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L I M I T E D

Geotechnical & Environmental Consultants

Report On A Phase I Desk Study

At

**Land to the rear of 20 Forest Avenue,
Cowplain, Hampshire, PO8 8JD**

For

Debtorbook Solutions

REPORT 13282/DS

Phase I Desk Study

**Job Title: Land to the rear of 20 Forest Avenue, Cowplain,
Hampshire, PO8 8JD**

Client: Debtorbook Solutions

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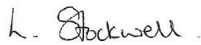
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	Name	Signature
Prepared by:	L Stockwell	
Checked by:	C Morrison	
	R Higginson	

Current regulations and good practice were used in the preparation of this report. The recommendations given in this report must be reviewed by an appropriately qualified person at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.



Soils Limited
Newton House
Cross Road
Tadworth
Surrey KT20 5SR
Phone 01737 814221
Fax 01737 812557

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Report On A Phase I Desk Study

At

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For

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Section 1 Commission

1.1 Commission

Soils Limited was commissioned by Debtorbook Solutions to carry out a Phase I Desk Study and Site Walkover at Land to the rear of 20 Forest Avenue, Cowplain, Hampshire, PO8 8JD.

1.2 Caveat

Whilst reasonable skill and care has been taken to determine the site history and the environmental setting within the time constraints applied by the programme, it should be appreciated that it may be that site conditions are better or worse than those indicated by desk study, particularly on sites with a history of past development. No responsibility can be accepted should such conditions alter the recommendations made in this report.

Section 2 Introduction

2.1 Objective of the Investigation

The Phase I Desk Study was undertaken to advise the client on risk factors pertaining to the site with special reference to former and present day potential contaminative uses and their impact on sensitive receptors these being human health, controlled waters, buildings, building materials and services.

2.2 Location

The approximate O.S. Land Ranger Grid Reference at the centre of the site was SU 690 115. The area of the site was approximately 0.31 Ha.

The general site location map is given on Figure 1.

2.3 Proposed Redevelopment

At the time of reporting, October 2012, the proposed redevelopment was understood to comprise the construction of 3No. residential units with associated soft and hard landscaping including brick-paved car-turning areas.

2.4 Legislative Background

Part IIA of the Environment Act 1995 provides powers in relation to the identification, remediation and apportionment of liability for contaminated land.

Local Authorities are required to identify contaminated land and serve on every person who is an appropriate person a remediation notice setting out what is to be done by way of remediation and the period within which it must be done.

If the person who caused, or knowingly permitted the contaminating substance cannot be found, the owner and/or occupier for the time being of the property can be the appropriate person.

For the first time in the United Kingdom there is a legal meaning to the term Contaminated Land as: -

"Land which is in such a condition by reason of substances in, on or under the land that significant harm is being caused or that there is a significant possibility of such harm being caused or that pollution of controlled waters is being, or is likely to be caused".

Where the Act defines harm as: -

"harm to the health of living organisms or other interference with the ecological systems of which they form a part and, in the case of man, includes harm to his property".

and pollution of controlled waters is defined as: -

"the entry into controlled waters of any poisonous, noxious or polluting matter or any solid waste matter".

With regard to contaminated waters the Environment Act 1995 amends the Water Resources Act 1991 and provides the Environment Agency with the power to force clean-up of historical contamination by issuing a "Works Notice", with remediation paid for by the responsible parties.

In addition, the Groundwater Regulations (1998) state that entry of List 1 substances into groundwater must be prevented and List II substances must be controlled. Petroleum hydrocarbons, pesticides and some herbicides are List I substances.

2.5 Limitations and Disclaimers

This Phase I Desk Study Report relates to the site located at land to the rear of 20 Forest Avenue, Cowplain, Hampshire, PO8 8JD and was prepared for the sole benefit of Debtorbook Solutions (The "Client") and was prepared solely for the brief described in Section 1.1 of this report.

Soils Limited disclaim any responsibility to the Client and others in respect of any matters outside the scope of the above.

This report has been prepared by Soils Limited, with all reasonable skill, care and diligence within the terms of the Contract with the Client, incorporation of our General Conditions of Contract of Business and taking into account the resources devoted to us by agreement with the Client.

The report is personal and confidential to the Client and Soils Limited accept no responsibility of whatever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report wholly at its own risk.

The Client may not assign the benefit of the report or any part to any third party without the written consent of Soils Limited.

The ground is a product of continuing natural and artificial processes. As a result, the ground will exhibit a variety of characteristics that vary from place to place across a site, and also with time. Whilst a ground investigation will mitigate to a greater or lesser degree against the resulting risk from variation, the risks cannot be eliminated.

The investigation, interpretations, and recommendations given in this report were prepared for the sole benefit of the client in accordance with their brief. As such these do not necessarily address all aspects of ground behaviour at the site.

Current regulations and good practice were used in the preparation of this report. An

appropriately qualified person must review the recommendations given in this report at the time of preparation of the scheme design to ensure that any recommendations given remain valid in light of changes in regulation and practice, or additional information obtained regarding the site.

There may be other sources of information not included in those listed that hold data relevant to the Phase I Desk Study undertaken at the site that could materially affect the conclusions made in this report.

Ownership of land brings with it onerous legal liabilities in respect of harm to the environment. "Contaminated Land" is defined in Section 57 of the Environment Act 1995 as *"Land which is in such a condition by reason of substances in, on or under the land that significant harm is being caused or that there is a significant possibility of such harm being caused or that pollution of controlled waters is being, or is likely to be caused"*.

Where a contaminative use is identified in the Phase I Desk Study this does not determine whether contamination has actually occurred, or if it has the degree to which it may have taken place. An intrusive investigation(s) and analysis is required to establish the nature and degree of any contamination present.

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Section 3 Site Conditions

3.1 Site Walkover

A Site Walkover was undertaken in October 2012.

Details of the site walkover are presented in the table below.

Site Walkover Record	
Use of site	<i>Disused plot – open land with possible groundworks/levelling occurred</i>
Site topography	<i>Gently sloping to west</i>
Area topography	<i>Gently sloped to west/south-west</i>
Structures on-site	<i>None 20' shipping container noted onsite – padlocked, no access available</i>
Structures off-site/ Use of surrounding ground	<i>2-storey residential in all directions</i>
Site covering	<i>Grass and compacted brick rubble</i>
Current Contamination sources on-site	<i>Made Ground and general rubbish. Builders materials including un-marked barrels.</i>
Current Contamination sources off-site	<i>None seen</i>
Vegetation on-site	<i>Grass, mature trees, occasional shrubs to the boundaries</i>
Vegetation off-site	<i>Private residential gardens including semi-mature and mature trees, shrubbery, plants and grass</i>

Photographs of the site taken during the site walkover are given in Appendix D.

Section 4

Geology, Hydrogeology, Hydrology and Radon

4.1 Anticipated Geology

The 1:50 000 Geological Survey of Great Britain (England and Wales), showed the site to be located on superficial Head Deposits which was indicated to be underlain by the Lambeth Group: clays, silts, sands. The site was located between junctions to the northern and southern boundaries where no superficial deposits were noted.

4.1.1 Head Deposits

Head Deposits are drifts produced by solifluxion, the downslope movement of debris outwash during the periglacial period, and characteristically comprise poorly sorted sands gravels and chalk of local derivation.

4.1.2 Lambeth Group

The Lambeth Group (formerly known as the Woolwich and Reading Beds) is a sedimentary complex comprising a basal bed (the Bottom Bed) composed of glauconitic sand, sandy clay and gravel, with laterally variable sand and clay above. In the eastern part of the area the basal bed is mostly overlain by a shelly grey sandy clay or silty sand. Lignite, or brown coal, a carbonaceous rock composed of plant remains which has not been subject to the same intensity of heat and pressure as has ordinary coal, is occasionally found within the Lambeth Group, as are individual logs and groups of logs indicating the position of a former log jam, which was covered by sand and clay at the time of deposition.

4.2 Hydrogeology

To assess the vulnerability of groundwater to contamination, consideration must be given to the leaching characteristics of the overlying soils and the characteristics of the strata in the unsaturated zone. Information on the geological strata, such as lithological type and permeability characteristics has been combined with the physical properties of the soil to produce varying degrees of vulnerability.

The Environment Agency Groundwater Vulnerability Map showed the site to be situated on a boundary of **superficial deposits** having a class of **Secondary Undifferentiated Aquifer** associated with the Head Deposits. This was underlain by **bedrock** having a geological class of **Secondary A Aquifer**, associated with the Lambeth Group. The EA Groundwater Vulnerability map indicated that the site was situated on soils noted as being part of a Minor Aquifer with a **H(U)** Leaching Potential.

Secondary Undifferentiated Strata is often assigned in cases where it has not been possible to attribute either category A or B. It often means that it has previously been designated both a minor and a non-aquifer in different locations due to the variable characteristic rock type.

Secondary A Aquifers are permeable layers of rock capable of supporting water supply at a local scale rather than strategic scale. They can be an important source of base flow to rivers and are generally classified as having previously been minor aquifers.

'H' classification is defined as *'Soils with little ability to attenuate diffuse source pollutants and in which non-adsorbed source pollutants and liquid discharges have the potential to move rapidly to underlying strata or to shallow groundwater'*. 'U' denotes the area to be urban where soil information was less reliable and based on fewer observations than in rural areas and thus the worst case vulnerability has been assumed by the Environment Agency in their classification.

Examination of the Environment Agency records showed the site **did** fall within a Groundwater Source Protection Zone I (GSPZ) as classified in the Policy and Practice for the Protection of Groundwater.

Any works or development, which may have an impact on surface water, aquifer or groundwater quality, must be approved by the Environment Agency prior to implementation.

A potable abstraction point was noted 1918m to the north of the site at Lovedean Pumping Station.

4.3 Hydrology

The nearest Surface Water Feature was a lake located 69m west, known as Billys Lake.

The site had an approximate site elevation of 54m AOD.

The groundwater was anticipated to be encountered at shallow depth (at a depth of <3m bgl) and the groundwater flow direction was anticipated to be in a north-westerly direction towards the GSPZ I borehole.

4.4 Radon Gas

The site **was not situated** within an area where protection or risk assessment against the ingress of radon was required. This means that radon protection measures will **not** be required within the proposed new development. It is not possible in the course of a survey or inspection to determine whether radon gas is present as the gas is colourless and odourless. Tests can be undertaken to assess the concentration of radon in existing structures.

4.5 Flood Risk

The site **was not situated** within an area identified by the Environment Agency as being at risk from extreme flooding and a Flood Risk Assessment will **not** be required.

Section 5 Site History

5.1 Historic Map Study

The object of this search was to report on the evidence of site history and redevelopment of the site and its environs from available County Series and Ordnance Survey Maps dating from the mid to late 19th Century to the present day as downloaded from Landmark Environmental.

Maps only represent a "snap shot" of the site and its environs at the date of the survey. Changes that had occurred either to the site and/or the environs may well not have been recorded on the maps and could represent a hazard to the site.

Any distances quoted for features remote from the site have been scaled from the maps and are only approximate. Where dates have been noted in brackets, these are the actual dates applicable to the map editions. The information reported might not represent all pertinent information that could be obtained.

The interpretation of the maps and/or other data commented on in this report is subjective. In the following sections dealing with individual maps, only features considered to have a potential contaminative impact on the site and usually within a notional 250 metre radius of the site boundaries are discussed.

The north point and approximate extent of the site are indicated on each figure.

A précis of the implications, if any, of the maps is given in tabular form below and overleaf.

Environmental Significance of Data From Maps			
Date	Scale	Site	Environs
1868-1878	1:2,500	No data	No data
1868	1:2,500	Open land	Woodland to W and S boundaries Open land to E Minor residential development 200m SE Gravel Pit 250m W Pond noted to the north east
1870	1:10,560	Open land	As previous map
1897	1:2,500	Site noted as open land	Small pond noted 100m E Gravel pit no longer noted Small pond noted 250m NE
1897	1:10,560	As previous maps	As previous maps
1909	1:2,500	As previous maps	Increased residential development 200m E
1910	1:10,560	As previous map	As previous map
1932	1:2,500	As previous map	Increased residential developments S, N, and E Woodland still noted to W and S Pond 100m E no longer noted

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1933	1:10,560	As previous map	Increased residential to NE and SE
1942	1:10,560	As previous map	As previous map
1947 (Aerial Photo)	1:10,560	Poor detail	Poor detail – appears to be as previous maps
1953-1954	1:2,500	Two small buildings noted to centre of site Small structure noted to E of site, and included within garden of residential property to E	Residential development to E, N and W boundary Pond still noted to NE
1959-1960	1:2,500	As previous map	Increased residential development to W
1962	1:10,000	As previous map	As previous map
1962-1969	1:1,250		
1970	1:2,500	As previous map	Drain noted along the north-west boundary of site Pond still noted to NE Increased residential development to NW Electric sub station noted 50m SE, 120m SW and 140m NE Timber yard noted 200m E
1974	1:1,250	One large building noted onsite, with two smaller buildings also noted to the centre and SE boundary Trees noted onsite	As previous maps Timber Yard no longer noted Garage noted 250m SE
1976	1:1,250	No data	Partial data to NW – As previous maps
1977-1987	1:1,250	As 1974 historical map	No data to NW As previous maps
1980-1989	1:1,250	As previous maps	As previous maps
1980-1982	1:10,000	As previous map	As previous map
1983	1:25,000	Site noted as open land	As previous map
1989	1:1,250	No data	Partial data to NE – as previous maps
1992	1:10,000	As previous map	As previous map
1993	1:1,250	As previous maps	As previous maps
2006	1:10,000	Site noted as open land	As previous map
2012	1:10,000	Site noted as open land	As previous map

Section 6 Environmental Records and Consultation

6.1 Dataset Information and Landmark Envirocheck Report

A Landmark Envirocheck Report was obtained for the site by Soils Limited. Unless the data indicates otherwise only information within a 250m buffer zone has been included.

A copy of the report and the certificate are presented in Appendix B of this report and a summary is given below and overpage.

Environmental Significance Of Data Search	
Source	Nearest distance from site/Dated/Type
Groundwater protection zones	GSPZ I/ Onsite
Nearest potable abstraction point	1918m N/ Lovedean Pumping station
Nearest non-potable abstraction point	None within 2000m
Nearest Surface Water Feature	69m W/ Billy Lake
Contaminated Land Register Entries and Notices	None within 1000m
Pollution Incidents to Controlled Waters (Significant Incidents only)	None within 1000m
Substantial Pollution Incident Register	756m SE/ Crude Sewage (2009)
Prosecutions Relating to Authorised Processes	None within 1000m
Local Authority Pollution Prevention and Controls	249m E/ Petrol Filling station 458m N/ Petrol Filling station (revoked) 473m S/ Dry cleaning 699m NE/ Waste oil burners
Discharge Consents	478m S/ Storm sewage overflow
Integrated Pollution Prevention and Control	None within 500m
Registered Radioactive Substances	None within 500m
Licensed Waste Management Facilities	None within 500m
Registered Landfill Sites	None within 500m
Historical Landfill Sites	None within 500m
BGS Recorded Landfill Sites	None within 500m
Registered Waste Treatment or Disposal Sites	None within 500m
BGS Recorded Mineral Sites	None within 500m
Registered Waste Transfer Sites	None within 500m
Local Authority Recorded Landfill Sites	None within 500m
Planning hazardous substance consents	None within 500m
Control of Major Accident Hazards Sites (COMAH)	None within 500m
Notification of Installations Handling Hazardous Substances	None within 500m
Water Industry Act Referrals	None within 500m
Contemporary Trade Directory (Active Status or those likely to impact the underlying soil and/or groundwater, date not supplied)	83m E/ Hydraulic manufacturers 211m E/ Garage services
Extreme flooding from rivers or sea without defences	192m NW
Flooding from rivers or sea without defences	None within 1000m
Areas benefiting from flood defences	None within 1000m
Flood Water Storage Areas	None within 1000m
Flood Defences	None within 1000m
Fuel Station Entries	249m E/ Petrol filling station

Geological Hazards	
Coal Mining Affected Areas	<i>None within 1000m</i>
Non-Coal Mining Affected Areas	<i>None within 1000m</i>
Mining Instability	<i>None within 1000m</i>
Natural and Mining Cavities	<i>522m N – unknown x1</i> <i>753m N – unknown x1</i> <i>877m N – swallow hole</i> <i>898m N – sinkhole x6</i> <i>896m NW – sinkhole x1</i> <i>918m NW – swallow hole</i> <i>926m NW – sinkhole x1</i> <i>967m NW – sinkhole x1</i>
Potential For Collapsible Ground Stability Hazards	<i>On site/ Very Low</i>
Potential For Compressible Ground Stability Hazards	<i>On site/ No Hazard</i>
Potential For Ground Dissolution Stability Hazards	<i>164m NW/ Low</i> <i>210m N/ High</i>
Potential For Landslide Ground Stability Hazards	<i>On site/ Very Low</i>
Potential For Running Sand Ground Stability Hazards	<i>On site/ Very Low</i>
Potential For Shrinking or Swelling Clay Ground Stability Hazards	<i>On site/ Moderate</i>

6.2 Site Sensitivity Maps

The site sensitivity maps indicated that **no** contaminative sources were noted within 500m of the site environs.

6.3 Soils Geochemistry

The Soil Geochemistry data sets for the area indicated the soils at the site showed concentration levels below the most sensitive land use SSV, SGV OR GAC for metals: lead, arsenic, cadmium, chrome and nickel.

Section 7 Discussion

7.1 Summary

The findings of the Phase I Desk Study are summarised below:

- 1) *The 1:50 000 Geological Survey of Great Britain (England and Wales), showed the site to be located on the soils of Head Deposits, underlain by the Lambeth Group.*
- 2) *The Environment Agency Groundwater Vulnerability Map showed the site to be situated on superficial deposits with a class of **Secondary Undifferentiated Aquifer** associated with the Head Deposits. This was underlain by bedrock with a geological class of **Secondary A Aquifer**, associated with the Lambeth Group. Given the sites **High (U)** leaching potential soil classification it is not possible to dismiss groundwater or the sea as a receptor for contaminants.*
- 3) *Examination of the Environment Agency records showed the site **was** located within a Groundwater Source Protection Zone I.*
- 4) *There were **no** potable abstraction points within 2000m of the site.*
- 5) *Groundwater flow was expected to be towards the Groundwater Source Protection Zone I and abstraction borehole to the north-west.*
- 6) *The site was **not** situated within an area identified by the Environment Agency as being at risk from extreme flooding or flooding.*
- 7) *The Envirocheck data sheet showed that **no** radon protection measures were required.*
- 8) *The earliest historical map, 1868, noted the site as open land until the 1953-1954 historical map which showed two small buildings to the centre of site with an additional small structure noted to the east of site and included within the garden of a offsite residential property to the east. The 1974 historical map noted the site configuration to be altered to show one large building to the centre of site with two smaller buildings also noted to the centre and south-east boundary. Trees were noted across the site. The 1983 historical map noted the site to be open land, with the site remaining in this condition until the 2012 historical map. No contamination sources were noted onsite during the historical map review.*

The site walkover noted the site to be open land with several large mature trees across site. Evidence of possible groundworks or minor demolition were noted on site as a crushed concrete and brick rubble access strip had been laid to the eastern access road on to site. No structures were noted onsite. Pipework and empty barrels were noted onsite during the site walkover,

*including a concrete base which may have been associated with the historical structure onsite. A locked 20' storage container was noted onsite which was locked during the site walkover. The risk associated with the storage container was therefore unknown. The risk of contamination from the Made Ground and refuse noted on site were deemed **moderate**.*

- 9) *Given the anticipated groundwater flow towards the north-west, only sources to the south-east of site posed a contamination risk to site.*
- 10) *A Gravel Pit was noted approx. 250m west on the 1868 historical map but was no longer noted after 1897. The gravel pit appeared to have been backfilled and has been developed. Given the date of the backfilling, the distance from the site and the underlying geology it is considered that **no biogas risk** is posed to the site from this source.*
- 11) *As small pond was noted 250m north-east on the 1897 historical map and remains noted on the 2012 historical map. **No** contamination or biogas risk was associated with this source.*
- 12) *A small pond was noted 100m east of site on the 1897 historical map and was no longer noted on the 1932 historical map. Given the date of the backfilling, the distance from the site and the underlying geology it is considered that **no biogas risk** is posed to the site from this source.*
- 13) *Several Electrical Sub-stations were noted within 250m of the site on the 1970 historical map. Poly-chlorinated biphenols are oils used within pre 1970 sub-station. The oils are viscous and adhere to soil particles and therefore do not migrate far. Given that the substations are all over 10m away from the site and that PCB's strongly adhere to soil particles so have low mobility, there is **no** risk of PCB's being encountered onsite.*
- 14) *A timber yard was noted 200m east on the historical maps and no longer noted on the 1974 historical map. Due to the anticipated direction of groundwater flow to the north-west and the distance from site, the timber yard posed **no** contamination risk to site.*
- 15) *A Garage was noted 250m SE from site on the 1974 historical map and remained noted on the 2012 historical map. Possible contaminants associated with garages include:*
 - a. heavy metals (Ba, Cd, Cr, CU, Pb, Hg, Ni, V, Zn);*
 - b. semi-metals and non-metals (As, B, Se);*
 - c. organic compounds such as Polyaromatic Hydrocarbons (PAH), Extractable Petroleum Hydrocarbons (EPH), Volatile Organic Compounds (VOC), Semi-Volatile Organic Compounds (SVOC), BTEX.*

*The risk posed by these contaminants to the site was deemed to be **low**.*

*16) A Hydraulic manufacturers and Garage services were noted within 250m to the east of site. Due to the anticipate direction of groundwater flow to the north-west, these sources were deemed to pose **no** risk of contamination to site.*

Section 8

Sources, Pathways and Receptors

8.1 General

Within the UK contaminated land regime the test is for 'fitness for purpose' for the intended use.

A hazard is the potential to cause harm; a risk on the other hand is the likelihood of harm (in defined circumstances, and usually qualified by some statement of the severity of the harm).

For a site to be contaminated there must be satisfied linkages between the source of contamination, a migration pathway and the final receptor. An intrusive investigation is required to establish whether a site is contaminated.

Groundwater flow would be anticipated to flow towards a Groundwater Source Protection Zone I and borehole abstraction well to the north-west therefore only contamination sources onsite and to the south-east of site pose a contamination risk to site.

8.2 On-Site Potential Contamination Sources

Map evidence, study of Landmark Envirocheck Report and Site Walkover showed the following potentially contaminative activities:

Potentially Contaminative activities
Made Ground and refuse – Moderate Risk

Additional information derived from a Phase II investigation will assist in order to provide a more conclusive evaluation of the risk exposure of the underlying soils.

8.3 Off-Site Potential Contamination Sources

Map evidence, study of Landmark Envirocheck Report and Site Walkover showed the following potentially contaminative activities, below:

Potentially Contaminative activities
Garage – Low Risk

8.4 Potential Pathways

Anthropogenic (or artificial) pathways for contaminant migration can be present in the

form of land drains etc. Leaking sewage supply pipes and site drainage could also provide pathways for potential contaminant migration. Granular backfill to trenches for cables, gas pipes, water pipes etc. can also provide pathways for movement of mobile contaminants and contaminated groundwater.

The site was situated on the Head Deposits underlain by Lambeth Group: clays, silts, sands.

The soils of the Head Deposits have high permeability dependant on the clays content and **were** expected to act as a migration pathway for contaminants. The Lambeth Group were expected to have a moderate to high permeability dependant on the clays and fines content and **were** expected to act as a migration pathway for contaminants.

The potential pathways on-site and off-site are presented below:

On-site contamination pathways

Human Health

- Ingestion of soil;
- Dermal contact;
- Inhalation of dust;
- Inhalation of vapour;
- Consumption of home grown vegetables and attached soil.

Building Materials

- Location of service supply pipes in contaminated soils;
- Direct contact of concrete to high-sulphate soils.
- Explosions in confined spaces

Off-site contamination pathways

- Migration downwards via the leaching through underlying soils from other offsite sources.
- Migration via natural soils into site from offsite sources.

8.5 Potential Receptors

The source-pathway-receptor framework was used to assess potential risks posed by identified plausible pollutant linkages.

The sources and pathways were as identified in the Conceptual Site Model whilst the receptors comprised demolition/construction workers, service maintenance workers, future site occupiers, building materials and services and were selected to represent those receptors to which harm could be posed.

The potential receptors are presented below and comprise:

- End users of the site;
 - Site operatives during demolition and redevelopment;
 - Maintenance workers;
 - Building materials and services;
 - Buildings and confined spaces (Explosion etc.);
 - Groundwater and Controlled Waters;
 - Site Neighbours and the wider public.
-

Section 9

Conceptual Model

9.1 Tabulated Conceptual Model

Information obtained regarding the former use of the site and surrounding area was used to develop a conceptual model.

In order for any part of this conceptual model to be realised a source, pathway and receptor link must be in place and unbroken.

The Conceptual Site Model (CSM) is presented on the table below.

Conceptual Site Model			
On-site Potential Sources	Potential Migration Pathway	Potential Absorption Pathway	Potential Receptor
MADE GROUND AND REFUSE: MODERATE RISK	Via anthropogenic pathways such as service trenches	Ingestion of soil Dermal contact Inhalation of dust Inhalation of vapour	Construction workers (particularly during foundation construction) Service and Maintenance Operatives, especially in confined spaces
Off-site Potential Sources	Via porous ground or anthropogenic pathways (services), accumulating in new buildings	Consumption of home grown vegetables and attached soil	Site Occupiers/Buildings Site Neighbours and the wider public
GARAGES SERVICES: LOW RISK	Via Groundwater	Location of service supply pipes in contaminated soils Migration via Groundwater	Building materials Buildings and confined spaces (Risk of explosion etc.) Groundwater

The intrusive investigation may reveal on site sources of contamination that were not established by the Phase I Desk Study and Site Walkover that could modify the Conceptual Site Model.

Section 10 Recommendations

10.1 General

Based on the information obtained during the Phase I Desk Study and the conceptual site model derived for the site, an intrusive contaminated land investigation is recommended to be undertaken to determine the concentration of contaminants within the soil which may impact identified receptors if pathways are found.

An intrusive investigation may reveal on-site sources of contamination that were not established by the Phase I Desk Study and Site Walkover and thus require modification of the conceptual model.

10.2 Identification of Satisfied Pollutant Linkages

In order to show which of the scenarios in the Conceptual Site Model constituted satisfied pollutant linkages, a risk assessment using data from an intrusive investigation will be conducted.

10.3 Proposed Site Works

The combined geotechnical and Phase 2 Intrusive Investigation planned to obtain information regarding the following:

- 1) To investigate and assess linkages identified by the Conceptual Site Model.
- 2) Obtain data regarding engineering properties of the soils to enable the design of foundations, pavements and drainage.

The works to be undertaken on the site would comprise the following:

- 1) Drilling boreholes with windowless sampler or percussion drilling rig at selected locations within the site

10.4 Discovery Strategy

There may be areas of contamination not identified during the course of the intrusive investigation. Such occurrences may also be discovered during the demolition and construction phases for the redevelopment of the site.

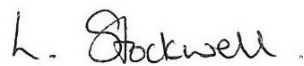
Groundworkers should be instructed to report to the Site Manager any evidence for such contamination; this may comprise visual indicators, such as fibrous materials within the soil; discolouration, or odours and emission. Upon discovery, advice must be taken from a suitably qualified person before proceeding, such that appropriate remedial measures and health and safety protection may be applied.

Should a new source of contamination be suspected or identified then works should be suspended in the area of the site and the Engineer and if appropriate the Local Authority must be informed.

