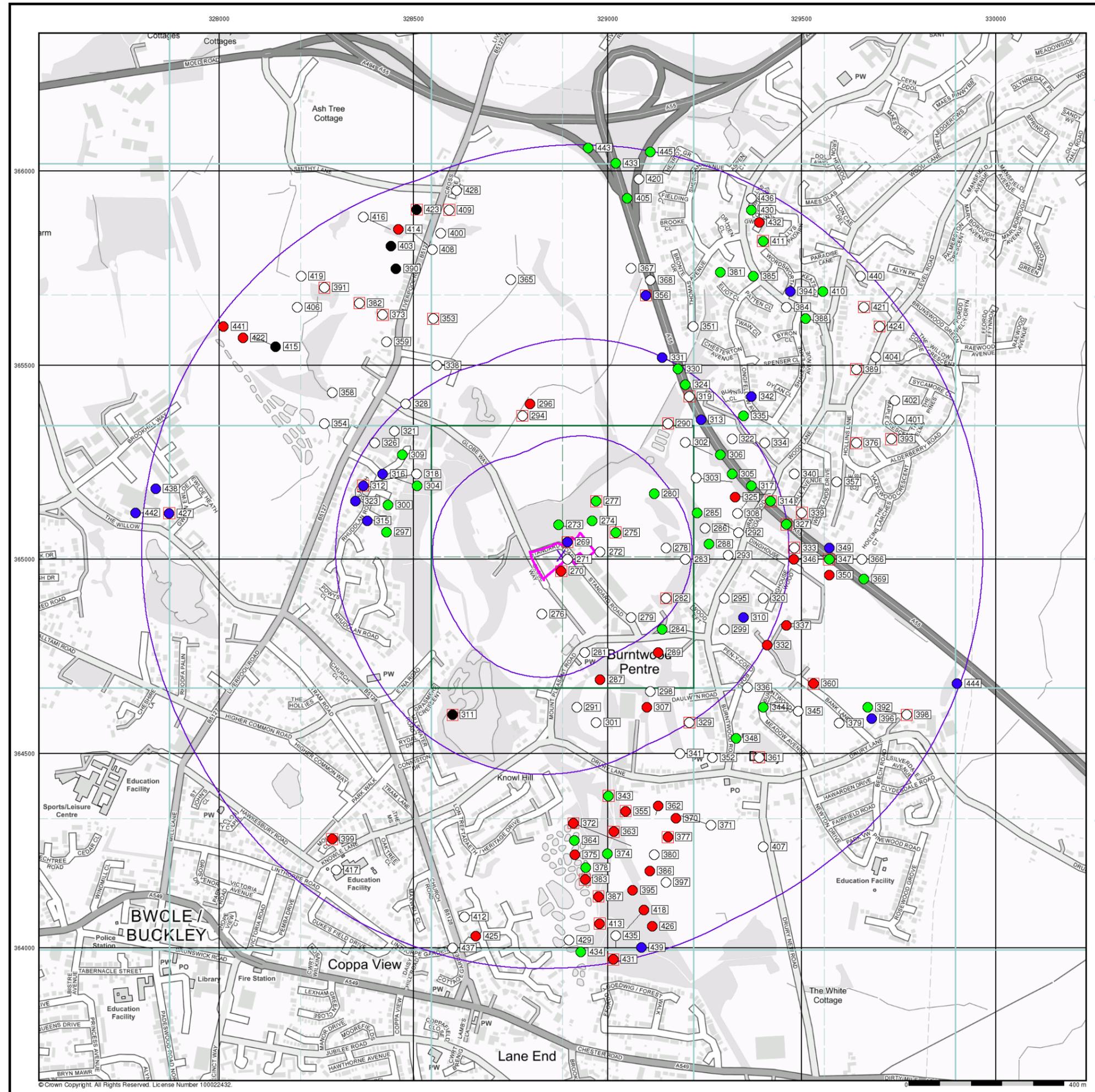


Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



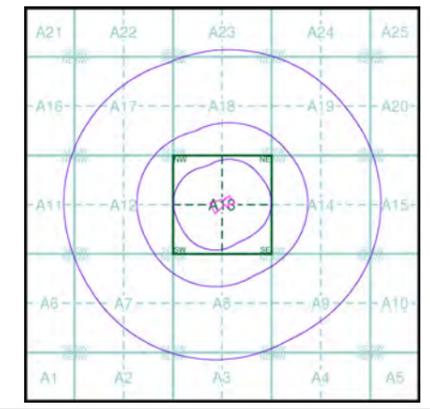
- General**
- Specified Site
 - Specified Buffer(s)
 - X Bearing Reference Point
 - Map ID
 - Several of Type at Location

- Agency and Hydrological (Boreholes)**
- BGS Borehole Depth 0 - 10m
 - BGS Borehole Depth 10 - 30m
 - BGS Borehole Depth 30m +
 - Confidential
 - Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

