Report on
Desk Study

(Area A – Proposed Domestic Houses)

58-64 STATION ROAD
HAYLING ISLAND, HAMPSHIRE
PO11 0EL

For : Mr Nigel Slydell

Report Ref: 517 / R01

Dated : 15th November 2014

Director : D I Grant BSc (Hons) PhD

Geotechnical & Geoenvironmental Consultants

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Prepared for Nigel Slydell
by Dig-Geotech Ltd

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1. INTRODUCTION

Mr Nigel Sydell wishes to develop a site at 58-64 Station Road, Hayling Island, Hampshire. The proposed development area is shown by Figure 1. The north-eastern part of the site is to become domestic housing. The south-western part of the site is to become commercial offices. This report refers to the northeast, domestic part of the site only. The south-western part of the site is discussed in Report No 517 / R02.

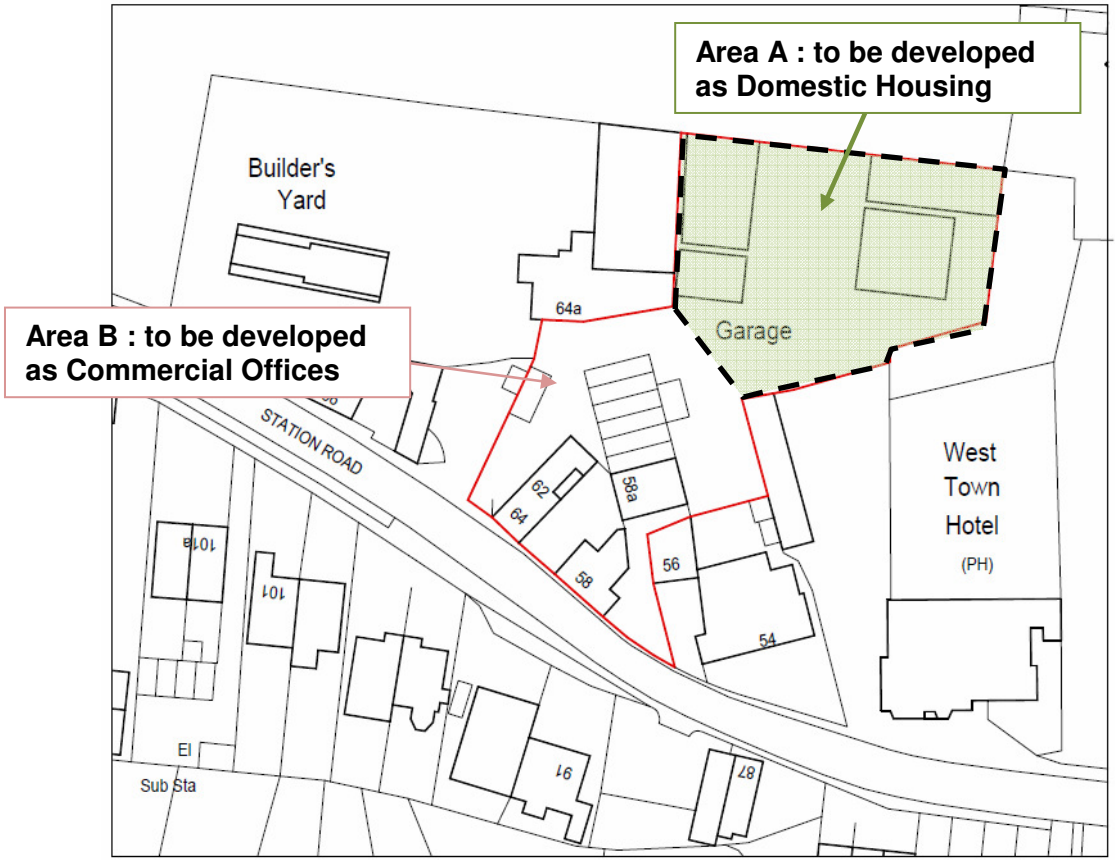


Figure 1 : Proposed Development Area

Dig-Geotech Ltd has been requested by Mr Slydell to carry out a desk study related to potential land contamination for the site.

This report details the desk study works carried out, presents the results and discusses the findings in relation to the proposed development.

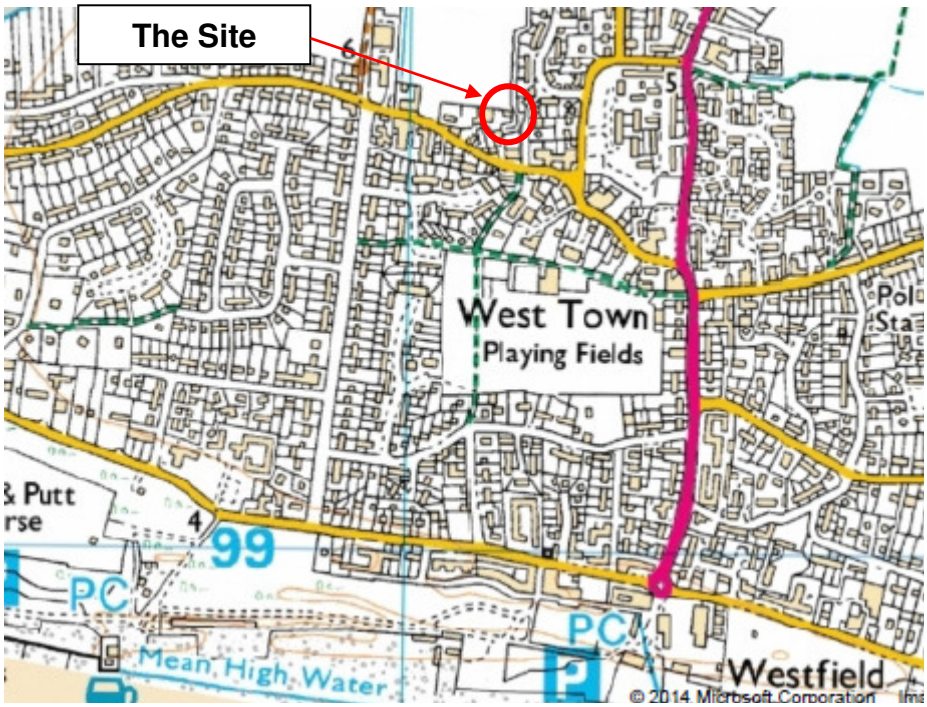
2. THE SITE

2.1 Site Location and Topography

The site is located to the north of Station Road, Hayling Island, Hampshire (Figures 2, 3). OS map information suggests the site to be at an elevation of about 5.8mOD. Landfall in the area is a very shallow drop in levels towards the north and west. The site itself was more or less level.

At the time of the desk study the site comprised a motor repair garage. Photographs taken as part of the site reconnaissance are enclosed as **Appendix B**.

The site was bounded to the west by a Jewson's builder's merchants. To the east and north were mostly gardens of properties on Station Road and to the north a shallow ditch with an open field beyond.



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Figure 2 : Site Location



Figure 3 : Site Location

2.2 Geology

The 1:50,000 British Geological Survey (BGS) map for the area shows the site to be underlain by *River Terrace Deposits (sand, silt & clay)* over the *London Clay Formation*. However a sub-crop of the *Portsmouth Sand* is shown underlying the Terrace Gravels a very short distance south of the site. The underlying soils are hence likely to be a Terrace Gravels near the surface and a London Clay at depth, with a small possibility of a more sandy stratum at depth towards the south of the site.

2.3 Proposed Development

Appendix A shows the currently proposed layout. The site is to be redeveloped as five domestic houses with areas of private gardens. The houses are towards the north & east of the site with driveways and allocated parking to the south.

2.4 Previous Reports

A ground investigation was carried out at the site in October 1998. The works were by Structural Soils Ltd (*Ref 1*) and comprised four window sampler boreholes to 3.4m depth. The boreholes showed 0.3m of made

ground over clays, gravels and sands. Four soil samples were sent for laboratory chemical analysis. The letter report noted the samples as tested for an ICRCL Suite. Results showed all sample test results as below relevant ICRCL and Dutch Ministry of Housing thresholds for a commercial use. The results table was unfortunately not legible in the copy provided for review. We have contacted Structural Soils Ltd and they do not have a better copy of the report.

3. DESK STUDY

3.1 Information Sources

Desk study information was obtained from a number of sources as follows:

- Historic maps – EnviroCheck Report
- Groundwater and other environmental data – EnviroCheck Report
- Historical Trade Directories – EnviroCheck Report

An EnviroCheck Report is a commercially available report that provides historic maps and other database information for a site. A copy of the EnviroCheck report for the site is enclosed as **Appendix C**.

3.2 Historic Maps

Historic Ordnance Survey maps from 1867 to present were inspected at scales of 1:2500, 1:10000 & 1:10560. Copies of the maps are enclosed within Appendix C. The site outline shown of the maps is for the whole of the site at 58-64 Station Road. The area of interest to this report is for the northeast portion as shown by Figure 1.

The earliest large scale map consulted was a 1:2500 Ordnance Survey plan from **1867-81**. The map showed the site and much of the surrounding area as open fields. Some housing and gardens were present on land to the immediate southwest.

The **1898** OS plan showed no change to the site itself which remained an open field. A *gas works* was shown on land to the southwest.

A later plan for **1909** showed no change, but by **1932** a round structure was showing about mid site. Other historical evidence has shown the round structure to have been a gas storage holder.

The next available large scale plan was for **1969**. The gas works was no longer shown adjacent to the southwest of the site and the gas storage holder had been removed from the site also. A *coal yard* was shown on land to the immediate west with a set of *Hoppers* just within the site at the west boundary. Interviews with the site owner has revealed the hoppers were in fact a ramp used to allow level loading of lorries from the adjacent coal yard. A **1979** OS plan showed no change to the site. The adjacent land to the west was no longer shown as a coal yard.

By **1987**, the site had become a *Garage* with one building at the west of the site. The land to the immediate west had become a *Builder's yard*.

The **1990** OS plan showed two further buildings within the garage and by **2006** a fourth building.

The latest map consulted was for **2014**. The map showed no change.

A walkover of the site and immediate surrounding area in October 2014 showed no significant change from the latest OS plans.

3.3 Other Environmental Information

A Other environmental information listed in the EnviroCheck Report can be summarised as :-

Discharge consents - nearest at 315m & lapsed. None other within 500m

Integrated Pollution Prevention & Control Licences or Local Authority Pollution Controls – none listed within 500m.

Surface water features - nearest 138m to the northwest.

Pollution incidences to controlled waters – none listed within 500m.

Water Abstractions – none within 745m

Groundwater vulnerability – Soils of high leaching potential (U)

Bedrock aquifer designation – Unproductive strata.

Superficial aquifer designation – Secondary aquifer – A.

Historical landfill sites - Nearest at 14m to the southwest. First input date 1982. Last input date 1984. Deposited waste included inert waste. None other within 500m

Registered landfill sites - Nearest at 97m to the southwest. Inert construction waste

BGS Recorded Mineral Sites - none recorded within 500m.

Radon - The site is within an intermediate probability radon area as between 1% & 3% of homes are above the action level.

Contemporary trade directory entries – *Haydon Garage*s is positioned at the site and *Jewson Builders* merchants adjacent (west).

Fuel stations entries – Nearest at 334m from the site.

3.4 Historic Trade Directory Information

The Envirocheck Historical Data Report enclosed within Appendix C showed :-

At the site

- Gas manufacture & distribution, 1898

Within 25m of the site

- None

Beyond 25m, within 250m

- Railways at 126m, 1879 -1962.

At beyond 250m and considered relevant to the site

- Railways at 257m, 313m, 374m. 1879 -1962.
- Clay brisk & tiles (manufacture) at 413m, 1879
- Unknown filled ground at 413m,1991

3.4 Local Historic Information

Local history information revealed as part of the desk study has shown the gas works was originally owed by *Harold Trigg*. It was sold on in 1903 after his death. The site later became a coal merchants (*Hayling Coal & Transport Co Ltd*) which appeared to have closed at about 1981. After that the site became a motor repair garage (*Hayden Garage*).

3.5 Walkover Survey

A walkover survey of the site was undertaken by an experienced geoenvironmental engineer on the 24th October 2014. Photographs taken as part of the walkover are enclosed as **Appendix B**.

The site was a motor repair garage. There were 4 No work sheds, a lorry trailer used as a store and a paved yard area. The yard area was mostly concrete paved, although in places the concrete was warn and with gravels showing below. Generally the site was in good order with no evidence of fly tipped material, wastes storage or major spillages / oils staining.

Within the site were two above ground oils tanks. One at the northwest of the site was for waste oil and a second at the northeast was for heating fuels. Figure 4 show the location for the above ground tanks and details other key observations during the site visit.

The site owners' and current operator were both present at the walkover. They reported that there were no underground tanks present to their knowledge.

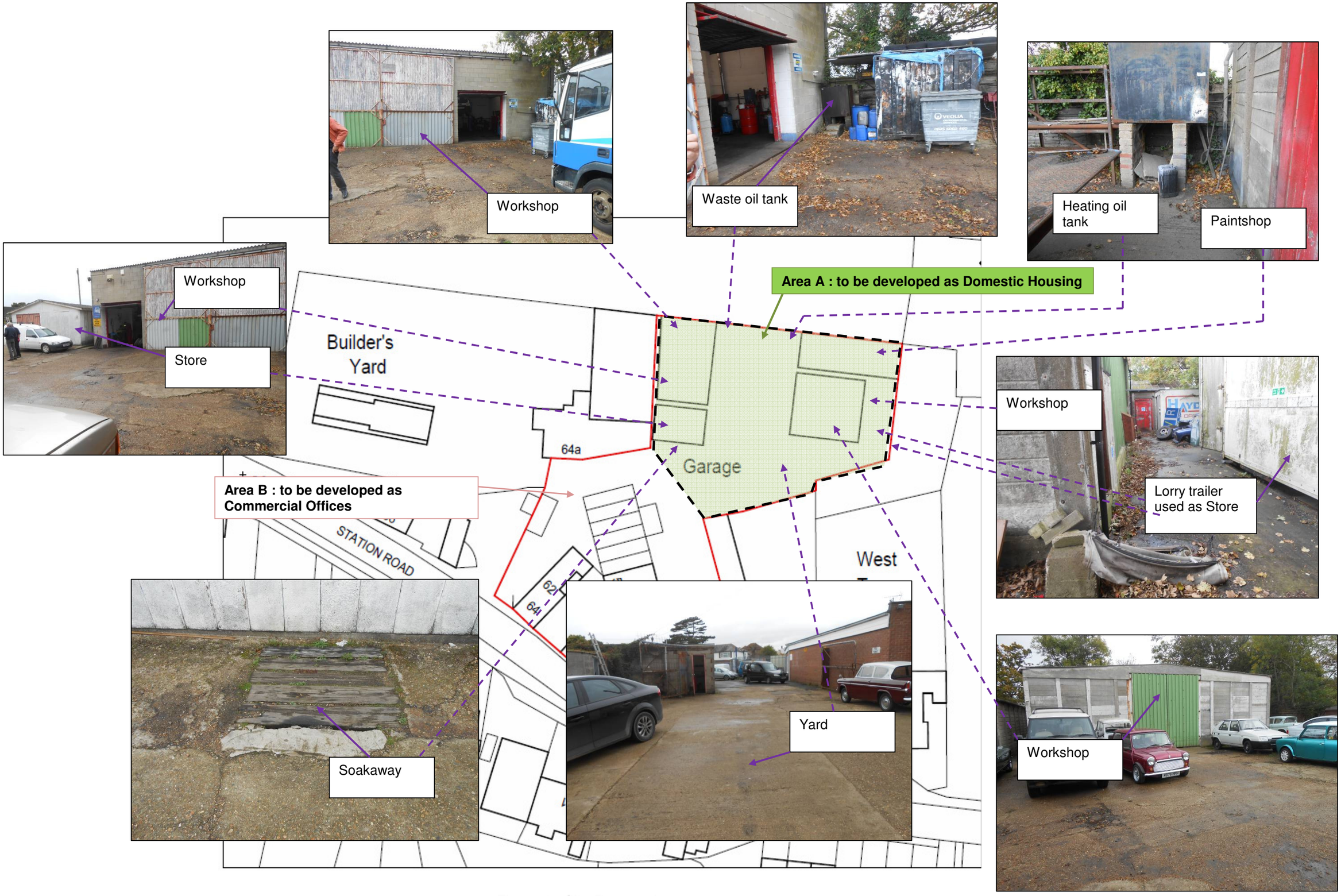


Figure 4 : Site Reconnaissance

4. CONCEPTUAL MODEL

4.1 Background

The risk of contamination in the ground impacting a site or any proposed development is typically assessed using a pollutant transfer model. For a risk to exist at a site there must be a ***hazard*** (eg. pollution in the ground), a ***receptor*** (eg building occupants, controlled waters) and a ***transfer path*** whereby the hazard can impact the potential receptor.

Only if a hazard, receptor and a pathway exist can contamination take place. The legal definition of contaminated land is precise and given in *Part IIA* of the *Environmental Protection Act 1990* (as amended by the *Environment Act 1995*). However planning guidance, land transfer liabilities and redevelopment issues usually mean that land contamination has to be considered and dealt with on most previously used land even though the site may not be *"contaminated land"* within any strict legal definition. The term *potential land contamination* is therefore more typically applied to such land.

The likely affect of any contamination in the ground is assessed by forming a ***Conceptual Model***. The Conceptual Model presents the likely sources of contamination, the likely targets and considers the pathways via which the sources of contamination may impact the targets. A *Preliminary Conceptual Model* is formed at the desk study stage and is used to determine the need for an intrusive ground investigation. The model can then be updated following the results of any intrusive investigation and the updated model used as a basis for recommending remediation works.

The basis for the conceptual model and any following intrusive investigation is generally in accordance with advice that has been prepared by UK Government bodies (*Refs 2, 3, 4*). The guidance is not yet fully formulated and not all risks have been defined. However the procedures to be used are well defined and, with the application of engineering judgement, a sound assessment may be made for most sites.

4.2 Site Specific Conceptual Model

4.2.1 Hazards

Desk study information has revealed the following potential hazards:-

Hazard	Source	Comments
Oils, fuels	Small spillages from parked vehicles, oil storage drums & above ground tanks	Unlikely to be present in very large volumes. Small significant 'hotspots' possible.
Metals and or asbestos fibres	Lead, zinc, copper or asbestos fibres may potentially be present in eg hardcore used below workshed floors & hard standings etc	Natural gravel expected below site and hence unlikely to be present to significant depths.
Gas works wastes PAH's VOC's, heavy metals etc	Adjacent former gas works site	The adjacent site was a gas works. It is not expected that gas works waste shall be at the site.
Ground gases (methane & carbon Dioxide)	Off site waste, any on site putresible fill or gas works residues	The adjacent site was a gas works. It is not expected that gas works waste shall be at the site.
Radon gases	deep geology	Envirocheck report has suggested a risk

It should be noted that the above table refers to potential hazards only.

4.2.2 Receptors

Desk study information has revealed the following potential receptors:-

Receptor	Where	Comments
Humans	Building occupiers	The site is to be developed as domestic houses with private gardens.
	Site workers and future maintenance workers	Site workers and future maintenance workers need to be protected from potential contamination.

Receptor	Where	Comments
Surface waters	138m to the east	No desk study information suggesting risks to surface waters has been found
Groundwaters	Below the site	No desk study evidence to suggest risks to groundwater has been revealed.

4.2.3 Pathways

Desk study information has revealed the following potential pathways:-

Pathway	Receptor	Comments
Ingestion	Humans	The site is to be developed as domestic dwellings with private gardens. Ingestion is possible.
Dermal Contact	Humans	The site is to be developed as domestic dwellings with private gardens. Dermal contact is likely.
Inhalation (dusts)	Humans	Dusts may be inhaled from soils during construction.
Migration (gases)	Humans / buildings fabric	A radon gases membrane & modern air tightness requirements shall afford some protection
Leaching, adsorption etc	Groundwaters Surface waters	No significant contamination is expected that may impact the surface or groundwaters.

4.2.4 Preliminary Conceptual Model

The above information leads to the following ***Preliminary Conceptual Model*** :

The Hayden Garage on a part of 58-64 Station Rd, Hayling Island is to be developed as domestic housing. The site was an open field until the early 20th Century. After that time a gas holder was shown at the site. The site later became associated with the adjacent coal yard and in the late 20th century became the current car repair garage. No significant contamination is expected. However desk study information identified former site usage at the site and on adjacent land that warrants further investigation.