The following figures and appendices complete this report:

Figure 1 Site Location Map

Appendix A: Envirocheck Historical Maps
Appendix B Landmark Envirocheck Report
Appendix C: Site Sensitivity Maps
Appendix D: Site Photographs



Lucy Stockwell B.Sc. (Hons)
Geoenvironmental Engineer



Eur Ing. R. B. Higginson B.Sc., PG. Dip., C.Eng. MICE, FGS.
Director and Geotechnical Advisor



PROJECT:	DATE:	 <i>Geotechnical & Environmental Consultants</i>
Land to the rear of 20 Forest Avenue, Cowplain, Hampshire, PO8 8JD	October 2011	
CLIENT:	SCALE:	
Debtorbook Solutions	Not to scale	
TITLE:	REF:	
Figure 1: Location Plan	12282	

Appendix A

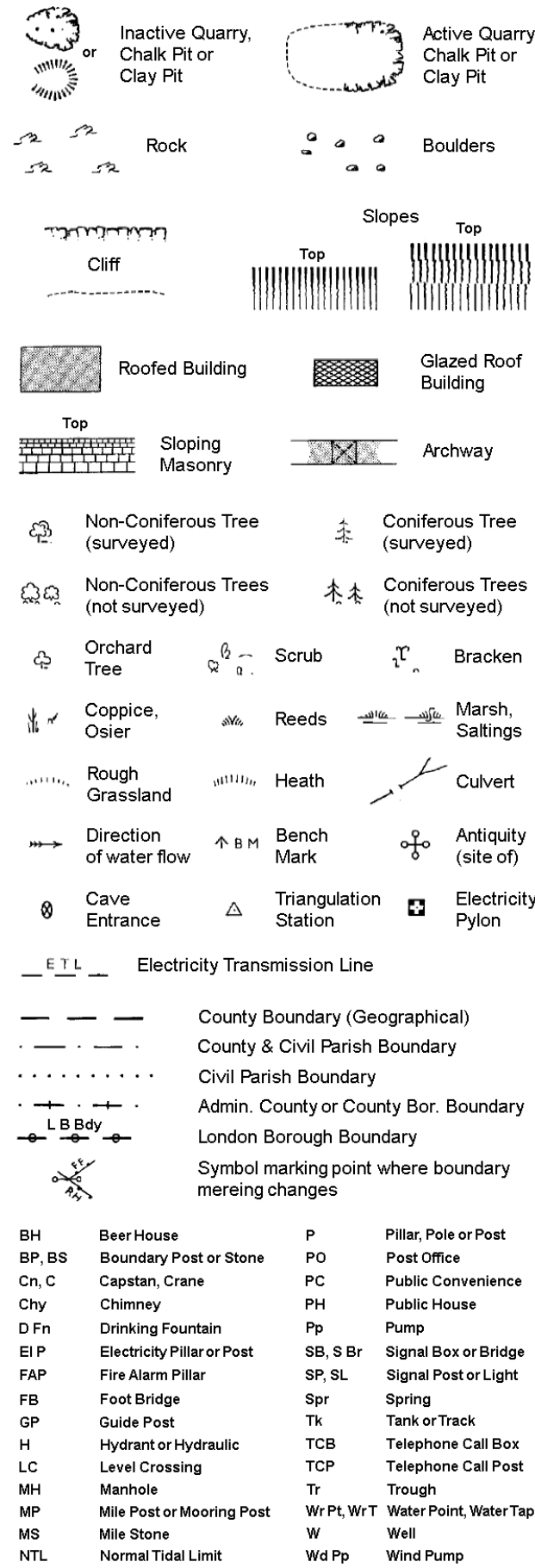
Landmark Historical Maps

Historical Mapping Legends

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



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



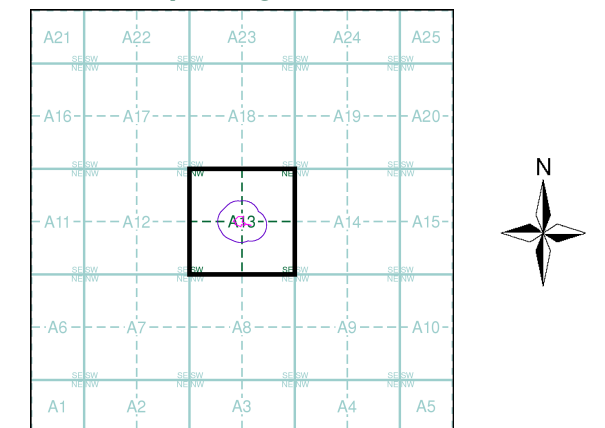
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hampshire & Isle Of Wight	1:2,500	1868 - 1878	2
Hampshire & Isle Of Wight	1:2,500	1868	3
Hampshire & Isle Of Wight	1:2,500	1897	4
Hampshire & Isle Of Wight	1:2,500	1909	5
Hampshire & Isle Of Wight	1:2,500	1932	6
Ordnance Survey Plan	1:2,500	1953 - 1954	7
Ordnance Survey Plan	1:2,500	1959 - 1960	8
Ordnance Survey Plan	1:2,500	1970	9
Ordnance Survey Plan	1:1,250	1974	10
Ordnance Survey Plan	1:1,250	1976	11
Additional SIMs	1:1,250	1977 - 1987	12
Additional SIMs	1:1,250	1980 - 1989	13
Additional SIMs	1:1,250	1989	14
Large-Scale National Grid Data	1:1,250	1993	15

Historical Map - Segment A13



Order Details

Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



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

Hampshire & Isle Of Wight

Published 1868 - 1878

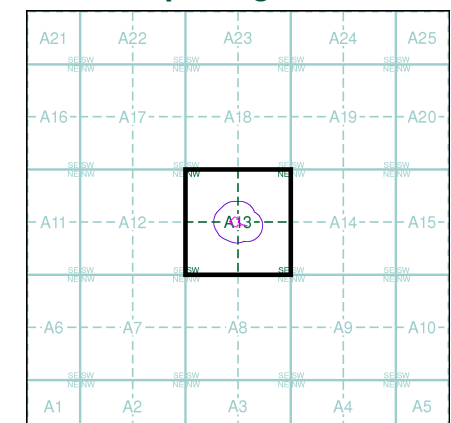
Source map scale - 1:2,500

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)

068_10 1868 1:2,500
068_14 1878 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
PO8 8JD

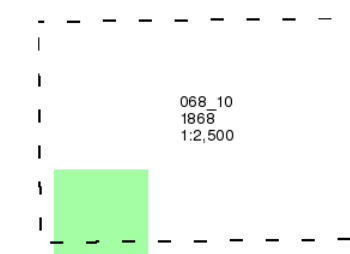
Hampshire & Isle Of Wight

Published 1868

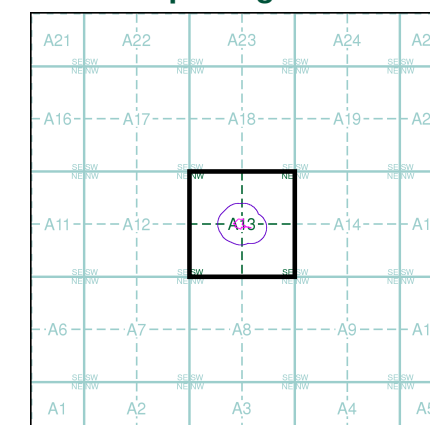
Source map scale - 1:2,500

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

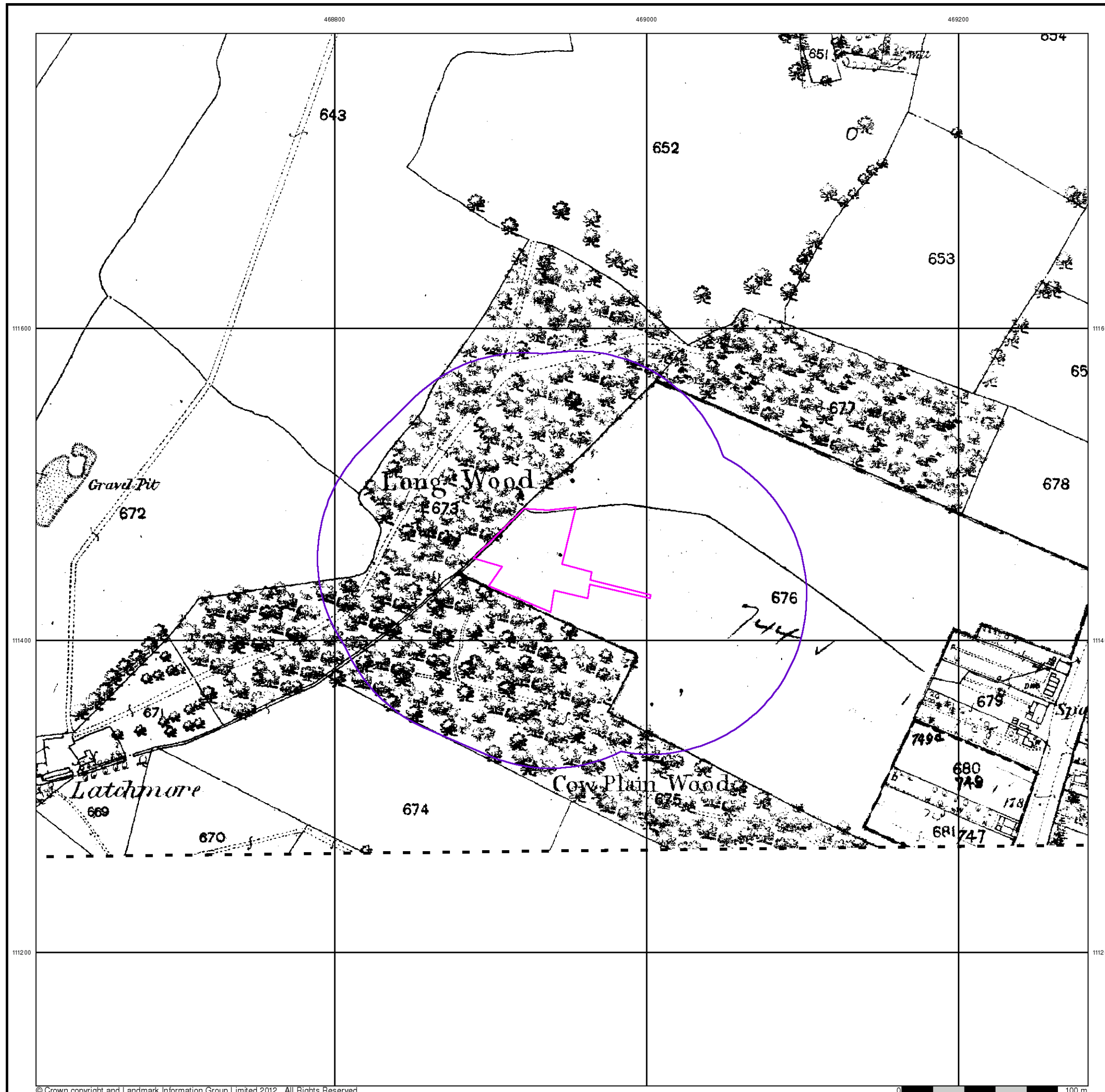


Order Details

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Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



Hampshire & Isle Of Wight

Published 1897

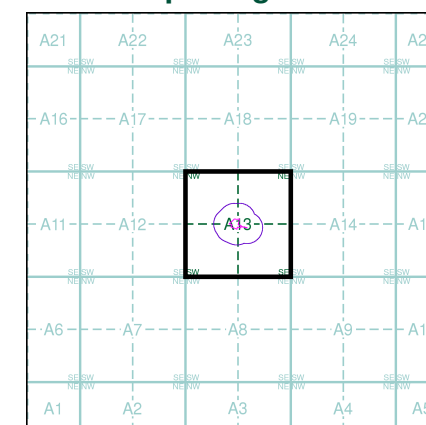
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Map Name(s) and Date(s)

068_10
1897
1:2,500
068_14
1897
1:2,500

Historical Map - Segment A13

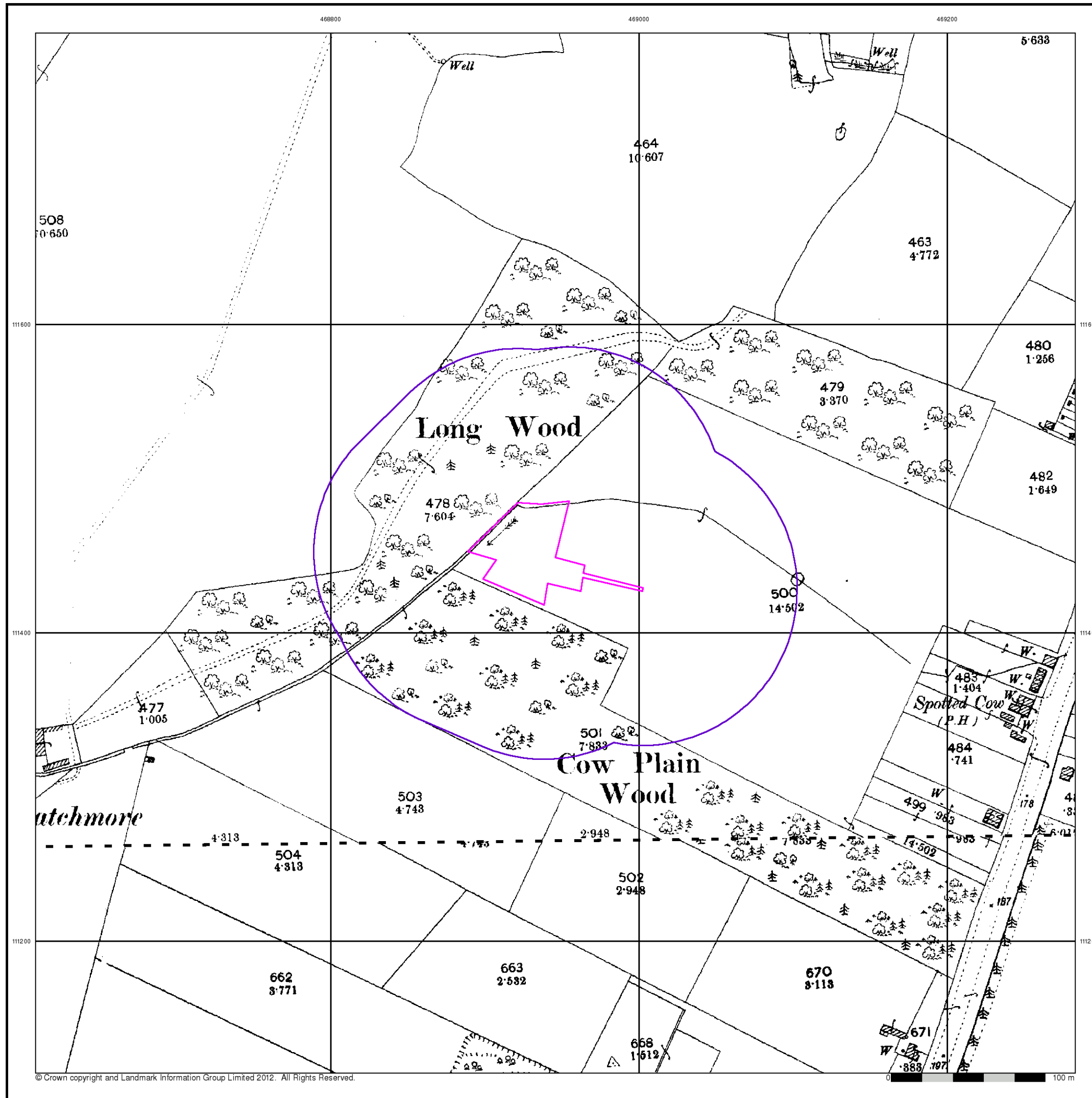


Order Details

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 National Grid Reference: 468950, 111450
 Slice: A
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Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



Hampshire & Isle Of Wight

Published 1909

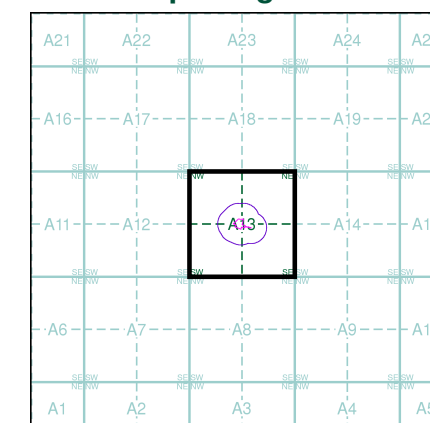
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Map Name(s) and Date(s)

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068_14	1909	1:2,500

Historical Map - Segment A13

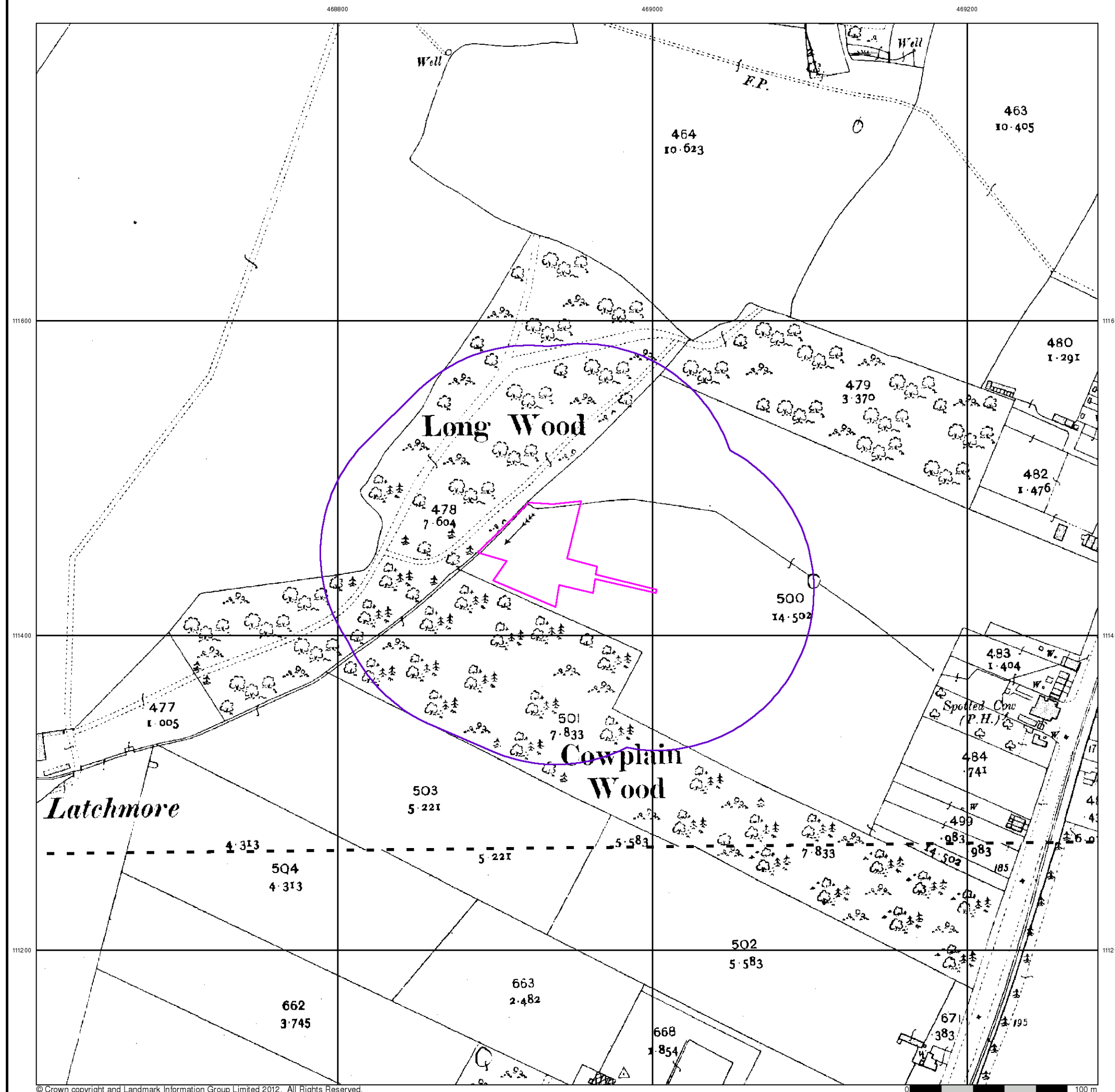


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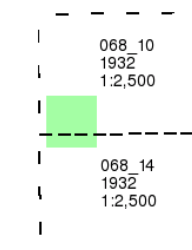
Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD

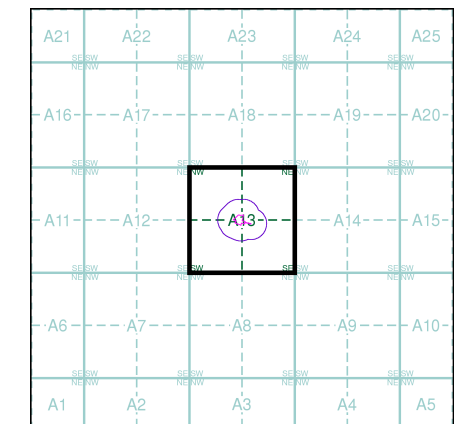




Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Customer Ref:	13283
National Grid Reference:	468950, 111450
Slice:	A
Site Area (Ha):	0.31
Search Buffer (m):	100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
PO8 8JD



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

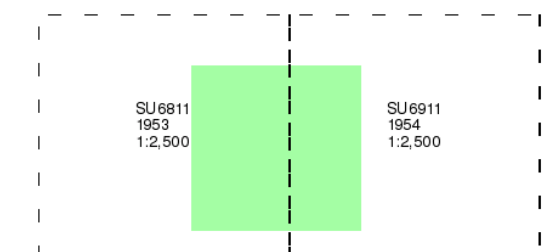
Ordnance Survey Plan

Published 1953 - 1954

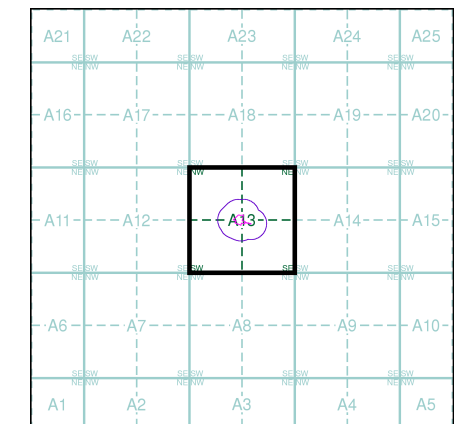
Source map scale - 1:2,500

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

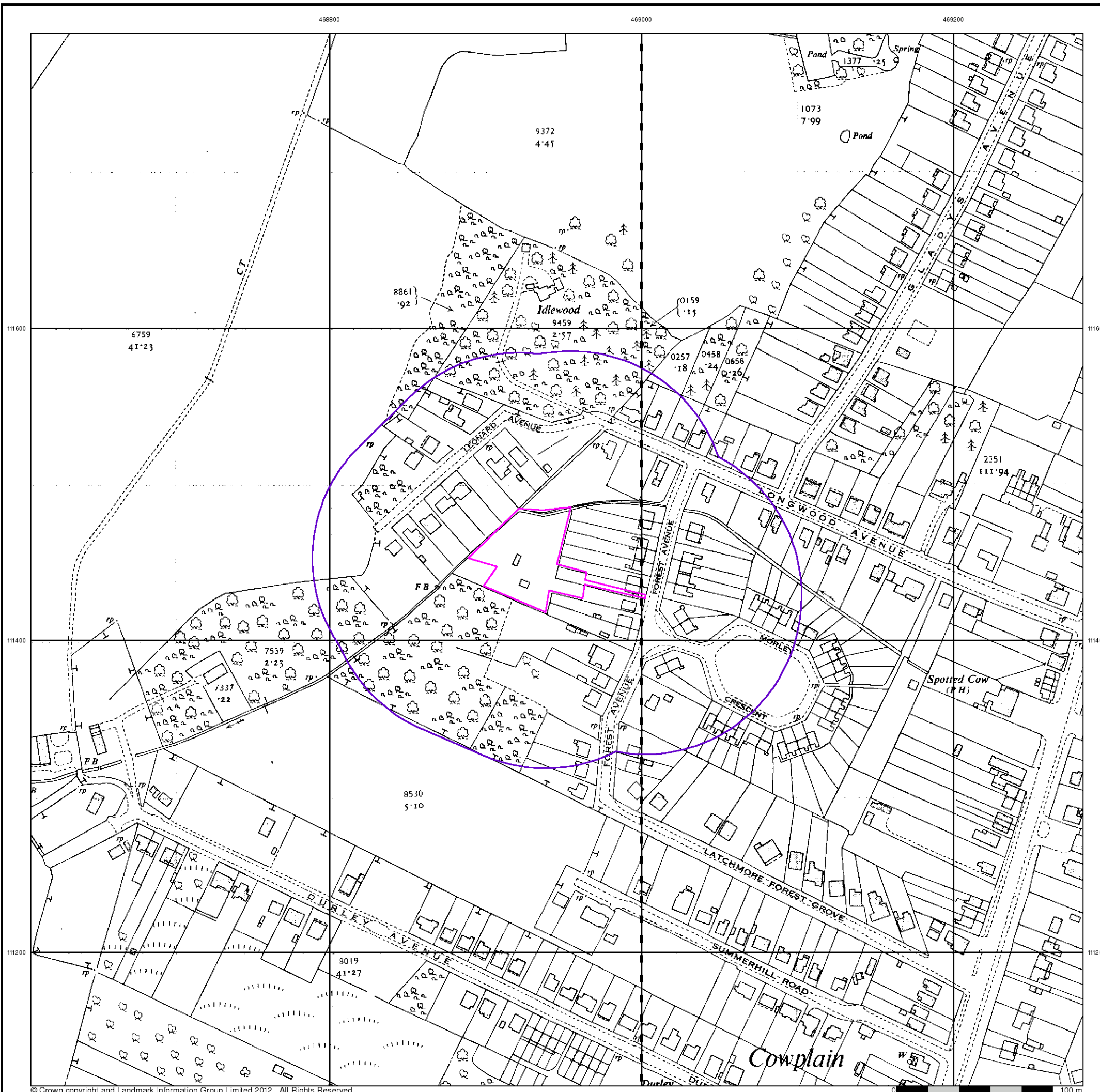


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Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



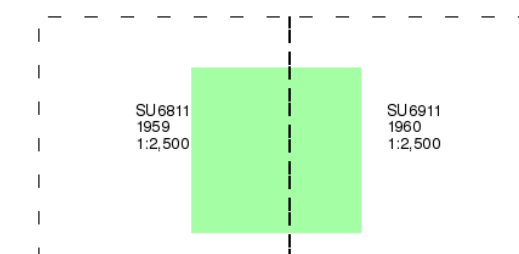
Ordnance Survey Plan

Published 1959 - 1960

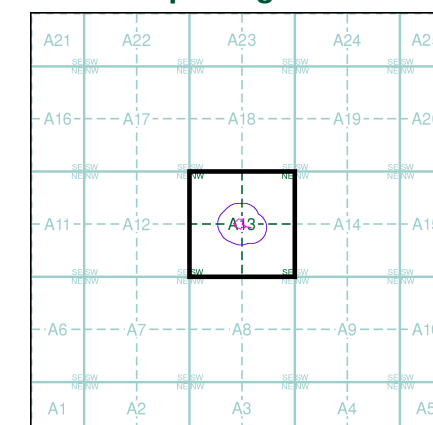
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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