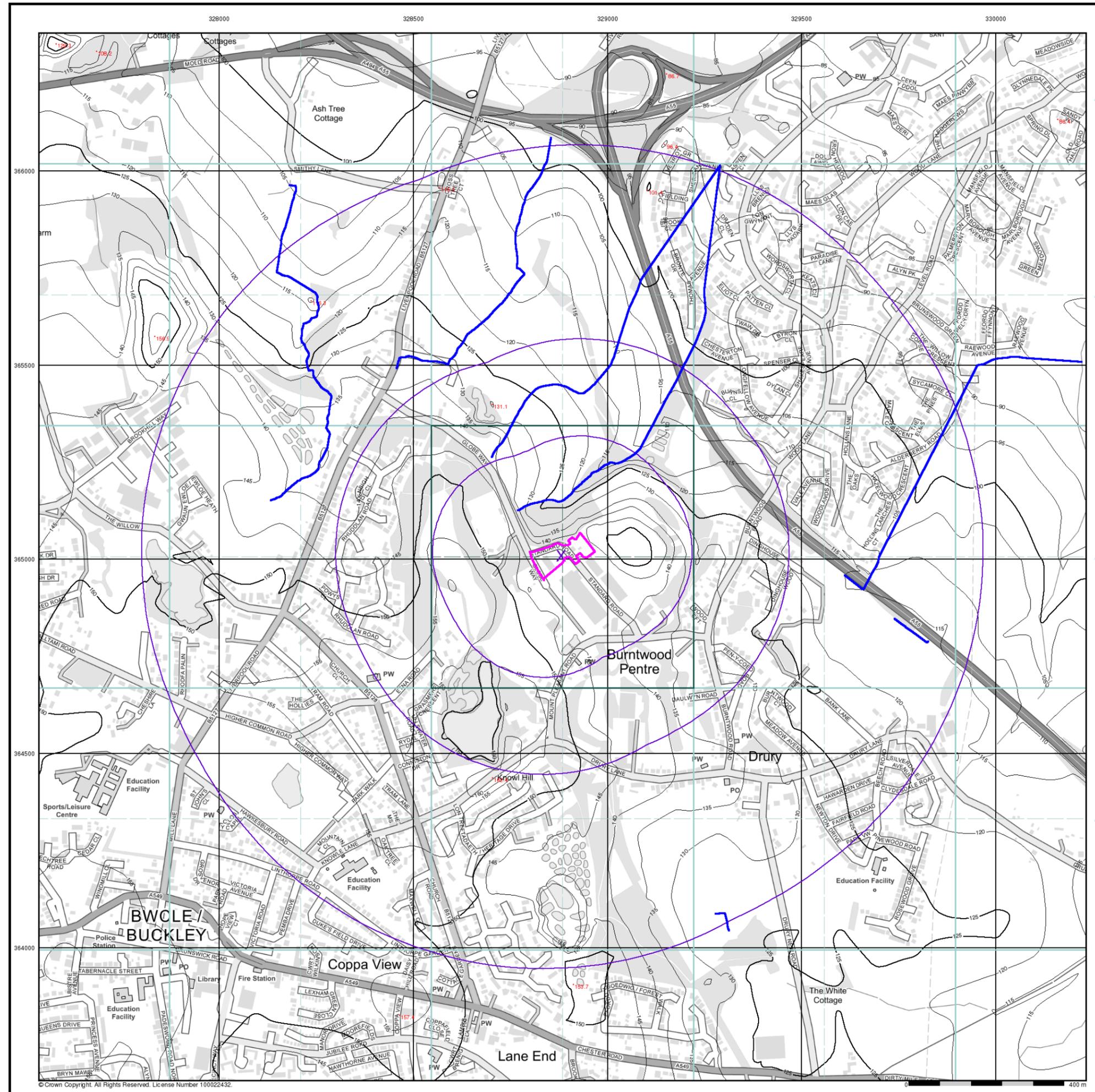


Order Details

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 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

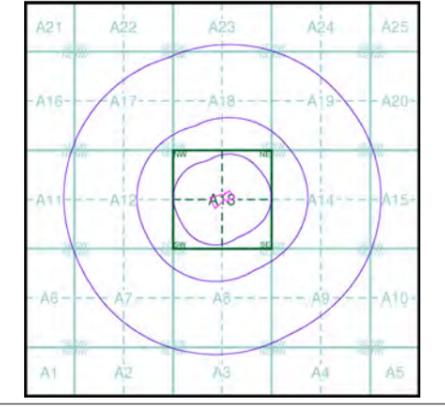
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- Standard Contour 105
- Master Contour 100
- Spot Height 167.3
- | | |
|-----|-----------------|
| MLW | Mean Low Water |
| MHW | Mean High Water |

OS Water Network Map - Slice A



Order Details

Order Number: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
 Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

Risk of Flooding from Surface Water

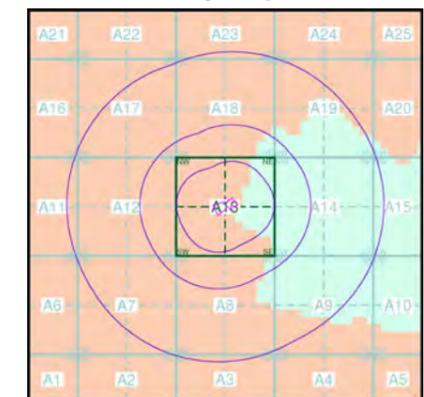
-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

Suitability

See the suitability map below

-  National to county
-  County to town
-  Town to street
-  Street to parcels of land
-  Property