The following network diagram may be created to indicate the potential sources, pathways and targets more clearly:-

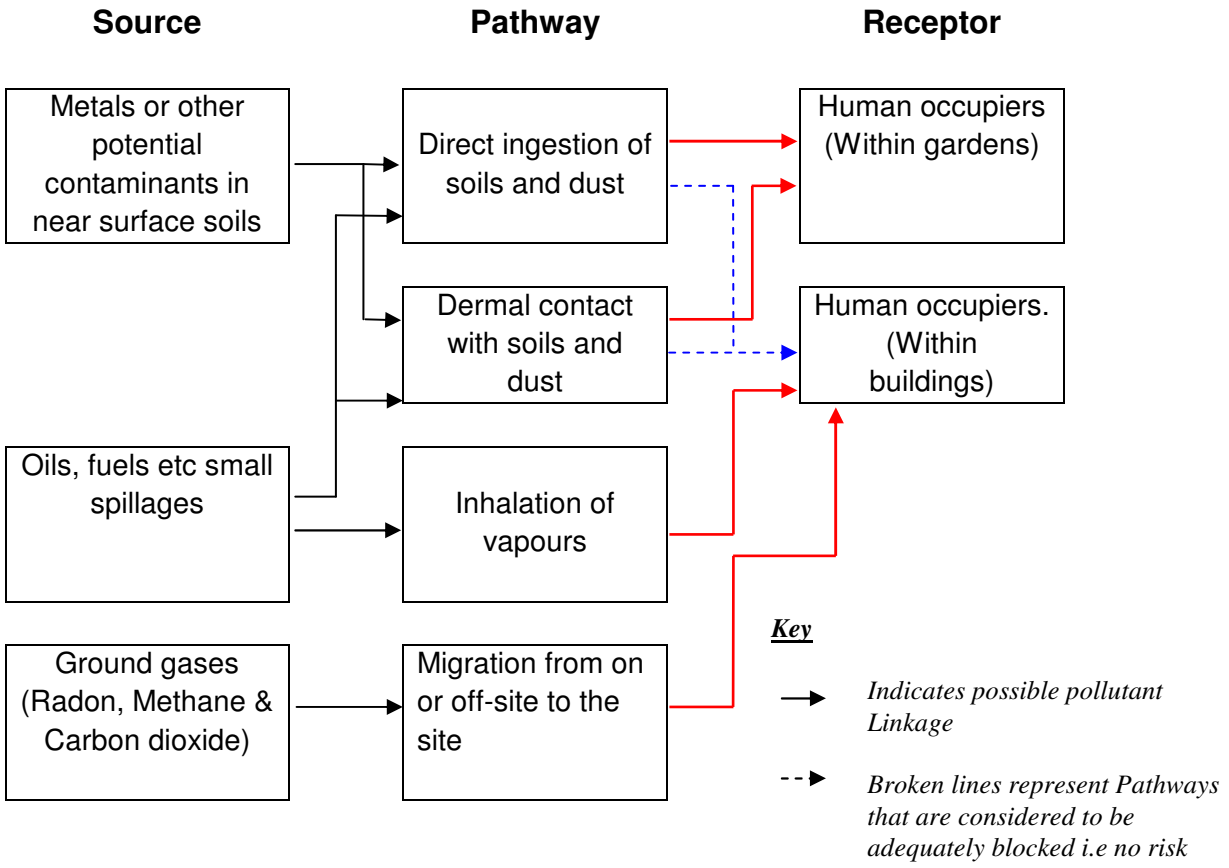


Figure 5 : Network diagram to show Preliminary Conceptual Model

The above diagram shows that the occupants within hard surfaced new buildings are not considered likely to be at risk from any minor soils contamination that may exist at the site. A risk may be present in garden areas if contaminates are present in near surface soils. The desk study information identified a risk due to possible gases migration that shall require addressing.

The above network diagram did not include future maintenance workers who should also be considered. All services trenches at the site should be over- excavated by 50mm and backfilled with clean granular soils.

Some ground investigation for potential ground contamination is recommended. Section5. discusses the issues in more detail.

5. DISCUSSION

5.1 Potential land contamination

Desk study information has identified a low risk of potential contaminants in the ground that could cause harm to human health.

The proposed hard surfaces to new buildings driveways, patios etc shall adequately block pathways that allow potential contaminants to impact future site occupants via ingestion and dermal contact. A greater risk shall be present within garden areas. However as the whole site is currently hard paved, new topsoil shall need to be imported to form garden areas. The imported clean topsoil can act as an adequate barrier to prevent future occupants coming into contact with potentially contaminated soils. The minimum depth of clean cover required shall need to be determined by ground investigation (see Section 5.3).

Oils, hydrocarbons, solvents etc may give cause to vapours that can cause harm to human health. In garden areas natural ventilation is sufficient to mitigate risks. Within buildings, concentrations of vapours can increase and a potential for harm can occur. For the site at 58-64 Station Road, a radon gases risk has also been identified and hence the buildings shall have a vapour proof membrane installed. The vapour proof membrane in conjunction with the proposed suspended floors & sub floor void are likely to form adequate protection to future site occupants.

5.2 Potential gases contamination

Desk study information identified a risk of radon gases due to deep geology. There is also a small risk at the site due to carbon dioxide & methane related to possible breakdown of putrescible materials, hydrocarbons, coal dusts etc that may be present within any fill materials at or near the site. A small risk also exists from possible migration to the site of gases associated with any residual gas works waste that may be present at the former gas works to the immediate southwest of the site.

Risks are considered low. Ground investigation is proposed for this and the adjacent site to determine depths of fill etc. The proposed domestic houses shall require a radon membrane. The radon membrane can easily be upgraded to give protection to ground gases and vapours too. It is recommended that such a membrane be included in the building design in lieu of site specific gases monitoring. If significant depths of made ground are revealed by the ground investigate, the need for gases monitoring may need to be reconsidered.

5.3 Suggested ground investigation

Intrusive ground investigation shall be required to determine more fully the potential risks at the site. Figure 6 shows a planned exploratory hole location plan.

Within proposed garden areas soils to about 1.5m depth should be sampled and tested for a range of potential contaminants to include metals, hydrocarbons & solvents. A number of near surface samples should also be subject to an asbestos fibres screen. Within the area of the former gas holder, soils should be tested to the full depth of any fill material plus about 1.0m penetration into the natural soils below. The testing regime with the former gas holder area should include a suite for typical coal gas residues.

Figure 6 also shows the proposed sampling regime for the adjacent part of the site that is to be developed as commercial offices. It is likely that both investigations would be carried out at the same time.

Exploratory holes could be via a window sampler apparatus or via excavator. A window sampler would cause less disturbance, but may struggle if the soils are particularly stony. A 10 tonne tracked or wheeled backhoe excavator would also be appropriate and may allow a greater number of exploratory holes in a day. However it would cause disruption

and backfilled pits may be unsightly.

5.4 Geotechnical considerations

Foundations advice and geotechnical issues are generally outside of the scope of this report. However foundations shall be required for the new buildings.

Competent soils are likely to be present at shallow depth, but groundwater levels may also be high making excavation of foundations trenches potentially unstable or requiring some form of simple dewatering.

Some ground investigation to confirm ground conditions at the site is hence considered advisable. Some simple machine excavated trial pits or window sampler boreholes supported by laboratory soils testing would be sufficient.

Key :

= Trial pit, Area A

= Trial pit, Area B

Trial pits may be replaced by boreholes if required

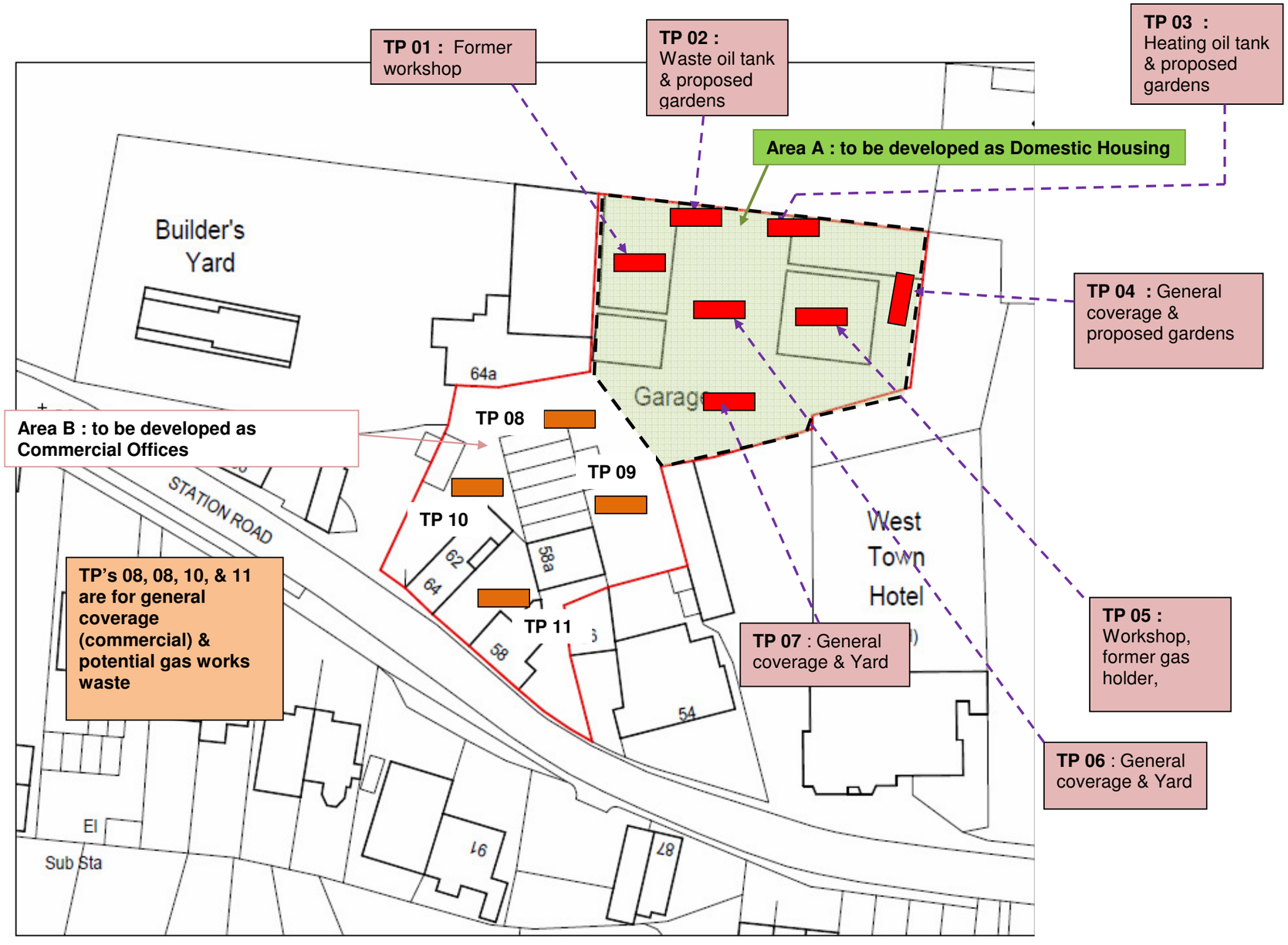


Figure 6 : Proposed Exploratory Hole Location Plan

6. CONCLUSIONS

A desk study for the area of some proposed domestic houses at 58-64 Station Road, Hayling Island has shown a low risk related to potential soil contamination. Some intrusive ground investigation for potential soil contamination has been recommended. Radon gases have been identified as a potential risk by desk study information and hence a radon resistant gases membrane has been recommended below domestic houses. It is further recommended that the radon membrane be upgraded to also guard against methane, carbon dioxide and any small volumes of vapours related to hydrocarbons residues.

The results of this report should be discussed with the local authority environmental health & planning teams prior to any works commencing at site.

Report prepared by



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15 November 2014

D I Grant BSc, PhD

References :

1. *Structural Soils Ltd (1998*). Contamination Investigation, Station Rd, Hayling Island. Letter to Slydell Ltd dated 30 October 1998 from Simon Pond. Ref 81031/SP.

2. *The Contaminated Land Exposure Assessment (CLEA) Model.* CLR 10 (and associated publications). DEFRA / Environment Agency. March 2002

3. *Nathanial CP et al. Generic Assessment Criteria for Human Health Risk Assessment.* Land Quality Press. Nottingham ISBN 0-9547474-3-7. (Produced for Chartered Institute of Environmental Health)

4. *Environment Agency (2010)*. Environment Agency Guiding Principals for Land Contamination (GPLC).

APPENDIX A

ARCHITECTS PLANS



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Location/Existing Block Plan 1:500

0 5 10 15 20 25m

N



Proposed Block Plan 1:500

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Figured dimensions to be taken in preference to scaled.
Dimensions to be checked on site before work commences.
No deviation from this drawing will be permitted without the prior written consent of the Architect.
Ground floor slabs, foundations, structure, etc., and all work below ground is shown provisionally and inspection of ground conditions is essential prior to work commencing.
Reassessment is essential when the ground conditions are apparent and redesign may be necessary in the light of soil conditions found.
The responsibility for establishing the soil and subsoil conditions rests with the Contractor.

revisions | date

drawing: PROPOSED OUTLINE PLAN

drawing no. rev.	date	scale(s)	sheet size
21412/SK01	SEP 2014	1:500	A4

client: N P SLYDELL

project: PROPOSED REDEVELOPMENT OF HAYDEN GARAGES, 62-64 STATION ROAD HAYLING ISLAND, HANTS PO11 0EL

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114 Havant Road ■ Hayling Island ■ Hampshire ■ PO11 0LJ
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APPENDIX B

PHOTOGRAPHS

(24th October 2014)


HAYDEN GARAGE.S
023 9246 2660
M.O.T.
Centre
R385 VUT


LPA 745A


YN51 HWG

APPENDIX C

ENVIROCHECK REPORT

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
61240163_1_1

Customer Reference:
DG 517

National Grid Reference:
471130, 99690

Slice:
A

Site Area (Ha):
0.29

Search Buffer (m):
500

Site Details:

N P Slydelc
58 Station Road
HAYLING ISLAND
Hampshire
PO11 0EL

Client Details:

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Prepared For:

Mr Nigel Sydell

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Geological	4
Industrial Land Use	6
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Data Currency	9
Data Suppliers	13
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Introduction

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

In 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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Report Version v49.0

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

Envirocheck®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites				
Historical Landfill Sites				
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				
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 4	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 4	Yes	Yes	Yes
BGS Recorded Mineral Sites				
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain				n/a
Potential for Collapsible Ground Stability Hazards	pg 5	Yes		n/a
Potential for Compressible Ground Stability Hazards				n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 5	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 5	Yes		n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes		n/a
Radon Potential - Radon Affected Areas	pg 5	Yes	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 6	2	14	n/a
Fuel Station Entries	pg 7			1
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	pg 8			1
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 8	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: Hermitage Housing Association Property Type: Undefined Or Other Location: Newtown Lane, Hayling Island Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: H00079 Permit Version: 1 Effective Date: 22nd January 1965 Issued Date: 22nd January 1965 Revocation Date: 31st March 1997 Discharge Type: Unknown Discharge Environment: Freshwater Stream/River Receiving Water: Freshwater River **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	315	2	471340 99980
	Nearest Surface Water Feature	A13NW (NW)	138	-	470981 99763
	Water Abstractions Operator: A C Cleeve & Sons Licence Number: 11/42/39/1 Permit Version: 100 Location: Higworth Point B, Hayling Island Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 218 Yearly Rate (m3): 8182 Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 23rd December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NE (E)	745	2	471910 99790
	Water Abstractions Operator: A C Cleeve & Sons Licence Number: 11/42/39/1 Permit Version: 100 Location: Higworth Point A, Hayling Island Authority: Environment Agency, Southern Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 23rd December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	892	2	471860 100280
	Water Abstractions Operator: A.C. Cleeve & Sons Licence Number: 39/1 Permit Version: Not Supplied Location: Higworth, HAYLING ISLAND Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 218 Yearly Rate (m3): 8183 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	910	2	471840 100330
	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 45 West Sussex and Surrey Scale: 1:100,000	A13NE (SE)	0	2	471130 99686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (SE)	0	3	471130 99686
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (SE)	0	3	471130 99686
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
	Detailed River Network Lines None				
2	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A13NW (NW)	138	2	470981 99763
3	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A13NW (N)	176	2	471078 99893
4	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A13NW (NW)	239	2	470991 99923
5	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A13NE (N)	255	2	471182 99971
6	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A13NE (N)	264	2	471206 99977
7	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A14NW (E)	384	2	471547 99779
8	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A18SE (N)	411	2	471221 100123
9	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A18SE (N)	413	2	471214 100126
10	**Detailed River Network Offline Drainage** River Type: Tertiary River Hydrographic Area: D007	A18SE (N)	478	2	471261 100185

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Havant Borough Council - Has supplied landfill data		0	8	471130 99686
	Local Authority Landfill Coverage Name: Hampshire County Council - Had landfill data but passed it to the relevant environment agency		0	7	471130 99686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: London Clay	A13NE (SE)	0	3	471130 99686
	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 (SE)	0	4	471130 99686
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 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)	9	4	471124 99633
	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	A13NW (W)	90	4	471000 99686
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 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 (W)	93	4	471000 99646
	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)	278	4	471130 100000
	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	A13NW (N)	303	4	471000 100000

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 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	A18SE (N)	437	4	471257 100144
	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				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	3	471130 99686
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	3	471130 99686
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	3	471130 99686
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	3	471130 99686
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	3	471130 99686
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	3	471130 99686
	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	A13NE (SE)	0	3	471130 99686
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	3	471130 99686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Contemporary Trade Directory Entries** Name: Hayden Garages Location: 62, Station Road, Hayling Island, Hampshire, PO11 0EL Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	0	-	471105 99671
11	**Contemporary Trade Directory Entries** Name: Medacx Location: 6 Frederick House,58 Station Rd, Hayling Island, Hampshire, PO11 0EL Classification: Medical Equipment Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	0	-	471107 99658
11	**Contemporary Trade Directory Entries** Name: Jewson Ltd Location: 64a, Station Road, Hayling Island, Hampshire, PO11 0EL Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	5	-	471108 99698
12	**Contemporary Trade Directory Entries** Name: United Carpet Cleaning Masters Location: 52b Station Rd, Hayling Island, Hampshire, PO11 0EL Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	38	-	471164 99646
13	**Contemporary Trade Directory Entries** Name: Macvere Engineering Ltd Location: 103, Station Road, Hayling Island, Hampshire, PO11 0EE Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	62	-	471028 99668
14	**Contemporary Trade Directory Entries** Name: Fire Glass Solutions Ltd Location: Dances Way, Hayling Island, Hampshire, PO11 0JP Classification: Glass Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	66	-	471209 99768
15	**Contemporary Trade Directory Entries** Name: Hayling Fire Centre Location: 63, Station Road, Hayling Island, Hampshire, PO11 0EB Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	112	-	471230 99602
15	**Contemporary Trade Directory Entries** Name: West Town Service Wash Location: 59, Station Road, Hayling Island, Hampshire, PO11 0EB Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	124	-	471241 99595
15	**Contemporary Trade Directory Entries** Name: Rowan Location: 57, Station Road, Hayling Island, Hampshire, PO11 0EB Classification: Photocopiers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	132	-	471249 99591
16	**Contemporary Trade Directory Entries** Name: Riddiford Racing & Engineering Location: Unit 5, Hayling Billy Business Centre, Furniss Way, Hayling Island, Hampshire, PO11 0ED Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	181	-	470965 99815
16	**Contemporary Trade Directory Entries** Name: Emco Education Ltd Location: Unit 4 Hayling Billy Business Centre,Furniss Way, Hayling Island, Hampshire, PO11 0ED Classification: Machine Tools - Manufacturers & Distributors **Status: Active** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	189	-	470958 99818

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Contemporary Trade Directory Entries** Name: Penguin Engineering Ltd Location: Unit 3, Hayling Billy Business Centre, Furniss Way, Hayling Island, Hampshire, PO11 0ED Classification: Marine Equipment & Supplies **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	195	-	470951 99819
16	**Contemporary Trade Directory Entries** Name: Gelfire Location: Unit 2, Hayling Billy Business Centre, Furniss Way, Hayling Island, Hampshire, PO11 0ED Classification: Candle Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	203	-	470938 99816
16	**Contemporary Trade Directory Entries** Name: Macvere Location: Unit 7, Hayling Billy Business Centre, Furniss Way, Hayling Island, Hampshire, PO11 0ED Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	205	-	470952 99836
16	**Contemporary Trade Directory Entries** Name: Europat Auto Location: Unit 6, Hayling Billy Business Centre, Furniss Way, Hayling Island, Hampshire, PO11 0ED Classification: Brake & Clutch Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13NW (NW)	215	-	470942 99841
17	**Contemporary Trade Directory Entries** Name: A.E. Mobile Marine Services Location: Flat 6, Deansfield Court, 39-45, West Lane, Hayling Island, Hampshire, PO11 0JJ Classification: Marine Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	199	-	471316 99850
18	**Fuel Station Entries** Name: West End Garage Location: 5, Station Road, HAYLING ISLAND, Hampshire, PO11 0EA Brand: Proteus Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	334	-	471402 99457

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Local Nature Reserves** Name: Hayling Billy Multiple Area: N Area (m2): 420241.76 Source: Natural England Designation Date: 15th October 2012	A13NW (NW)	264	5	470966 99935
20	**Nitrate Vulnerable Zones** Name: Not Supplied Description: Eutrophic Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13NE (SE)	0	6	471130 99686

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Havant Borough Council - Environmental Health Department	April 2013	Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	August 2014	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Southern Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Southern Region	August 2014	Quarterly
Local Authority Integrated Pollution Prevention And Control Havant Borough Council - Environmental Health Department	October 2012	Annual Rolling Update
Local Authority Pollution Prevention and Controls Havant Borough Council - Environmental Health Department	October 2012	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Havant Borough Council - Environmental Health Department	October 2012	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	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - Southern Region	August 2014	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	August 2014 August 2014	Quarterly Quarterly
Water Abstractions Environment Agency - Southern Region	July 2014	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	August 2014	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	October 2012	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	Annually
Source Protection Zones Environment Agency - Head Office	August 2014	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2014	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2014	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2014	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2014	Quarterly
Detailed River Network Lines		
Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage		
Environment Agency - Head Office	March 2012	Annually
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	May 2014	Quarterly
Environment Agency - Southern Region - Solent and South Downs	May 2014	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	August 2014	Quarterly
Environment Agency - Southern Region - Solent and South Downs	August 2014	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office	August 2014	Quarterly
Environment Agency - Southern Region - Solent and South Downs	August 2014	Quarterly
Local Authority Landfill Coverage		
Hampshire County Council - Minerals and Waste Planning	May 2000	Not Applicable
Havant Borough Council - Environmental Health Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Hampshire County Council - Minerals and Waste Planning	May 2000	Not Applicable
Havant Borough Council - Environmental Health Department	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - Southern Region - Hampshire Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Southern Region - Hampshire Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Southern Region - Hampshire Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	August 2014	Bi-Annually
Explosive Sites Health and Safety Executive	October 2014	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Havant Borough Council - Commercial Team Hampshire County Council - Minerals and Waste Planning	April 2013 September 2013	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Havant Borough Council - Commercial Team Hampshire County Council - Minerals and Waste Planning	April 2013 September 2013	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	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2014	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	December 2013	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	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2014	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	August 2014	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2014	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Outstanding Natural Beauty Natural England	August 2014	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2014	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2014	Bi-Annually
Marine Nature Reserves Natural England	July 2013	Bi-Annually
National Nature Reserves Natural England	September 2014	Bi-Annually
National Parks Natural England	August 2014	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)	July 2014	Annually
Ramsar Sites Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest Natural England	September 2014	Bi-Annually
Special Areas of Conservation Natural England	March 2014	Bi-Annually
Special Protection Areas Natural England	September 2014	Bi-Annually