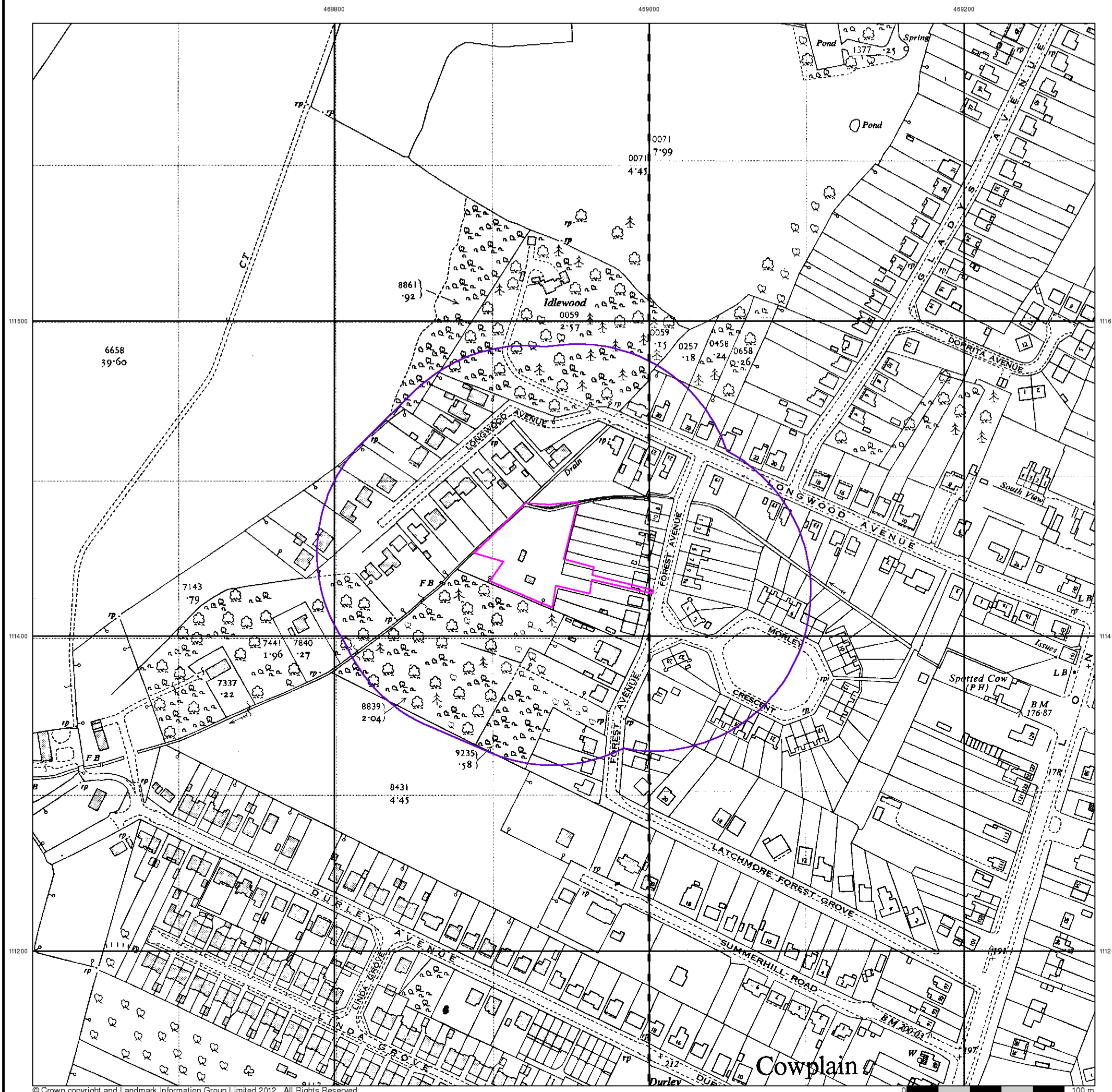


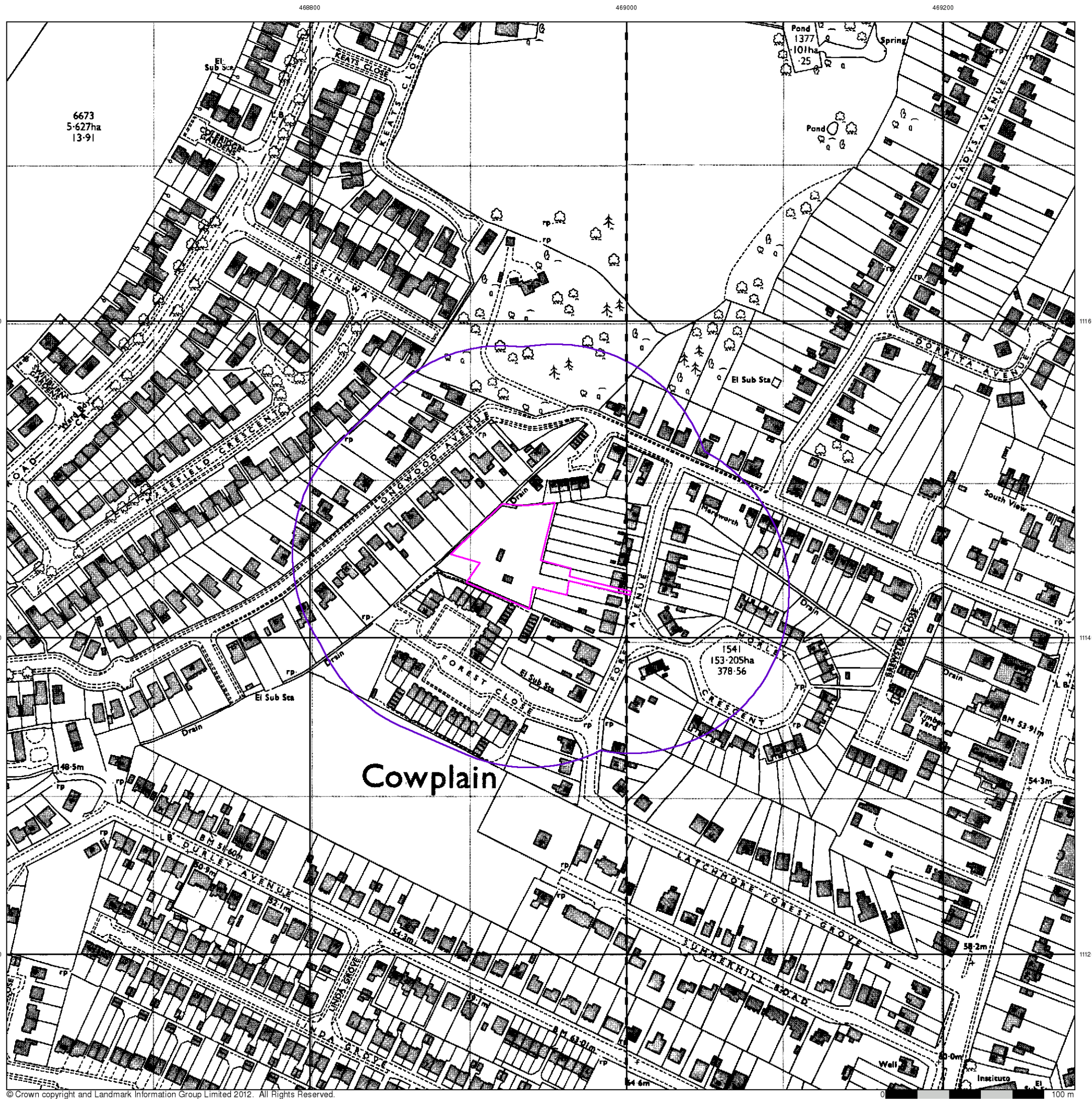
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Site Details

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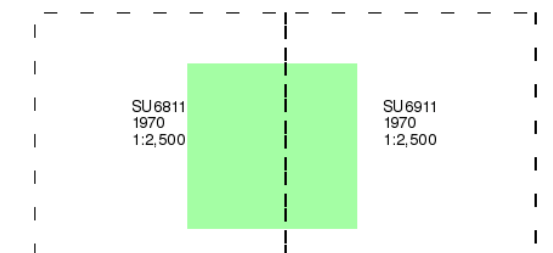
Ordnance Survey Plan

Published 1970

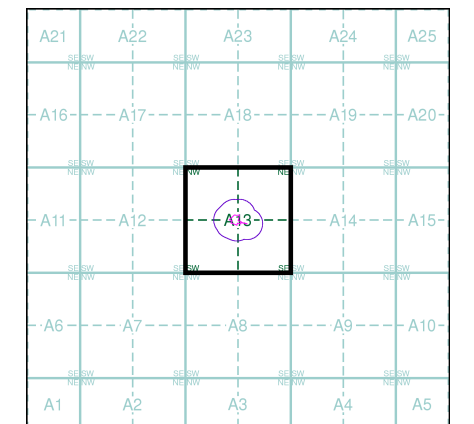
Source map scale - 1:2,500

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



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

Ordnance Survey Plan

Published 1974

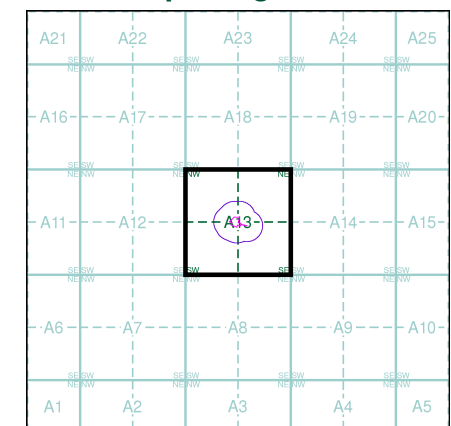
Source map scale - 1:1,250

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Map Name(s) and Date(s)

SU6811NE 1974 1:1,250	SU6911NW 1974 1:1,250
SU6811SE 1974 1:1,250	SU6911SW 1974 1:1,250

Historical Map - Segment A13

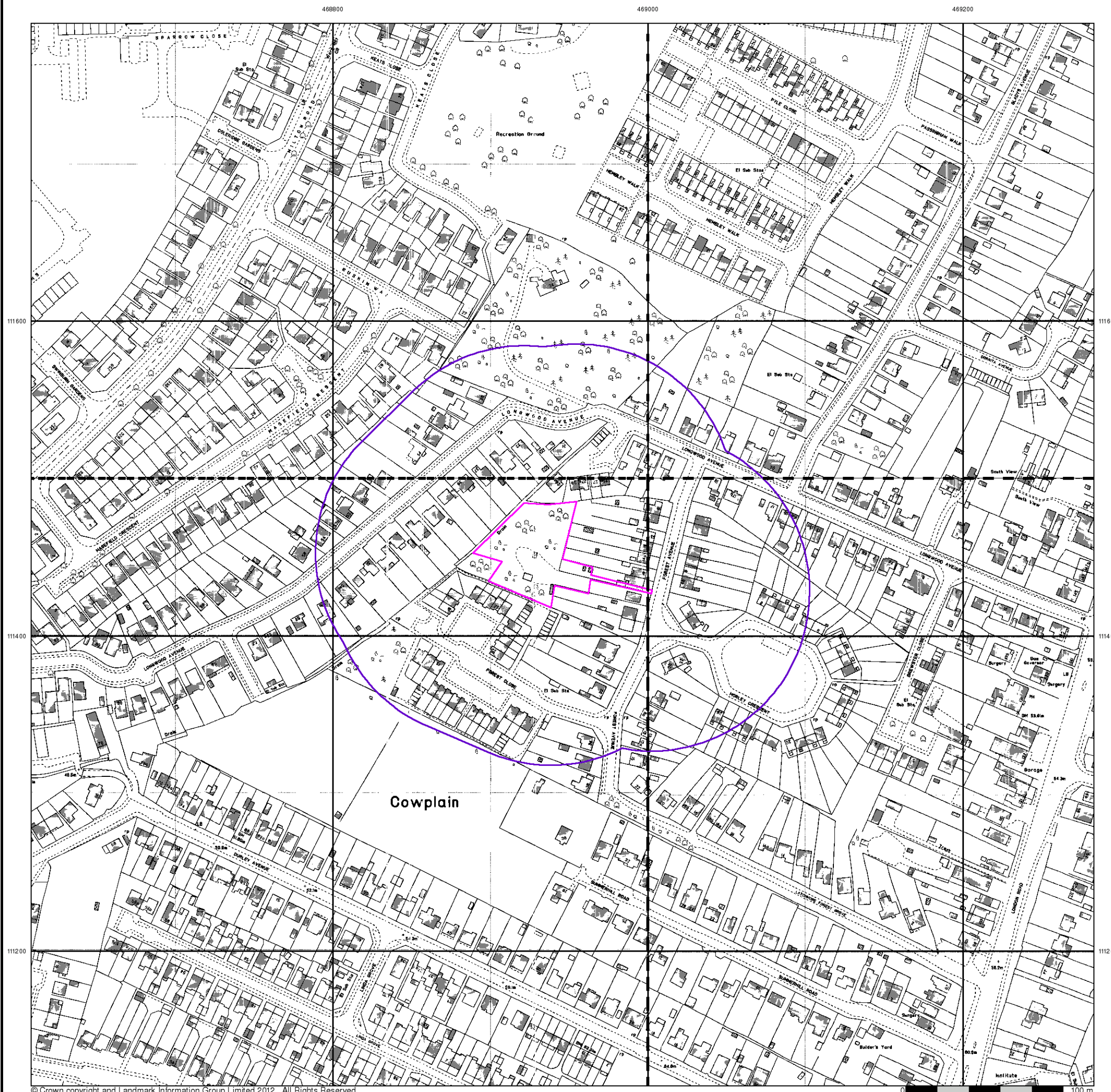


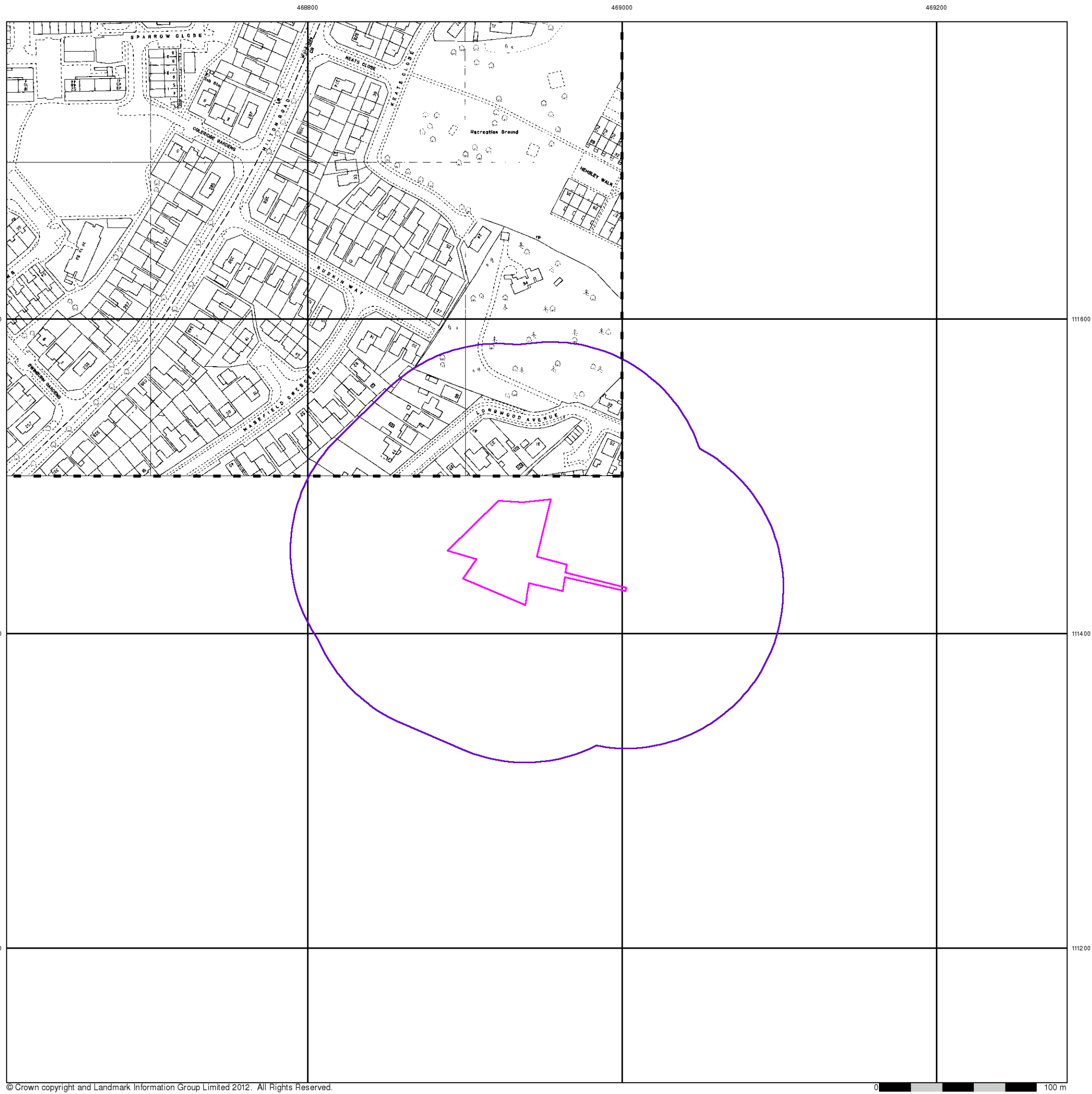
Order Details

Order Number: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
 PO8 8JD





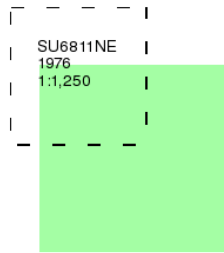
Ordnance Survey Plan

Published 1976

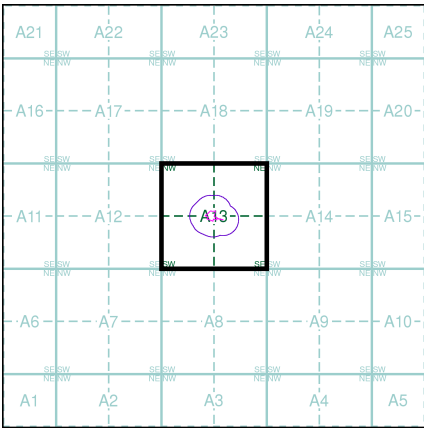
Source map scale - 1:1,250

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: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



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

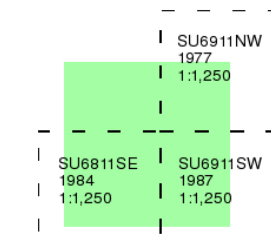
Additional SIMs

Published 1977 - 1987

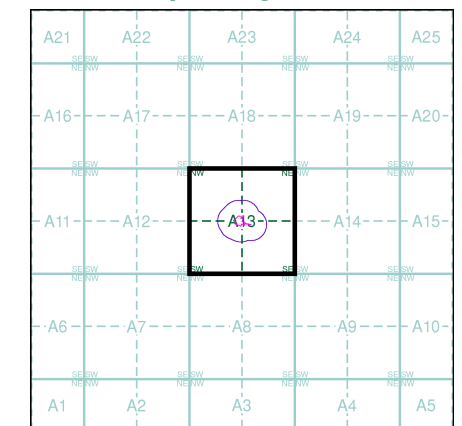
Source map scale - 1:1,250

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)



Historical Map - Segment A13

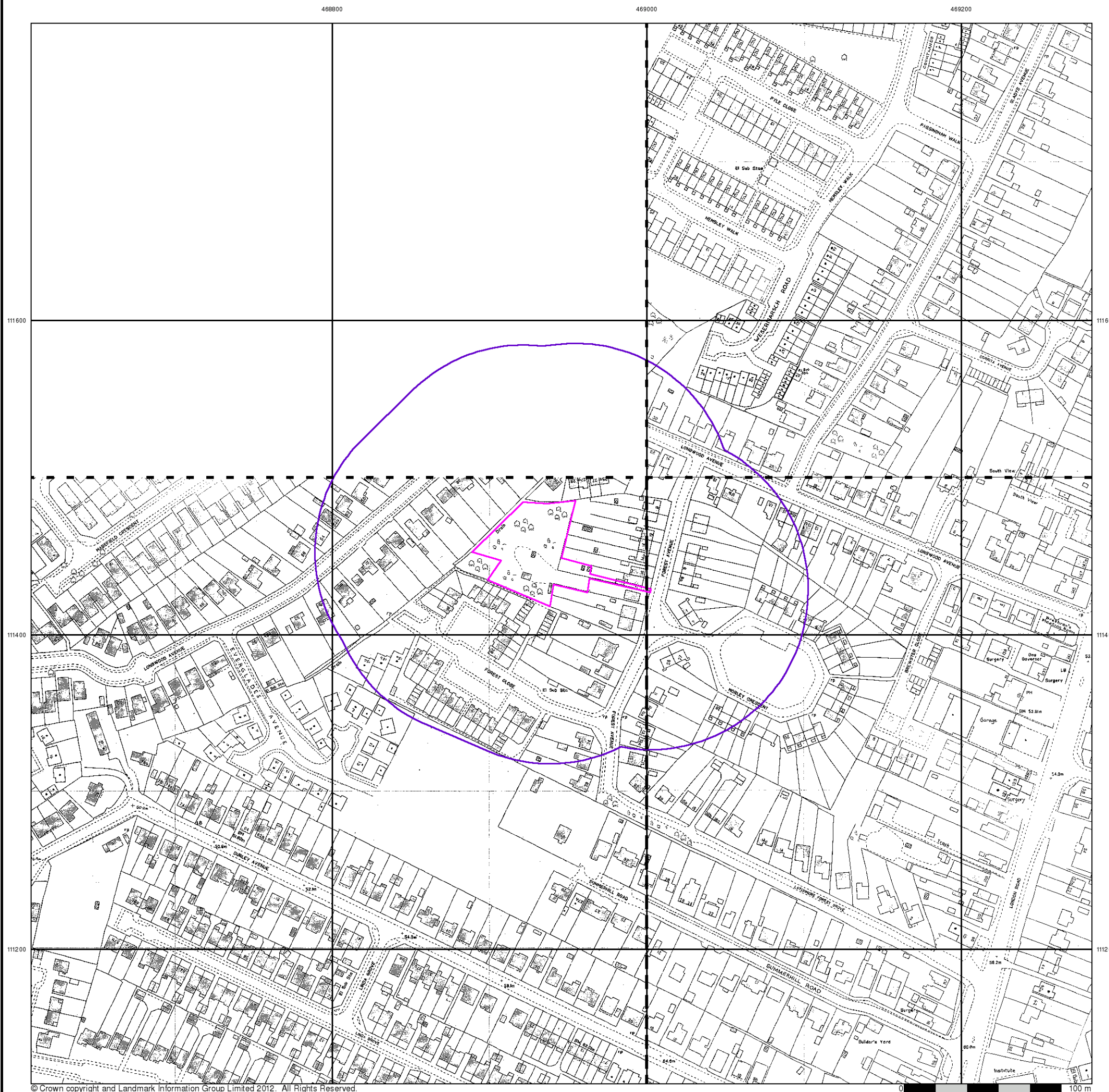


Order Details

Order Number: 42112870_1_1
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Site Details

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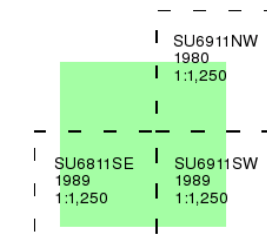
Additional SIMs

Published 1980 - 1989

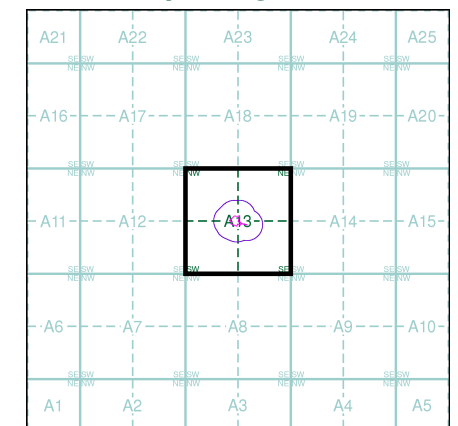
Source map scale - 1:1,250

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)



Historical Map - Segment A13

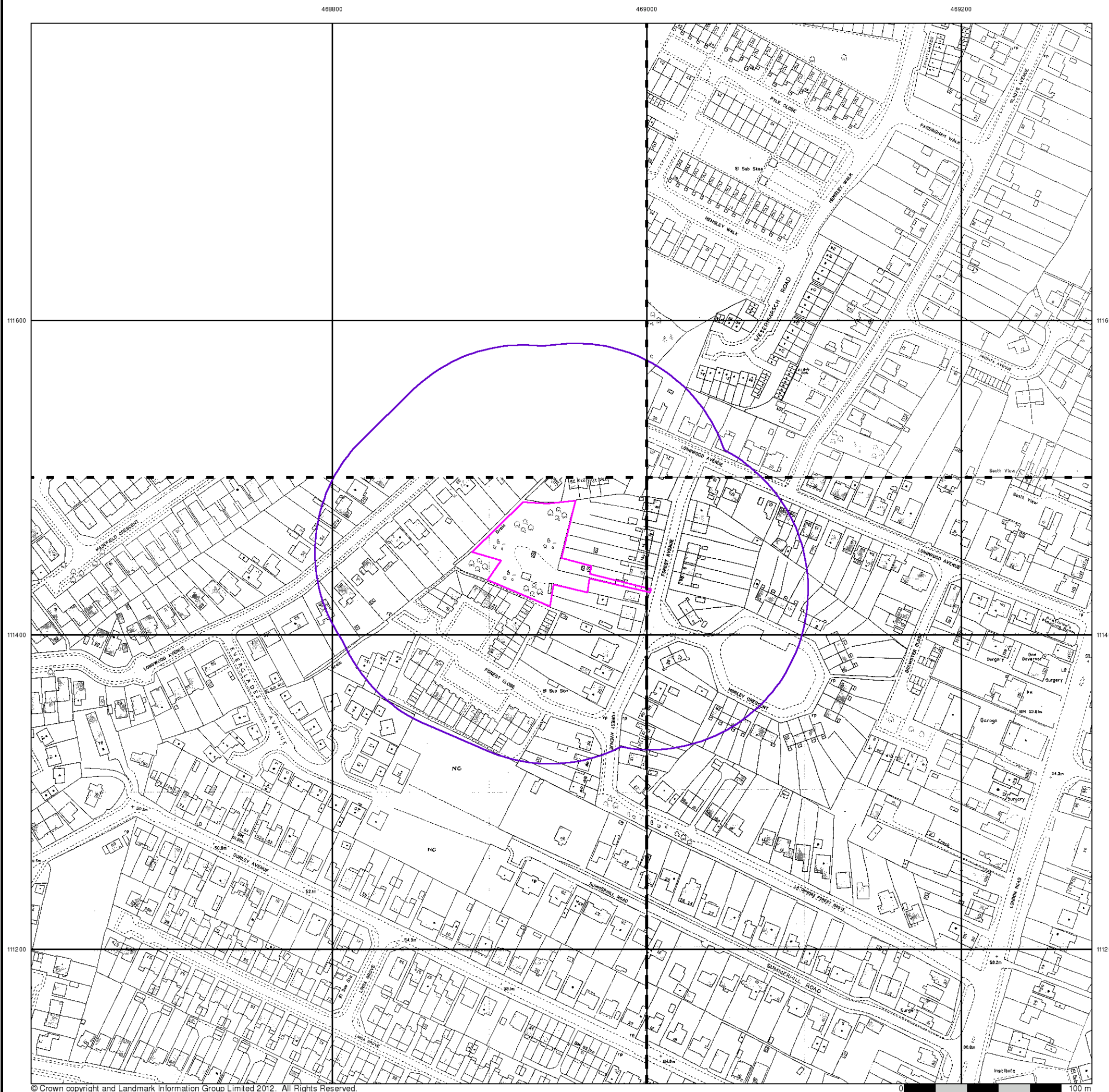


Order Details

Order Number: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



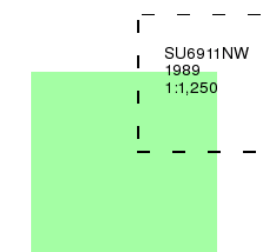
Additional SIMs

Published 1989

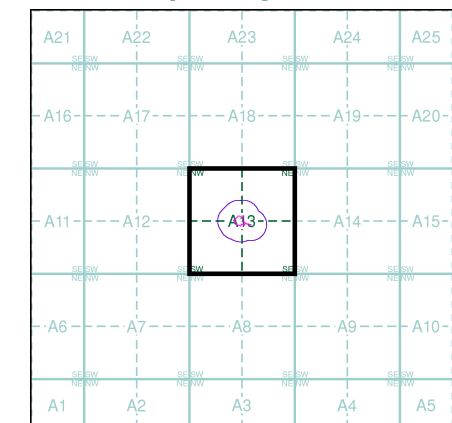
Source map scale - 1:1,250

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)