EANRW Suitability Map - Slice A

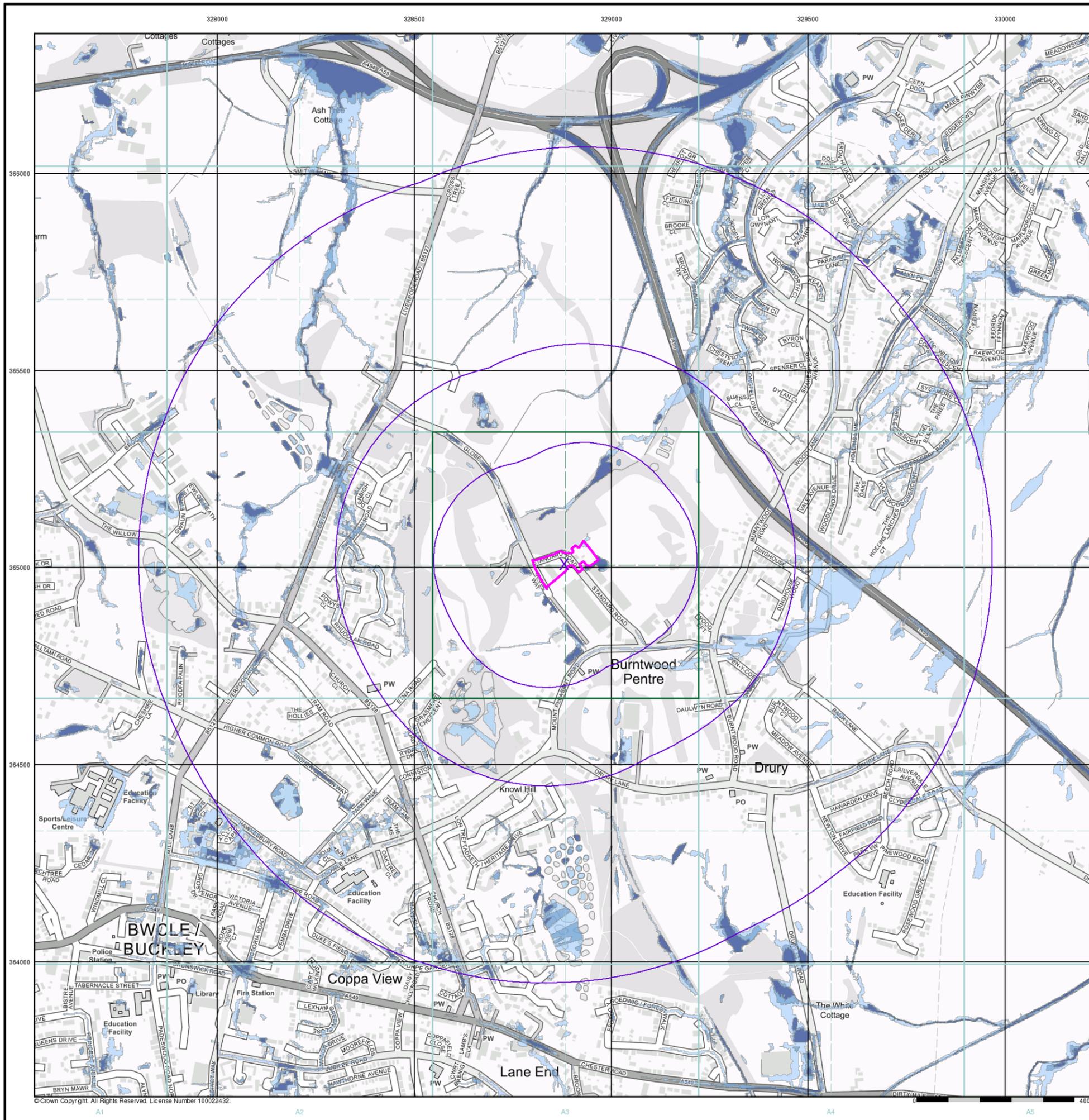


Order Details

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 Slice: A
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Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



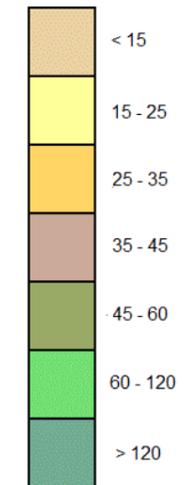
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General

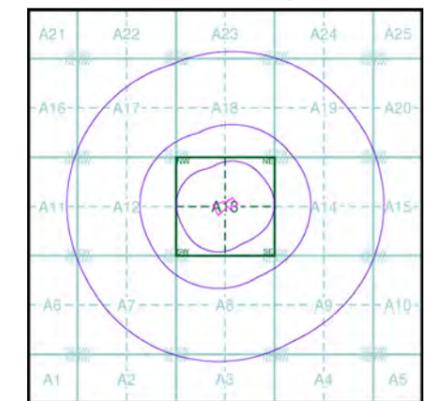
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 227445982_1_1
 Customer Ref: R2817
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Site Details

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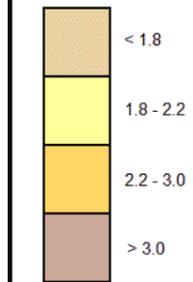
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General

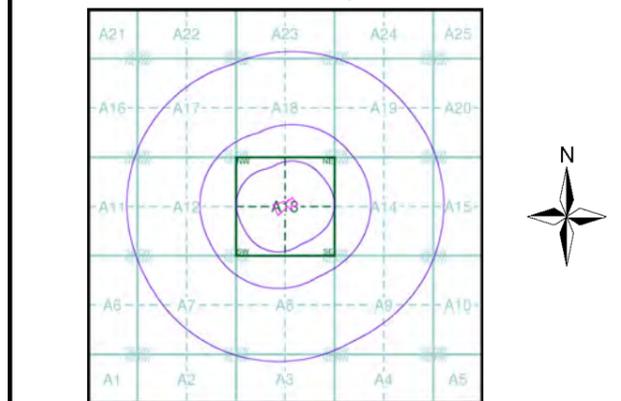
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 227445982_1_1
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Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



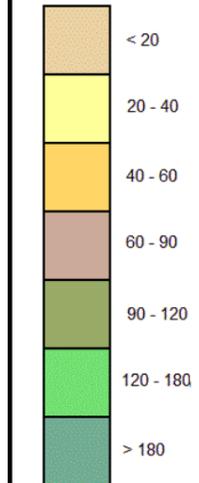
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General

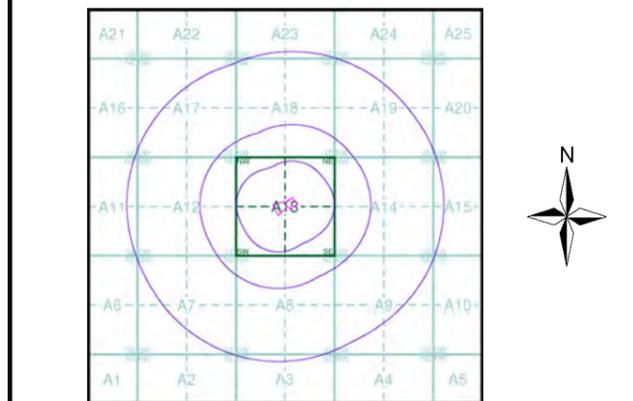
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