A selection of organisations who provide data within this report

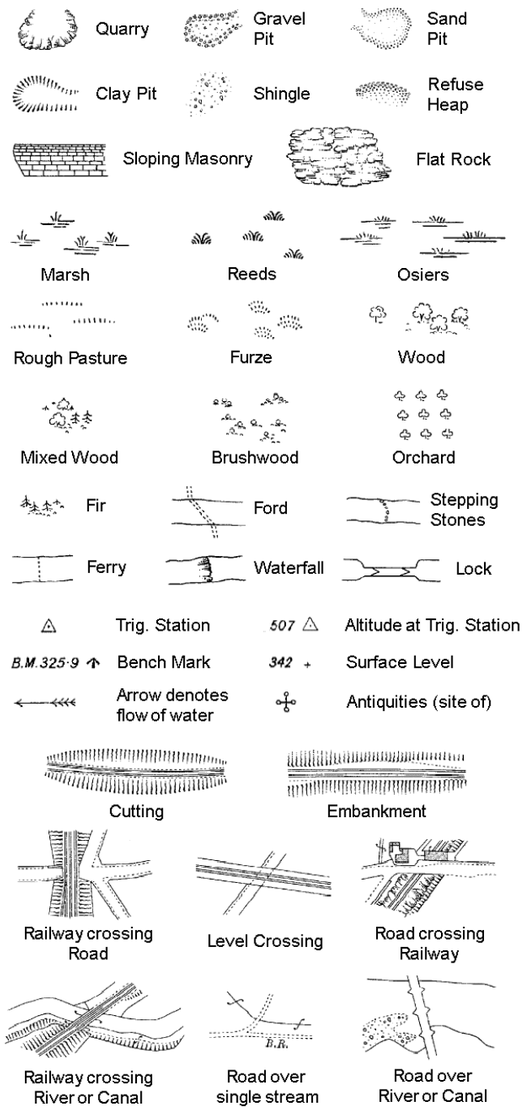
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.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** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
5	**Natural England** Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
6	**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
7	**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
8	**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
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

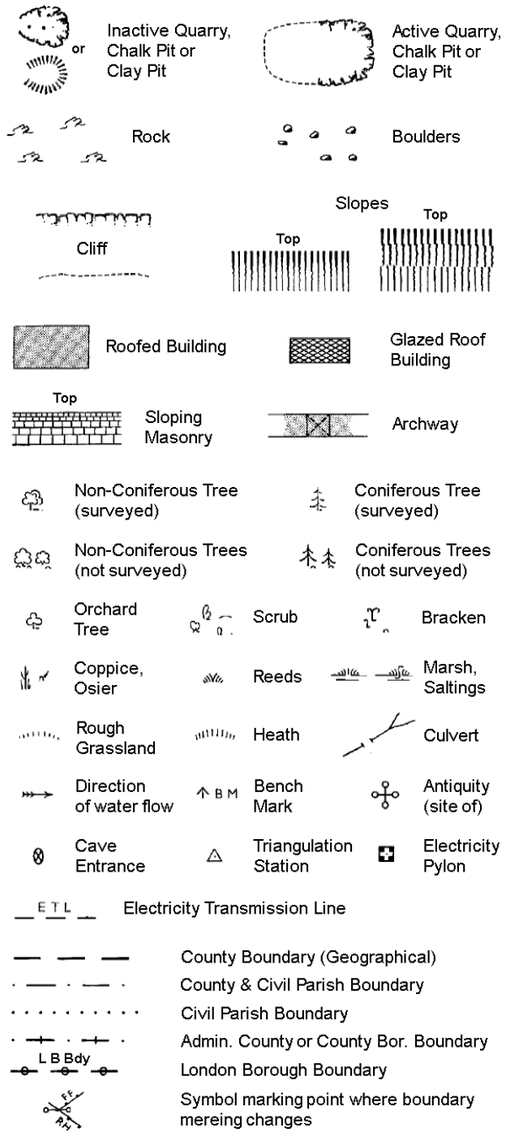
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

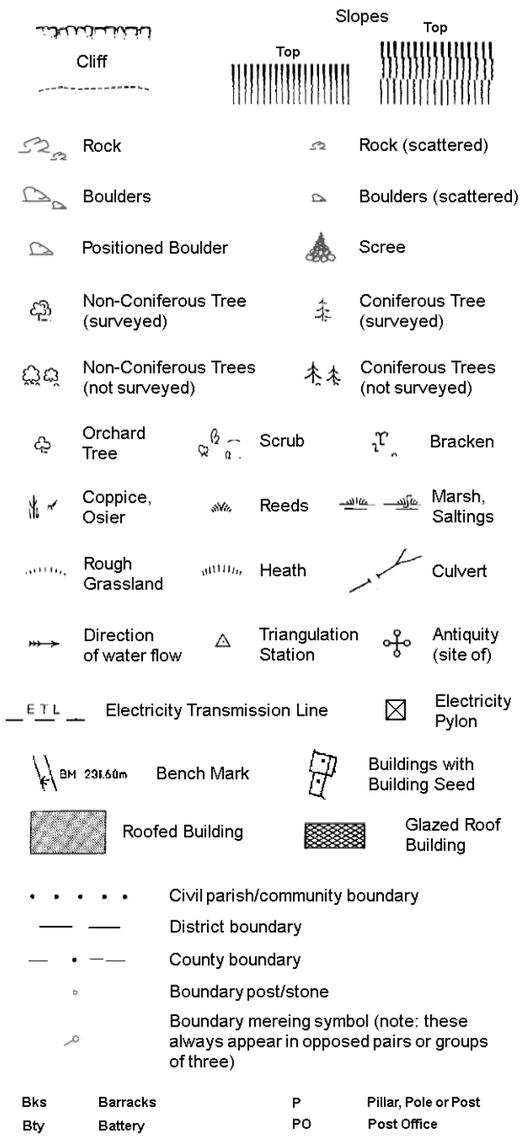
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

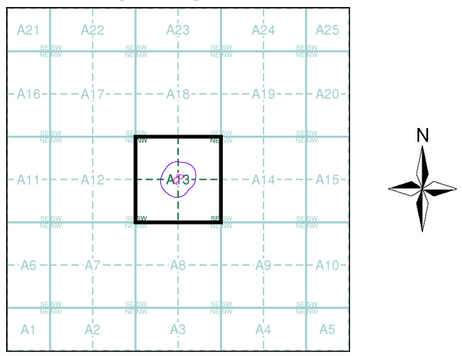
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hampshire & Isle Of Wight	1:2,500	1867 - 1881	2
Hampshire & Isle Of Wight	1:2,500	1898	3
Hampshire & Isle Of Wight	1:2,500	1909	4
Hampshire & Isle Of Wight	1:2,500	1932	5
Ordnance Survey Plan	1:2,500	1969	6
Additional SIMs	1:2,500	1979	7
Additional SIMs	1:2,500	1987 - 1988	8
Ordnance Survey Plan	1:2,500	1990	9
Additional SIMs	1:2,500	1990 - 1991	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:2,500	1996	12

Historical Map - Segment A13



Order Details

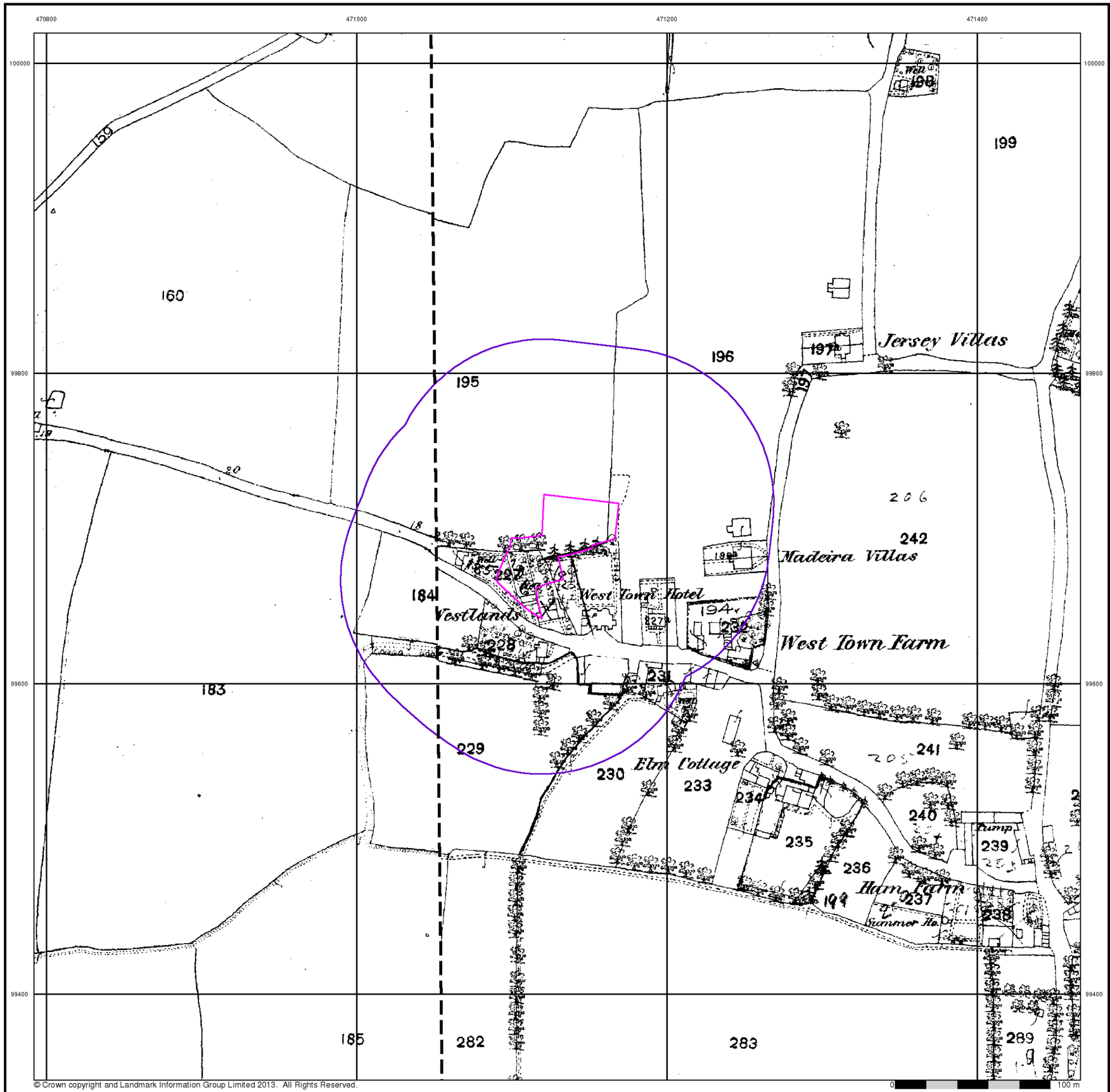
Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

N P Slydelc, 58 Station Road, HAYLING ISLAND, Hampshire, PO11 0EL

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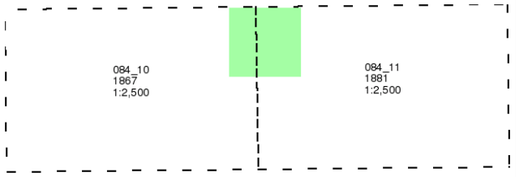
Hampshire & Isle Of Wight

Published 1867 - 1881

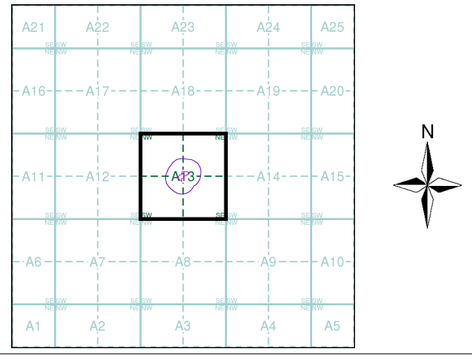
Source map scale - 1:2,500

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

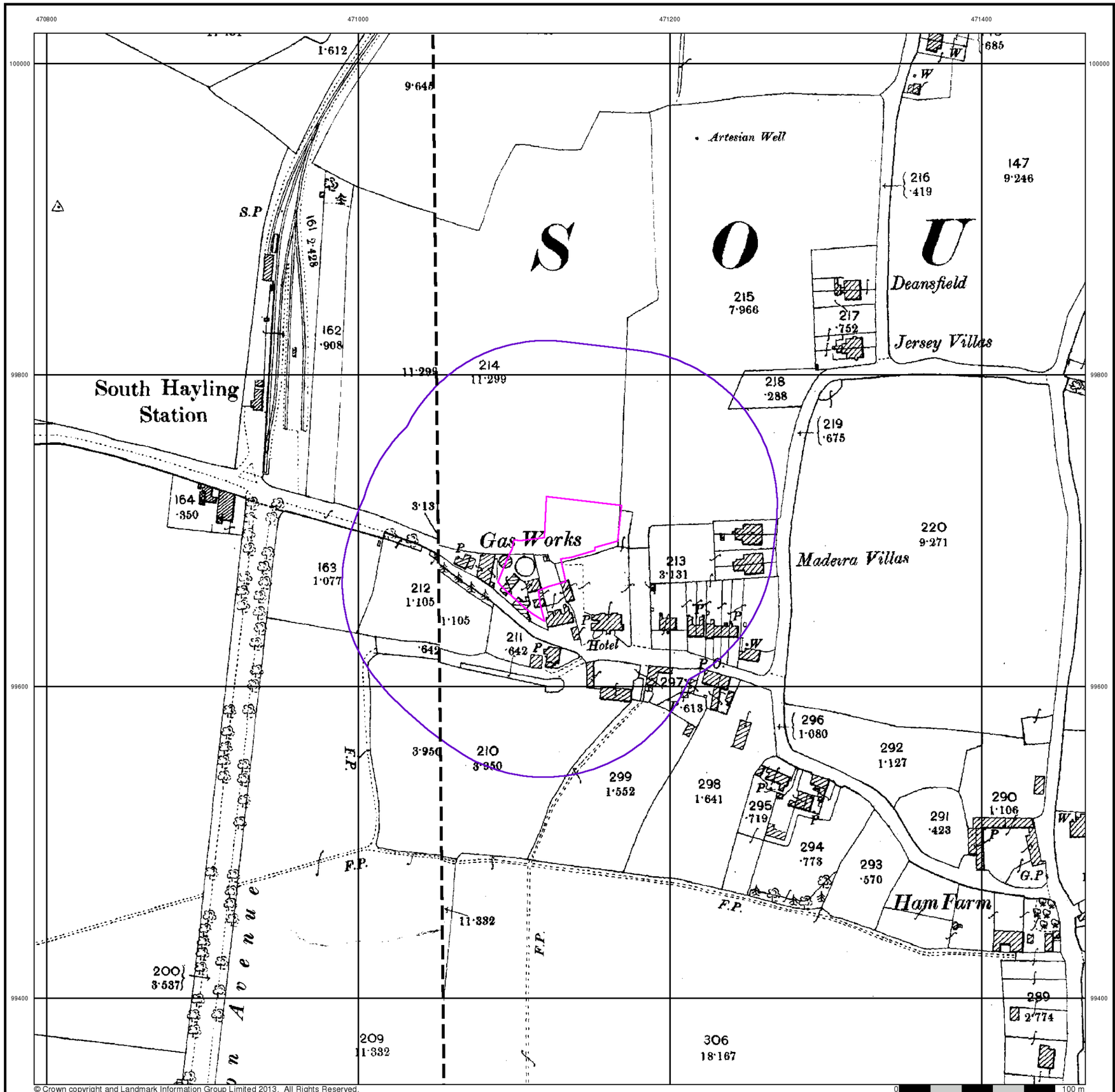
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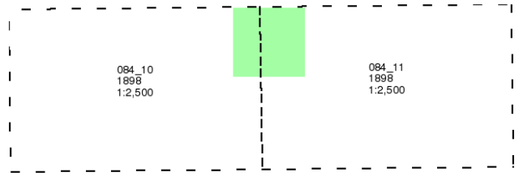
Hampshire & Isle Of Wight

Published 1898

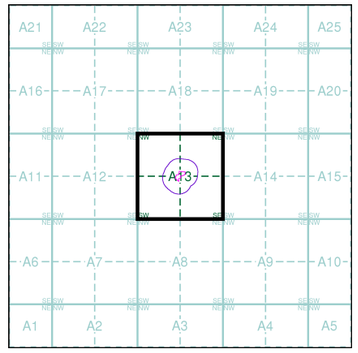
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



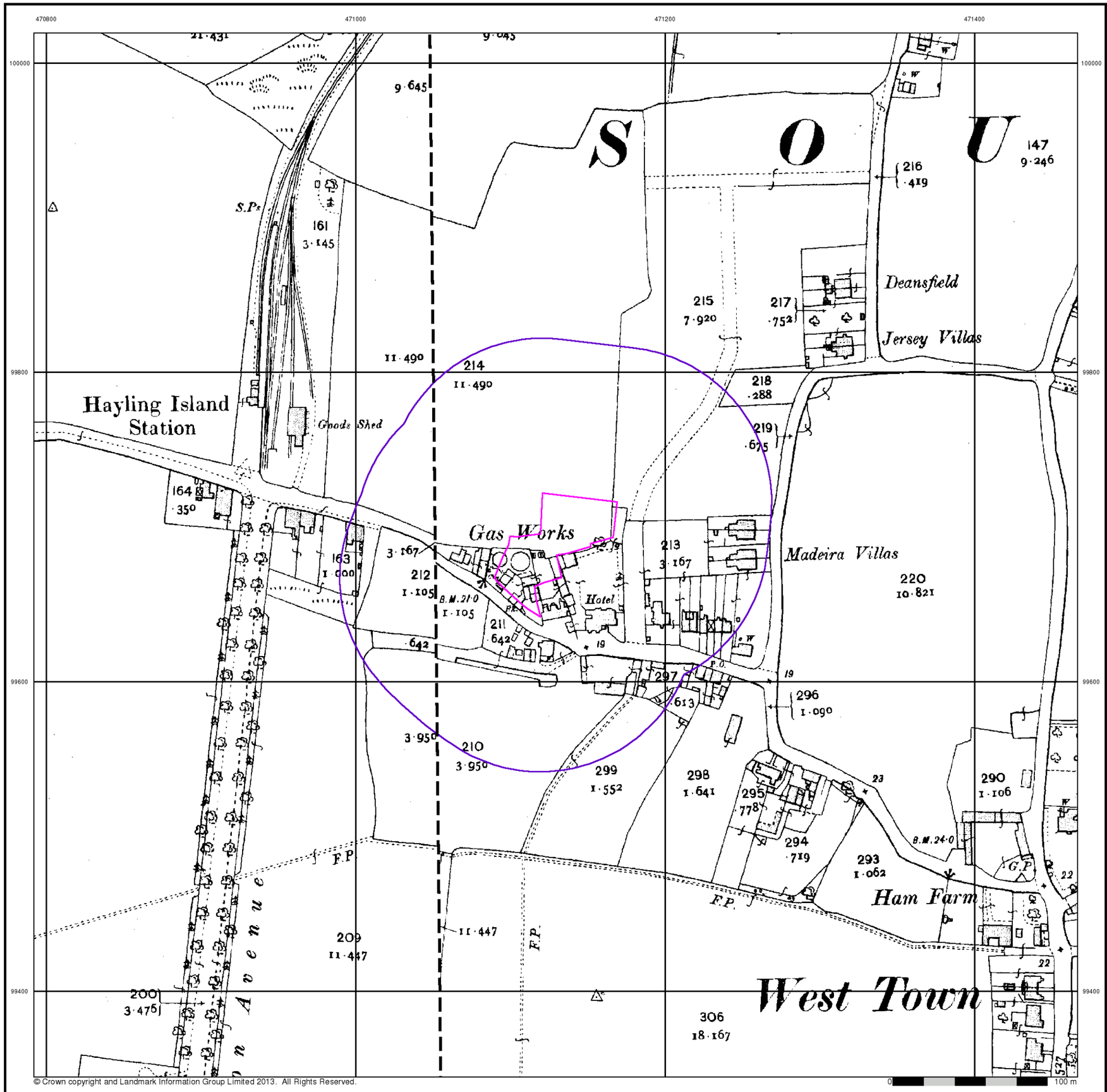
Order Details

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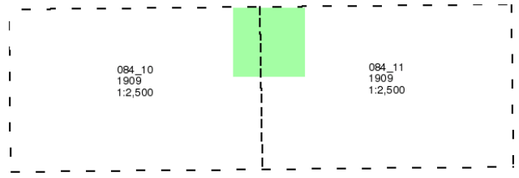
Hampshire & Isle Of Wight

Published 1909

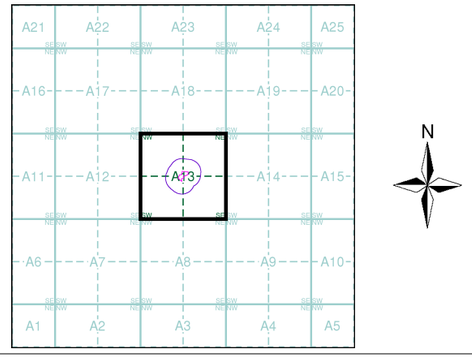
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Map Name(s) and Date(s)