Historical Map - Segment A13

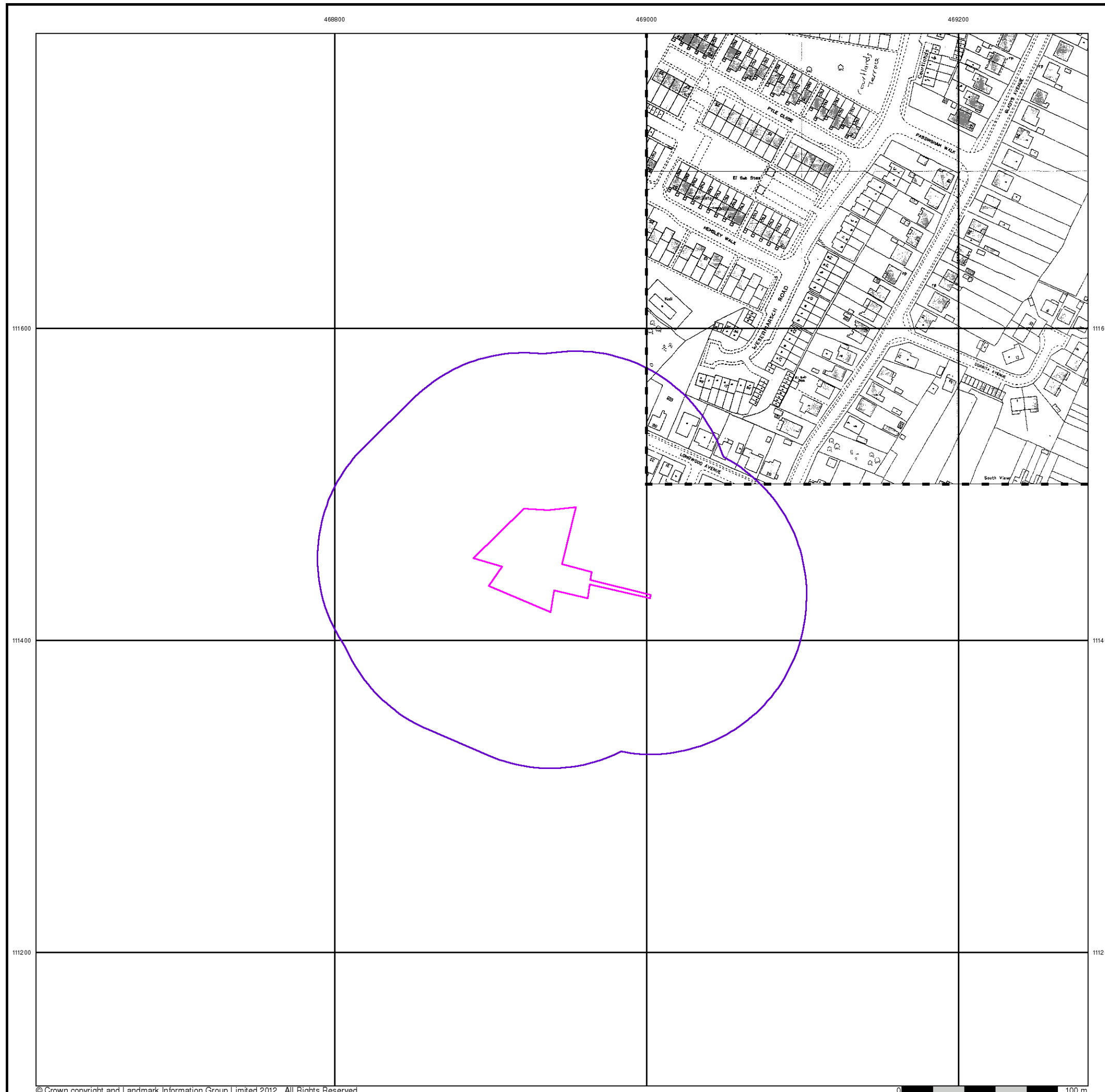


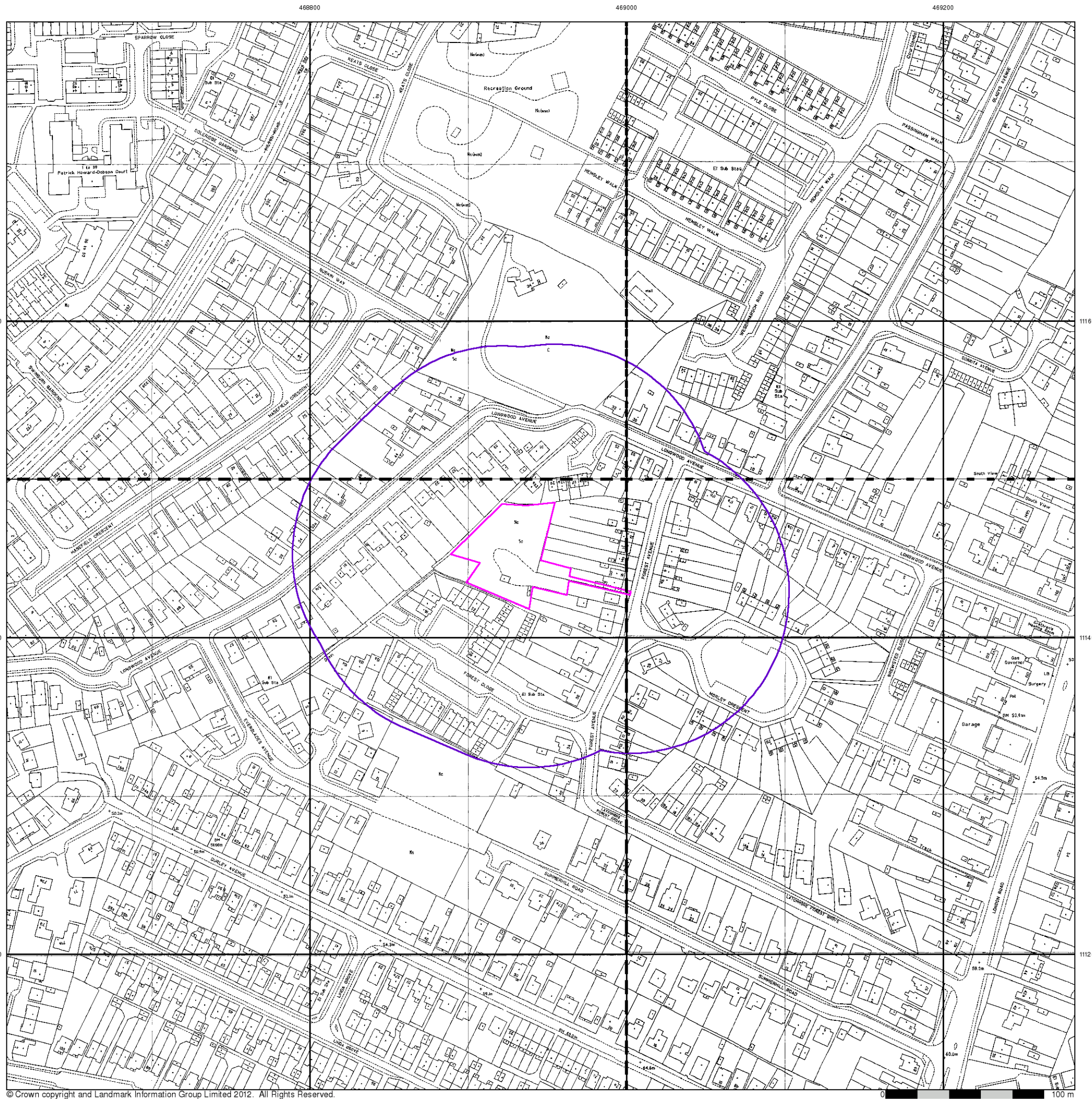
Order Details

Order Number: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD





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Large-Scale National Grid Data

Published 1993

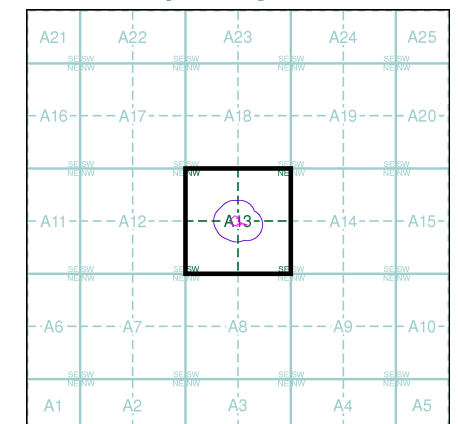
Source map scale - 1:1,250

'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)

SU6811NE 1993 1:1,250	SU6911NW 1993 1:1,250
SU6811SE 1993 1:1,250	SU6911SW 1993 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 100

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
PO8 8JD



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

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
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	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
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

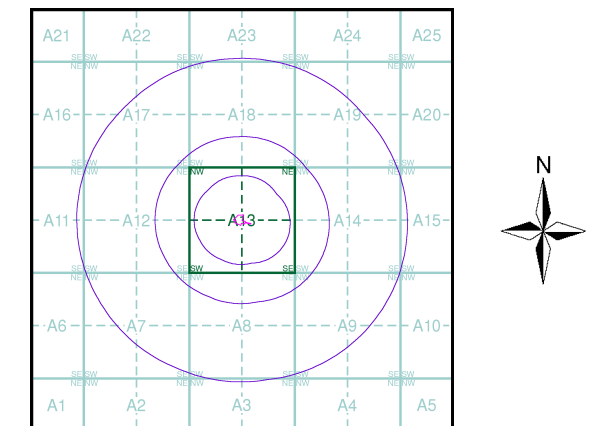
1:10,000 Raster Mapping

	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
	Mean high water (springs)		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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hampshire & Isle Of Wight	1:10,560	1870	3
Hampshire & Isle Of Wight	1:10,560	1897	4
Hampshire & Isle Of Wight	1:10,560	1910	5
Hampshire & Isle Of Wight	1:10,560	1933	6
Hampshire & Isle Of Wight	1:10,560	1942	7
Historical Aerial Photography	1:10,560	1947	8
Ordnance Survey Plan	1:10,000	1962	9
Ordnance Survey Plan	1:10,000	1980 - 1982	10
Havant	1:25,000	1983	11
Ordnance Survey Plan	1:10,000	1992	12
10K Raster Mapping	1:10,000	2006	13
10K Raster Mapping	1:10,000	2012	14

Historical Map - Slice A



Order Details

Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

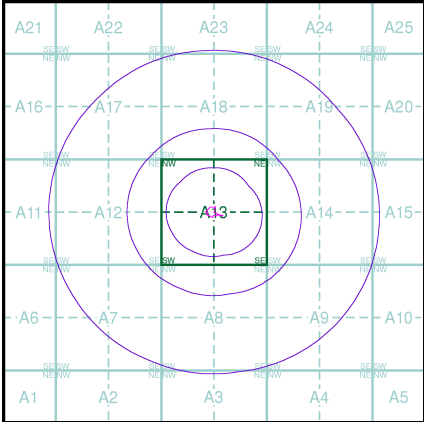
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hampshire & Isle Of Wight	1:10,560	1870	3
Hampshire & Isle Of Wight	1:10,560	1897	4
Hampshire & Isle Of Wight	1:10,560	1910	5
Hampshire & Isle Of Wight	1:10,560	1933	6
Hampshire & Isle Of Wight	1:10,560	1942	7
Historical Aerial Photography	1:10,560	1947	8
Ordnance Survey Plan	1:10,000	1962	9
Ordnance Survey Plan	1:10,000	1980 - 1982	10
Havant	1:25,000	1983	11
Ordnance Survey Plan	1:10,000	1992	12
10K Raster Mapping	1:10,000	2006	13
10K Raster Mapping	1:10,000	2012	14

Russian Map - Slice A



Order Details

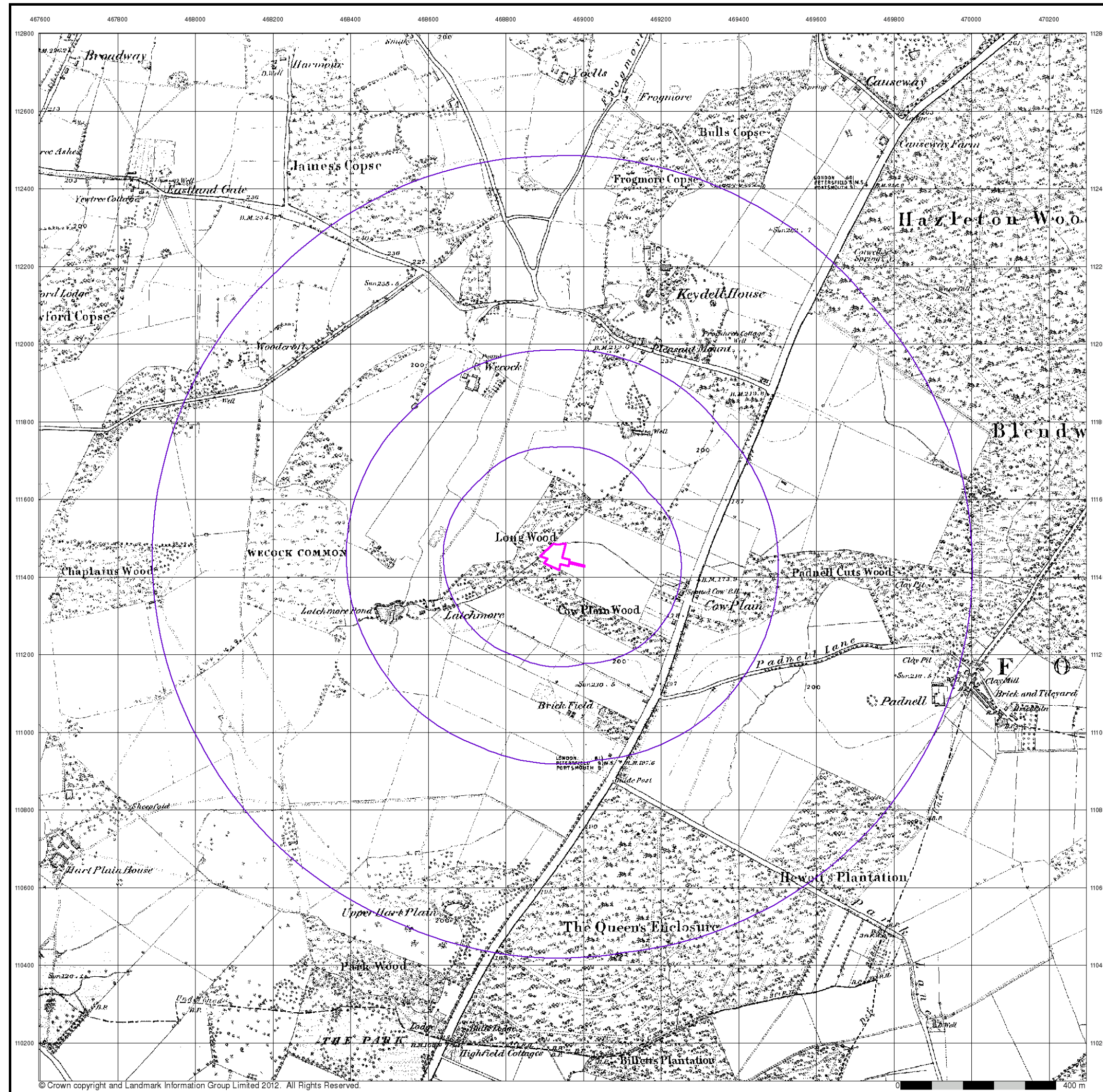
Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



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



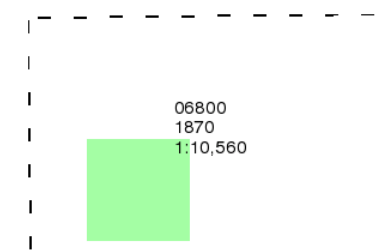
Hampshire & Isle Of Wight

Published 1870

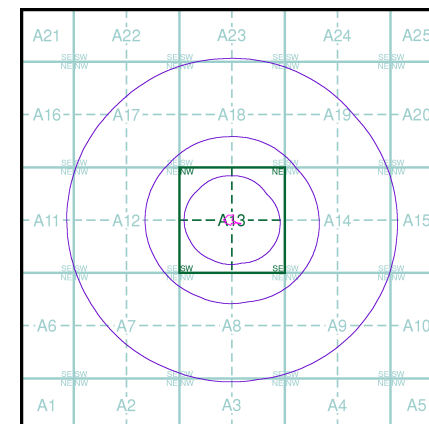
Source map scale - 1:10,560

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: 42112870_1_1
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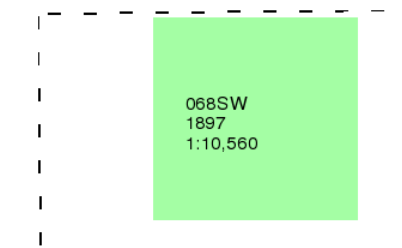
Hampshire & Isle Of Wight

Published 1897

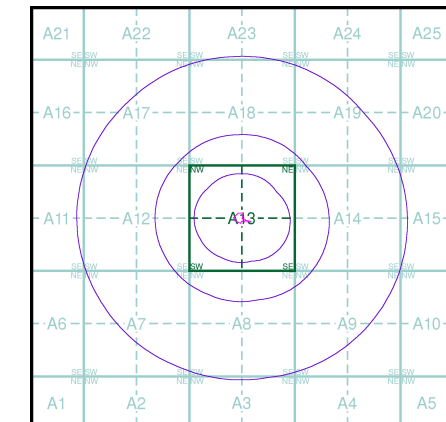
Source map scale - 1:10,560

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

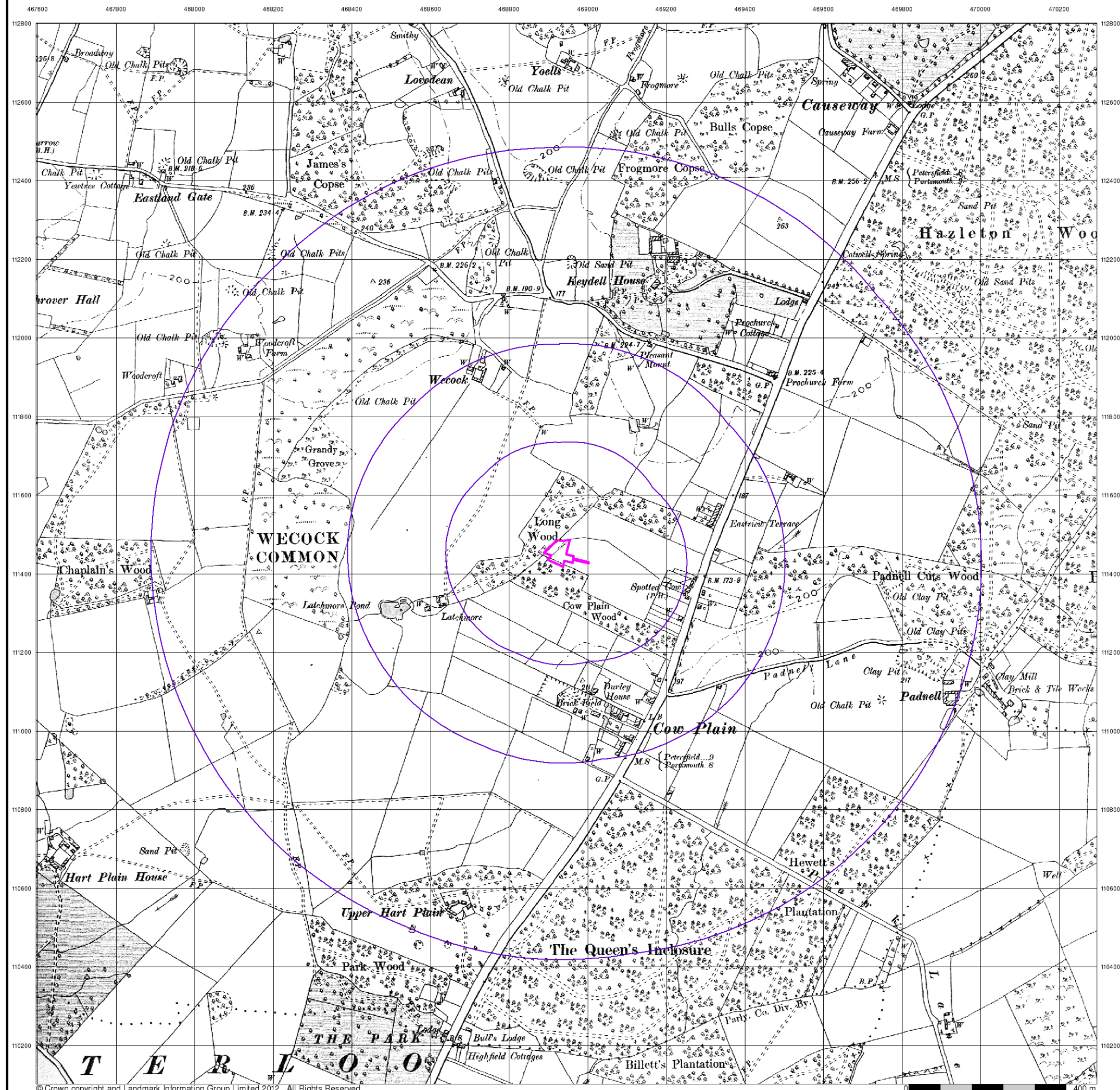


Order Details

Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
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20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



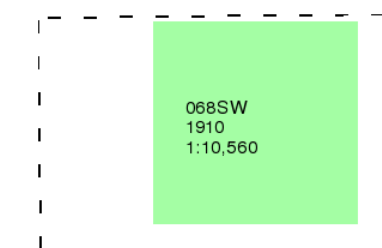
Hampshire & Isle Of Wight

Published 1910

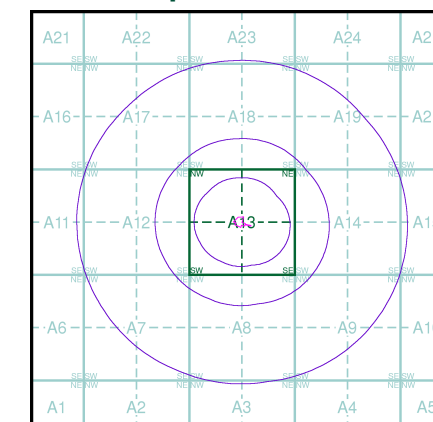
Source map scale - 1:10,560

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

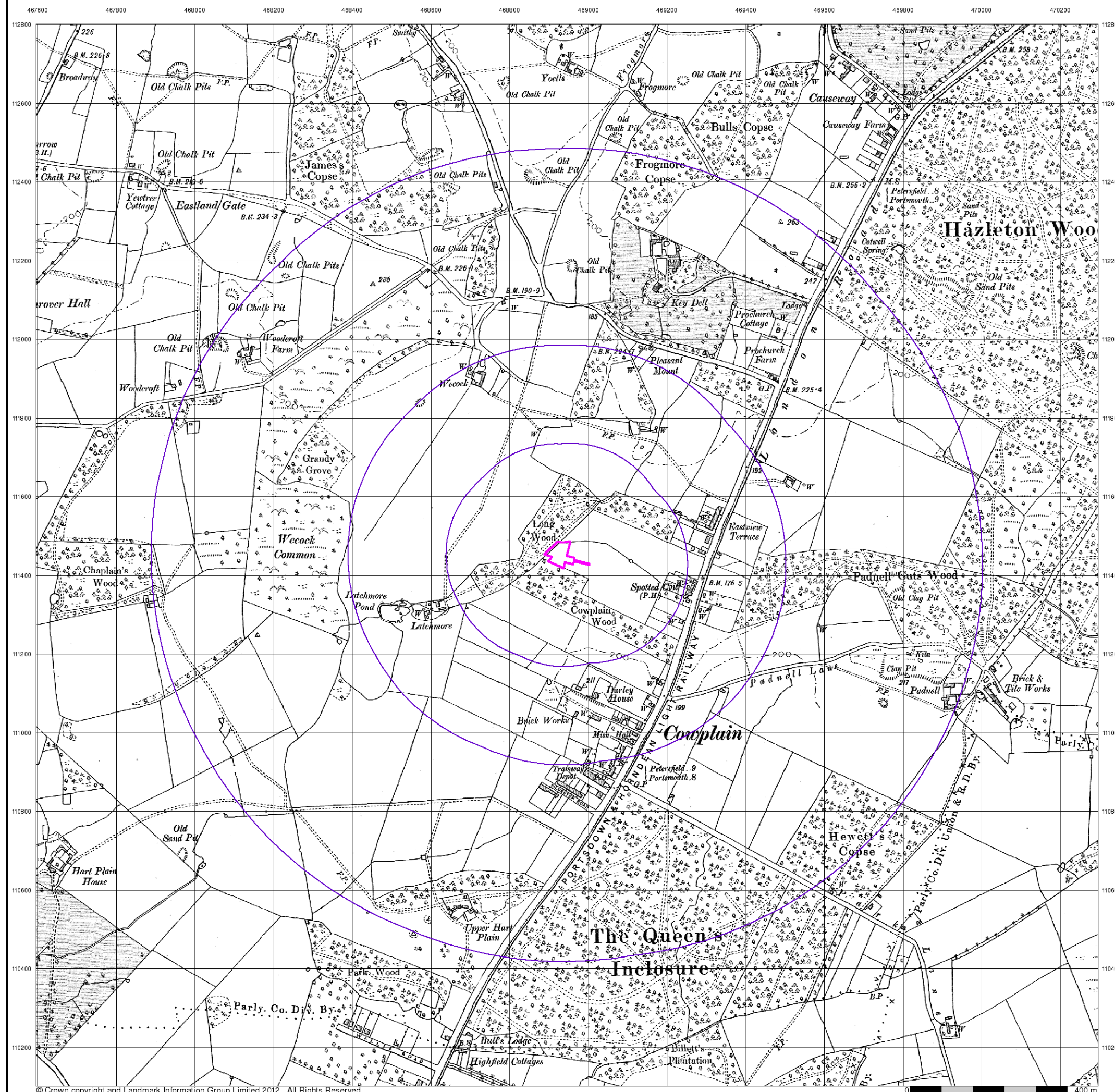


Order Details

Order Number: 42112870_1_1
 Customer Ref: 13283
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 Slice: A
 Site Area (Ha): 0.31
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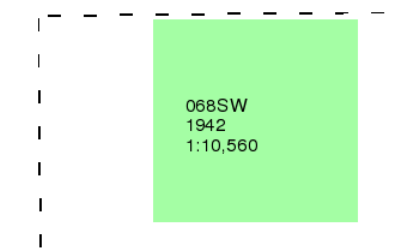
Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
 PO8 8JD

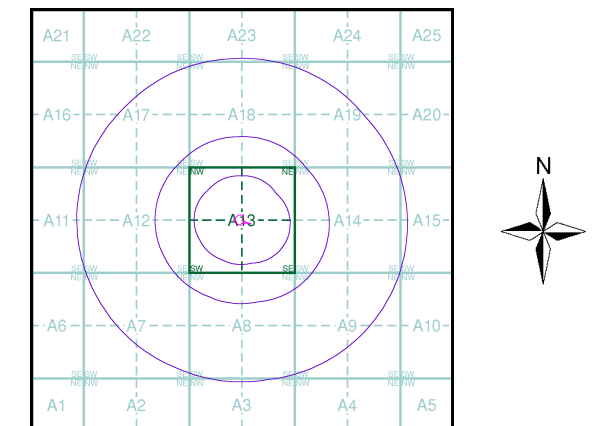




Map Name(s) and Date(s)



Historical Map - Slice A



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Historical Aerial Photography

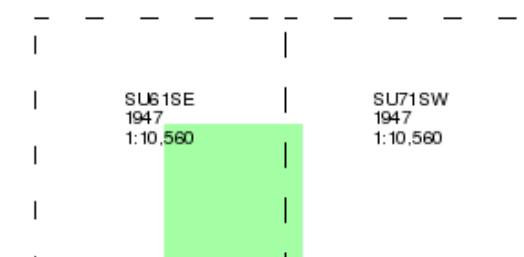
Published 1947

Source map scale - 1:10,560

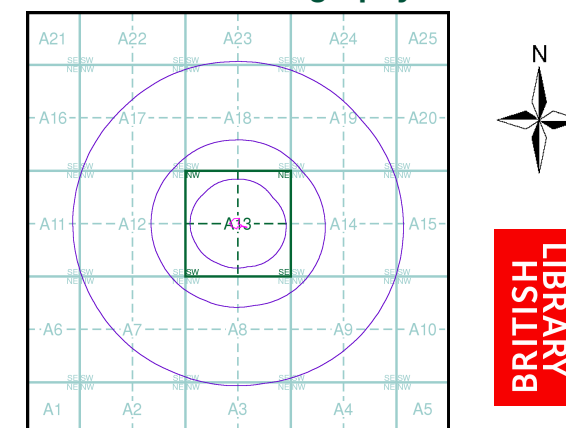
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A