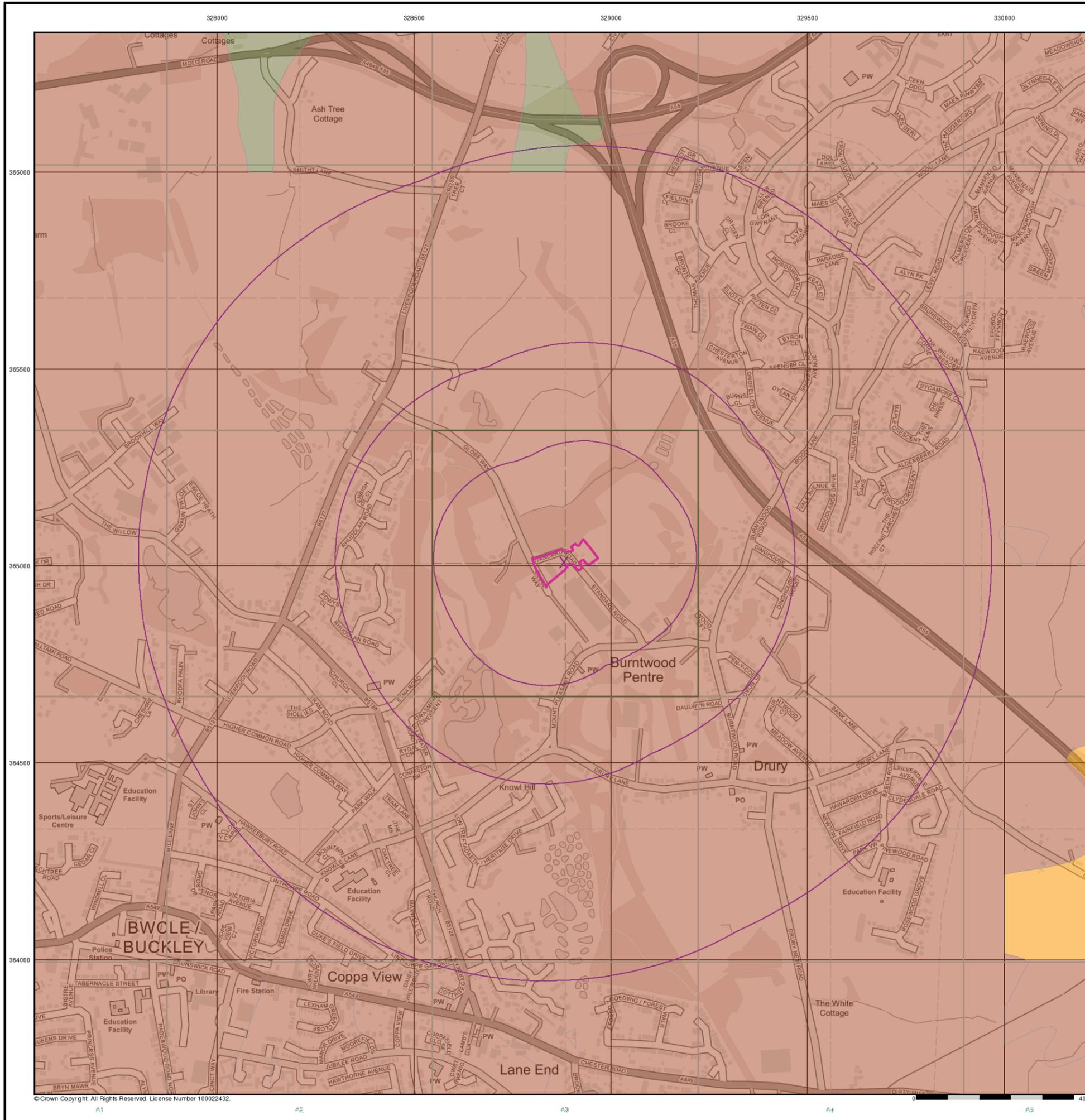


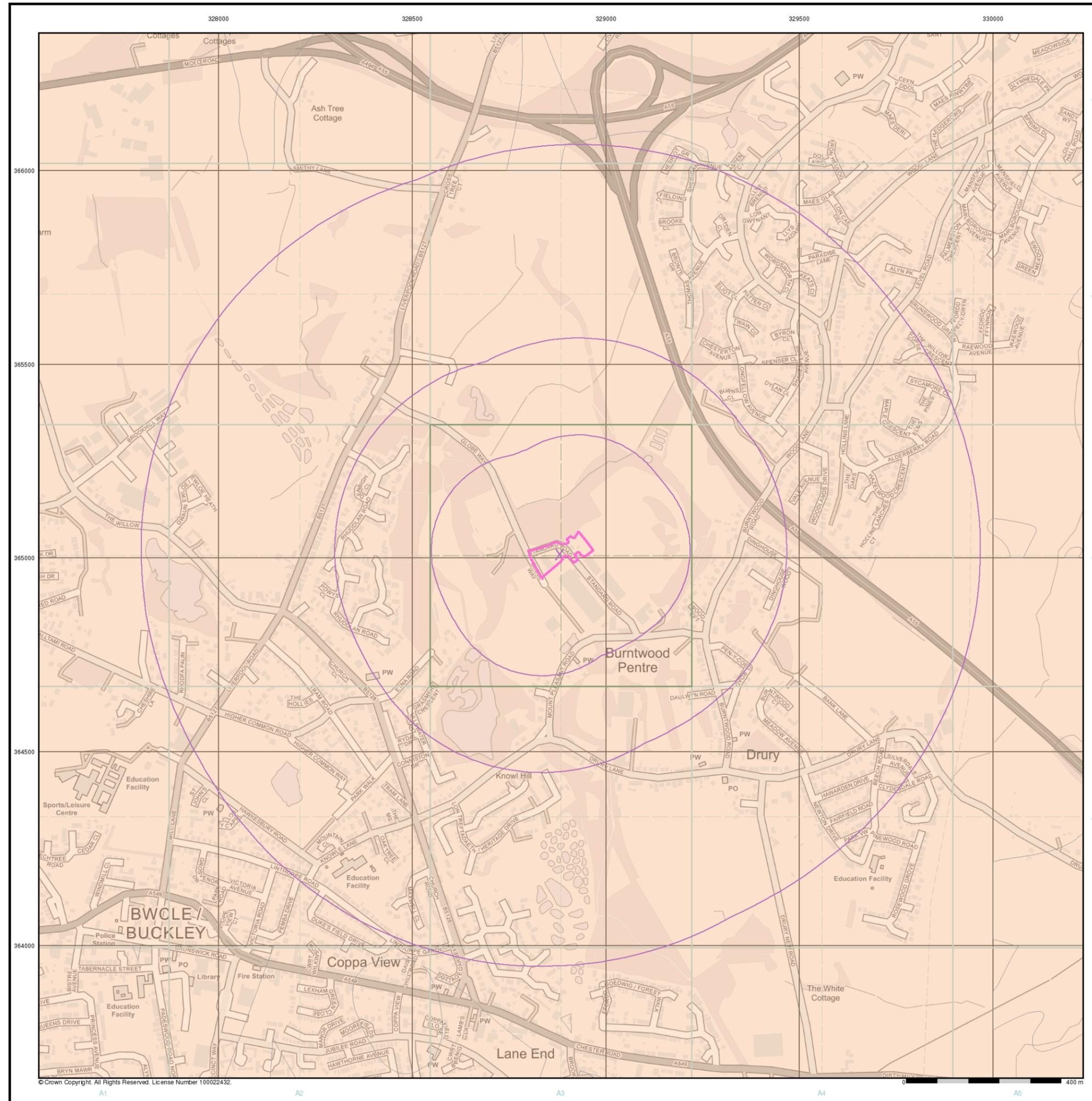
Order Details

Order Details: 227445982_1_1
 Customer Ref: R2817
 National Grid Reference: 328880, 365010
 Slice: A
 Site Area (Ha): 0.83
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Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

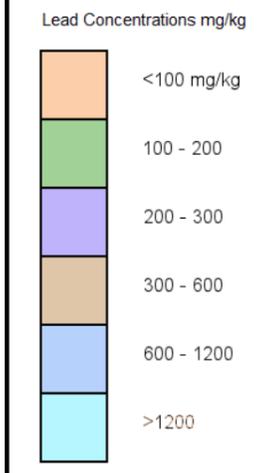




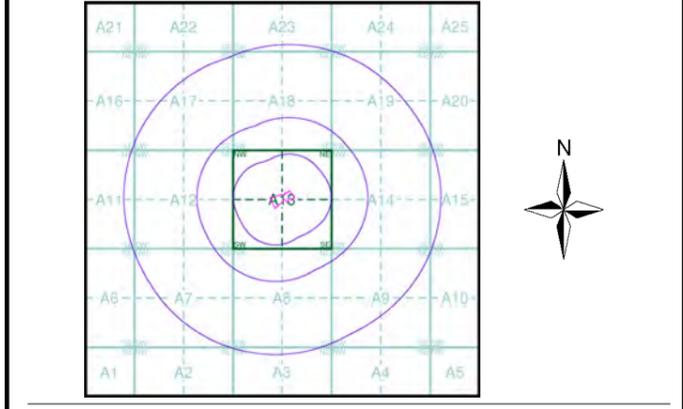
General

○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Lead



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 227445982_1_1
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Site Details

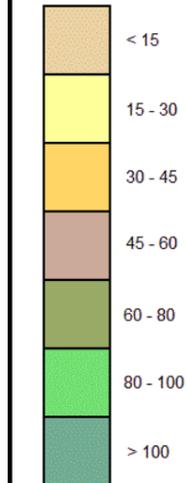
Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

General

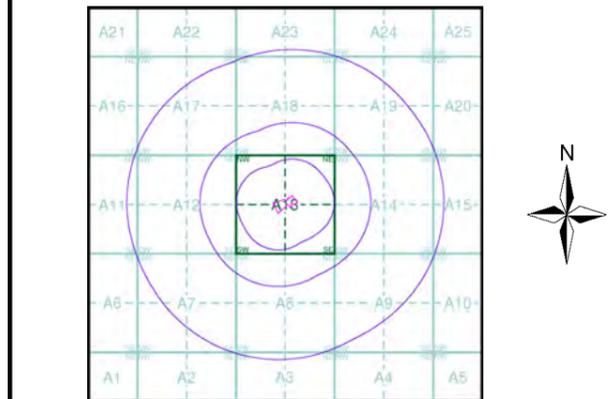
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