Historical Map - Segment A13



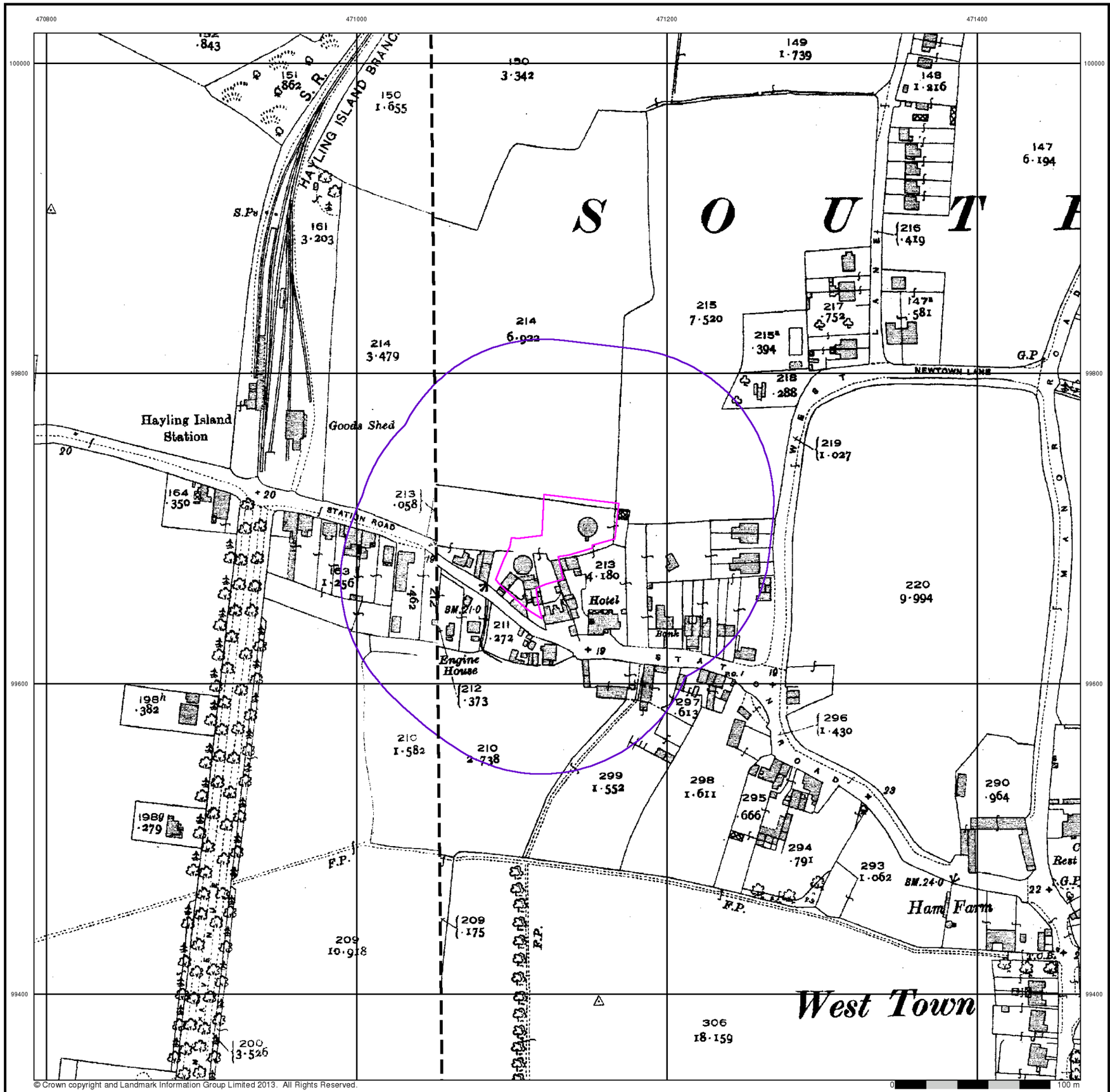
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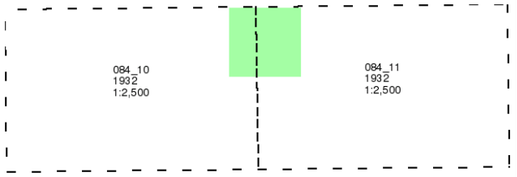
Hampshire & Isle Of Wight

Published 1932

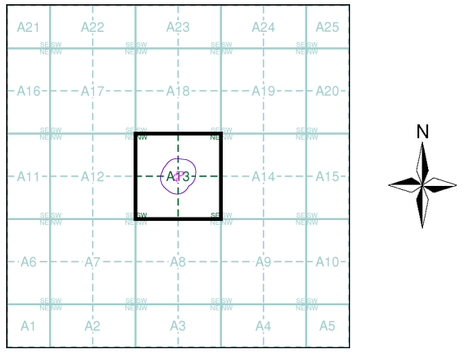
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Map Name(s) and Date(s)



Historical Map - Segment A13



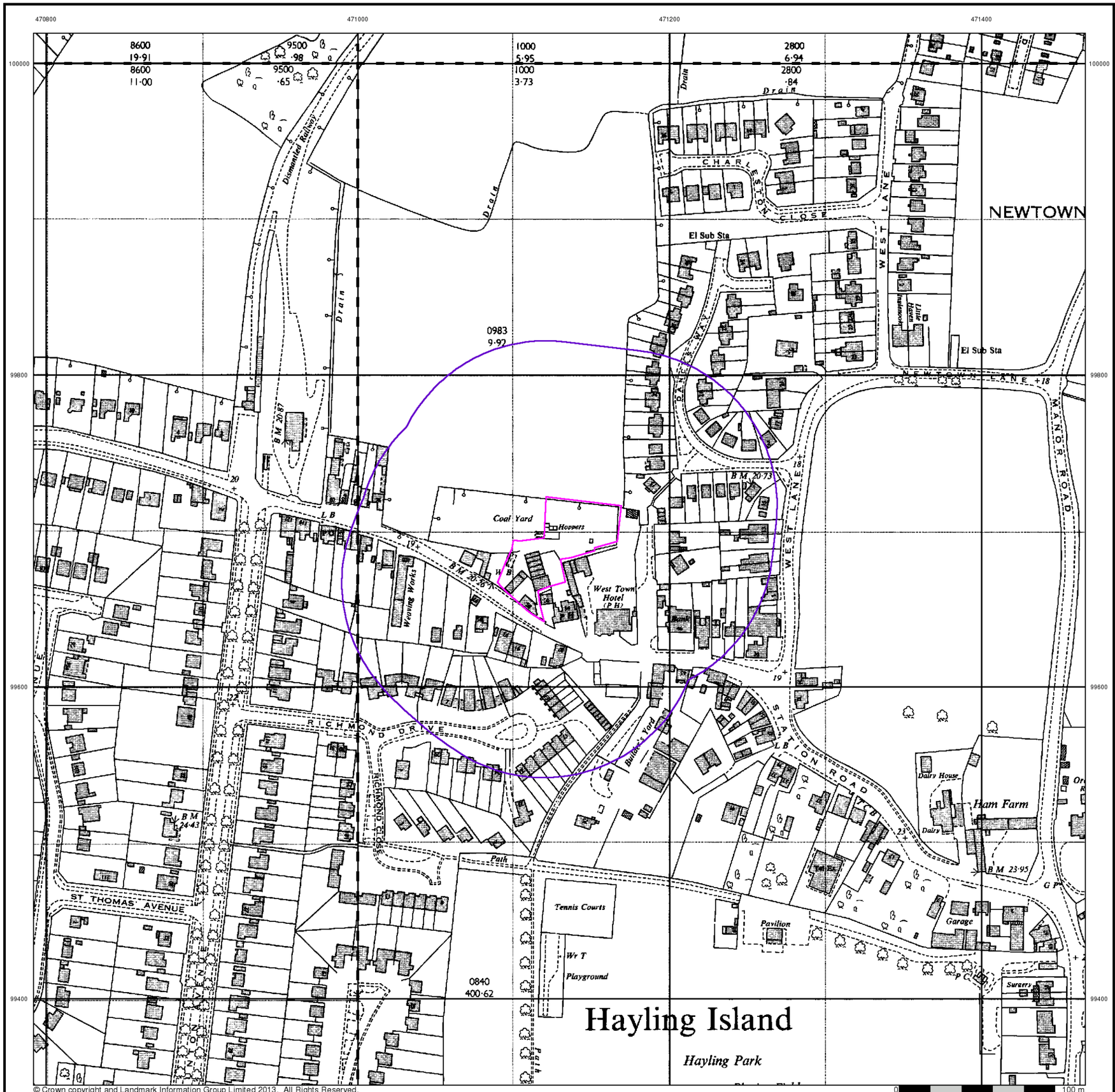
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Ordnance Survey Plan

Published 1969

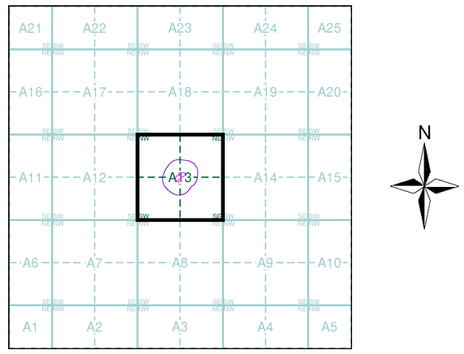
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Map Name(s) and Date(s)

SU7000 1969 1:2,500	SU7100 1969 1:2,500
SZ7099 1969 1:2,500	SZ7199 1969 1:2,500

Historical Map - Segment A13



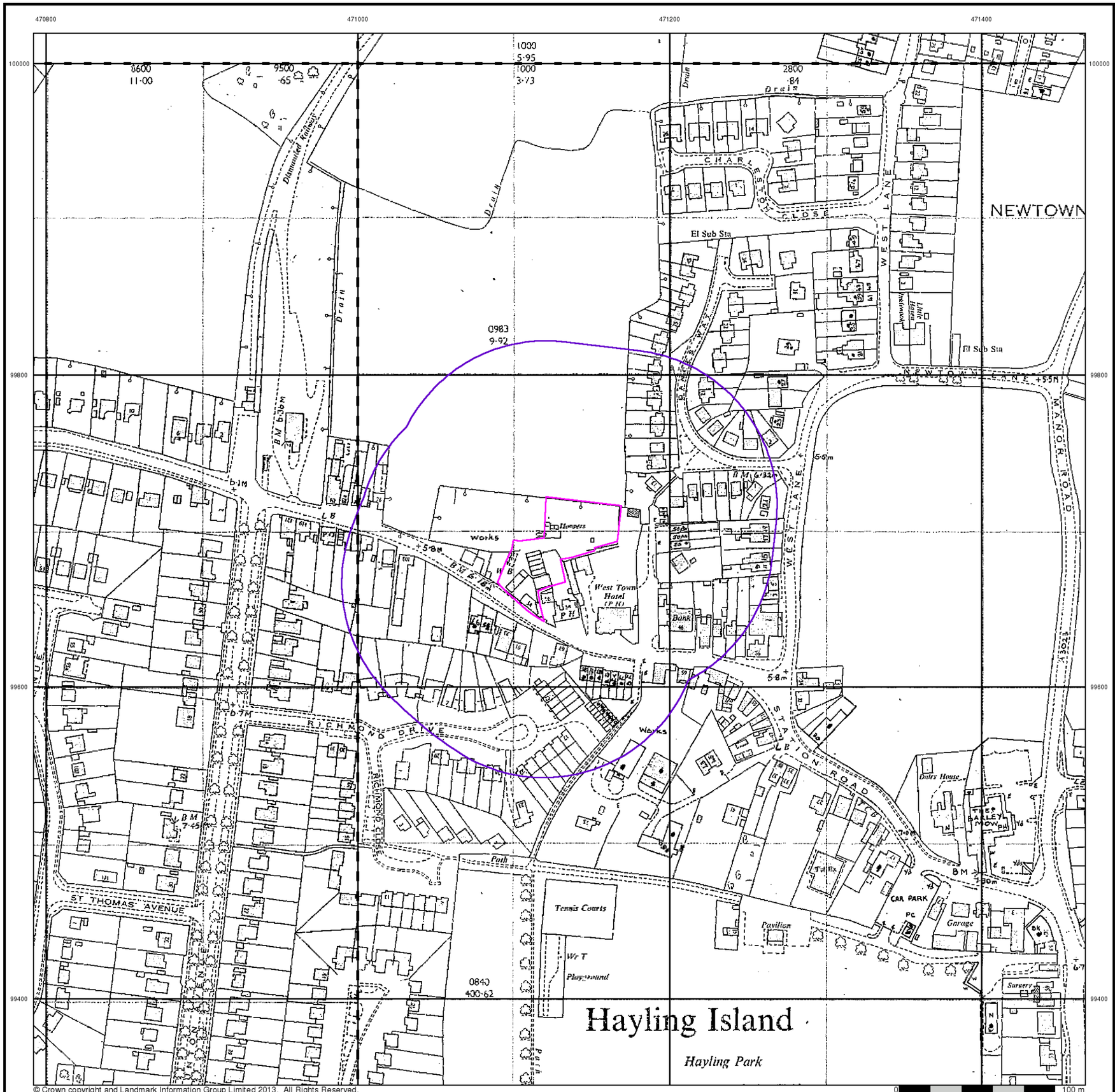
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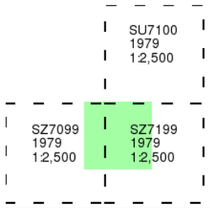
Additional SIMs

Published 1979

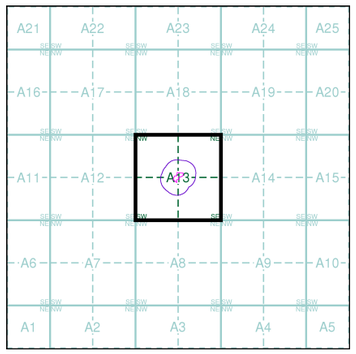
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



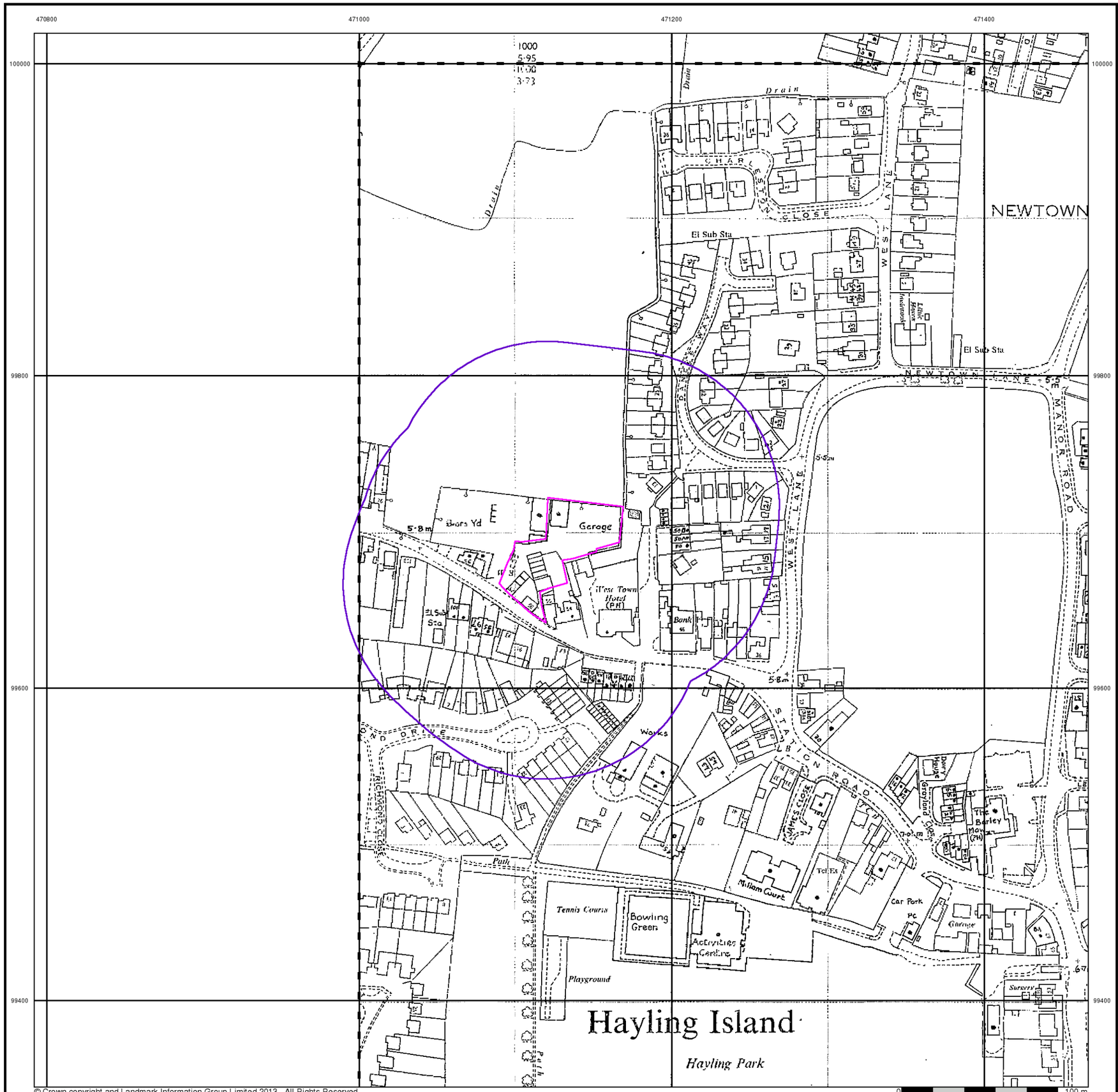
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Order Number:	61240163_1_1
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Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

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Additional SIMs

Published 1987 - 1988

Source map scale - 1:2,500

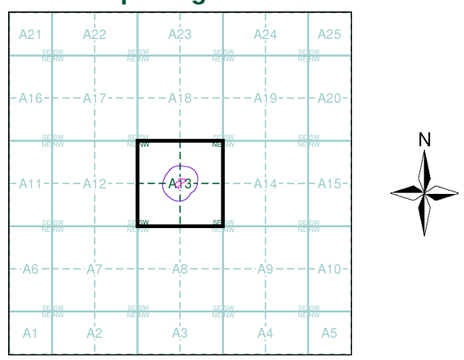
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Map Name(s) and Date(s)

SU7100
1988
1:2,500

SZ7199
1987
1:2,500

Historical Map - Segment A13



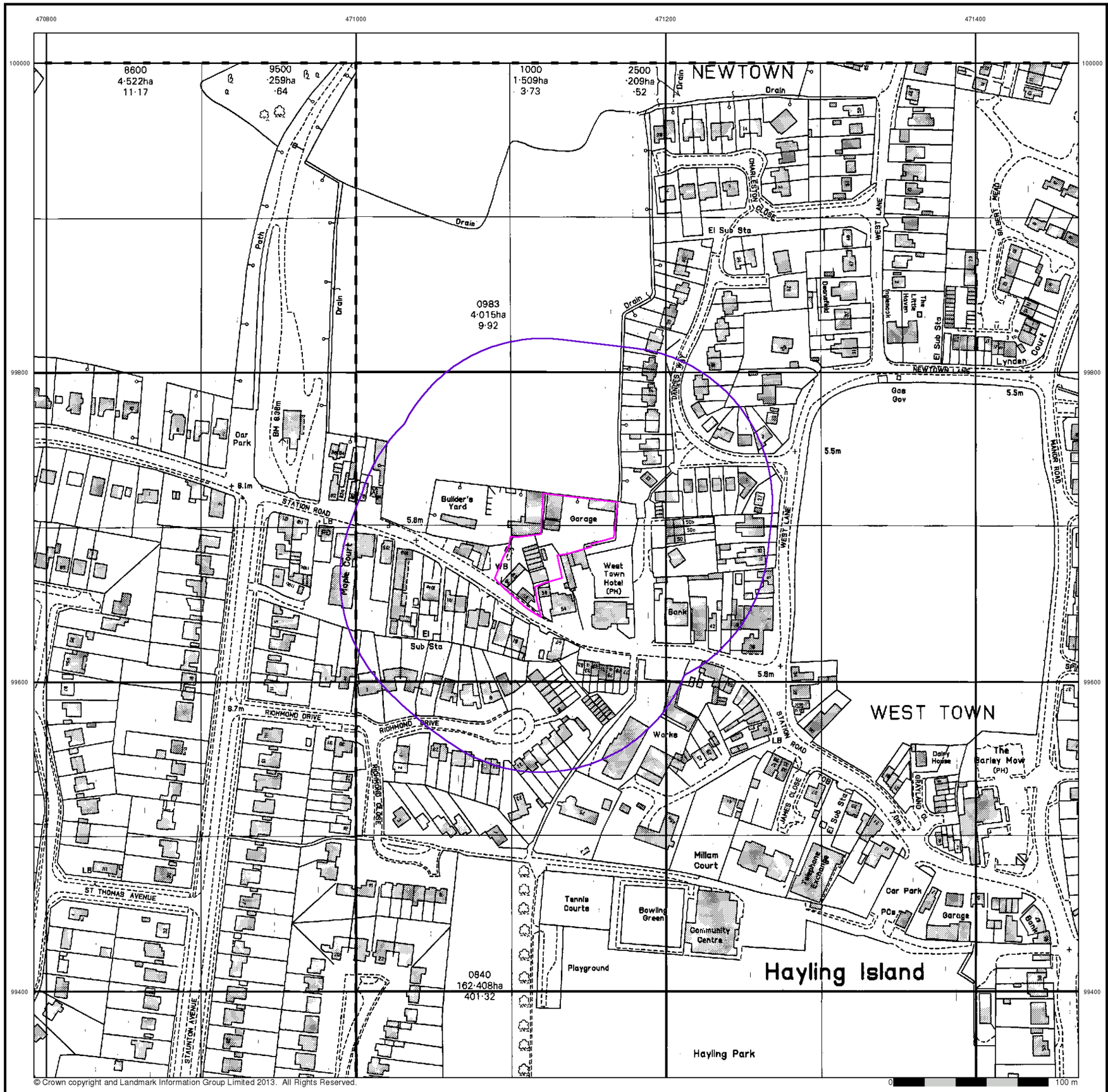
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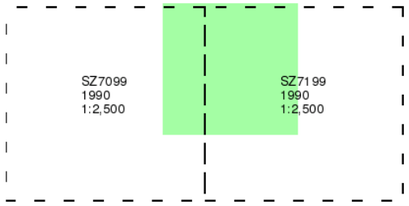
Ordnance Survey Plan