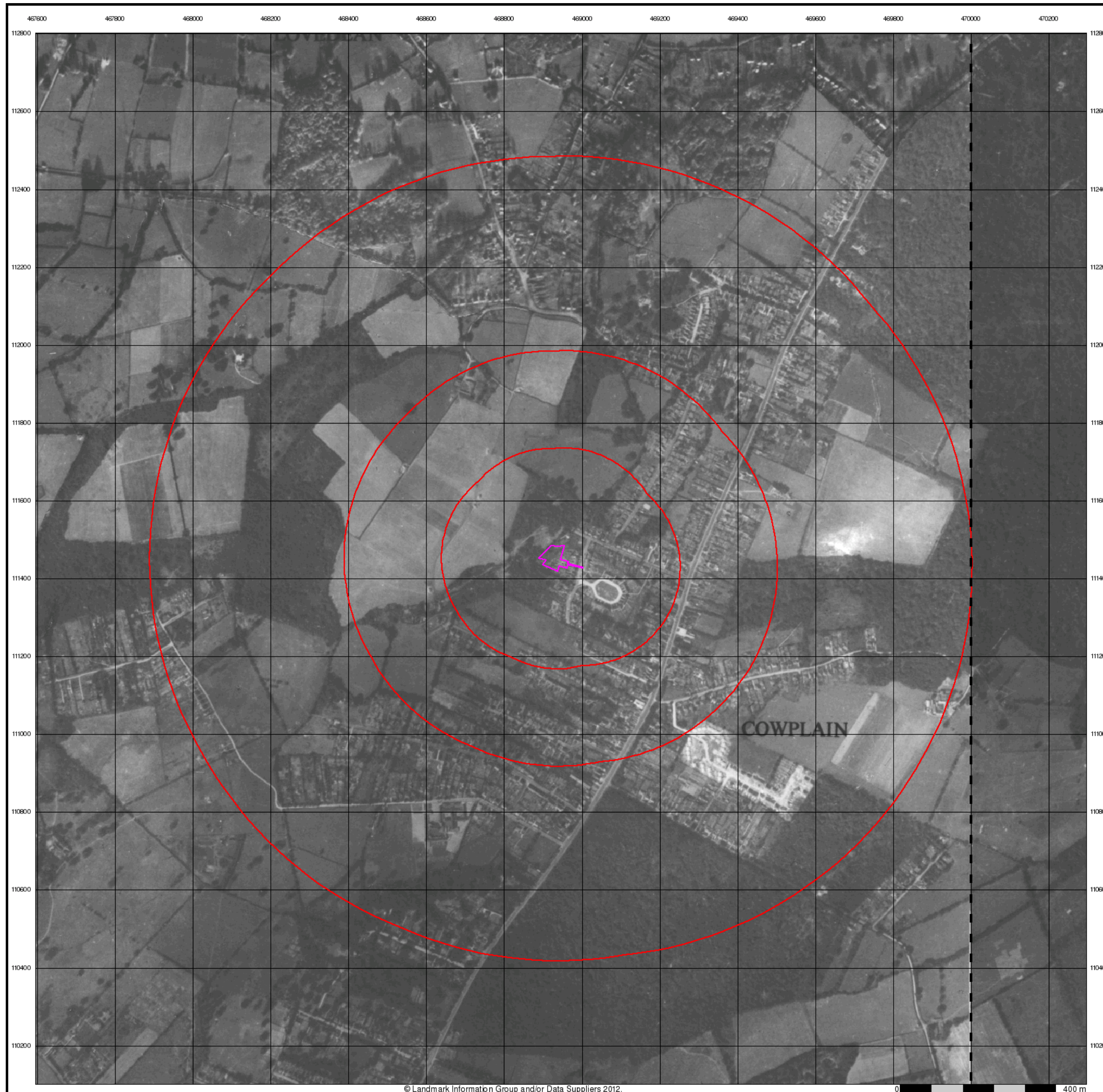


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Site Details

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PO8 8JD



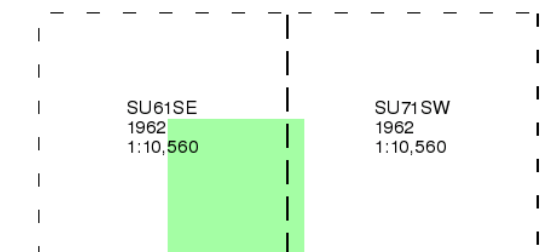
Ordnance Survey Plan

Published 1962

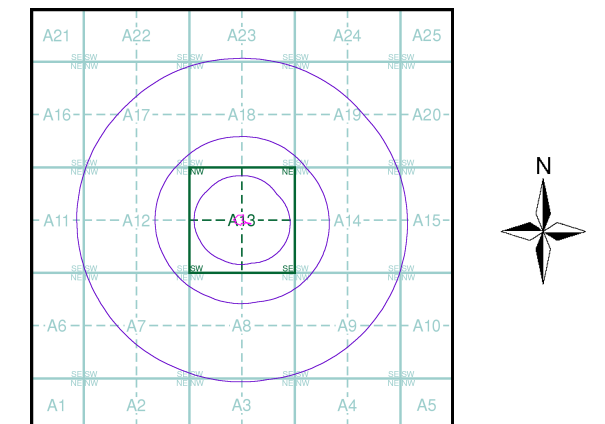
Source map scale - 1:10,000

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

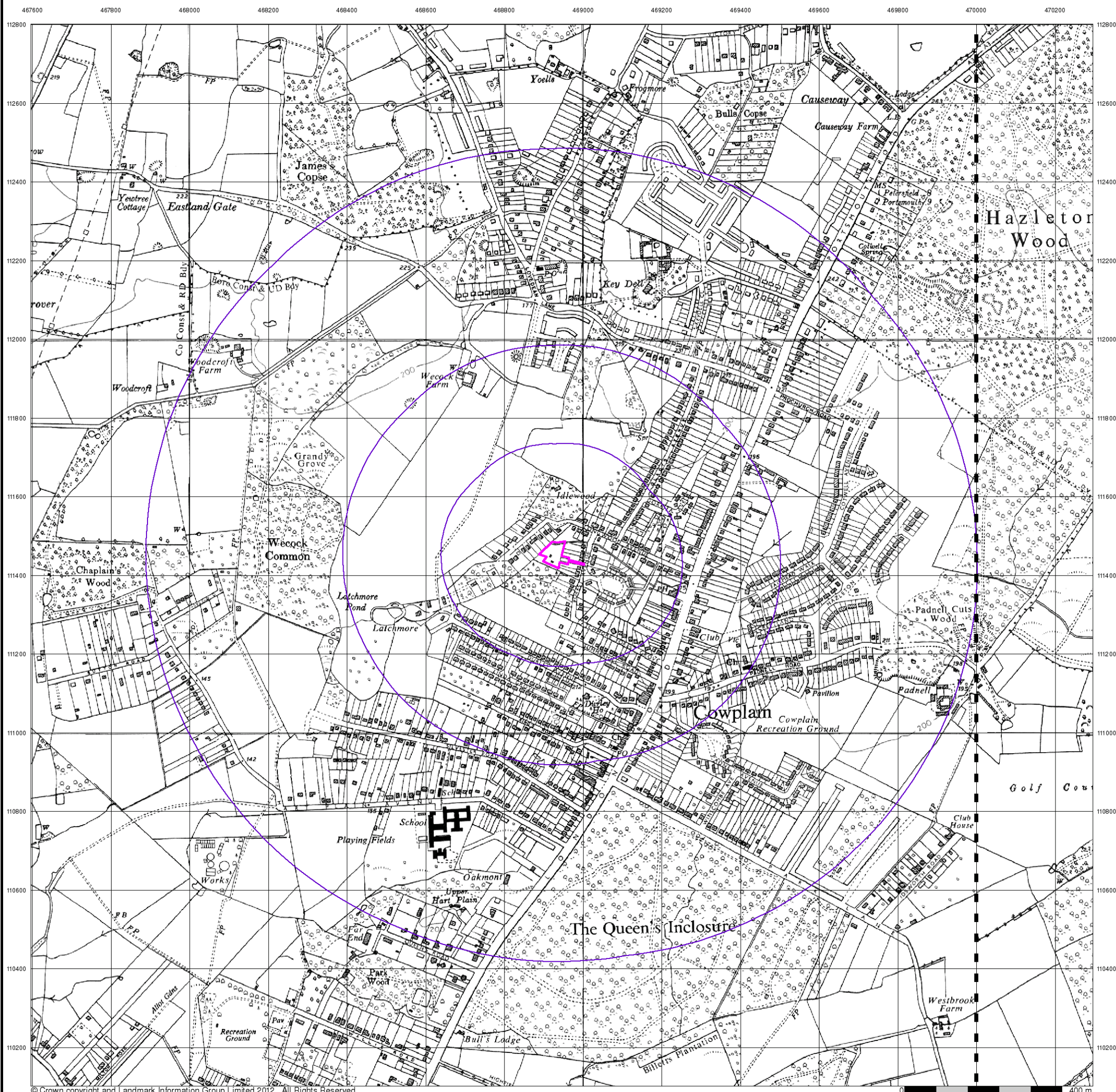


Order Details

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 Site Area (Ha): 0.31
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Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



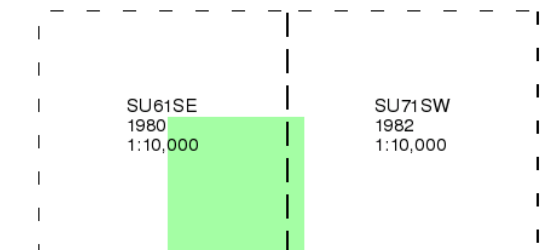
Ordnance Survey Plan

Published 1980 - 1982

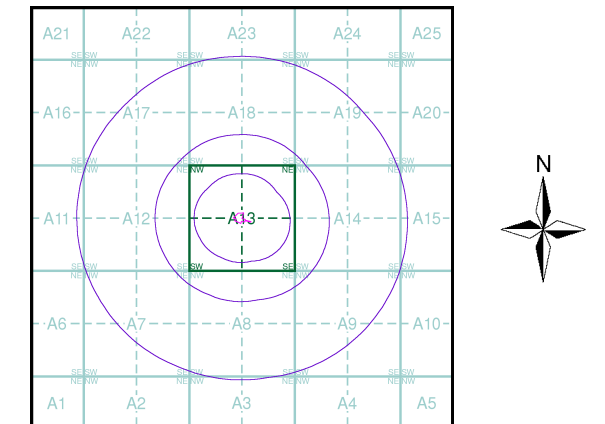
Source map scale - 1:10,000

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

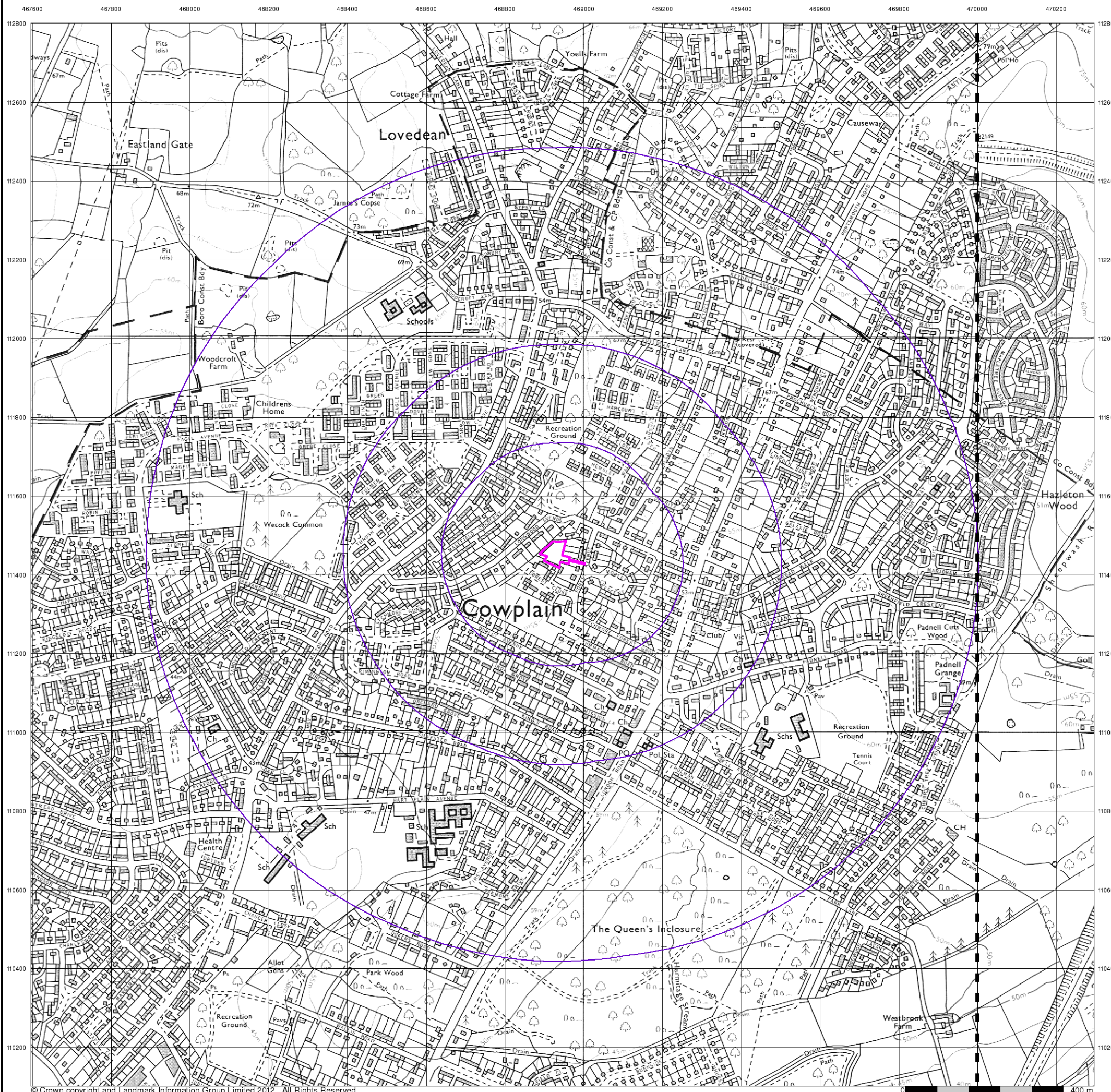


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Order Number: 42112870_1_1
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 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



Havant

Published 1983

Source map scale - 1:25,000

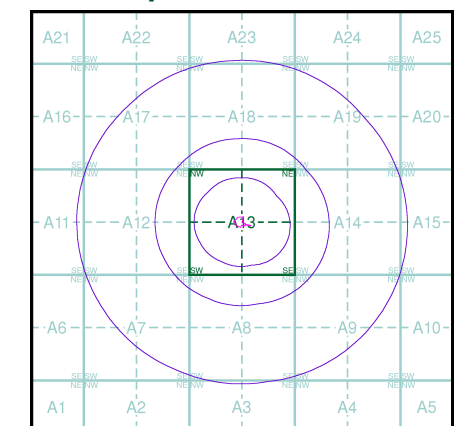
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

SU61 1983 1:25,000	SU71 1983 1:25,000
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Russian Map - Slice A



Order Details

Order Number: 42112870_1_1
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Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
PO8 8JD



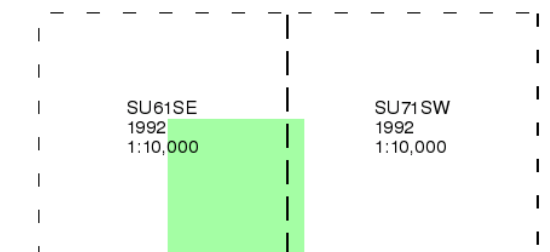
Ordnance Survey Plan

Published 1992

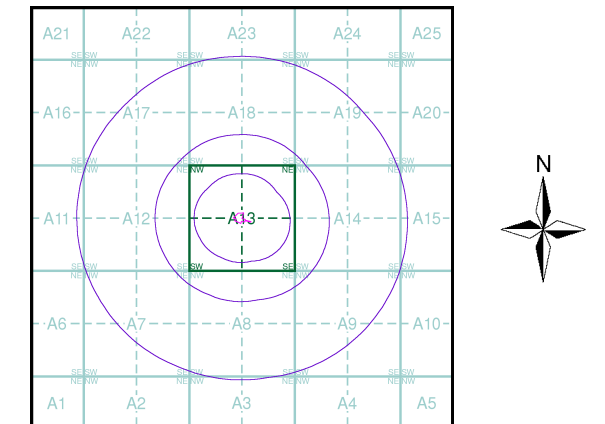
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A

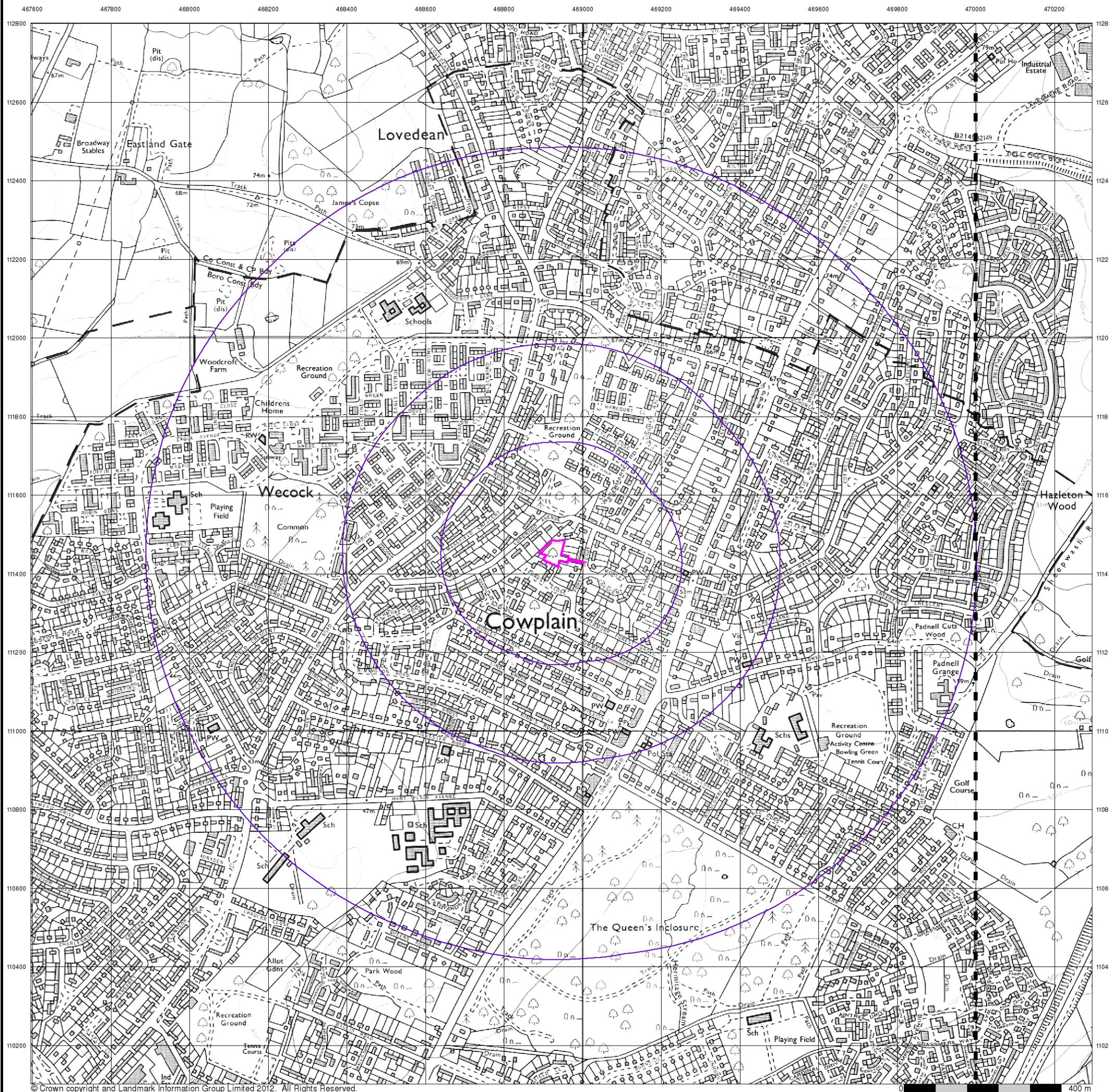


Order Details

Order Number: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
 PO8 8JD



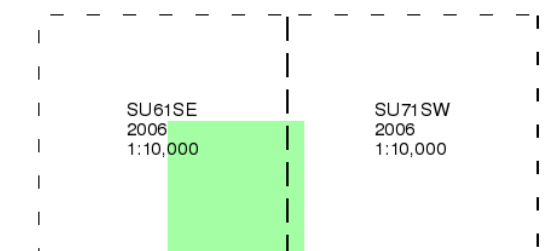
10k Raster Mapping

Published 2006

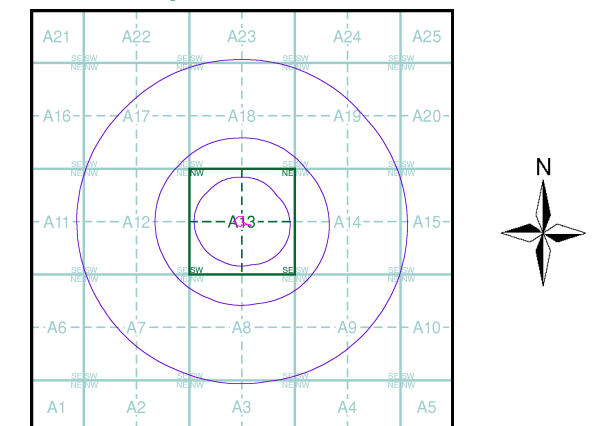
Source map scale - 1:10,000

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)



Historical Map - Slice A

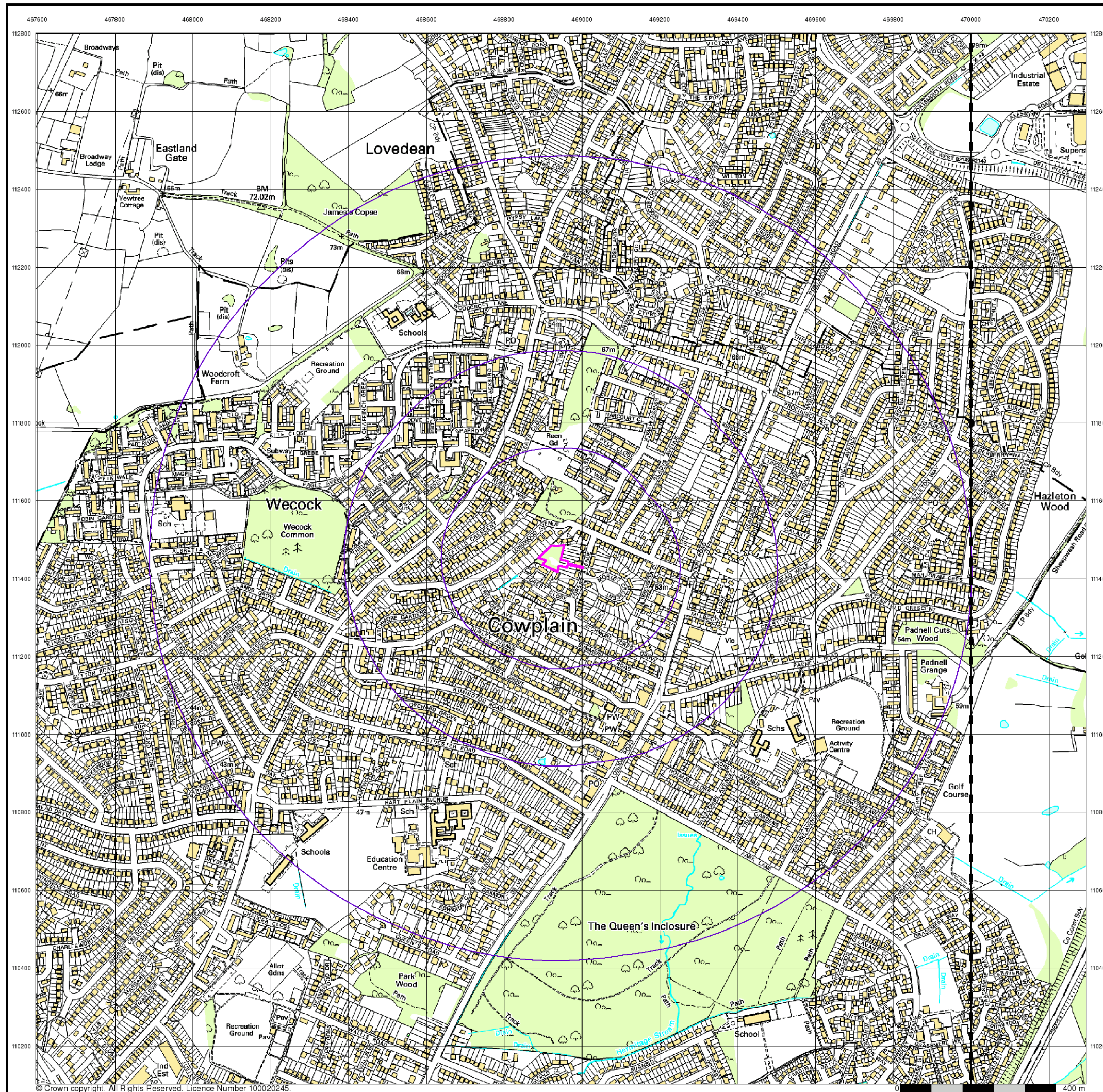


Order Details

Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
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Site Details

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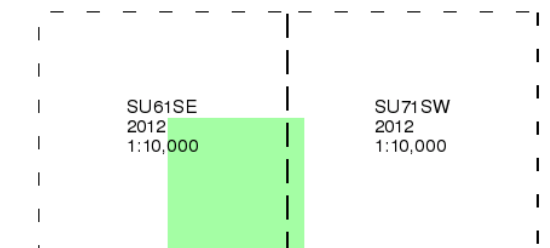
10k Raster Mapping

Published 2012

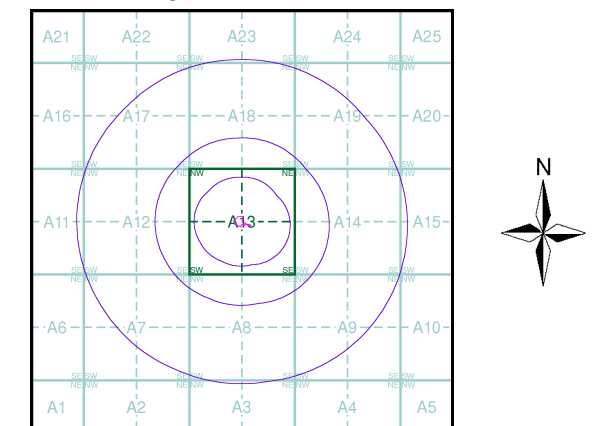
Source map scale - 1:10,000

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)



Historical Map - Slice A

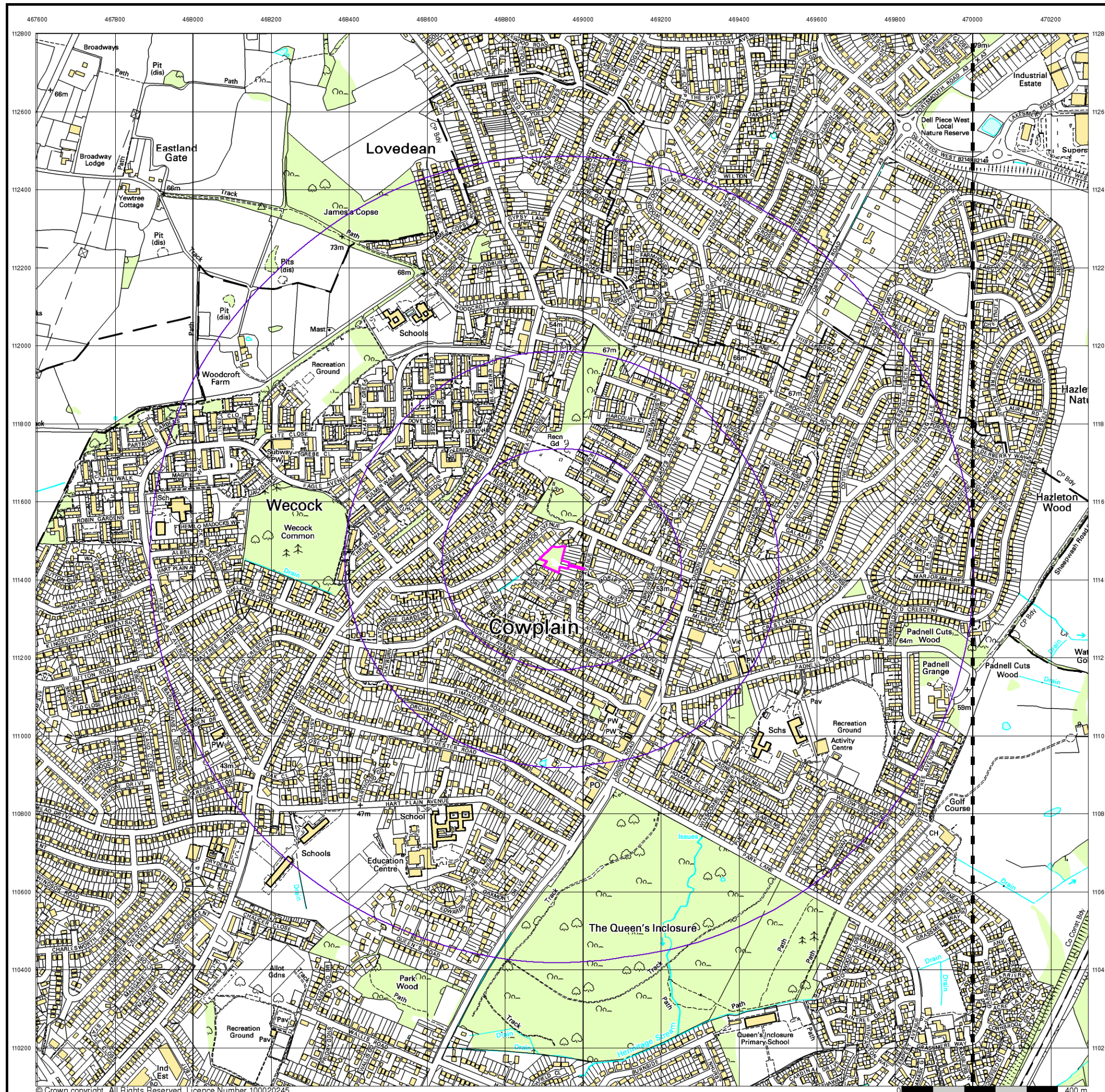


Order Details

Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



Appendix B
Landmark Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

42112870_1_1

Customer Reference:

13283

National Grid Reference:

468950, 111450

Slice:

A

Site Area (Ha):

0.31

Search Buffer (m):

1000

Site Details:

20 Forest Avenue
Cowplain
WATERLOOVILLE
Hampshire
PO8 8JD

Client Details:

Mr N Lambert
Soils Ltd
Newton House
Cross Road
Tadworth
Surrey
KT20 5SR

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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 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 the attached 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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Radon Potential dataset Copyright Notice

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Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			1	2
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1		1	2	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters	pg 2			1	2
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 2				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 3				1
Water Abstractions	pg 3				(*2)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 3	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Source Protection Zones	pg 3	3			
Extreme Flooding from Rivers or Sea without Defences	pg 4		Yes	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
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 5				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 6	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 6	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 12				8
Non Coal Mining Areas of Great Britain	pg 13	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 13	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 14		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 14	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 14	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 14	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			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 15		5	12	29
Fuel Station Entries	pg 19		1	2	1