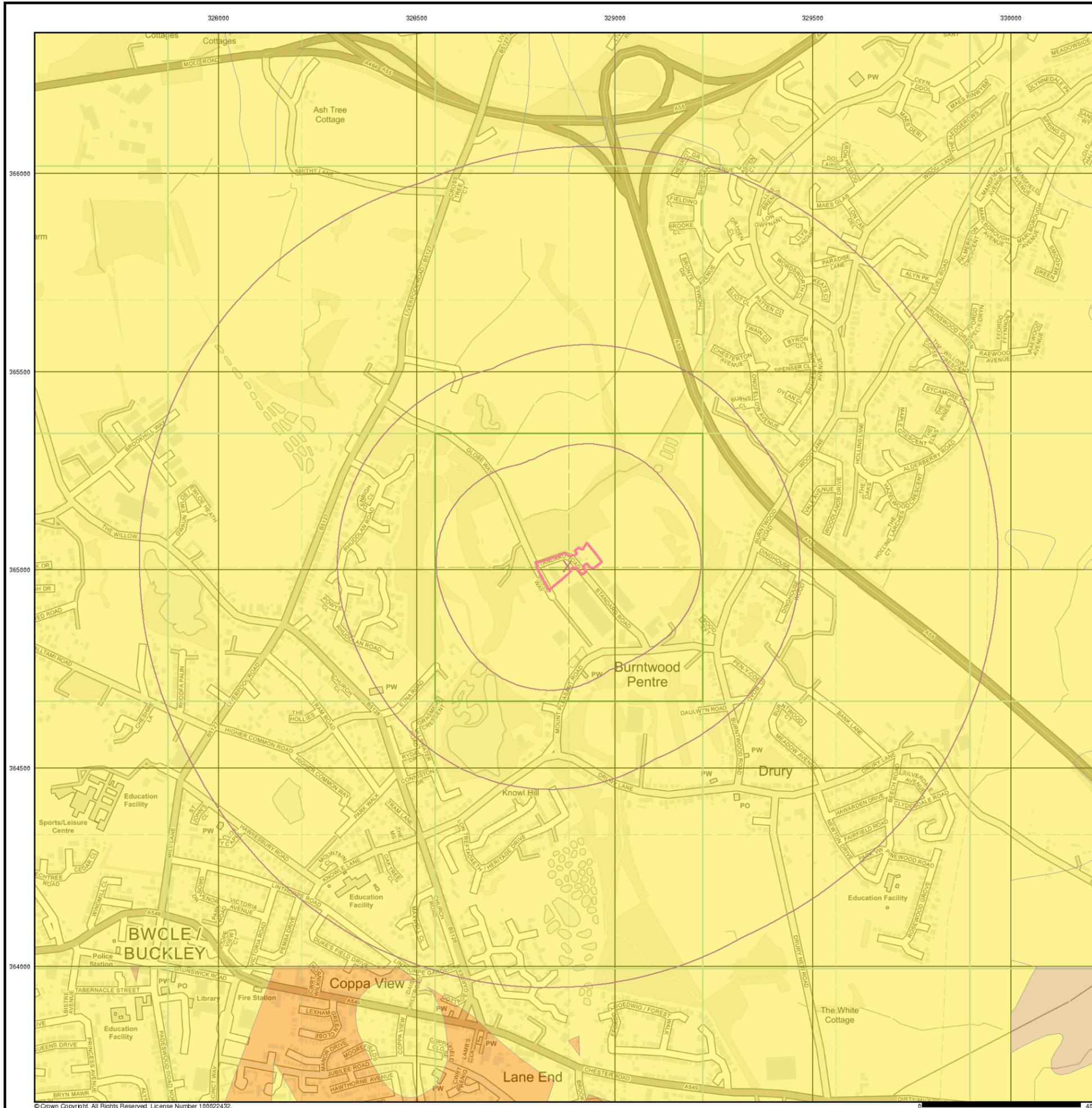


Order Details

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Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY



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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr D Wayland, Smith Grant Partnership, Station House, Station Road, Ruabon, Wrexham, LL14 6DL

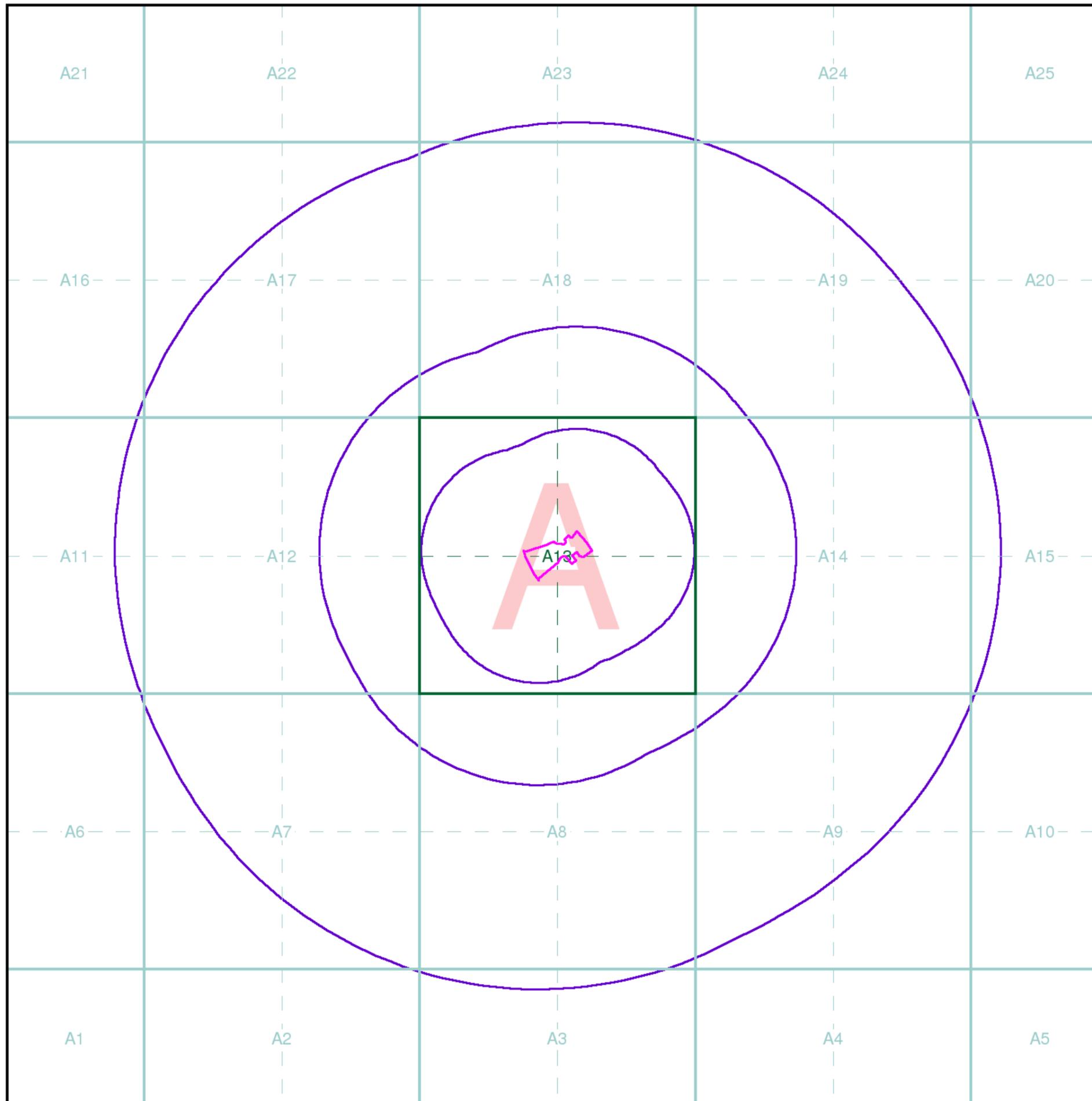
Order Details

Order Number: 227445982_1_1
Customer Ref: R2817
National Grid Reference: 328880, 365010
Site Area (Ha): 0.83
Search Buffer (m): 1000

Site Details

Spencer Industrial Estate, Liverpool Road, BUCKLEY, CH7 3LY

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



APPENDIX D

UXO Screening report

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Location: CH7 3LY,
Map Centre: 328991,364933



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

APPENDIX E

Coal Authority Coal Mining Report



The Coal
Authority

CON29M

coal mining report

SITE AT 328880, 364990, FLINTSHIRE



Known or potential coal mining risks

Past underground coal mining	Page 5
Future underground coal mining	Page 5
Mine entries	Page 6



Further action

These additional reports can give further detail on the risks identified:

- Mine entry interpretive report
- Mine entry plan and data sheets

For more information please see our [Further action reports](#) on page 11



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. In view of the coal mining circumstances we would recommend that any planned or future development should follow detailed technical advice before beginning work on site. Please see [page 3](#) for further details on [Future development](#).