Published 1990

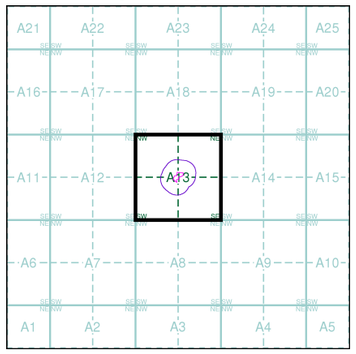
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Map Name(s) and Date(s)



Historical Map - Segment A13



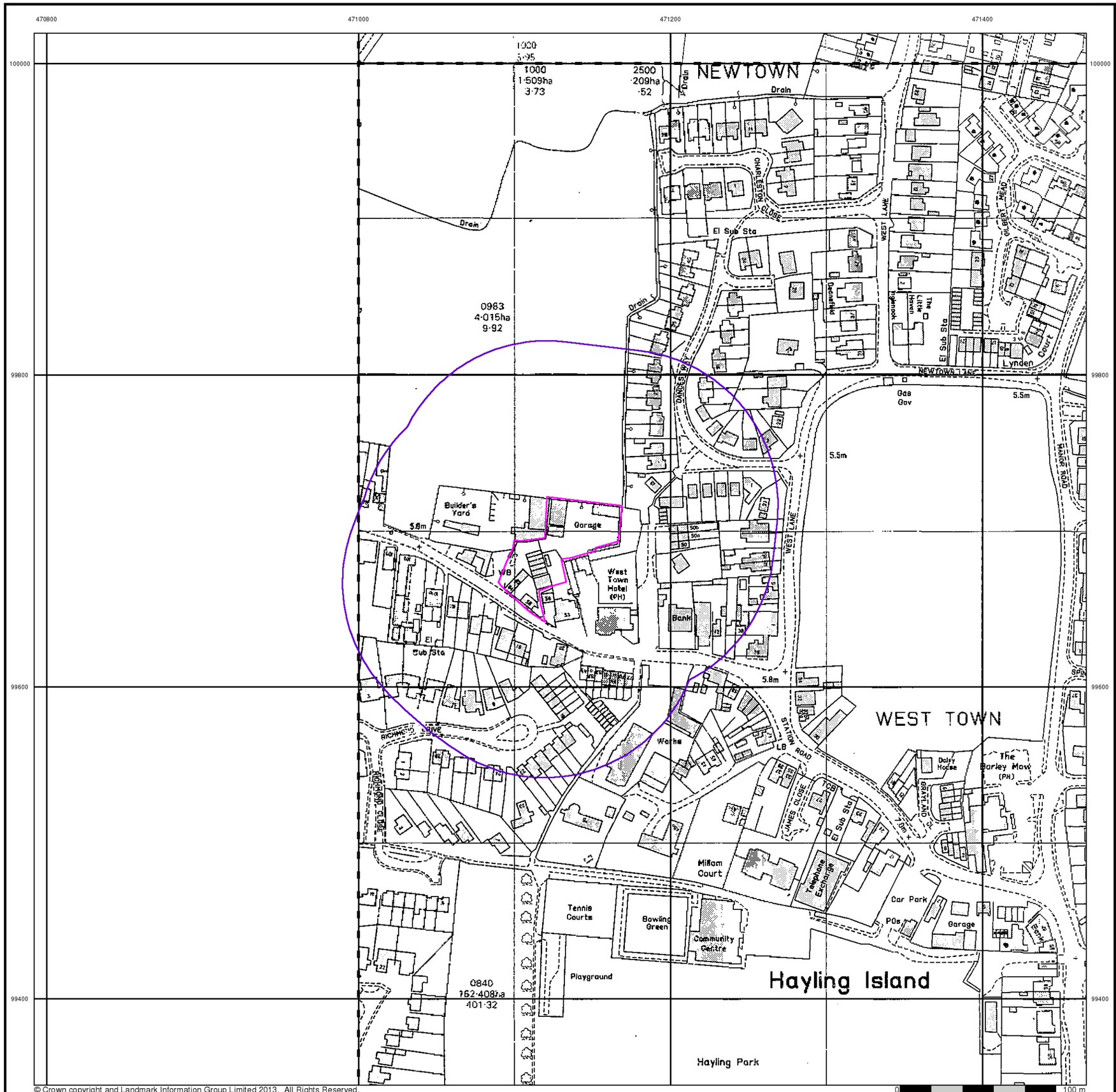
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Additional SIMs

Published 1990 - 1991

Source map scale - 1:2,500

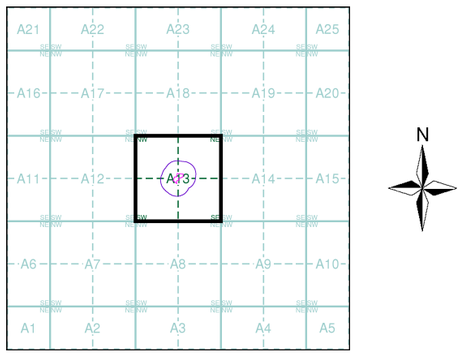
The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SU7100
1991
1:2,500

SZ7199
1990
1:2,500

Historical Map - Segment A13



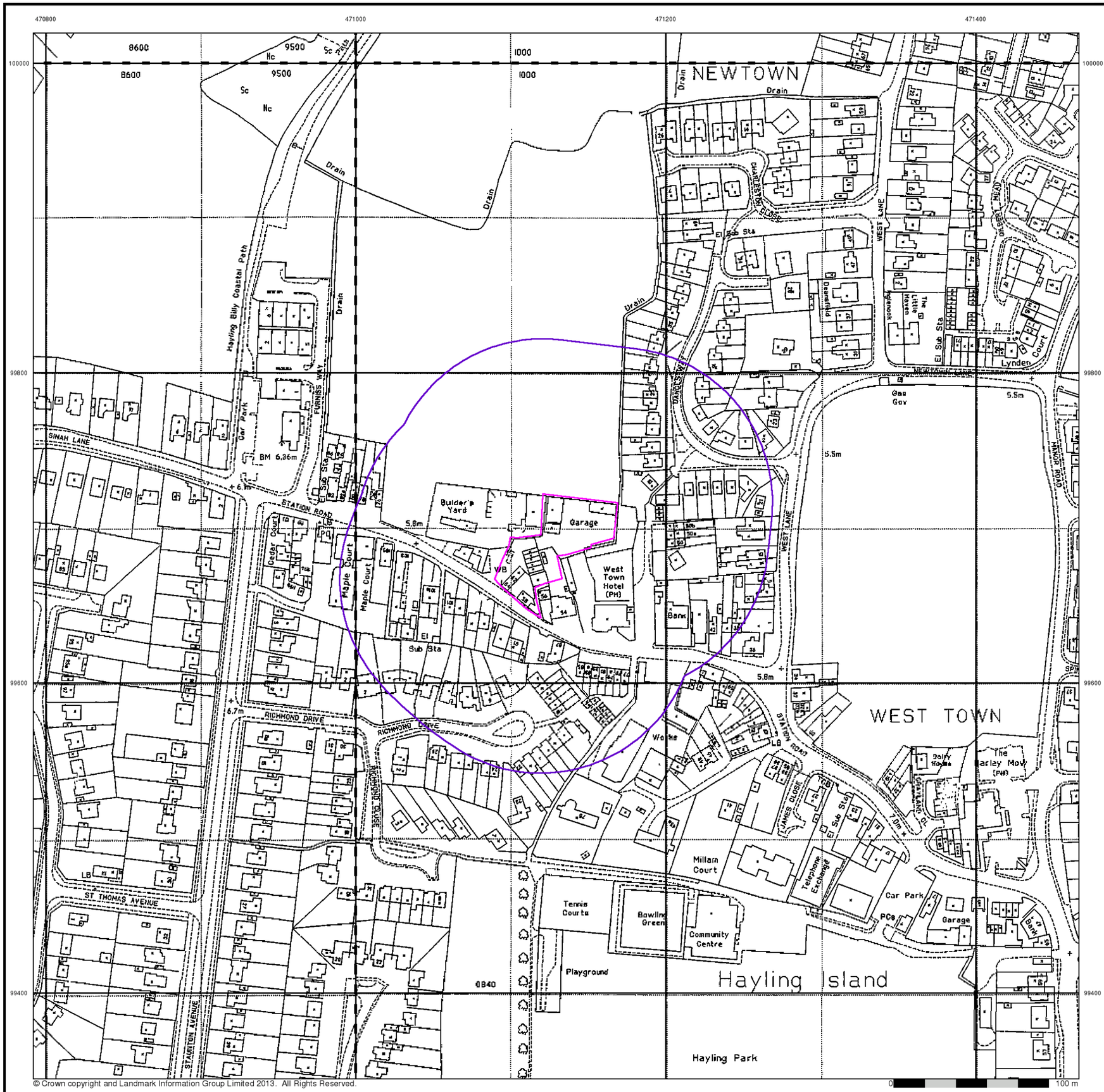
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Large-Scale National Grid Data

Published 1993

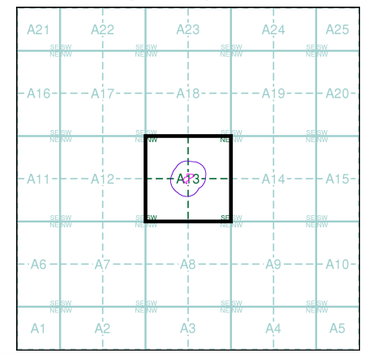
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SU7000 1993 1:2,500	SU7100 1993 1:2,500
SZ7099 1993 1:2,500	SZ7199 1993 1:2,500

Historical Map - Segment A13



Order Details

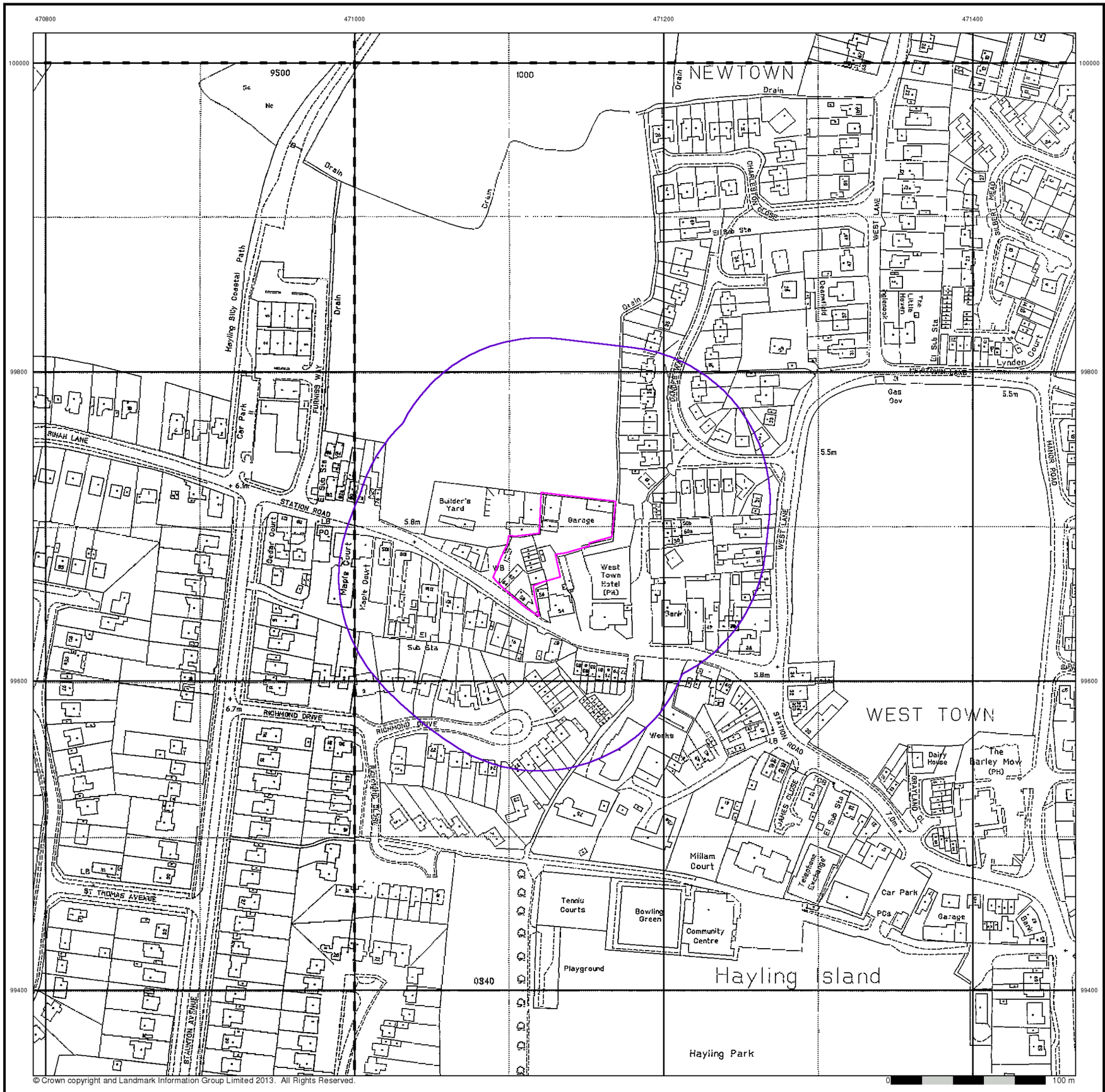
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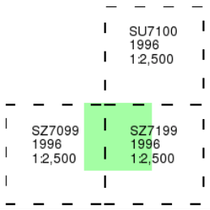
Large-Scale National Grid Data

Published 1996

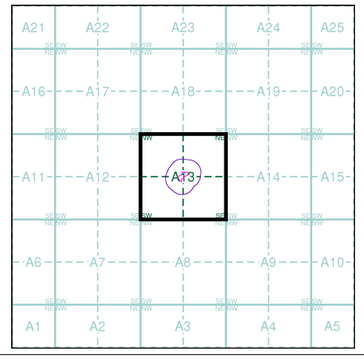
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Map Name(s) and Date(s)



Historical Map - Segment A13



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National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	100

Site Details

N P Slydelc, 58 Station Road, HAYLING ISLAND, Hampshire, PO11 0EL

Landmark® Information Group

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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
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
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
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

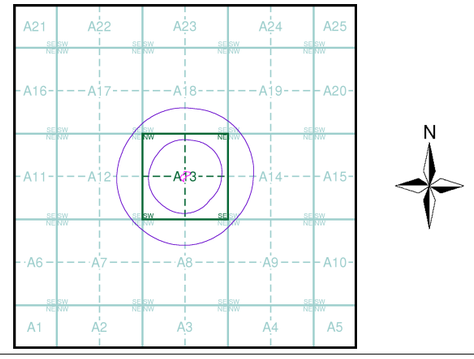
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hampshire & Isle Of Wight	1:10,560	1871	3
Sussex	1:10,560	1879	4
Hampshire & Isle Of Wight	1:10,560	1898	5
Sussex	1:10,560	1899	6
Hampshire & Isle Of Wight	1:10,560	1910 - 1911	7
Sussex	1:10,560	1913	8
Sussex	1:10,560	1913	9
Hampshire & Isle Of Wight	1:10,560	1931 - 1932	10
Hampshire & Isle Of Wight	1:10,560	1932	11
Hampshire & Isle Of Wight	1:10,560	1938 - 1942	12
Historical Aerial Photography	1:10,560	1950	13
Sussex	1:10,560	1953	14
Ordnance Survey Plan	1:10,000	1962 - 1963	15
Ordnance Survey Plan	1:10,000	1972 - 1973	16
Havant	1:25,000	1983	17
Portsmouth	1:10,000	1988	18
Ordnance Survey Plan	1:10,000	1990 - 1991	19
10K Raster Mapping	1:10,000	2006	20
VectorMap Local	1:10,000	2014	21

Historical Map - Slice A



Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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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

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
- Main Highway
- Highway under Construction
- Improved Dirt Road (former truck road)
- Double-track Railroad with First Class Station
- Dismantled Railroad
- Railroad Under Construction
- Shore Embankment
- River or Ditch with Embankment
- 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

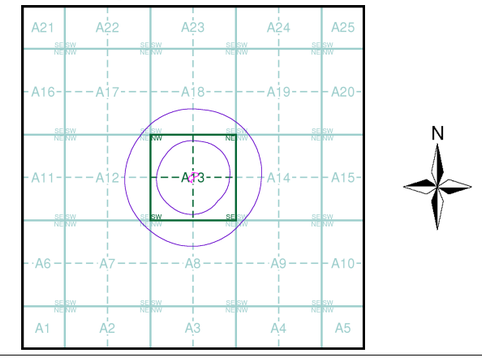
Key to Numbers on Mapping

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hampshire & Isle Of Wight	1:10,560	1871	3
Sussex	1:10,560	1879	4
Hampshire & Isle Of Wight	1:10,560	1898	5
Sussex	1:10,560	1899	6
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Sussex	1:10,560	1913	8
Sussex	1:10,560	1913	9
Hampshire & Isle Of Wight	1:10,560	1931 - 1932	10
Hampshire & Isle Of Wight	1:10,560	1932	11
Hampshire & Isle Of Wight	1:10,560	1938 - 1942	12
Historical Aerial Photography	1:10,560	1950	13
Sussex	1:10,560	1953	14
Ordnance Survey Plan	1:10,000	1962 - 1963	15
Ordnance Survey Plan	1:10,000	1972 - 1973	16
Havant	1:25,000	1983	17
Portsmouth	1:10,000	1988	18
Ordnance Survey Plan	1:10,000	1990 - 1991	19
10K Raster Mapping	1:10,000	2006	20
VectorMap Local	1:10,000	2014	21

Russian Map - Slice A



Order Details

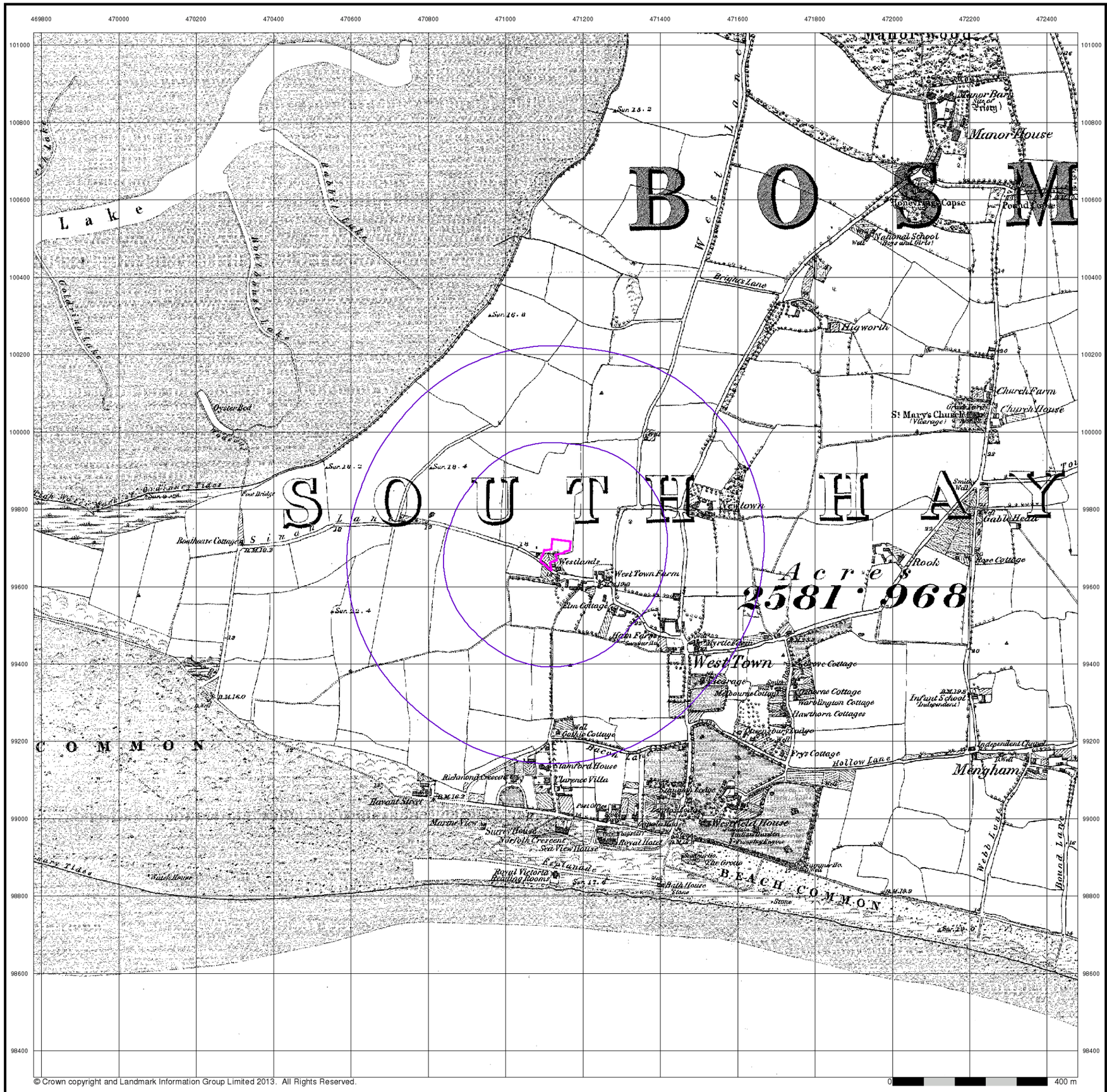
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Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