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
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	pg 20	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Southern Water Services Ltd (H) Property Type: Sewerage Network - Sewers - Water Company Location: London Road, Cowplain Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: A00324 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: 1st April 1991 Revocation Date: 6th March 1996 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A8NE (S)	478	1	469100 110960
2	Discharge Consents Operator: Grout Bicknell & Partners Property Type: General Construction Work Location: Residential Development, Keydell Nurseries Site, Bevan Road , Horndean Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P01606 Permit Version: 1 Effective Date: 29th April 1988 Issued Date: 29th April 1988 Revocation Date: 31st March 1997 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A18NE (NE)	741	1	469260 112160
3	Discharge Consents Operator: Southern Water Services Ltd (H) Property Type: Sewerage Network - Sewers - Water Company Location: Park Lane, Cowplain Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: A00325 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: 1st April 1991 Revocation Date: 14th January 1993 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	773	1	469290 110710
4	Local Authority Pollution Prevention and Controls Name: Westons Service StationEsso Location: 127-129 London Road, Cowplain, WATERLOOVILLE, Hampshire, PO8 8XJ Authority: Havant Borough Council, Environmental Health Department Permit Reference: HBC/IPPC/05/00174 Dated: 22nd December 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A13SE (E)	249	2	469234 111335
5	Local Authority Pollution Prevention and Controls Name: Anchor Service StationBp Location: 325 Milton Road, Cowplain, WATERLOOVILLE, Hampshire, PO8 8LH Authority: Havant Borough Council, Environmental Health Department Permit Reference: Epa1/15/98 Dated: 23rd December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorisation revokedRevoked Positional Accuracy: Automatically positioned to the address	A18SW (N)	458	2	468825 111932

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Local Authority Pollution Prevention and Controls Name: Liphook Valet Services Ltd Location: 49 London Road, Cowplain, Waterloooville, Po8 8uj Authority: Havant Borough Council, Environmental Health Department Permit Reference: HBC/IPPC/05/01570 Dated: 13th November 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Located by supplier to within 10m	A8NE (S)	473	2	469090 110963
7	Local Authority Pollution Prevention and Controls Name: Black & White Garage Ltd Location: 164 London Road, COWPLAIN, PO7 7TF Authority: Havant Borough Council, Environmental Health Department Permit Reference: Not Given Dated: 7th September 1998 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location	A19SW (NE)	699	2	469501 111920
	Nearest Surface Water Feature	A13SW (W)	69	-	468836 111407
8	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Sparrow Close, Wecock Farm Estate, COWPLAIN Authority: Environment Agency, Southern Region Pollutant: Oils - Petrol Note: 10 Litres Of Petrol Into Surface Water Drain Incident Date: 14th April 1993 Incident Reference: 591 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Oils/Related Products Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	380	1	468650 111750
9	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Riders Lane, LEIGH PARK Authority: Environment Agency, Southern Region Pollutant: Oils - Petrol Note: Petrol On Stream; Miscellaneous Premises: Unknown Incident Date: 16th May 1994 Incident Reference: 1264 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Oils/Related Products Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	691	1	468200 111400
10	Pollution Incidents to Controlled Waters Property Type: Road Location: COWPLAIN Authority: Environment Agency, Southern Region Pollutant: Oils - Petrol Note: Petrol Washed To Drains After Road Traffic Accident Incident Date: 1st June 1993 Incident Reference: 702 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Water Company STW Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	705	1	468200 111600
	River Quality Name: Sheepwash Trib GQA Grade: River Quality C Reach: Wallington Conf - B2150 Estimated Distance (km): 5.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A7NE (SW)	708	1	468308 111047

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Solent and South Downs Incident Date: 30th June 2009 Incident Reference: 692881 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A9SW (SE)	756	1	469300 110732
	Water Abstractions Operator: Portsmouth Water Ltd Licence Number: 11/42/33.1/1 Permit Version: 101 Location: Point A At Lovedean Pumping Station. Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Abstraction Site Located By Point Marked A On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1918	1	468400 113330
	Water Abstractions Operator: Portsmouth Water Co Licence Number: 11/42/33.1/1 Permit Version: 100 Location: Point A At Lovedean Pumping Station. Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Abstraction Site Located By Point Marked A On Licence Map. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1918	1	468400 113330
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 52 Southern Hampshire Scale: 1:100,000	A13SE (N)	0	1	468946 111448
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Desination: Secondary Aquifer - A	A13SE (N)	0	3	468946 111448
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SE (N)	0	3	468946 111448
12	Source Protection Zones Name: Lovedean Source: Environment Agency, Head Office Reference: Su295 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13SE (N)	0	1	468946 111448
13	Source Protection Zones Name: Lovedean Source: Environment Agency, Head Office Reference: Su295 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A13SE (N)	0	1	468946 111448
14	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13SE (N)	0	1	468946 111448

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	182	1	468760 111580
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Historical Landfill Sites Licence Holder: F F F Plant Hire Company Limited Location: Lovedean, Chalton, Waterlooville, Hampshire Name: Woodcroft Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20817 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial Waste Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 13/5, FHA1	A17SW (NW)	941	1	468105 111973
	Local Authority Landfill Coverage Name: Havant Borough Council - Has supplied landfill data		0	2	468946 111448
	Local Authority Landfill Coverage Name: Hampshire County Council - Had landfill data but passed it to the relevant environment agency		0	8	468946 111448
	Local Authority Landfill Coverage Name: East Hampshire District Council - Has no landfill data to supply		590	9	469112 112054
	Local Authority Landfill Coverage Name: Winchester City Council - Has supplied landfill data		949	10	468032 111860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Oldhaven, Blackheath, Woolwich, and Reading and Thanet beds	A13SE (N)	0	3	468946 111448
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	0	4	469000 111448
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (N)	0	4	468946 111448
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	32	4	468950 111518
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	55	4	469000 111516
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	64	4	468934 111354
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	267	4	468992 111157

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (S)	268	4	469000 111157
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A13NW (N)	271	4	468837 111741
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	331	4	469000 111093
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	345	4	468946 111074
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	380	4	468689 111785
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (NW)	410	4	468548 111679

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	419	4	468946 111000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	423	4	469000 111000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	447	4	468781 111000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (W)	505	4	468394 111553
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A18SE (N)	515	4	468946 112000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	516	4	468979 112000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	517	4	469000 112000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	517	4	468997 112000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	529	4	468804 112000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	534	4	469000 112017
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	536	4	468777 112000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A18SE (N)	554	4	469000 112037

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	625	4	469026 112106
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	652	4	468785 112122
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	667	4	469000 112150
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SW)	756	4	468281 111000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (SW)	834	4	468467 110722
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	889	4	468000 111448

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	898	4	468870 112381
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	902	4	468000 111603
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SW (NW)	928	4	468160 112027
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	929	4	468000 111183
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SW (NW)	932	4	468135 112000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	939	4	469213 110512

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A18NE (N)	972	4	469000 112456
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15SW (E)	998	4	470000 111448
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	998	4	468000 111000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Natural Cavities Easting: 469040 Northing: 112000 Distance: 522 Quadrant Reference: A18 Quadrant Reference: SE Bearing Ref: N Cavity Type: Unknown x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A18SE (N)	522	5	469040 112000
	Natural Cavities Easting: 469220 Northing: 112190 Distance: 753 Quadrant Reference: A18 Quadrant Reference: NE Bearing Ref: N Cavity Type: Unknown x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A18NE (N)	753	5	469220 112190
	Natural Cavities Easting: 468600 Northing: 112300 Distance: 877 Quadrant Reference: A17 Quadrant Reference: NE Bearing Ref: N Cavity Type: Swallow Hole Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A17NE (N)	877	5	468600 112300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 468620 Northing: 112330 Distance: 898 Quadrant Reference: A18 Quadrant Reference: NW Bearing Ref: N Cavity Type: Sinkhole x 6 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A18NW (N)	898	5	468620 112330
	Natural Cavities Easting: 468210 Northing: 112040 Distance: 898 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Head Detail:	A17SW (NW)	898	5	468210 112040
	Natural Cavities Easting: 468500 Northing: 112300 Distance: 918 Quadrant Reference: A17 Quadrant Reference: NE Bearing Ref: NW Cavity Type: Swallow Hole Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A17NE (NW)	918	5	468500 112300
	Natural Cavities Easting: 468150 Northing: 112010 Distance: 926 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Head Detail:	A17SW (NW)	926	5	468150 112010
	Natural Cavities Easting: 468240 Northing: 112170 Distance: 967 Quadrant Reference: A17 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A17NW (NW)	967	5	468240 112170
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	468946 111448
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	30	3	468950 111515
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	156	3	468851 111623
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	165	3	468901 111648
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	468946 111448
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	468946 111448

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	164	3	468858 111636
	Potential for Ground Dissolution Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	210	3	468910 111693
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	468946 111448
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	468946 111448
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	468946 111448
	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	A13SE (N)	0	3	468946 111448
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	468946 111448

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Contemporary Trade Directory Entries Name: Atos UK Ltd Location: A, 17, Longwood Avenue, Waterlooville, Hampshire, PO8 8HX Classification: Hydraulic Systems & Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (E)	83	-	469065 111483
17	Contemporary Trade Directory Entries Name: Venntic Location: 10, Gladys Avenue, Cowplain, Waterlooville, Hampshire, PO8 8HT Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	207	-	469154 111570
18	Contemporary Trade Directory Entries Name: Collison Motoring Services Ltd Location: 127-129, London Road, Cowplain, Waterlooville, Hampshire, PO8 8XJ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	211	-	469197 111346
18	Contemporary Trade Directory Entries Name: Westons Location: 127, London Road, Cowplain, Waterlooville, Hampshire, PO8 8XJ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	249	-	469234 111335
19	Contemporary Trade Directory Entries Name: Graffiti Removal (South) Ltd Location: 20, Summerhill Road, Waterlooville, Hampshire, PO8 8XE Classification: Graffiti Removers Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	217	-	469052 111216
20	Contemporary Trade Directory Entries Name: Established Plastics Location: 1, Dorrita Avenue, Waterlooville, Hampshire, PO8 8HU Classification: Plaster Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	266	-	469239 111551
21	Contemporary Trade Directory Entries Name: Reed'S Hardware Location: 109b, London Road, Cowplain, Waterlooville, Hampshire, PO8 8XJ Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	273	-	469208 111248
21	Contemporary Trade Directory Entries Name: Safecoat Europe Ltd Location: Latchmore House, 99-101 London Rd, Cowplain, Waterlooville, Hampshire, PO8 8XJ Classification: Safety Glazing Status: Active Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	297	-	469202 111208
22	Contemporary Trade Directory Entries Name: F J W Electrical Services Location: 149a, London Road, Cowplain, Waterlooville, Hampshire, PO8 8ER Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (E)	278	-	469278 111462
23	Contemporary Trade Directory Entries Name: M M Caravans Location: 84, London Road, Cowplain, Waterlooville, Hampshire, PO8 8EW Classification: Caravan Dealers & Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	315	-	469317 111436
23	Contemporary Trade Directory Entries Name: Cowplain Car Centre Location: 84, London Road, Cowplain, Waterlooville, Hampshire, PO8 8EW Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	329	-	469330 111448

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Contemporary Trade Directory Entries Name: Prima Air Conditioning & Refrigeration Ltd Location: 44, London Road, Cowplain, Waterlooville, Hampshire, PO8 8EN Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	349	-	469256 111187
25	Contemporary Trade Directory Entries Name: R A M Fabrication Location: 28, Crestland Close, Waterlooville, Hampshire, PO8 9AG Classification: Gate Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A14SW (E)	447	-	469423 111278
26	Contemporary Trade Directory Entries Name: Martin Prior Location: 1, Dove Close, Waterlooville, Hampshire, PO8 9UF Classification: Cabinet Makers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	447	-	468598 111792
27	Contemporary Trade Directory Entries Name: Anchor Service Station Location: 325, Milton Road, Cowplain, Waterlooville, Hampshire, PO8 8LH Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	458	-	468825 111932
28	Contemporary Trade Directory Entries Name: Auto Tune Location: 30, Passingham Walk, Waterlooville, Hampshire, PO8 8JH Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	464	-	469147 111907
29	Contemporary Trade Directory Entries Name: Liphook Valet Service Location: 49, London Road, Cowplain, Waterlooville, Hampshire, PO8 8UJ Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	474	-	469090 110962
30	Contemporary Trade Directory Entries Name: Super Bike Services Location: Silvester Rd, Waterlooville, Hampshire, PO8 8TL Classification: Motor Cycle Repairs Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	518	-	468681 110966
31	Contemporary Trade Directory Entries Name: Universal Cleaners Location: 6, Curlew Gardens, Waterlooville, Hampshire, PO8 9UD Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	539	-	468673 111962
32	Contemporary Trade Directory Entries Name: Birdscarer Products & Net Supplies Ltd Location: 24, Lovedean Lane, Waterlooville, Hampshire, PO8 8HJ Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	581	-	469236 111993
33	Contemporary Trade Directory Entries Name: Homemaid Location: 32, Renown Gardens, Waterlooville, Hampshire, PO8 9QP Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	610	-	468717 112058
34	Contemporary Trade Directory Entries Name: Easypad Ltd Location: 5, Park Lane, Cowplain, Waterlooville, Hampshire, PO8 8AB Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	626	-	469204 110835
35	Contemporary Trade Directory Entries Name: A L Motors Location: 2, Newbolt Close, Waterlooville, Hampshire, PO8 8SS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	638	-	468261 111345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Contemporary Trade Directory Entries Name: Down To Earth Drainage & Guttering Location: 14, Hazleton Way, Waterlooville, Hampshire, PO8 9AD Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	663	-	469655 111316
37	Contemporary Trade Directory Entries Name: Cowplain Hobby Ceramics Location: 6, Lawnswood Close, Waterlooville, Hampshire, PO8 8RU Classification: Ceramic Manufacturers, Supplies & Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	691	-	468733 110759
38	Contemporary Trade Directory Entries Name: 1st For Ford Location: 1, Hart Plain Avenue, Waterlooville, Hampshire, PO8 8RP Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	709	-	468928 110709
39	Contemporary Trade Directory Entries Name: Amberleigh Cleaning Services Ltd Location: 6, Frogmore Lane, Waterlooville, Hampshire, PO8 9QQ Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	723	-	468902 112207
39	Contemporary Trade Directory Entries Name: Cursor Designs Location: 8, Frogmore Lane, Waterlooville, Hampshire, PO8 9QQ Classification: Printed Circuit Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	740	-	468906 112224
40	Contemporary Trade Directory Entries Name: J F Lawson & Sons Location: 41, Hart Plain Avenue, Waterlooville, Hampshire, PO8 8RX Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	743	-	468507 110804
41	Contemporary Trade Directory Entries Name: Harley Clean Location: 17, Merlin Close, Waterlooville, Hampshire, PO8 9AZ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	743	-	468254 111838
42	Contemporary Trade Directory Entries Name: Widen Electronic Solutions Location: 74, Padnell Road, Waterlooville, Hampshire, PO8 8EB Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	779	-	469749 111207
42	Contemporary Trade Directory Entries Name: Widen Electronic Solutions Location: 74, Padnell Road, Waterlooville, Hampshire, PO8 8EB Classification: Electronic Equipment - Manufacturers & Assemblers Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	779	-	469749 111207
43	Contemporary Trade Directory Entries Name: Pro Clean Location: 8, Farmhouse Way, Waterlooville, Hampshire, PO8 9LF Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	791	-	469232 112226
44	Contemporary Trade Directory Entries Name: Mah Clearances Location: 41, Hobby Close, Waterlooville, Hampshire, PO8 9AY Classification: Waste Disposal Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	791	-	468229 111889
45	Contemporary Trade Directory Entries Name: Portsmouth Metal Recycling Ltd Location: 47, Magpie Walk, Waterlooville, Hampshire, PO8 9UZ Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	792	-	468118 111630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	Contemporary Trade Directory Entries Name: Hampshire Installations Ltd Location: 19, Hobby Close, WATERLOOVILLE, Hampshire, PO8 9AY Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	794	-	468196 111838
47	Contemporary Trade Directory Entries Name: Neil Gunner Location: 5, Kingfisher Close, Waterlooville, Hampshire, PO8 9XD Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	802	-	468133 111719
48	Contemporary Trade Directory Entries Name: Crease Lightening Location: 68, Padnell Avenue, Waterlooville, Hampshire, PO8 8DT Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	804	-	469525 110817
49	Contemporary Trade Directory Entries Name: Spelgraphics Location: 31, Albretia Avenue, Waterlooville, Hampshire, PO8 8QS Classification: Car Painters & Sprayers Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	807	-	468083 111429
50	Contemporary Trade Directory Entries Name: Henley Plumbing & Heating Ltd Location: 44, Winkfield Row, Waterlooville, Hampshire, PO8 9TL Classification: Boilers - Servicing, Replacements & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	875	-	469461 112198
51	Contemporary Trade Directory Entries Name: D & B Pest Control Services Location: 24, Albretia Avenue, Waterlooville, Hampshire, PO8 8QS Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	886	-	468004 111453
51	Contemporary Trade Directory Entries Name: Advanced Power Clean Location: 17, Albretia Avenue, Waterlooville, Hampshire, PO8 8QS Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	907	-	467983 111492
52	Contemporary Trade Directory Entries Name: Richard Oliver Location: 8, Fairy Cross Way, Waterlooville, Hampshire, PO8 8AU Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	916	-	469809 110994
53	Contemporary Trade Directory Entries Name: Kleen Bees Location: 83, Hazleton Way, Waterlooville, Hampshire, PO8 9BP Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	947	-	469905 111714
54	Contemporary Trade Directory Entries Name: D J Richards Location: 37, Park Lane, Cowplain, Waterlooville, Hampshire, PO8 8AG Classification: Tool Sharpening, Repairing & Servicing Status: Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	989	-	469582 110626
55	Contemporary Trade Directory Entries Name: Albany Engineering Services Ltd Location: 44, Greenfield Crescent, Waterlooville, Hampshire, PO8 9EJ Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A15SW (E)	991	-	469982 111284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	Fuel Station Entries Name: Westons Service Station Location: 127, London Road, Cowplain, WaterlooVille, Hampshire, PO8 8XJ Brand: ESSO Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A13SE (E)	249	-	469234 111335
57	Fuel Station Entries Name: Cowplain Service Station Location: 84 London Road, Cowplain, WATERLOOVILLE, Hampshire, PO8 8EW Brand: Bp Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A14SW (E)	328	-	469330 111448
58	Fuel Station Entries Name: Anchor Service Station Location: 325 Milton Road, Cowplain, WATERLOOVILLE, Hampshire, PO8 8LH Brand: Bp Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A18SW (N)	458	-	468825 111932
59	Fuel Station Entries Name: Milton Road Express Location: 157 Milton Road, Cowplain, WATERLOOVILLE, Hampshire, PO8 8RE Brand: OBSOLETE Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A7SW (SW)	970	-	468190 110773

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	Nitrate Vulnerable Zones Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SE (N)	0	7	468946 111448

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Portsmouth City Council - Health and Trading Standards Winchester City Council - Environmental Health Department Chichester District Council - Environmental Health Department Havant Borough Council - Environmental Health Department East Hampshire District Council - Environmental Health Department	February 2012 January 2012 July 2012 March 2012 May 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	July 2012	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	September 2012	Quarterly
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Southern Region	July 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control East Hampshire District Council - Environmental Health Department Chichester District Council - Environmental Health Department Havant Borough Council - Environmental Health Department Winchester City Council - Environmental Health Department Portsmouth City Council - Environmental Health Department	April 2012 August 2011 February 2011 March 2012 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls East Hampshire District Council - Environmental Health Department Chichester District Council - Environmental Health Department Havant Borough Council - Environmental Health Department Winchester City Council - Environmental Health Department Portsmouth City Council - Environmental Health Department	April 2012 August 2011 February 2011 March 2012 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements East Hampshire District Council - Environmental Health Department Chichester District Council - Environmental Health Department Winchester City Council - Environmental Health Department Havant Borough Council - Environmental Health Department Portsmouth City Council - Environmental Health Department	April 2012 August 2011 March 2012 October 2012 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Southern Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Southern Region	September 2012	Monthly
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	September 2012	Monthly
Registered Radioactive Substances Environment Agency - Southern Region	July 2012	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	July 2012 July 2012 July 2012	Quarterly Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - Southern Region	July 2012	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	July 2012	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones Environment Agency - Head Office	July 2012	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	July 2012	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	July 2012	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	July 2012	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	July 2012	Quarterly
Flood Defences Environment Agency - Head Office	July 2012	Quarterly

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	July 2012 July 2012 July 2012	Quarterly Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	July 2012 July 2012 July 2012	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office Environment Agency - Southern Region - Solent and South Downs Environment Agency - Southern Region - Sussex Area	July 2012 July 2012 July 2012	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Chichester District Council - Environmental Health Department East Hampshire District Council Hampshire County Council - Minerals and Waste Planning Havant Borough Council - Environmental Health Department Portsmouth City Council - Environmental Health Department West Sussex County Council - Environment & Development Winchester City Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Chichester District Council - Environmental Health Department East Hampshire District Council Hampshire County Council - Minerals and Waste Planning Havant Borough Council - Environmental Health Department Portsmouth City Council - Environmental Health Department West Sussex County Council - Environment & Development Winchester City Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Southern Region - Hampshire Area Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Hampshire Area Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Southern Region - Hampshire Area Environment Agency - Southern Region - Sussex Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Hampshire County Council - Minerals and Waste Planning Chichester District Council - Planning Department Portsmouth City Council - Planning Office Havant Borough Council - Commercial Team West Sussex County Council - Environment & Development East Hampshire District Council Winchester City Council - Planning Department	August 2012 January 2012 July 2012 May 2012 October 2006 September 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Portsmouth City Council - Planning Office Chichester District Council - Planning Department Havant Borough Council - Commercial Team West Sussex County Council - Environment & Development East Hampshire District Council Hampshire County Council - Minerals and Waste Planning Winchester City Council - Planning Department	August 2011 January 2012 May 2012 October 2006 September 2011 September 2011 September 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2012	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2012	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural England	July 2012	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2012	Bi-Annually
Marine Nature Reserves Natural England	August 2012	Bi-Annually
National Nature Reserves Natural England	February 2012	Bi-Annually
National Parks Natural England	August 2012	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
Ramsar Sites Natural England	August 2012	Bi-Annually
Sites of Special Scientific Interest Natural England	August 2012	Bi-Annually
Special Areas of Conservation Natural England	August 2012	Bi-Annually
Special Protection Areas Natural England	August 2012	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	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	Havant Borough Council - Environmental Health Department Public Service PLaza, Civic Centre Road, Havant, Hampshire, PO9 2AX	Telephone: 023 9244 6677 Email: env.services@havant.gov.uk Website: www.havant.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Landmark Information Group Limited 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
5	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
6	Natural England Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
8	Hampshire County Council - Minerals and Waste Planning Room 130, Ashburton Court West, The Castle, Winchester, Hampshire, SO23 8UD	Telephone: 01962 841841 Fax: 01962 847055 Website: www.hants.gov.uk
9	East Hampshire District Council Penns Place, Petersfield, Hampshire, GU31 4EX	Telephone: 01730 266551 Fax: 01730 267366 Website: www.easthants.gov.uk
10	Winchester City Council - Environmental Health Department City Offices, Colebrook Street, Winchester, Hampshire, SO23 9LJ	Telephone: 01962 848519 Fax: 01962 849101 Website: www.winchester.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

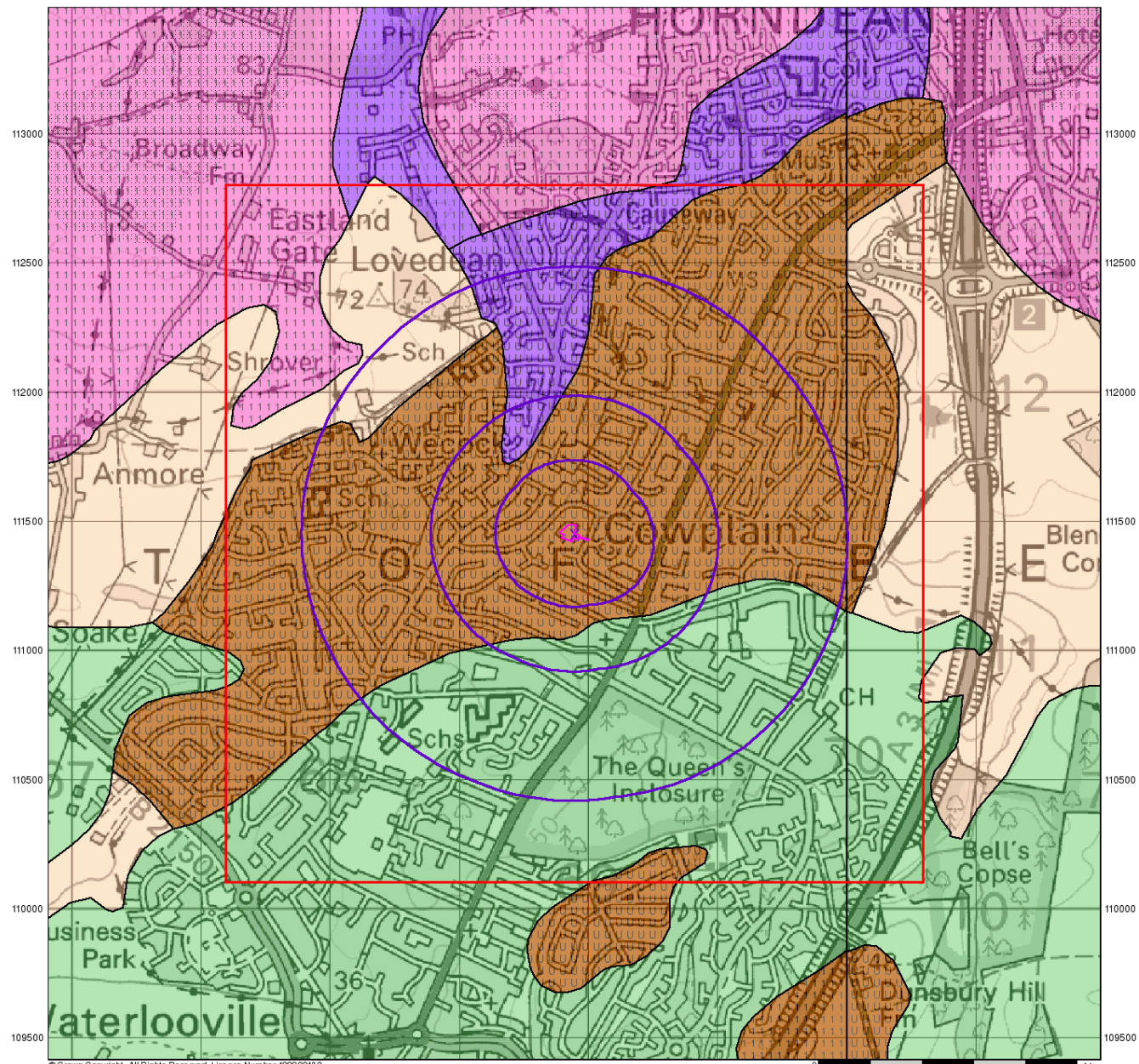
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.