Your reference: [223856447_1](#)
Our reference: [51002193554001](#)
Date: [6 November 2019](#)

Client name:
**LANDMARK INFORMATION
GROUP LIMITED**

If you require any further assistance please
contact our experts on:
[0345 762 6848](tel:03457626848)
groundstability@coal.gov.uk



The Law
Society

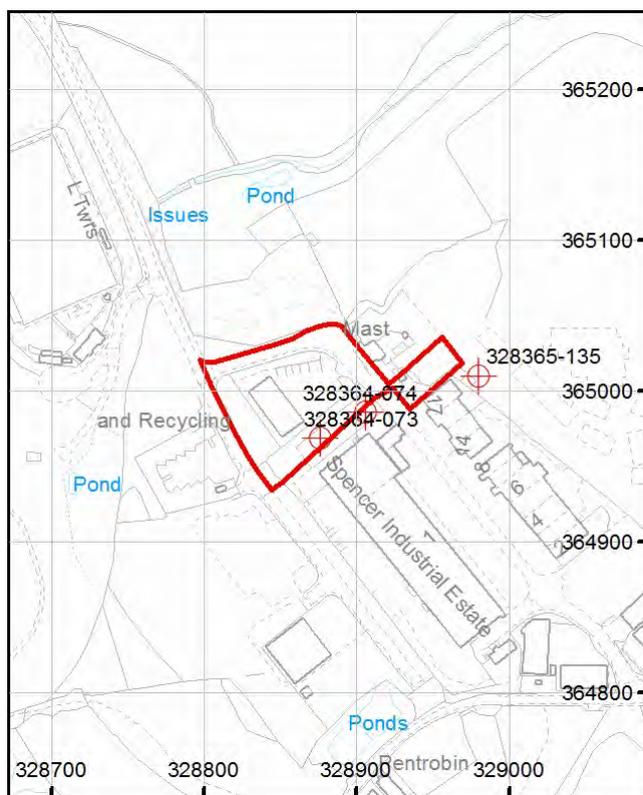
Enquiry boundary

Key

Approximate position of enquiry boundary shown



Disused mineshaft



We can confirm that the location is
on the coalfield



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Your reference: **223856447_1**
Our reference: **51002193554001**
Date: **6 November 2019**

Client name:
**LANDMARK INFORMATION
GROUP LIMITED**

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk

Professional opinion



Mine entries

The enquiry boundary shows the approximate location of the disused mine entry/entries referred to in this report. Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage caused by disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by visiting www.coal.gov.uk. Please note this Act is not valid where coal was worked or extracted by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you wish to discuss the relevance of any of the information contained in this report, you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wishes to examine the source plans from which the information has been taken, these are available to view, at our Coal Authority head office in Mansfield. To book an appointment please call **01623 637 225**. Should you or your advisor wish to carry out a physical investigation that may enter, disturb or interfere with any disused mine entry, prior permission must be sought from the owner. For coal mine entries, the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency, 24 hour call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). To report an emergency you can call **01623 646 333**.



Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed.

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on **0345 762 6848** or email cmra@coal.gov.uk.



Site investigations

The following site investigation(s) took place in the location area:

A site investigation was carried out in October 2004 by NKC Geotech Ltd., 25 Grosvenor Road, Wrexham, LL11 1BT.

Additional information regarding these investigations may be available from the company or companies listed above.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

The Coal Authority owns the copyright in this report and the information used to produce this report is protected by our database rights. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 5 seams of coal at shallow to 210m depth, and last worked in 1916.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

Within, or within 20 metres of, the boundary of the property there are 3 mine entries, the approximate positions of which are shown on the enquiry boundary plot. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

There is no record of what steps, if any, have been taken to treat the mine entries.

This information is based on the information that the Coal Authority has at the time of this enquiry.

Based on the Coal Authority's knowledge of the mining circumstances at the time of this enquiry, there may be unrecorded mine entries in the local area that do not appear on Coal Authority records.

For an additional fee, the Coal Authority can provide a Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry/entries referred to in this report. It gives an opinion on the likelihood of mining subsidence damage caused from ground movement as a consequence of the mine entry/entries. It also gives details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining.

Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie for development sites and new build).

For further advice on how to order this additional information please visit www.groundstability.com.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Your reference: **223856447_1**
Our reference: **51002193554001**
Date: **6 November 2019**

Client name:
**LANDMARK INFORMATION
GROUP LIMITED**

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0345 762 6848
groundstability@coal.gov.uk

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **01623 646 333**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings



Further action reports

Mine entry interpretive report - assesses the risk of ground movement from mine entries in, or within 20 metres of, the property boundary. To order this report, use the same boundary as the CON29M report, then draw the building on the additional map screen.

For more information and to order this report please visit:

<https://www2.groundstability.com/interpretive-report>

Mine entry plan and data sheets - give additional information on mine entries recorded on a piece of land. To order this report use the same boundary as the CON29M report and a member of our team will contact you to confirm the mine entries to include in this bespoke report.

For more information and to order this report please visit:

<https://www2.groundstability.com/plan-and-data-sheets>

APPENDIX F

NKC Coal Mining Risk Assessment



NKC Geotech Ltd

engineering geologist specialising in the investigation and treatment of disused mineworkings

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Coal Mining Risk Assessment



Globe Way, Drury

Smith Grant LLP
Station House
Ruabon
Wrexham
LL14 6DL

1948/2
24 November 2019



NKC Geotech Ltd

Site

A site for industrial development on the site of the former Mount Pleasant Colliery, Drury.

Risk Assessment by

Neil Catlow B.Sc F.G.S Engineering geologist.