N P Slydelc, 58 Station Road, HAYLING ISLAND, Hampshire, PO11 0EL

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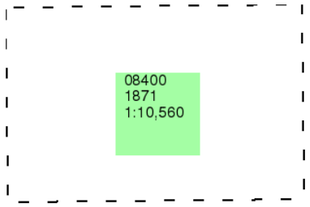
Hampshire & Isle Of Wight

Published 1871

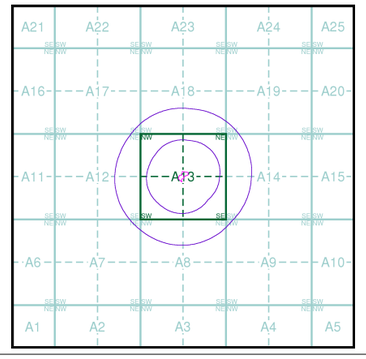
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

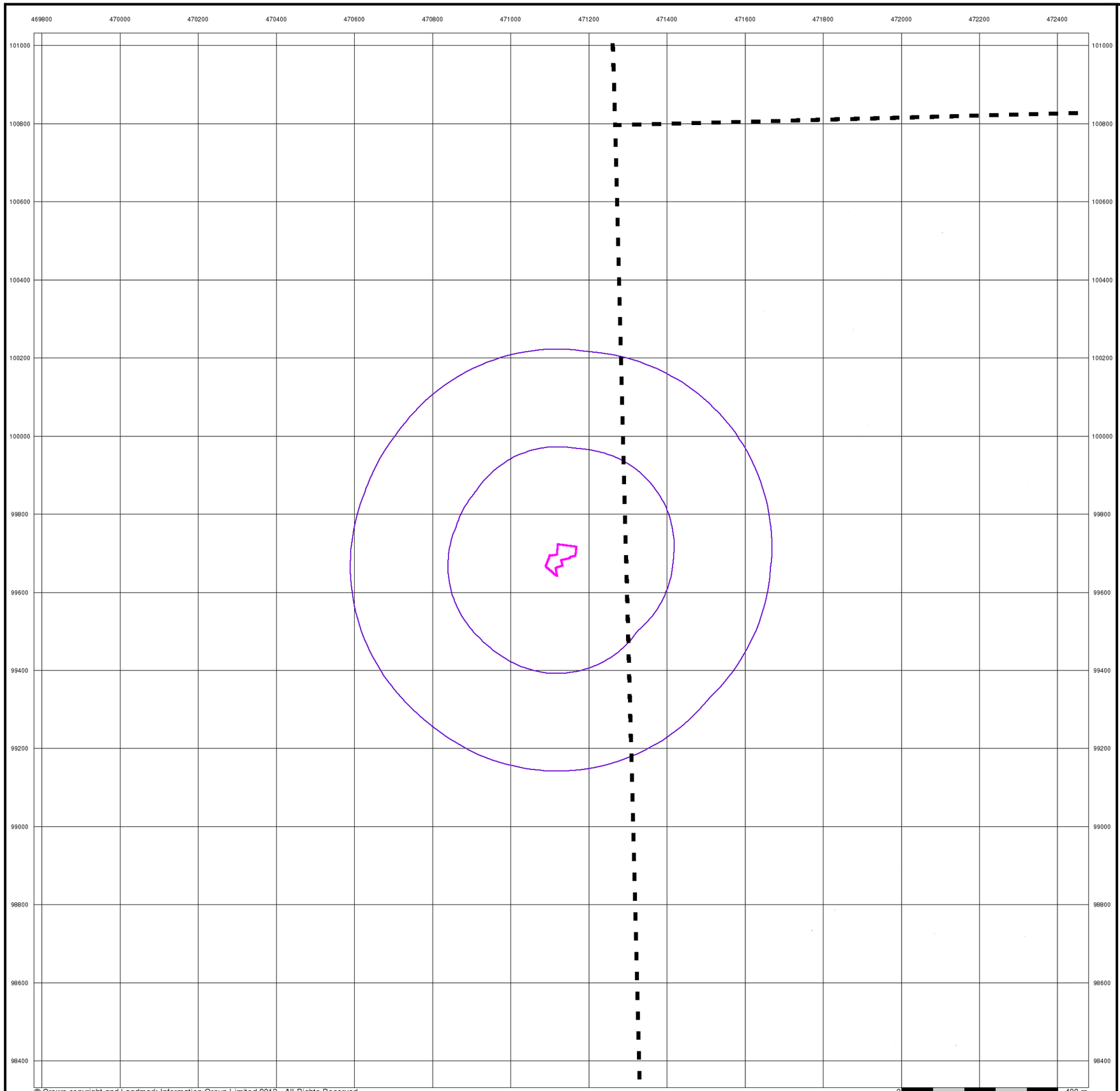
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Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
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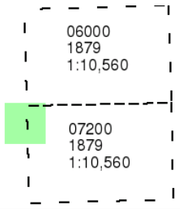
Sussex

Published 1879

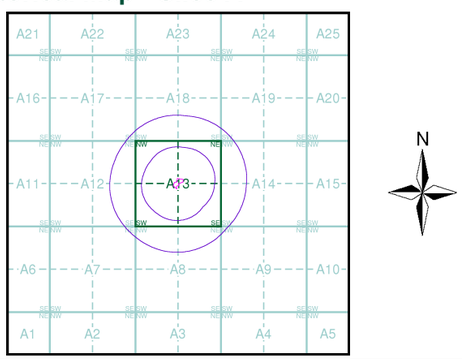
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



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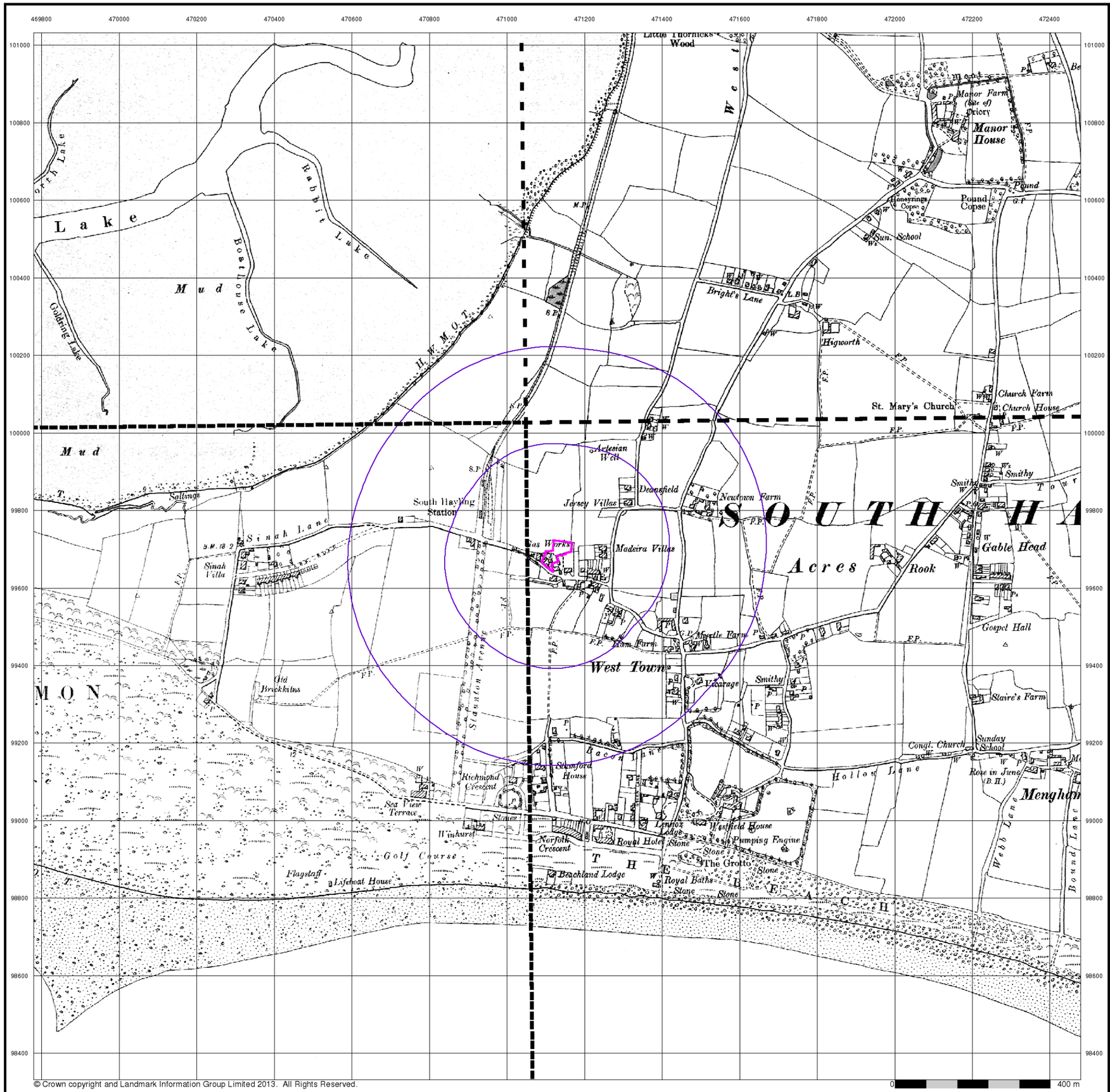
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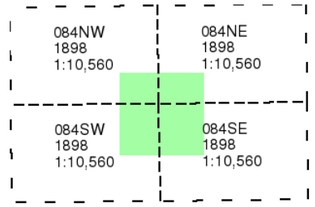
Hampshire & Isle Of Wight

Published 1898

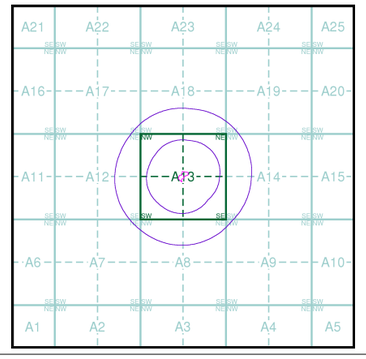
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

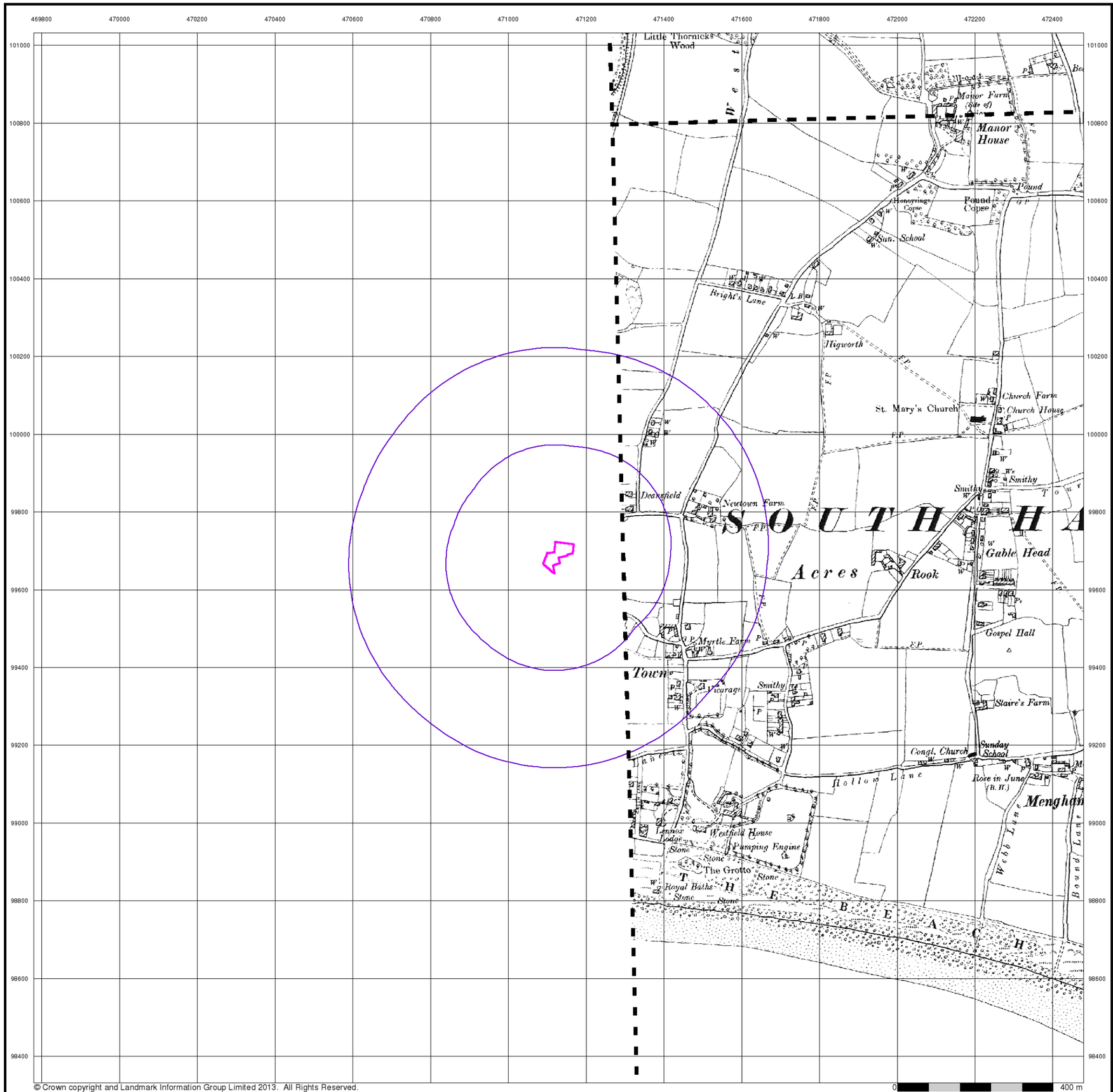
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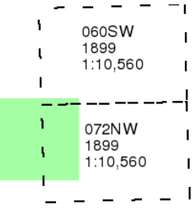
Sussex

Published 1899

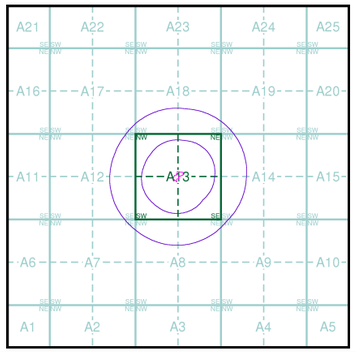
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



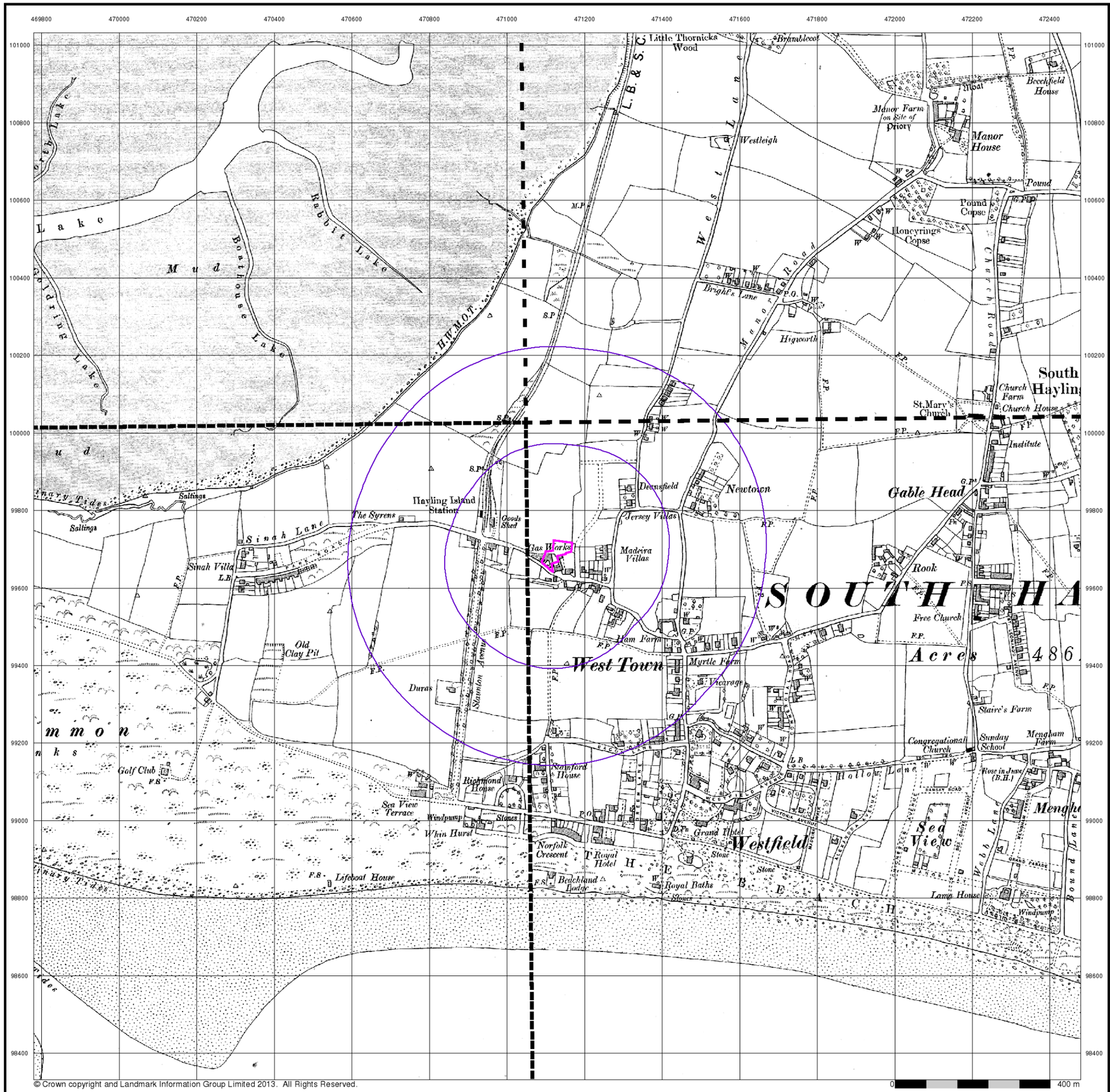
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Hampshire & Isle Of Wight

Published 1910 - 1911

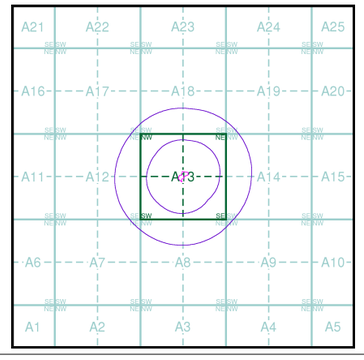
Source map scale - 1:10,560

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Map Name(s) and Date(s)

084NW 1910 1:10,560	084NE 1910 1:10,560
084SW 1911 1:10,560	084SE 1910 1:10,560

Historical Map - Slice A



Order Details

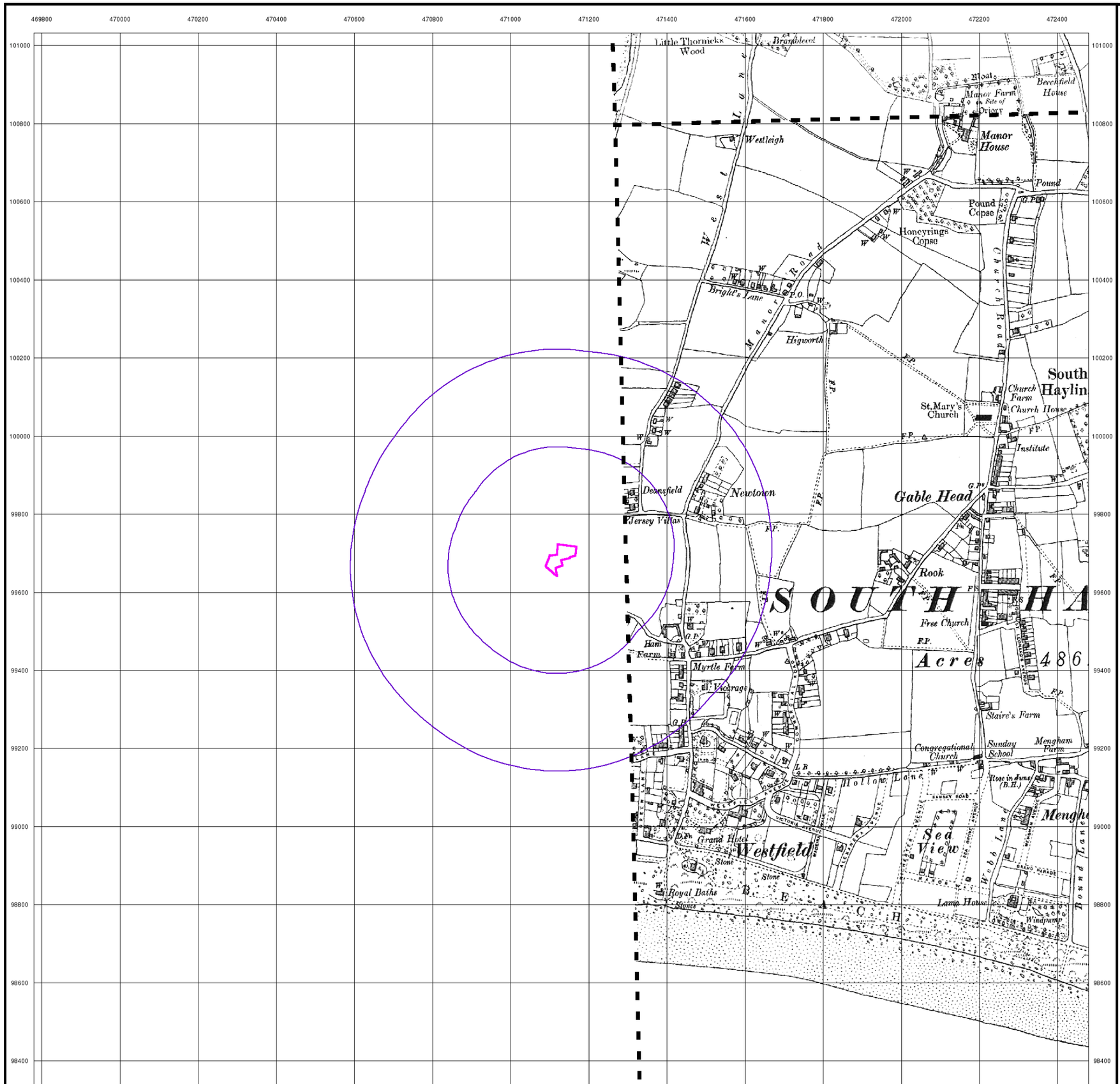
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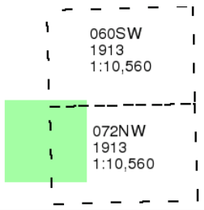
Sussex