Appendix C

Site Sensitivity Maps

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467000 467500 468000 468500 469000 469500 470000 470500



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Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer
(Highly Permeable)

Minor Aquifer
(Variably Permeable)

Non Aquifer
(Negligibly Permeable)

Water or Sea

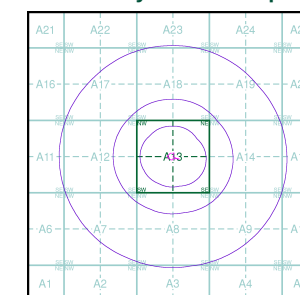
Drift Deposit

Soil Classes

High (H) 1, 2, 3, U
Intermediate (I) 1, 2
Low

High (H) 1, 2, 3, U
Intermediate (I) 1, 2
Low

Site Sensitivity Context Map - Slice A



Order Details

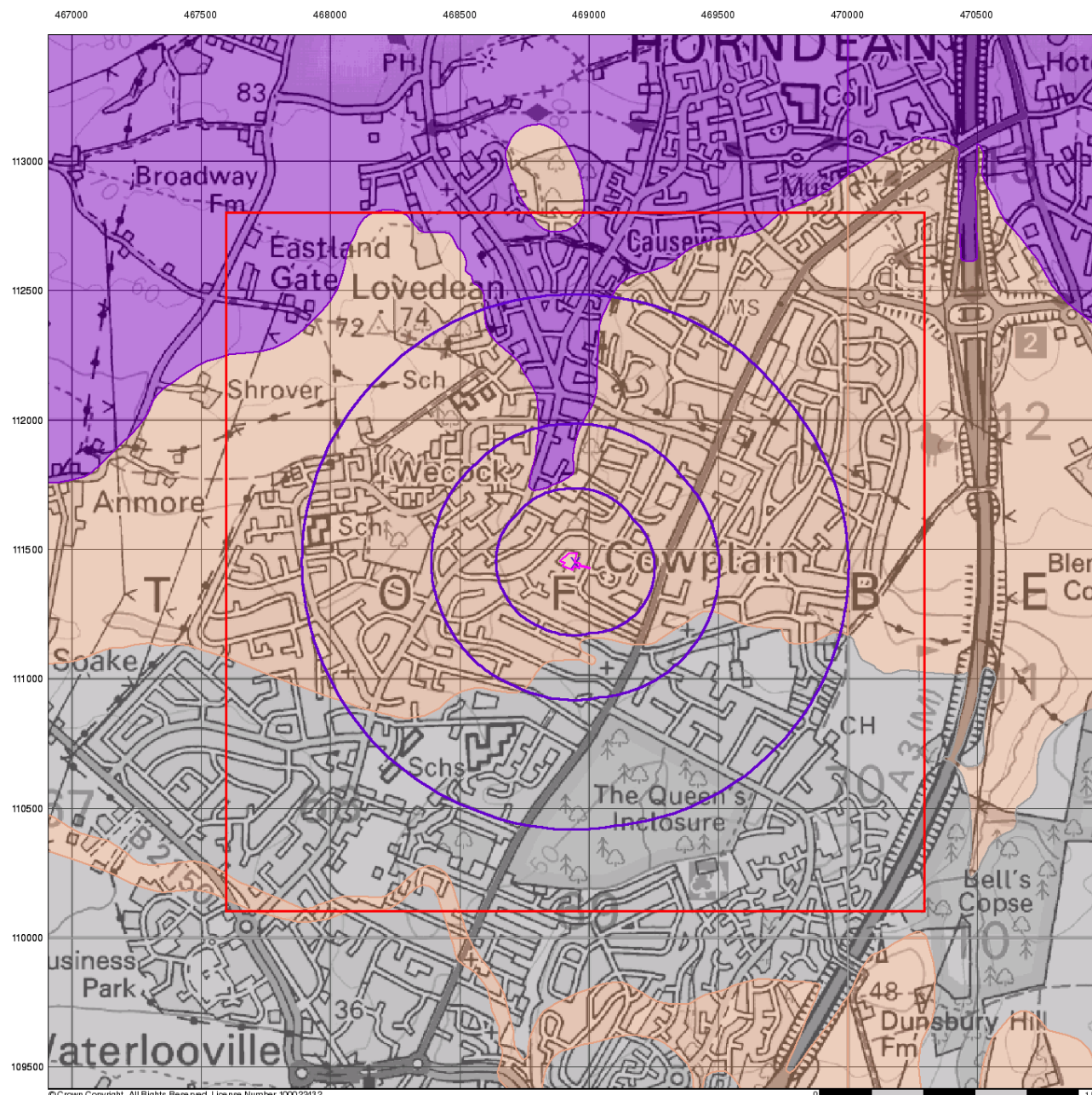
Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31
Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
PO8 8JD



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



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Bedrock Aquifer Designation

General

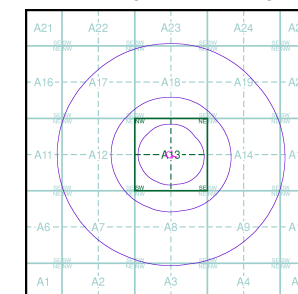
- Specified Site
- Specified Buffer(s)
- Slice
- Bearing Reference Point
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

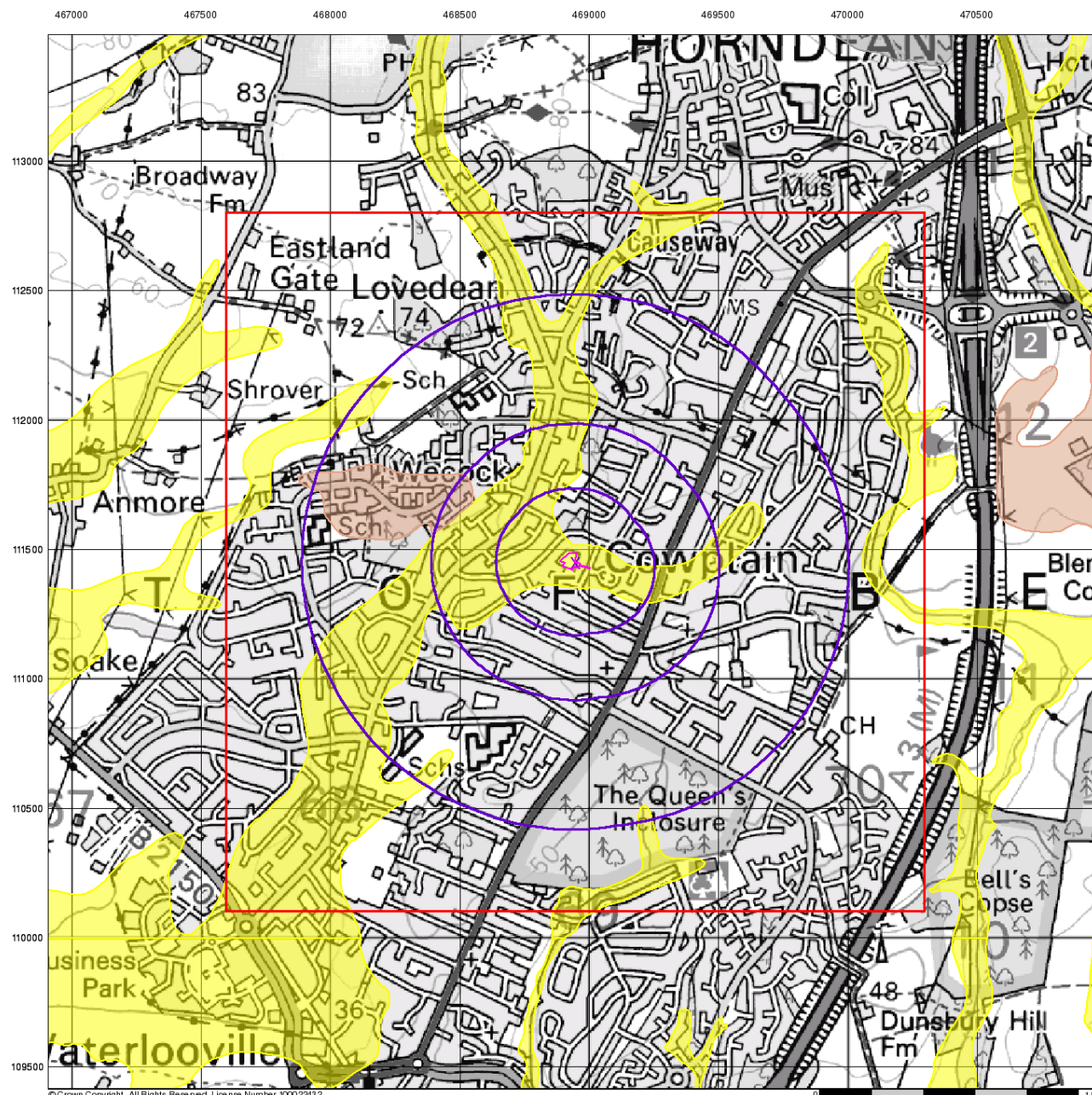
Order Number: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

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20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
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Superficial Aquifer Designation

General

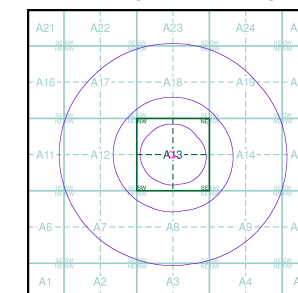
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

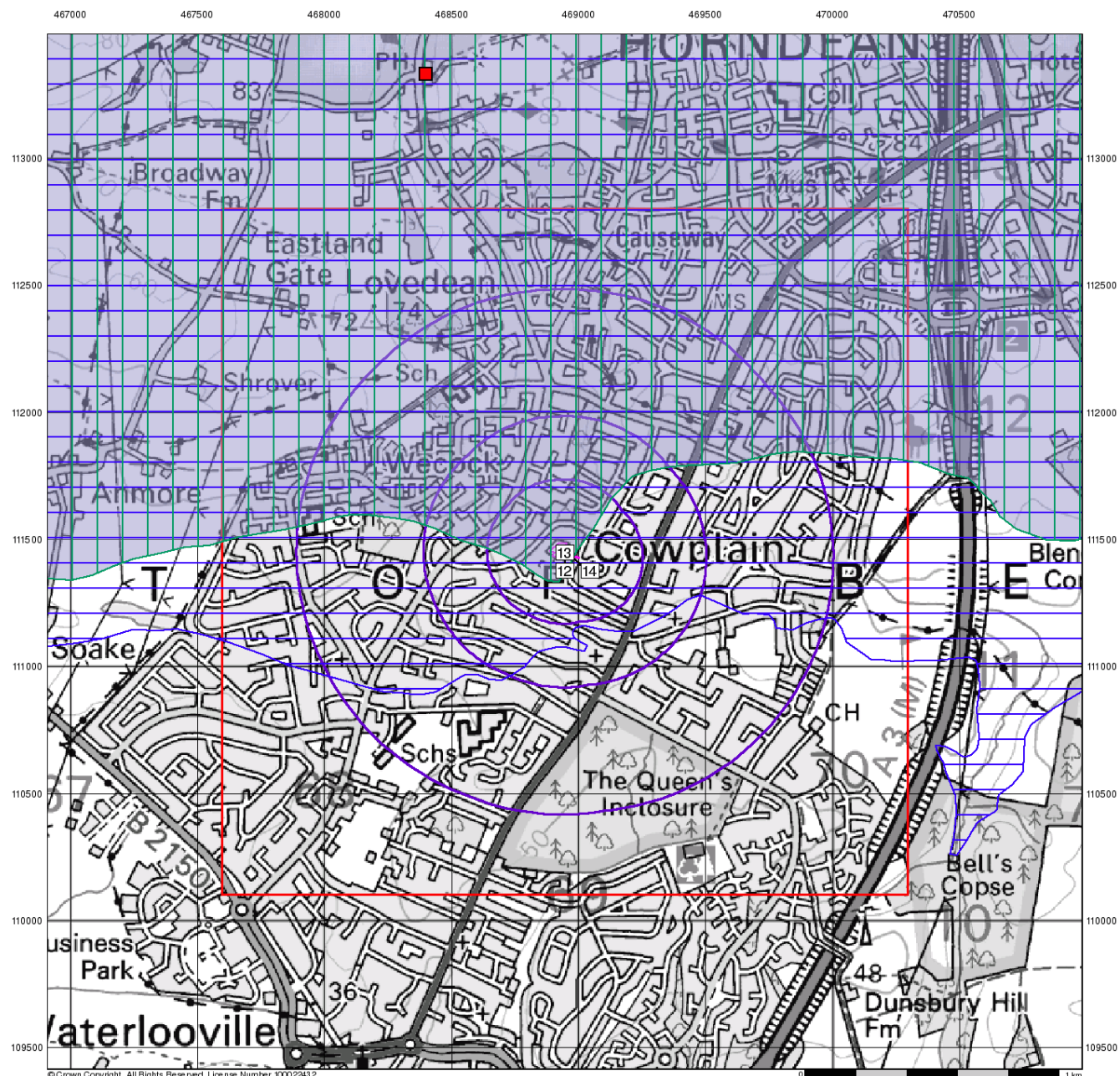
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 Search Buffer (m): 1000

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Source Protection Zones

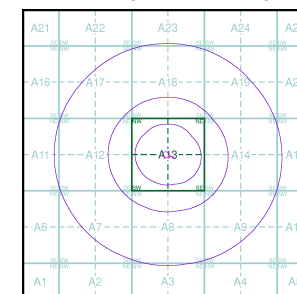
General

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

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

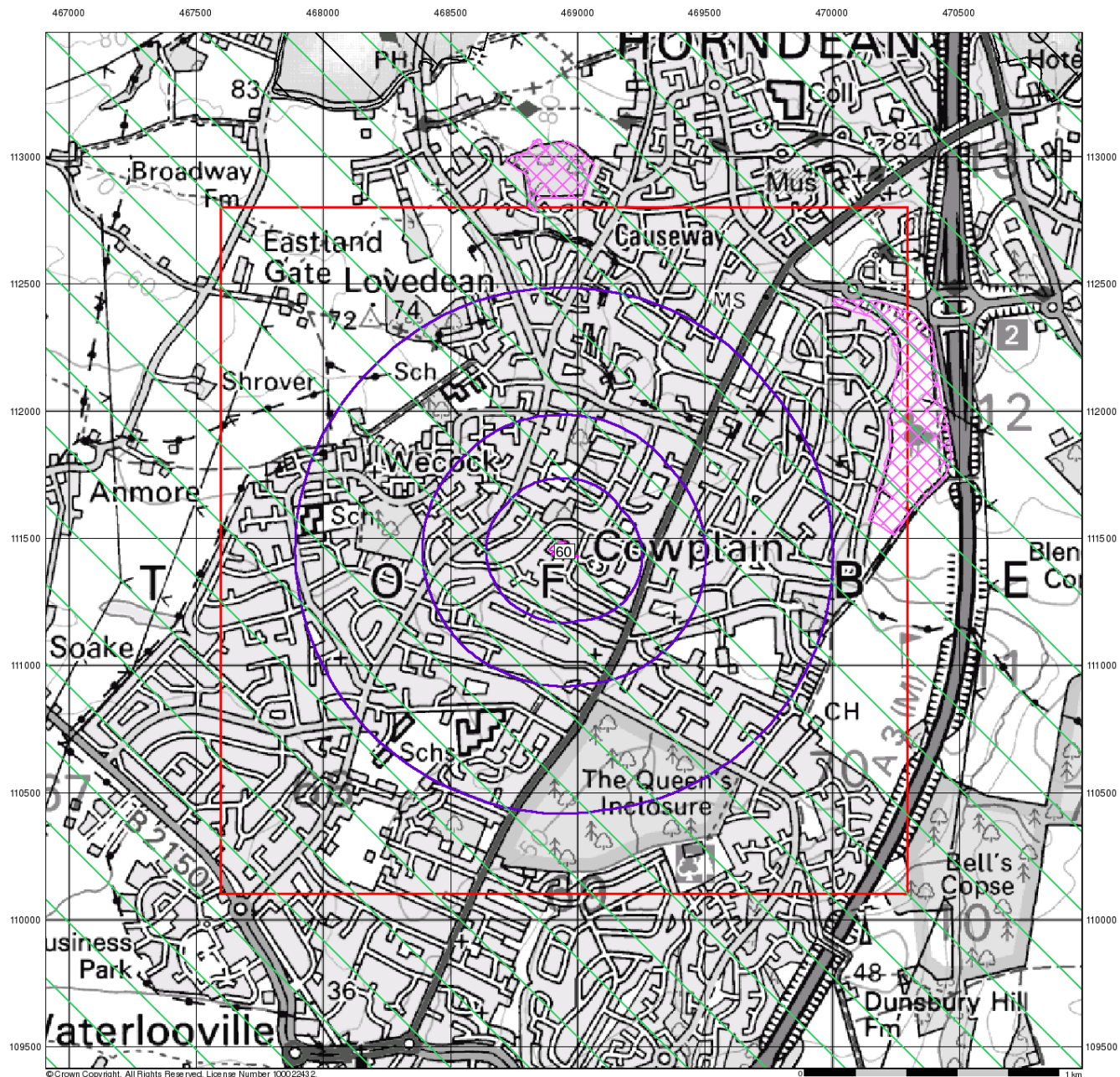
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Site Details

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Sensitive Land Uses

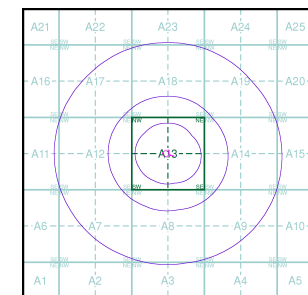
General

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

Sensitive Land Uses

- 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

Site Sensitivity Context Map - Slice A



Order Details

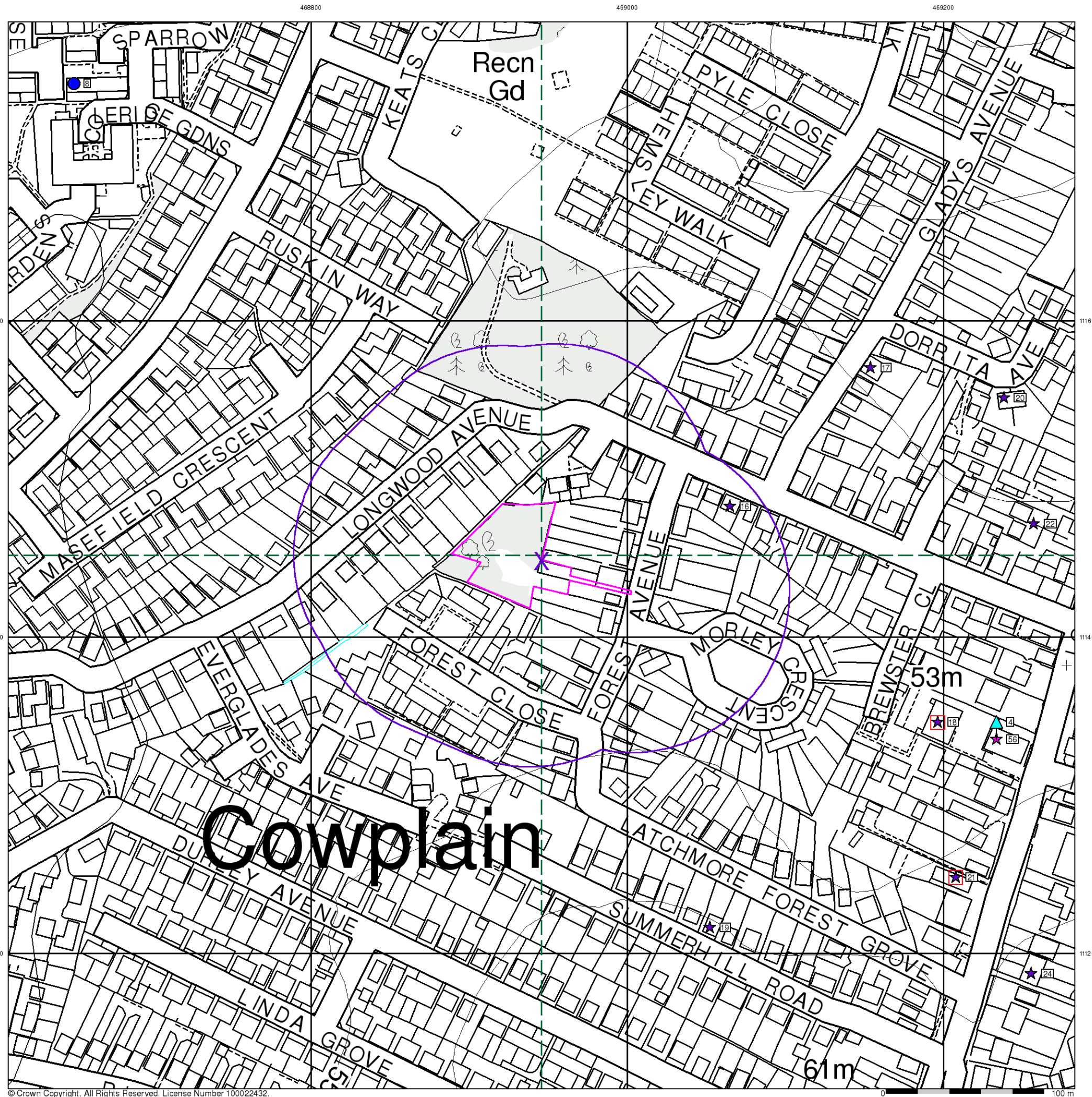
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 Site Area (Ha): 0.31
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Site Details

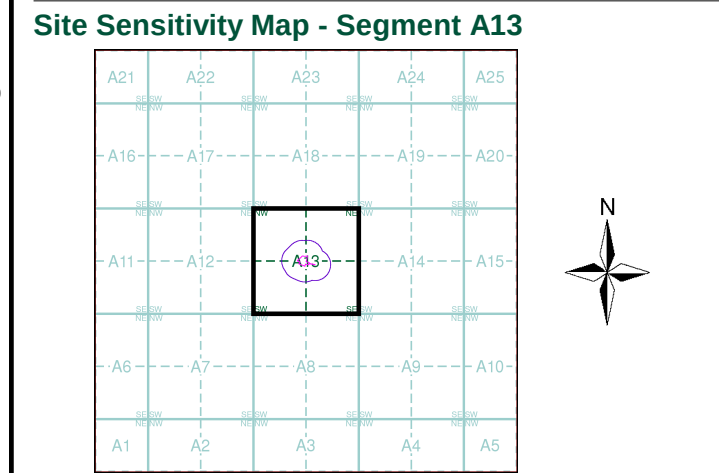
20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
 PO8 8JD



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



- 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
- 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
 - 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
- Industrial Land Use**
 - Contemporary Trade Directory Entry
 - Fuel Station Entry



Order Details
Order Number: 42112870_1_1
Customer Ref: 13283
National Grid Reference: 468950, 111450
Slice: A
Site Area (Ha): 0.31

Site Details
20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
PO8 8JD

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

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
- 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

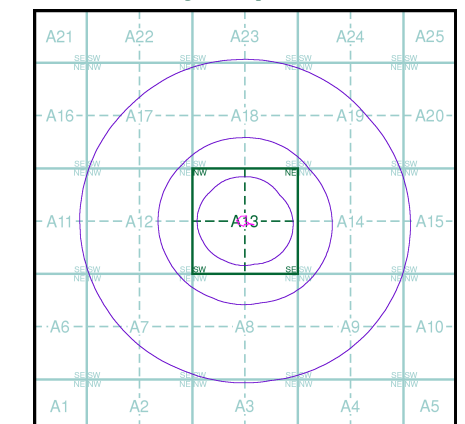
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A

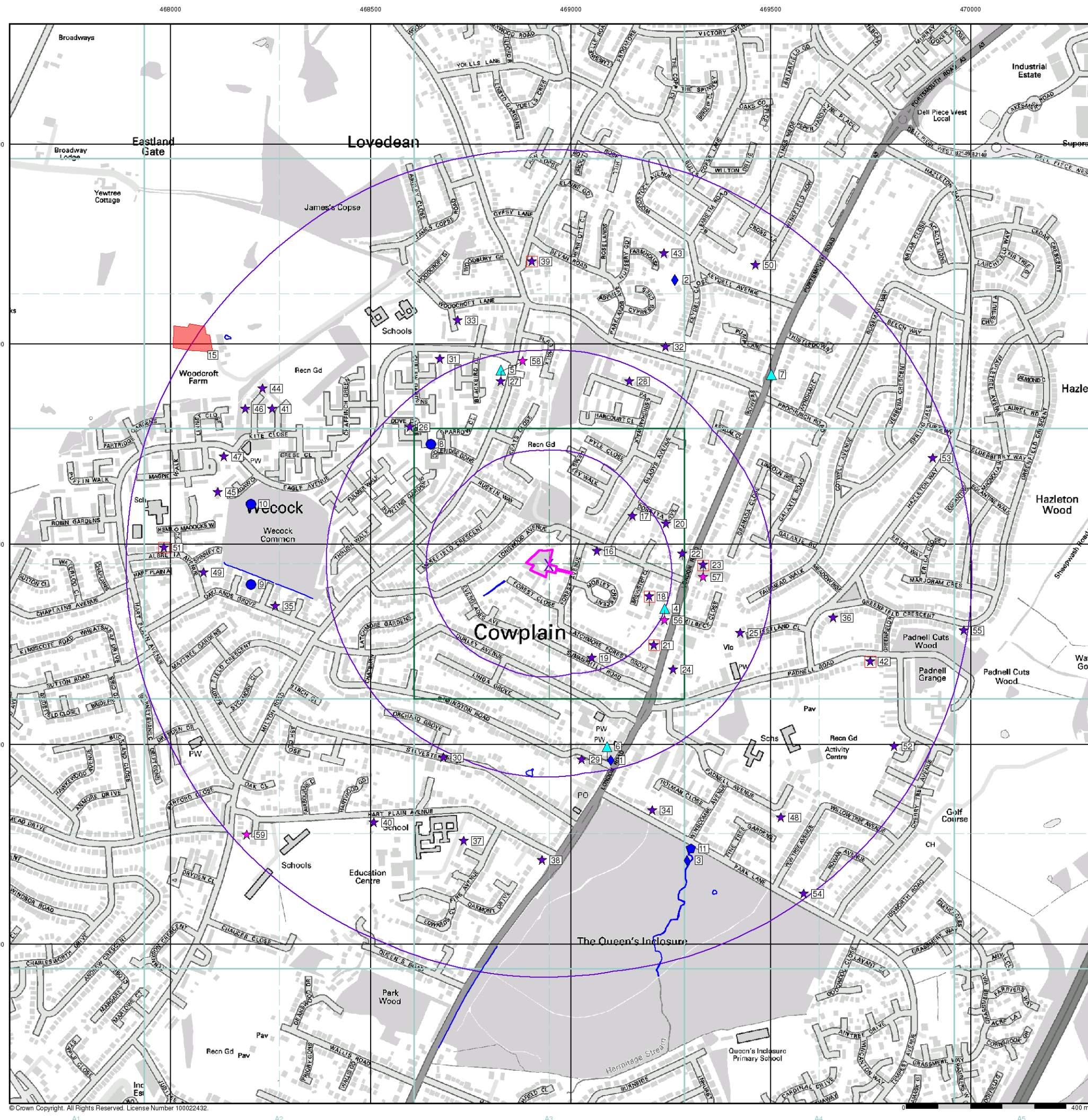


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 Slice: A
 Site Area (Ha): 0.31
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Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



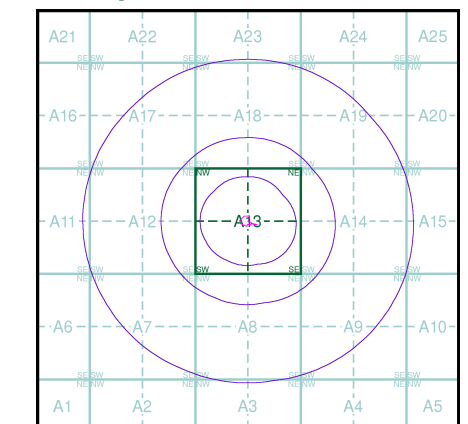
General

-  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

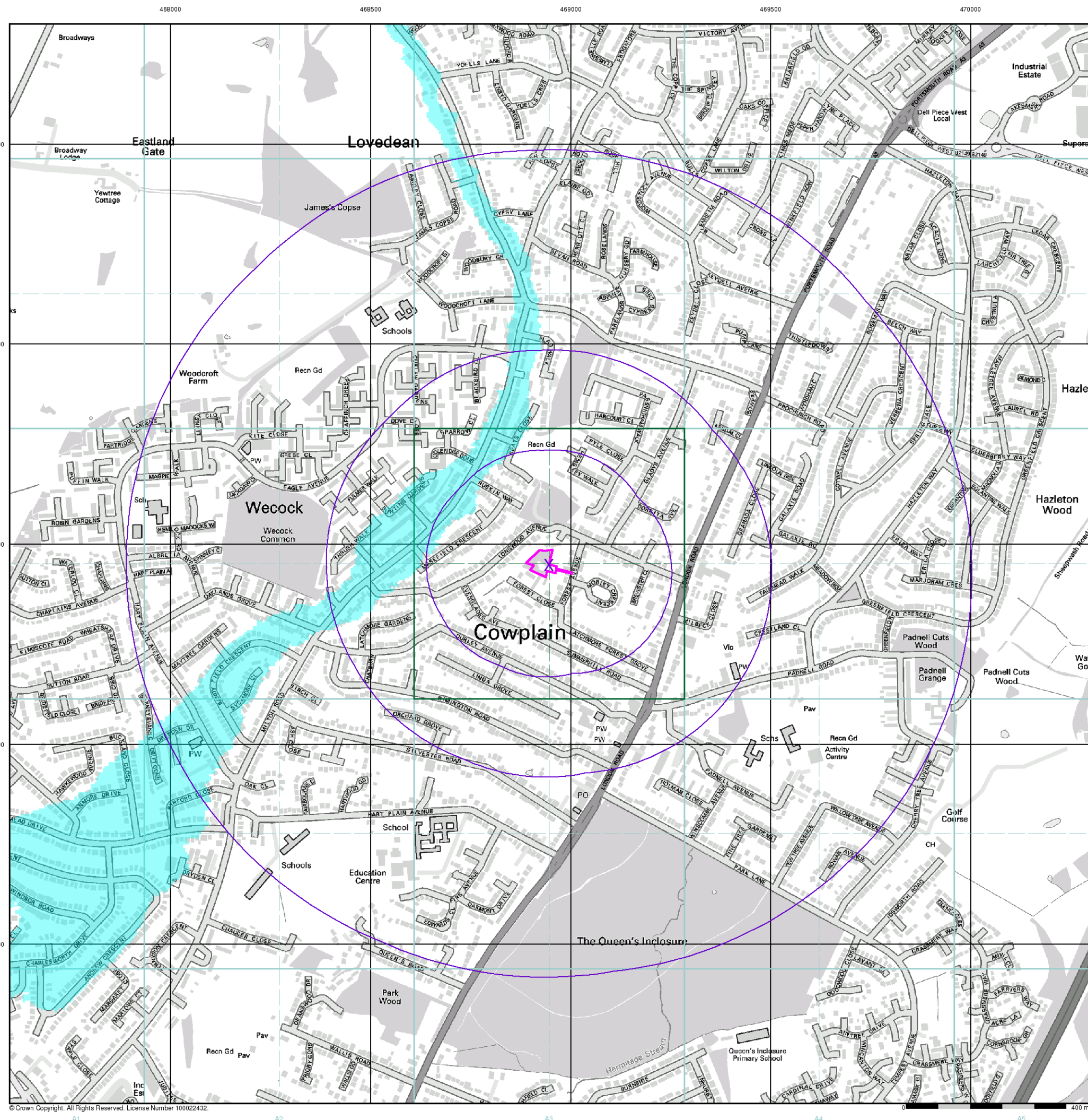


Order Details

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 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
 PO8 8JD