Summary of relevant mining information

Publication CIRIA32 'Construction over Abandoned Mineworkings'
Coal Authority Report 51002193554001 dated 6th November 2019
Ordnance Survey 1:2500 First Edition 1875
Geological Survey 1:10560 plans
Mineplans of Mount Pleasant Colliery 6960 and 14901
Former NCB records of local geology

Nkc Geotech Ltd investigations with relevance to this site:

SLB 1892 May 1973 for Irvin & Partners Intrusive investigation. Main Coal and Rough Coal proved at shallow depth
1578 June 1978 for Spencer Industrial on this site for intended shaft treatment works
0430 July 2004 for Evans Wolfenden Partnership on this site for proposed waste disposal unit
0730 September 2007 for William Taylor Desktop study immediately west of current site.
0916 for Flintshire County Council Intrusive investigation of entire site west of Globe Way

Assessment of risk that coal mining poses to the proposed development

Geology

The site lies on Carboniferous Westphalian rocks that form the Buckley Coalfield, dipping to the south-east at 1 in 8. These rocks are predominantly shales and sandstones containing seams of coal upto 4.5m in thickness at vertical intervals typically varying from 4.0m to 20.0m. Those coal seams which were of economic importance were given an identity when they were of sufficient quality and thickness to justify extraction by mining from the surface or at depth from mineshafts. Typical names for local coal seams reflect primarily on quality and thickness, for example Yard Coal, Brassey Coal and Main Coal. According to former NCB records, the East Fireclay Fault outcrops north-south across the site and throws the coal seams downwards westwards.

Recorded mine entries close to the site boundary

There are three recorded mine entries on or within 20m of the site.
Shaft 328364-073 is shown within 10m of the site. Mount Pleasant No.1 Shaft and 208m deep.
Shaft 328364-074 is shown within 10m of the site. Mount Pleasant No.2 Shaft and 208m deep.
Shaft 328365-135 is shown 30m east of the site. Mount Pleasant Air Shaft and 27m deep.

None of the shafts have been recorded as being physically located but they are all shown on Ordnance Survey plans and there may be an error of 3m in the true position of the shafts. Shafts 073 and 075 would have been visible during construction of the Spencer Industrial steel stock yard in the early 1970's and there may be thin concrete caps or steelwork in place. I quoted Harry Spencer for the capping of these shafts in 1978 but I am not aware of any remedial works being carried out.

The Mount Pleasant Colliery was established in 1860 by deepening and enlarging the existing shafts of the former 18th century Wood Pit. The Wood Pit was sunk to the Wall & Bench Coal, formerly known locally as the Woodpit Coal, at a depth of 87m. The No.2 Shaft was formerly known as the Wood Pit, and later as Old Engine Pit, a reference to the shaft being the site of the one of the first Newcomen engines, erected personally by Thomas Newcomen in 1714.



nkk Geotech Ltd

Past underground coal mining

Coal mining in Buckley is recorded in 1292 when the area was part of the Swerdewood Forest and mineral rights belonged to the Earl of Chester. Industrial mining deeper than the outcrop workings and simple bell pits of the 'coal farms' in the forest dates from the 16th century when there are descriptions of dangerous open shafts at Nant Mawr and Lloyds Hills in Drury. The last coal mining in Buckley was in the Main Coal at the small Drury Lane Colliery 2.5km south-east of the site and abandoned in 1931.

There are records of past mining in five seams of coal at depths of 20m to 210m directly under the site. These seams were worked by the Wood Pit, and subsequently Mount Pleasant Colliery which closed in 1916, and are the Main Coal at 30m depth, the King Coal at 82m, the Wall & Bench Coal at 87m and the Premier Coal at 208m. The geological succession under the site is recorded in the shaft section for Mount Pleasant No 2 Shaft.

Until 1887 there was no statutory requirement to make and preserve plans of mineworkings, and mining prior to 1887 is consequently predominantly unrecorded although there are older documents referring to the coal works here.

Present underground coal workings

There is no current coal mining within 20km of the site.

Future underground coal workings

There are no current coal mining proposals within 20km of the site.

Coal mining geology

The Coal Authority have no records of any damage caused by geological faults.

Past opencast mining

There is a former opencast coal mining site within 80m of the site.

Present opencast mining

There are no current opencast coal mining sites within 200m of the site.

Future opencast mining

There are no proposed opencast coal mining sites within 800m of the site.

Mine gas emissions

There are no recorded mine gas emissions within the site boundary.

Surface hazards

There are no recorded remedial works being carried out by the Coal Authority on the site nor any subsidence claims.



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Further information

The risk to any proposed development is subsidence caused by the collapse of shallow mining tunnels where there is less than 20m of rock cover to underground workings. The Main Coal is known to have been probably mined under part of the site at shallow depth and there is therefore a risk of potential instability due to past shallow coal mining activity.

A physical search for the two mineshafts of Mount Pleasant Colliery, Shafts 073 and 074, cannot be carried out because they are known to lie off the site. The filling of the shafts and demolition of the headgear was completed by 1968, and there may be a void under the concrete base due to settlement of the infilling since 1970.

Shaft 135 lies over 30m from the eastern site boundary and will not require investigation.

Mitigation measures

An investigation of the probable shallow mineworkings in the Main Coal which date from pre-1714 will be required. An intrusive investigation by rotary drilling at least 3 holes to 30m depth will be required to determine the extent of any hazards. A further 2 holes will be required if buildings are constructed in the isolated eastern site. A Coal Authority Permit will be required for this work.

An investigation of the Mount Pleasant mineshafts will require the drilling of soil testing holes to determine the ground conditions in the close vicinity of the shafts. A specific Coal Authority Permit will be required for this work even though the shafts will not be penetrated. Once the ground conditions have been established, precautions and preventative measures can be designed in to the site development to protect the site against possible mineshaft subsidence.

Those areas on the site where there is less than 20m of rock cover to the Main Coal will require remedial works by drilling and grouting the old workings under the bearing areas of the proposed buildings to prevent collapse. A specific Coal Authority Permit will be required for this work.

For Nkc Geotech Ltd

A handwritten signature in black ink, appearing to read 'Neil Catlow', written over a light blue grid background.

Neil Catlow, B.Sc, F.G.S



nkc Geotech Ltd

Geological plan of the site
Scale 1:1250 @ A4