Published 1913

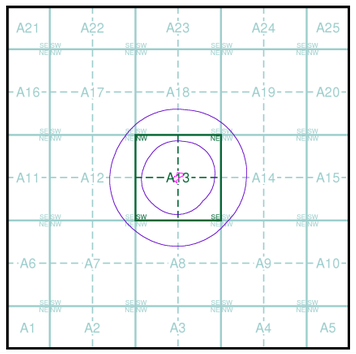
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



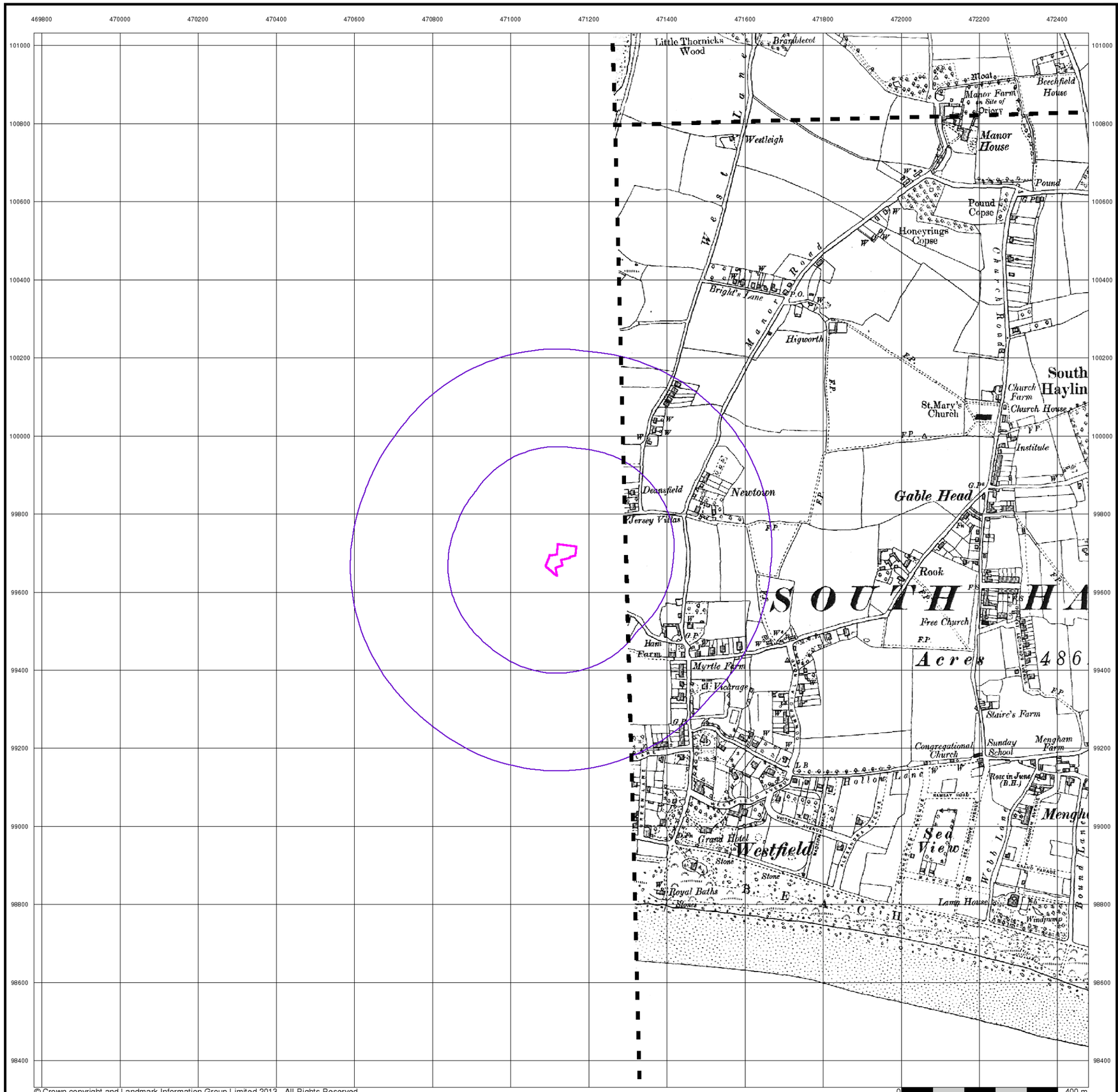
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Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

N P Slydelc, 58 Station Road, HAYLING ISLAND, Hampshire, PO11 0EL

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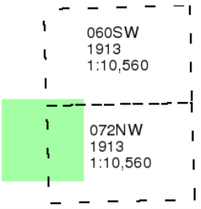
Sussex

Published 1913

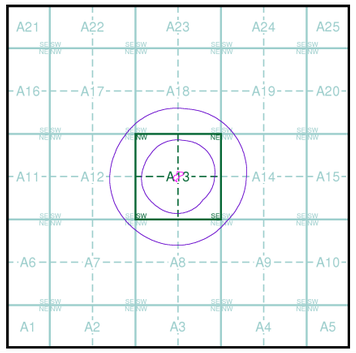
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Map Name(s) and Date(s)



Historical Map - Slice A



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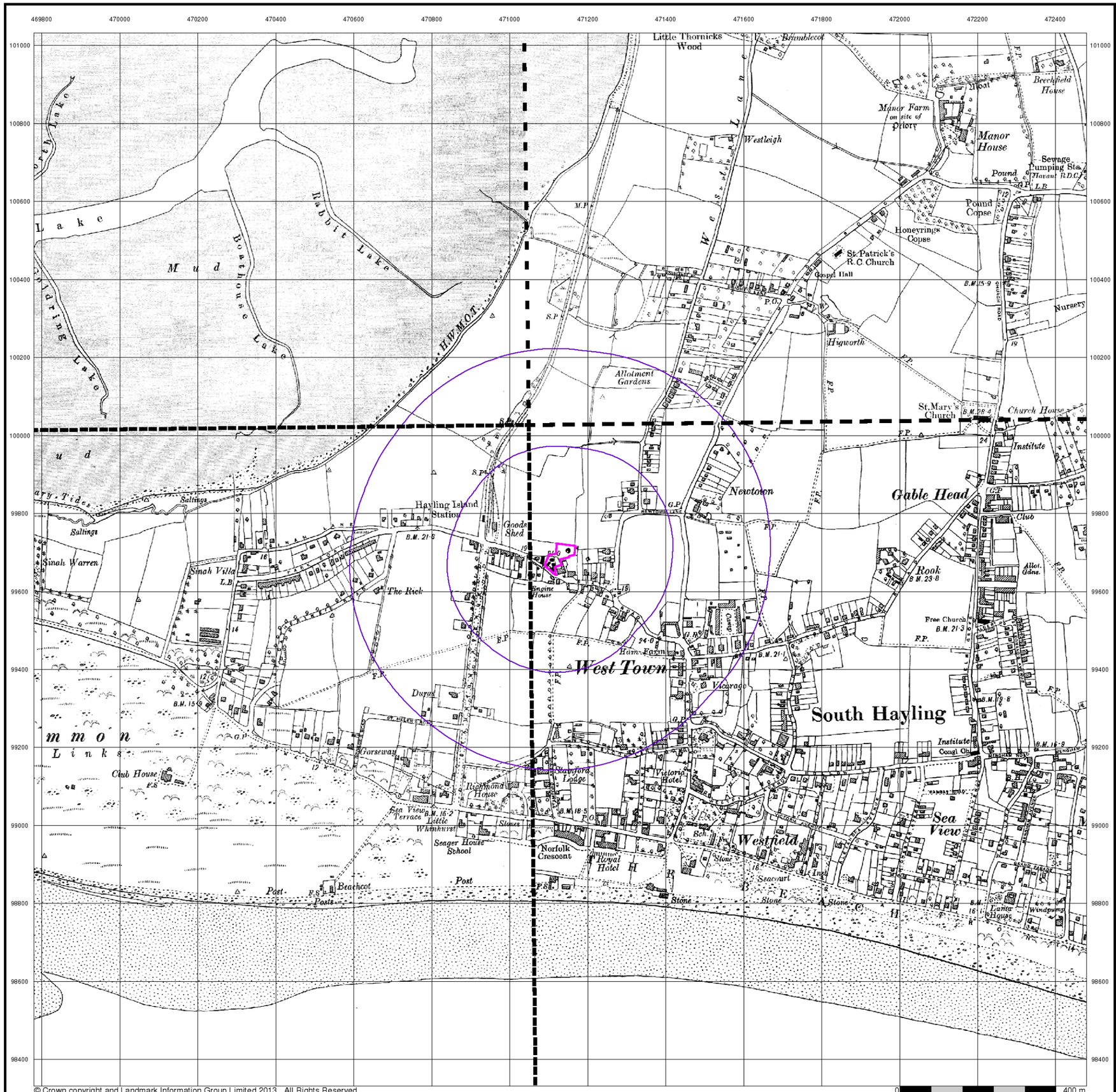
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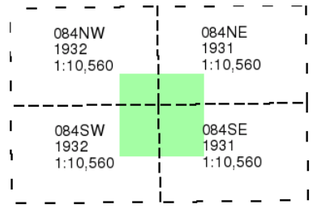
Hampshire & Isle Of Wight

Published 1931 - 1932

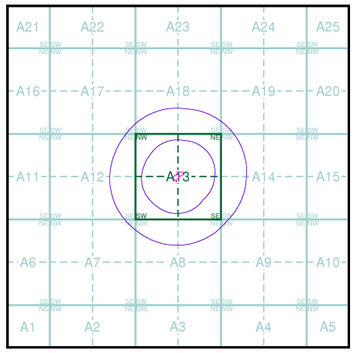
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

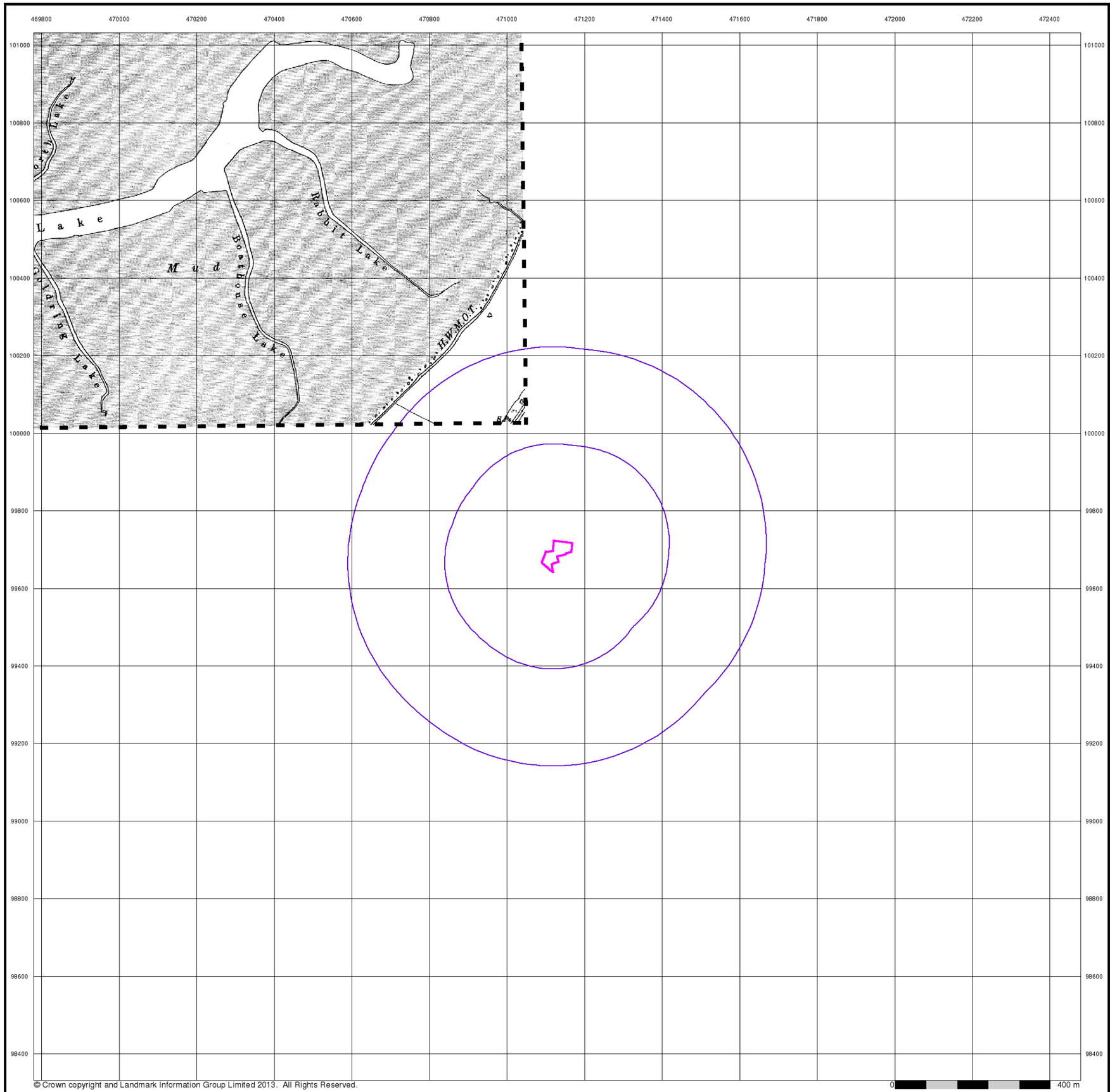
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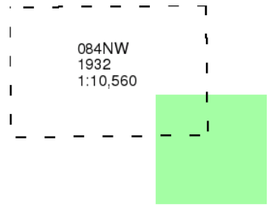
Hampshire & Isle Of Wight

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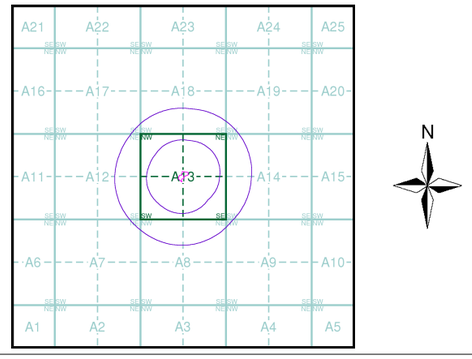
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

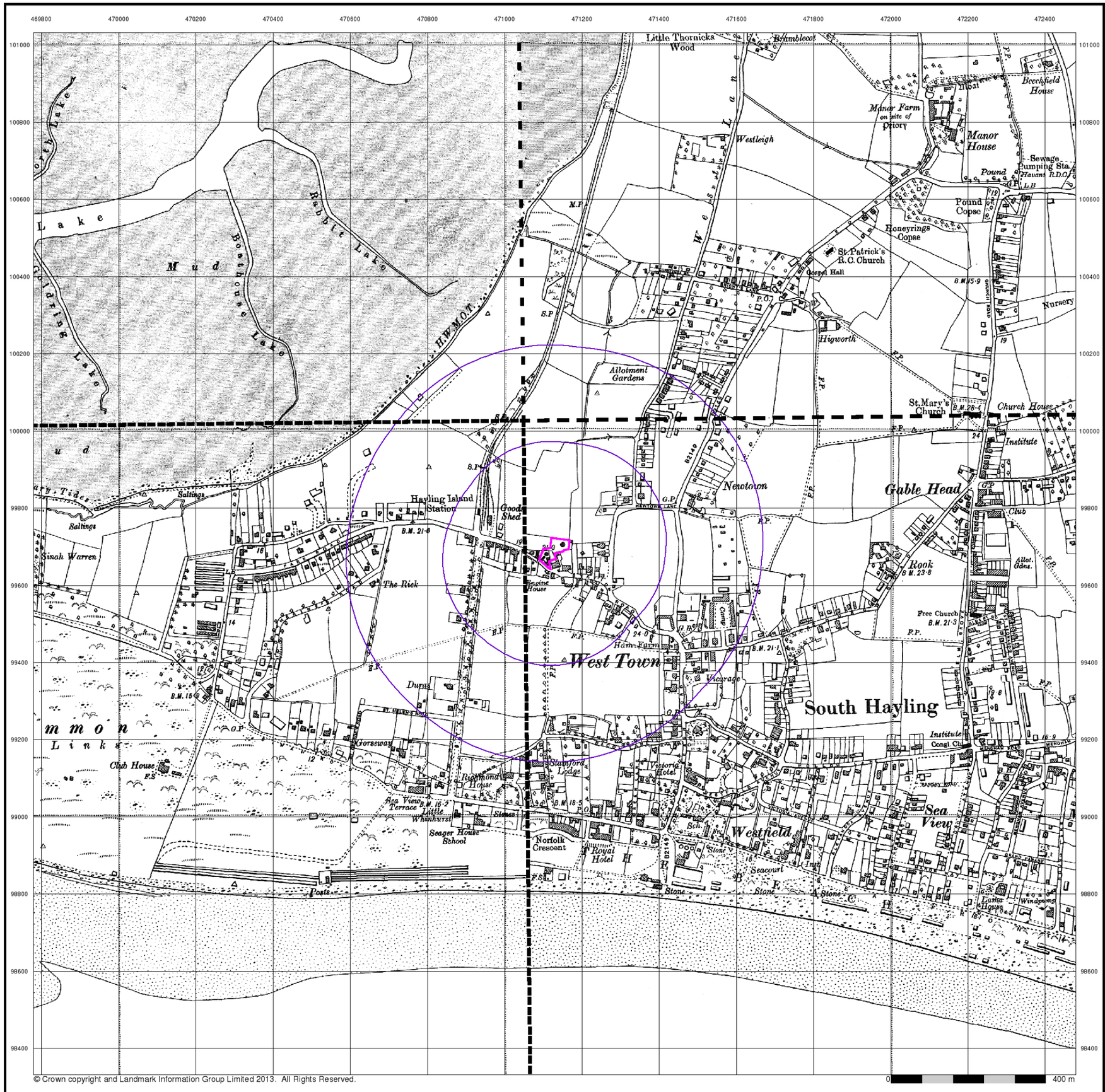
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Hampshire & Isle Of Wight

Published 1938 - 1942

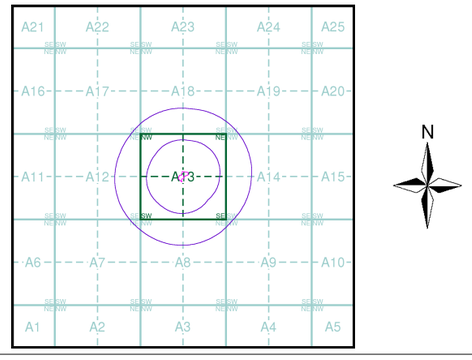
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Map Name(s) and Date(s)