General

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

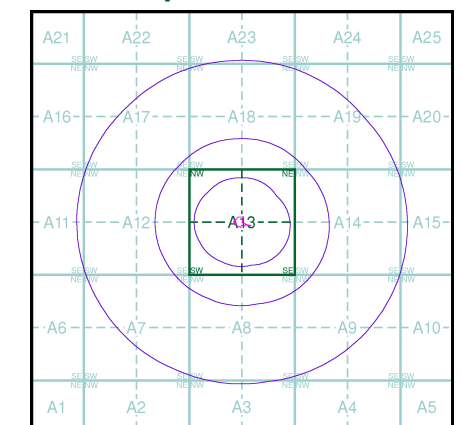
Agency and Hydrological (Boreholes)

-  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

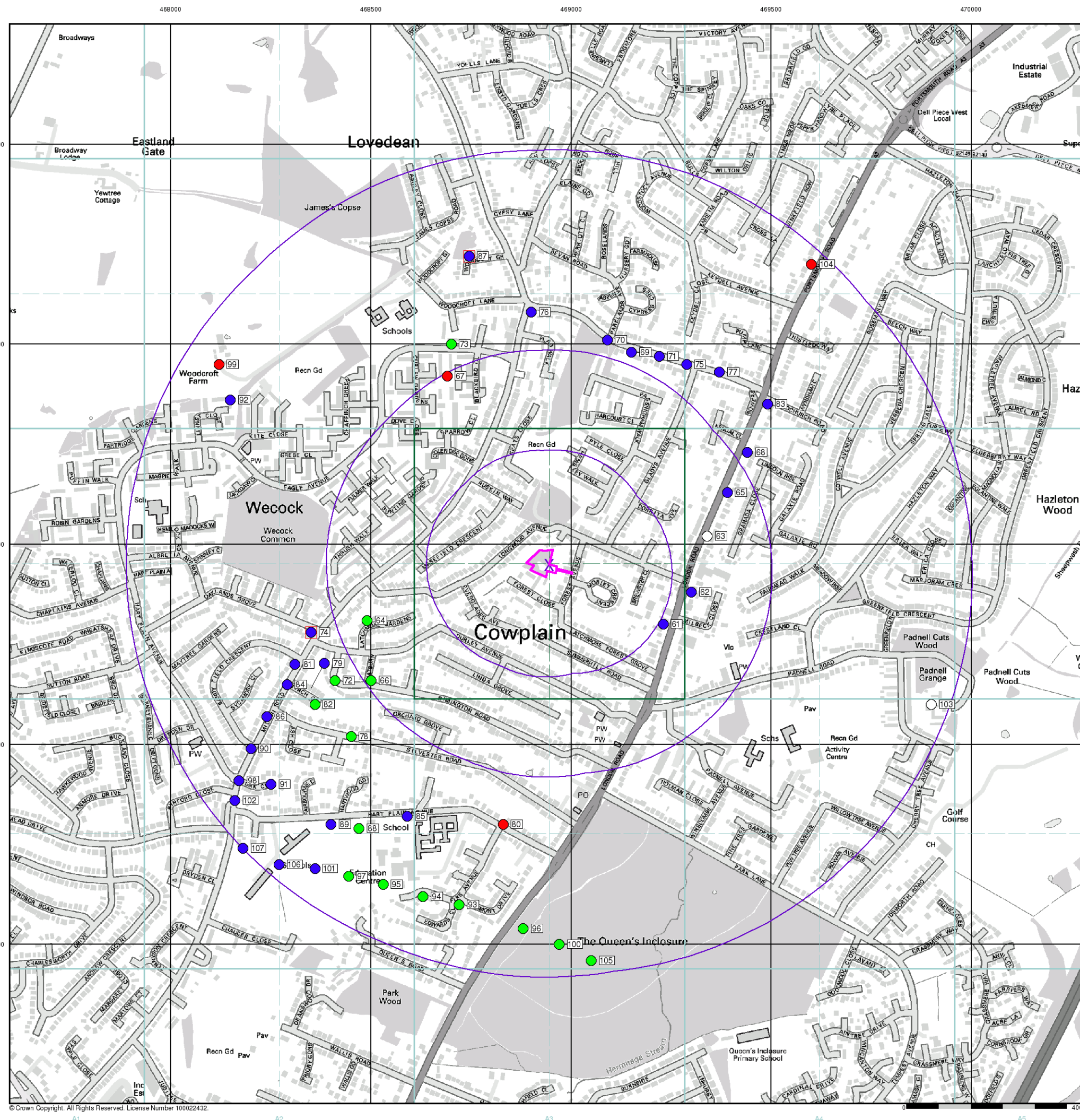


Order Details

Order Number: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
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 Site Area (Ha): 0.31
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Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD

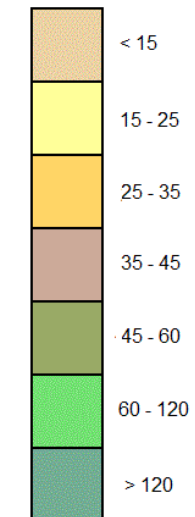


General

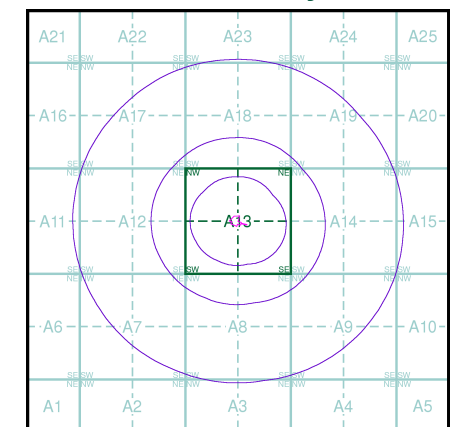
 Specified Site
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  Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

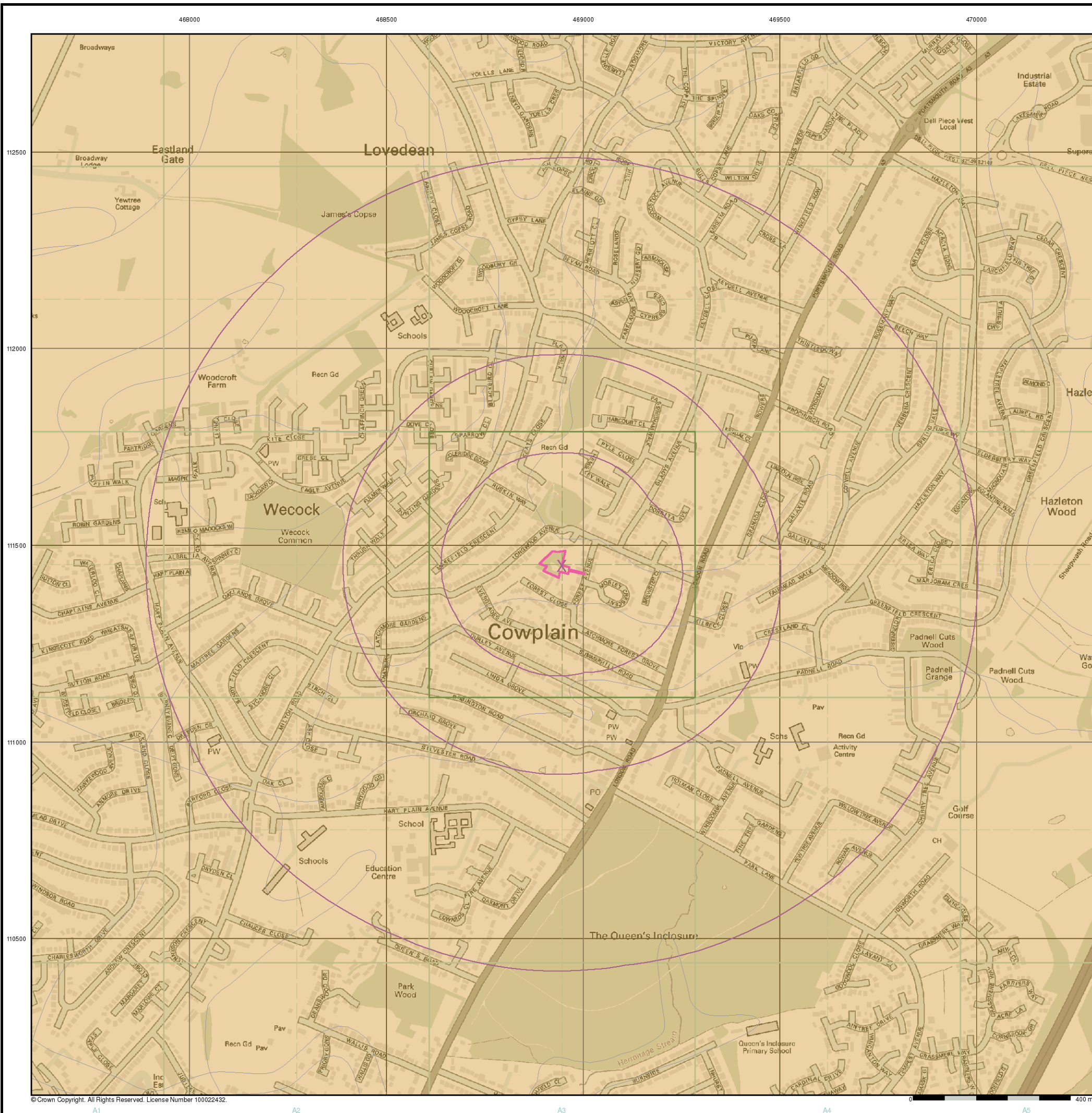


Order Details

Order Details: 42112870_1_1
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 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD

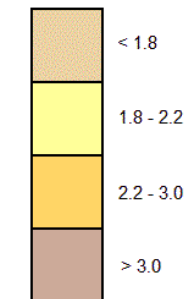


General

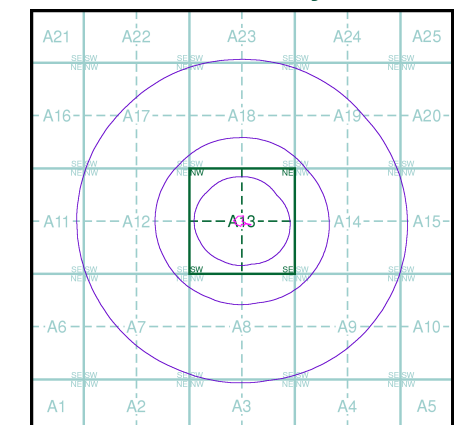
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

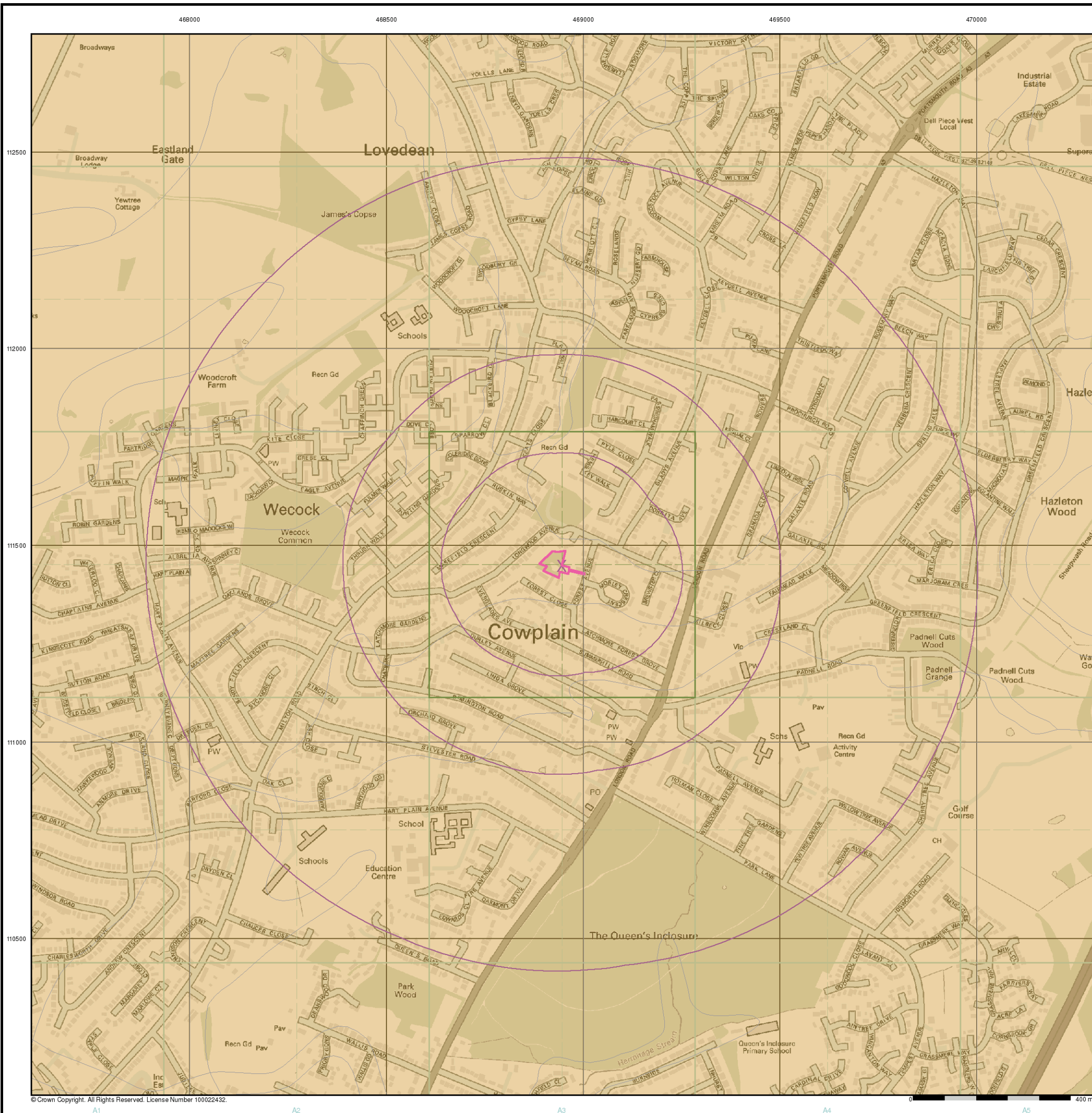


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 Customer Ref: 13283
 National Grid Reference: 468950, 111450
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Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire,
 PO8 8JD

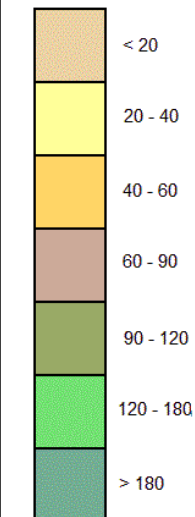


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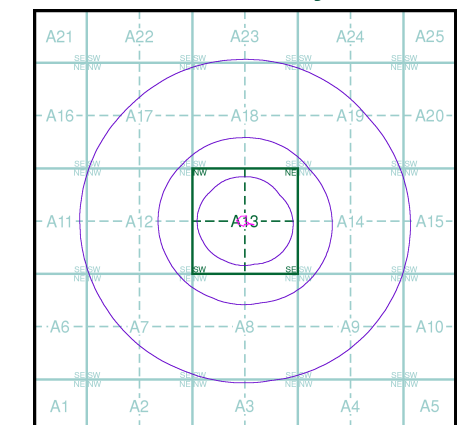
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  Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

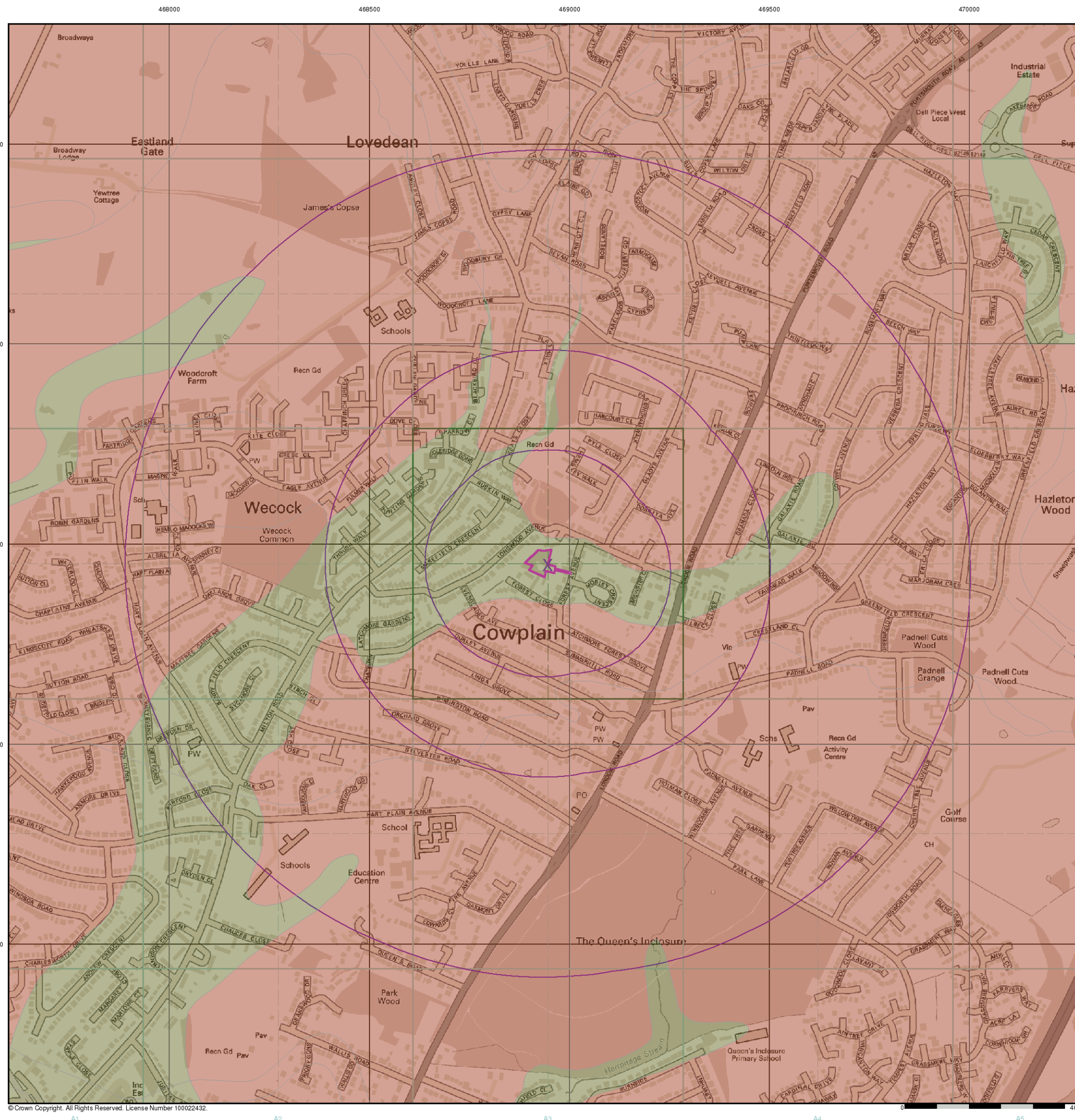


Order Details

Order Details: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
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 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD

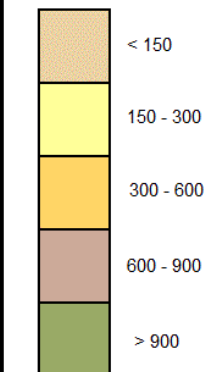


General

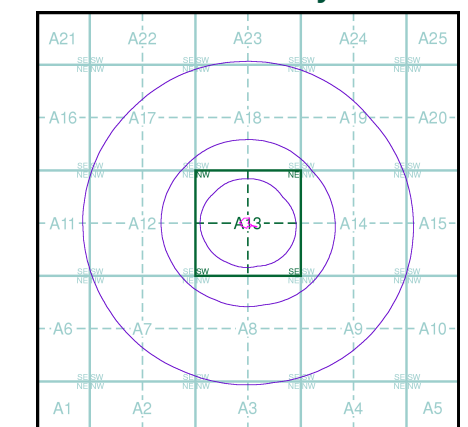
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

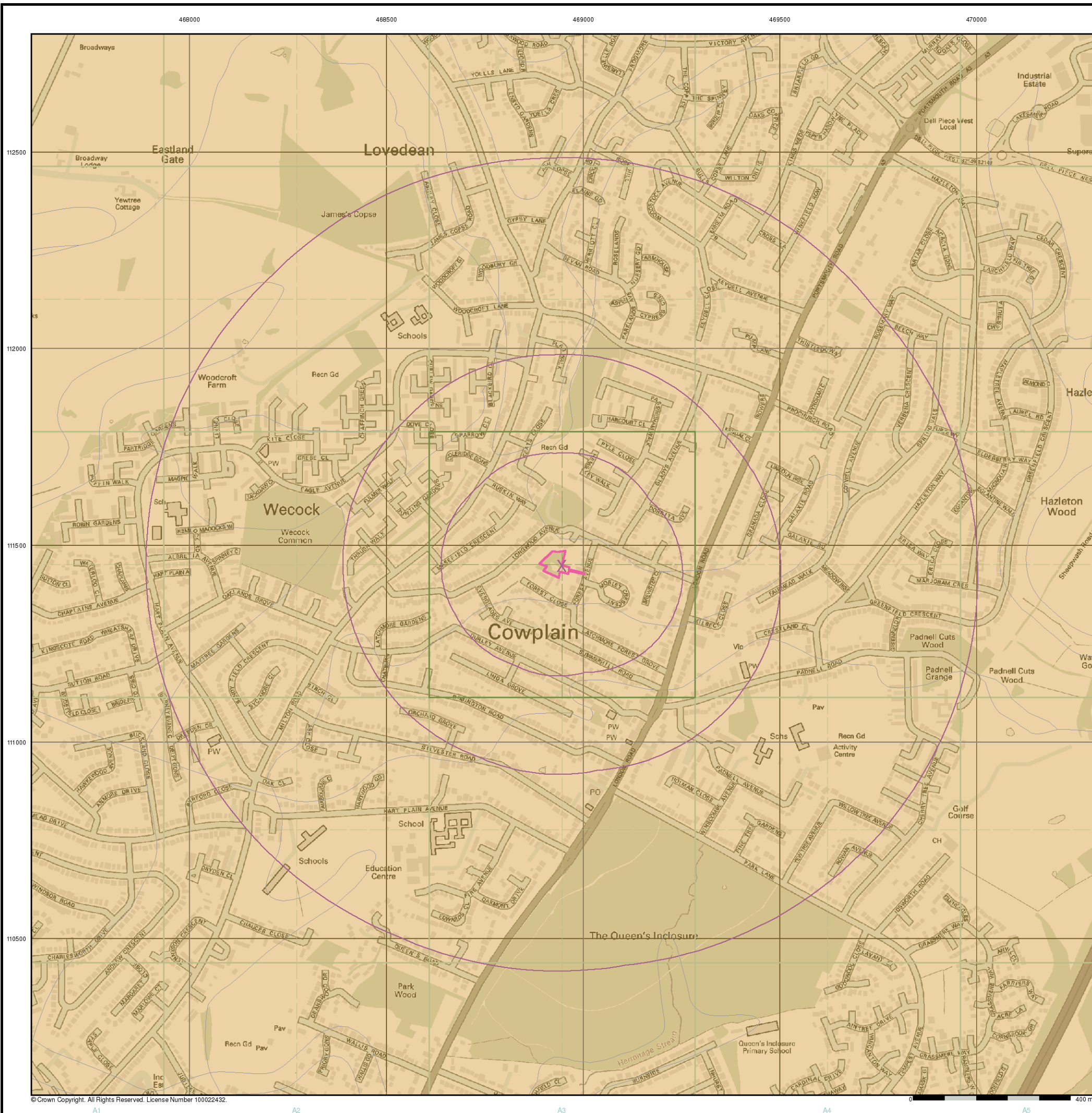


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Site Details

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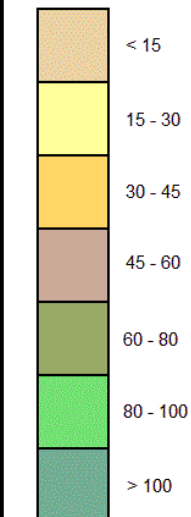


General

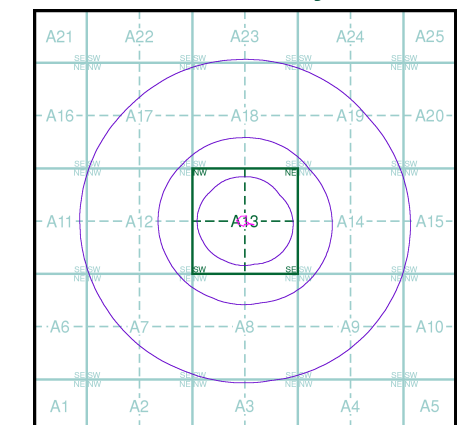
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

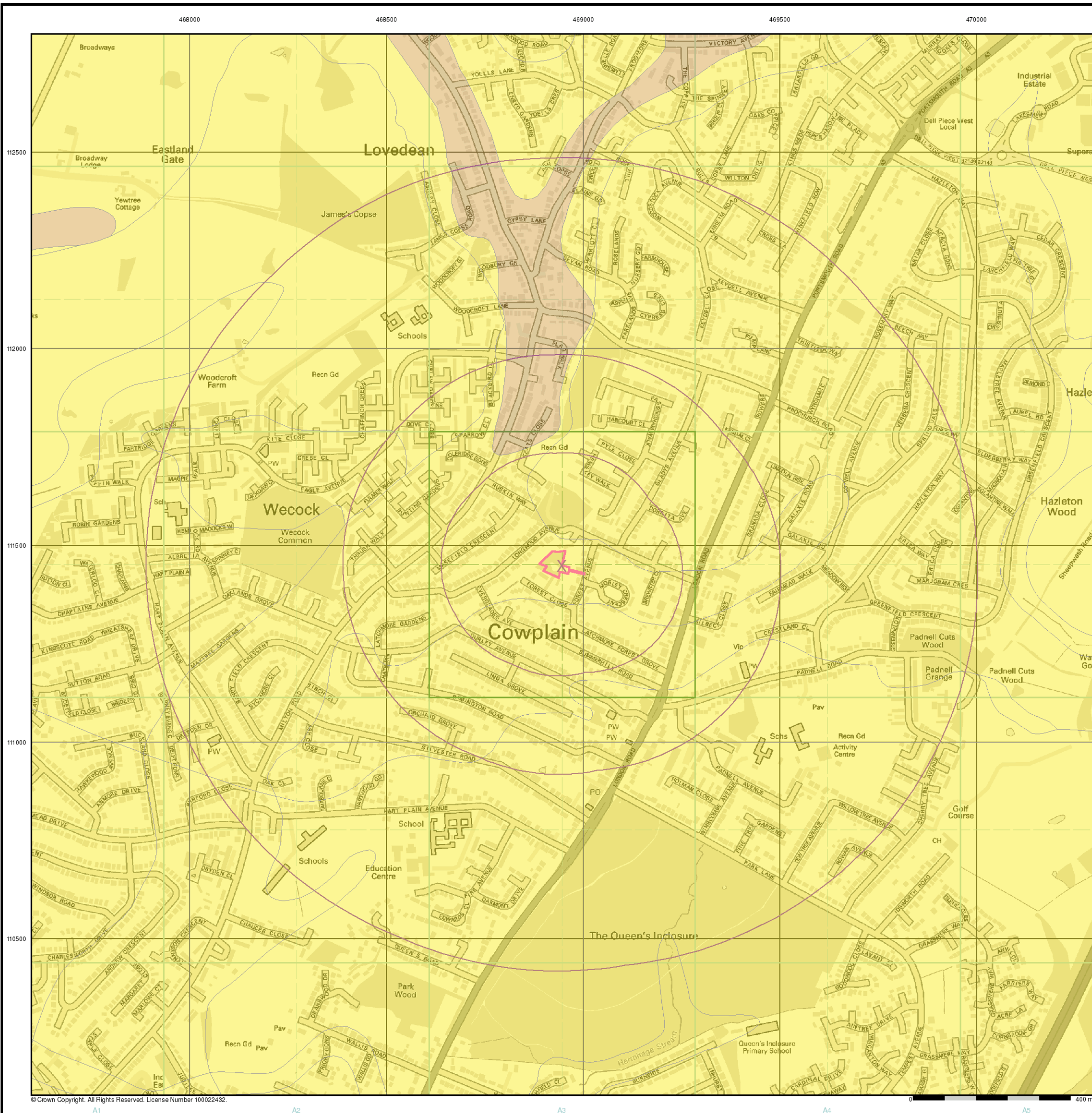


Order Details

Order Details: 42112870_1_1
 Customer Ref: 13283
 National Grid Reference: 468950, 111450
 Slice: A
 Site Area (Ha): 0.31
 Search Buffer (m): 1000

Site Details

20 Forest Avenue, Cowplain, WATERLOOVILLE, Hampshire, PO8 8JD



Appendix D Site Photographs