084NW 1942 1:10,560	084NE 1938 1:10,560
084SW 1938 1:10,560	084SE 1938 1:10,560

Historical Map - Slice A



Order Details

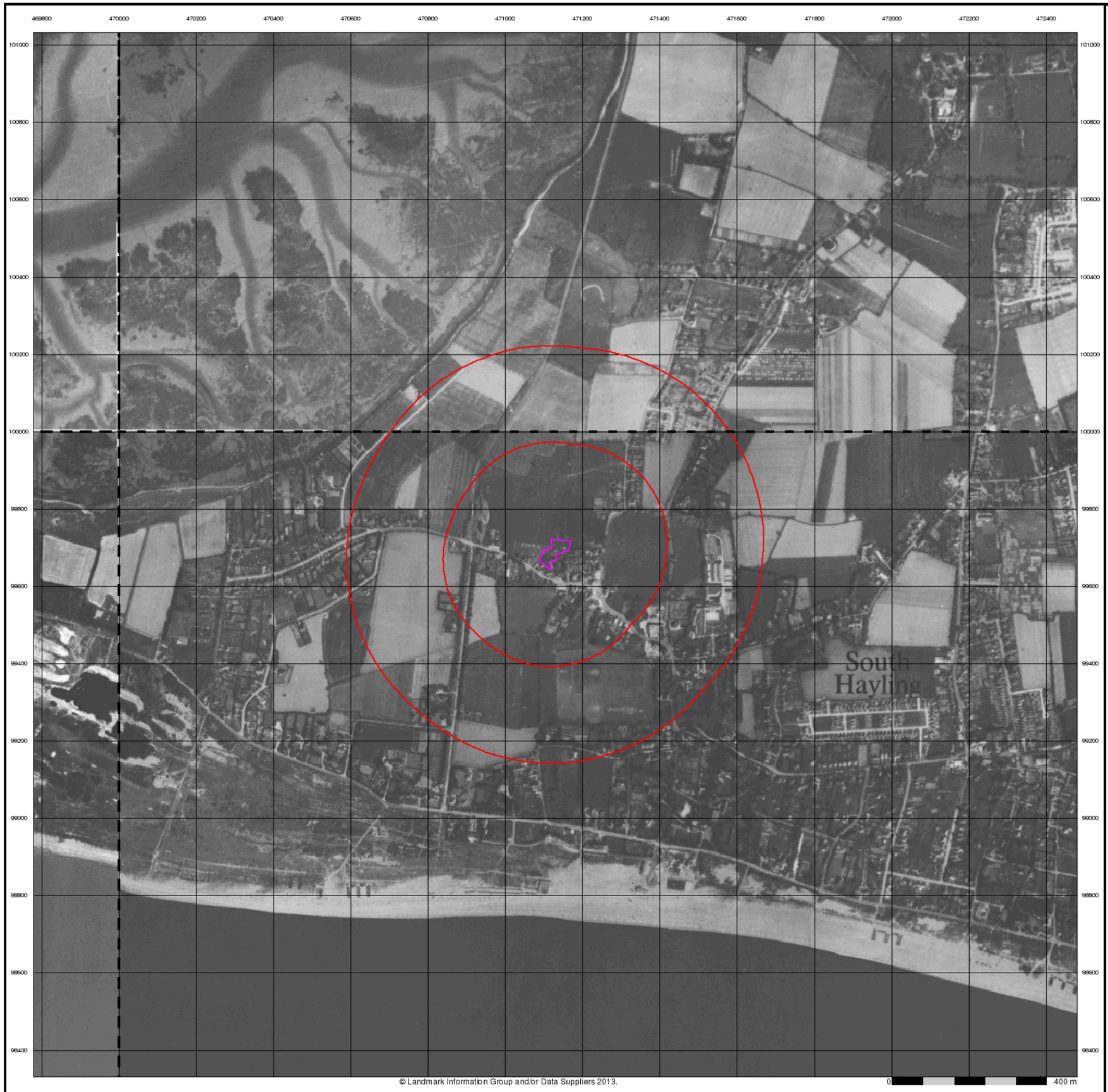
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Historical Aerial Photography

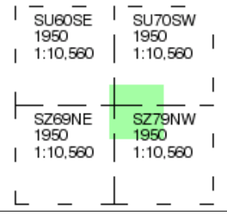
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Source map scale - 1:10,560

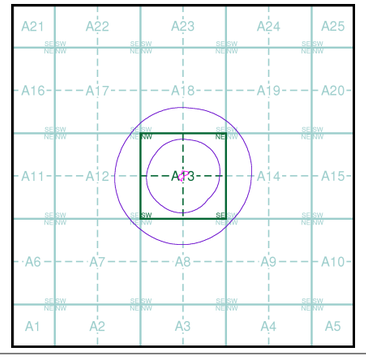
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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



Order Details

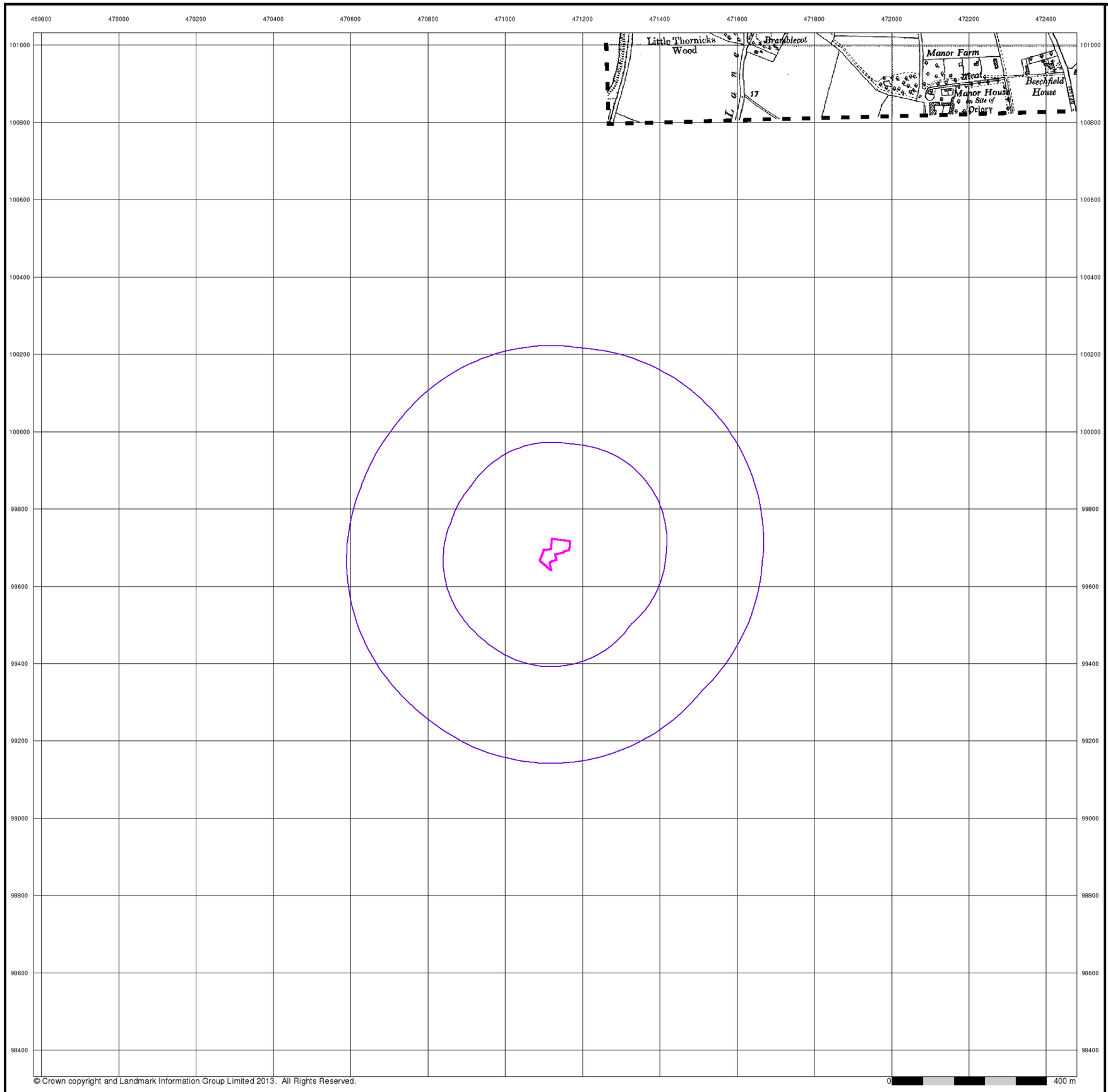
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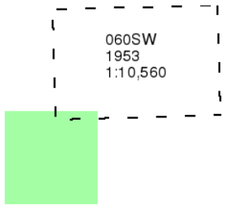
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Published 1953

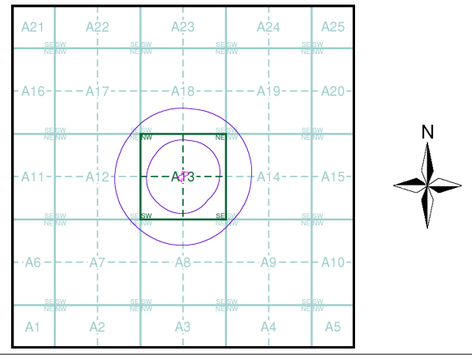
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

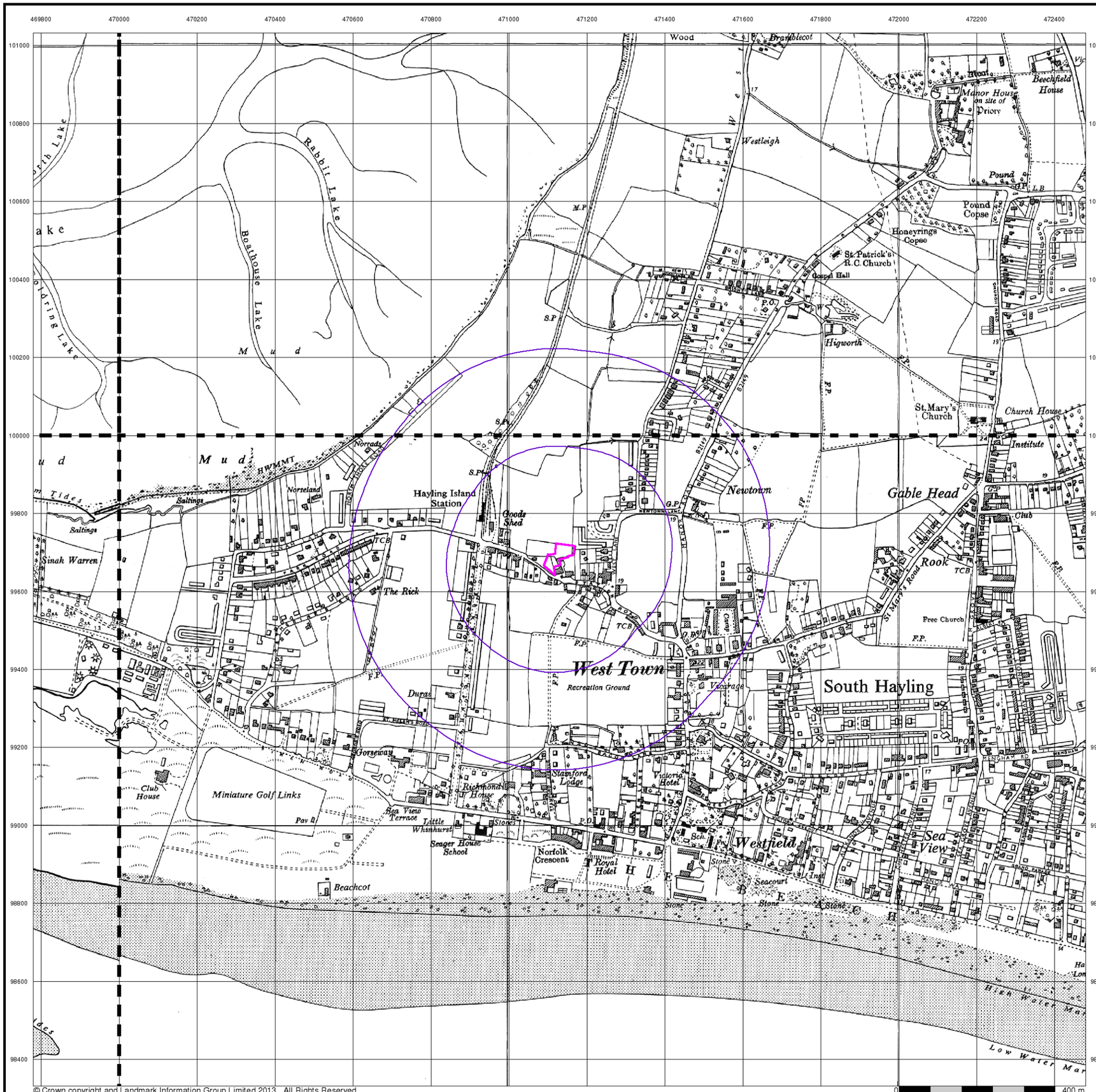
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Ordnance Survey Plan

Published 1962 - 1963

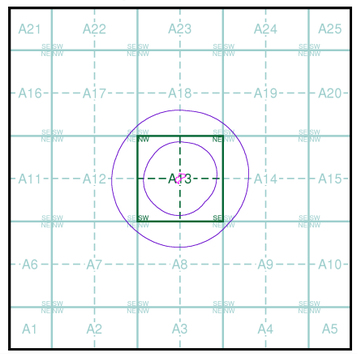
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Map Name(s) and Date(s)

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SZ69NE 1962 1:10,560	SZ79NW 1962 1:10,560

Historical Map - Slice A



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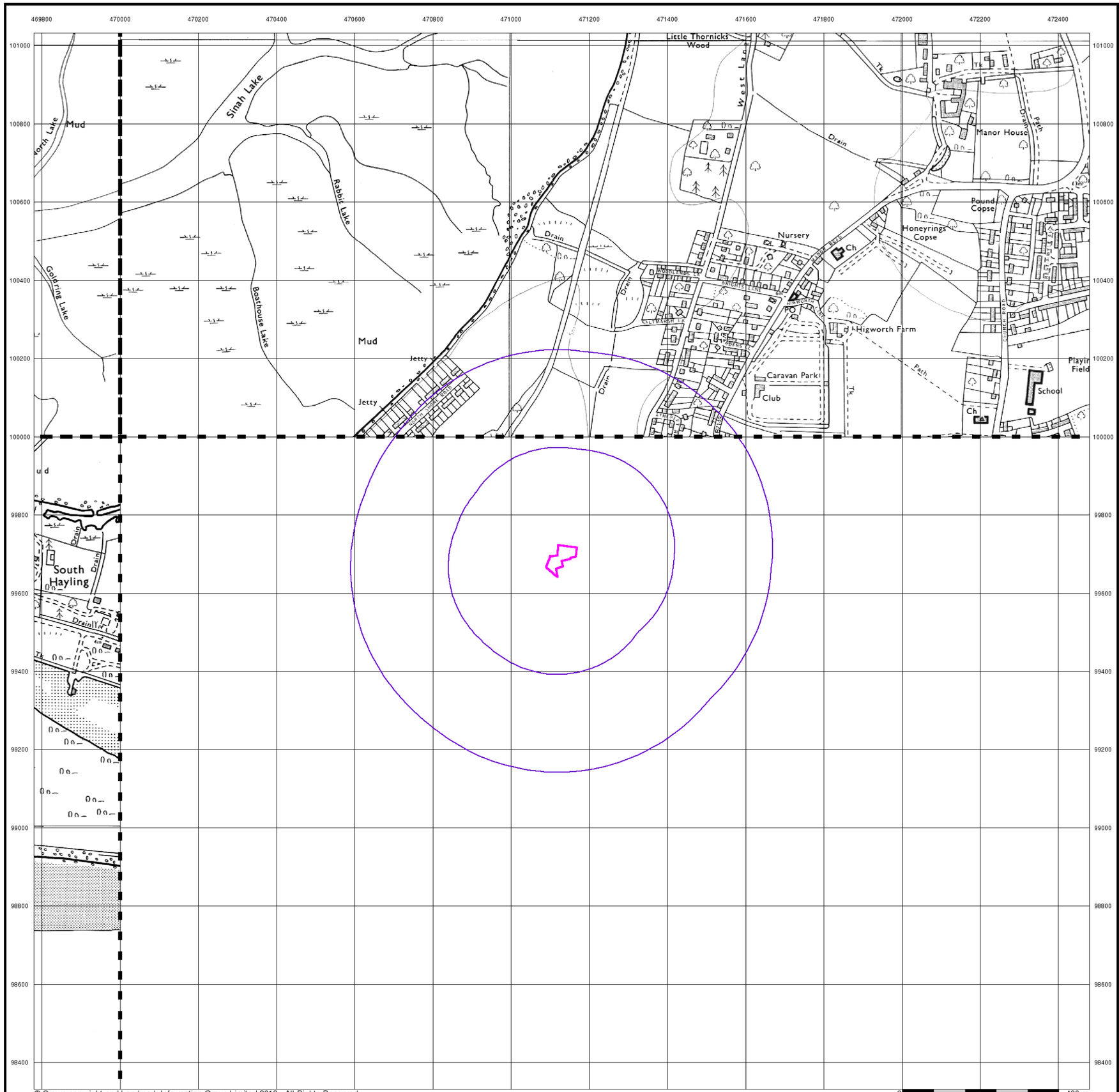
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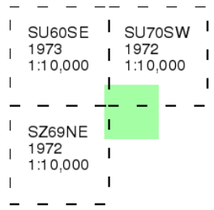
Ordnance Survey Plan

Published 1972 - 1973

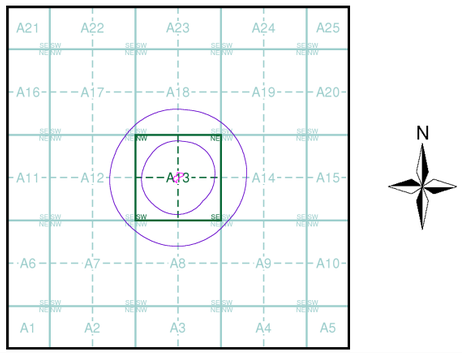
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

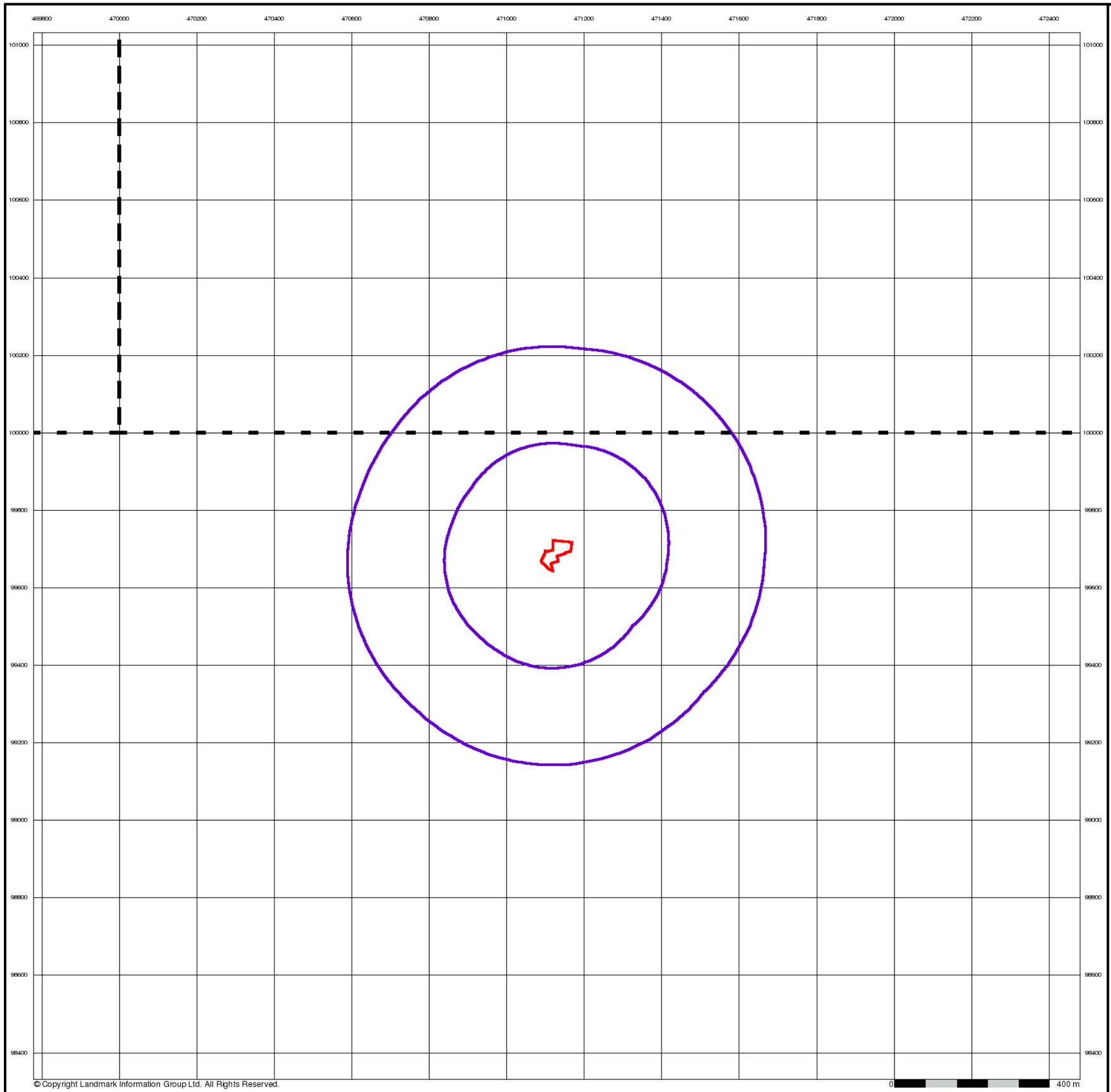
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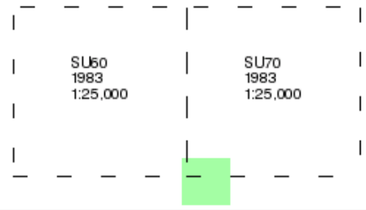
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Published 1983

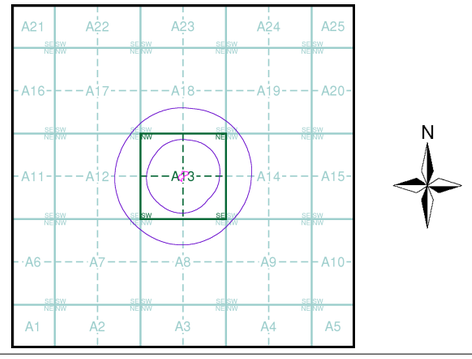
Source map scale - 1:25,000

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)



Russian Map - Slice A



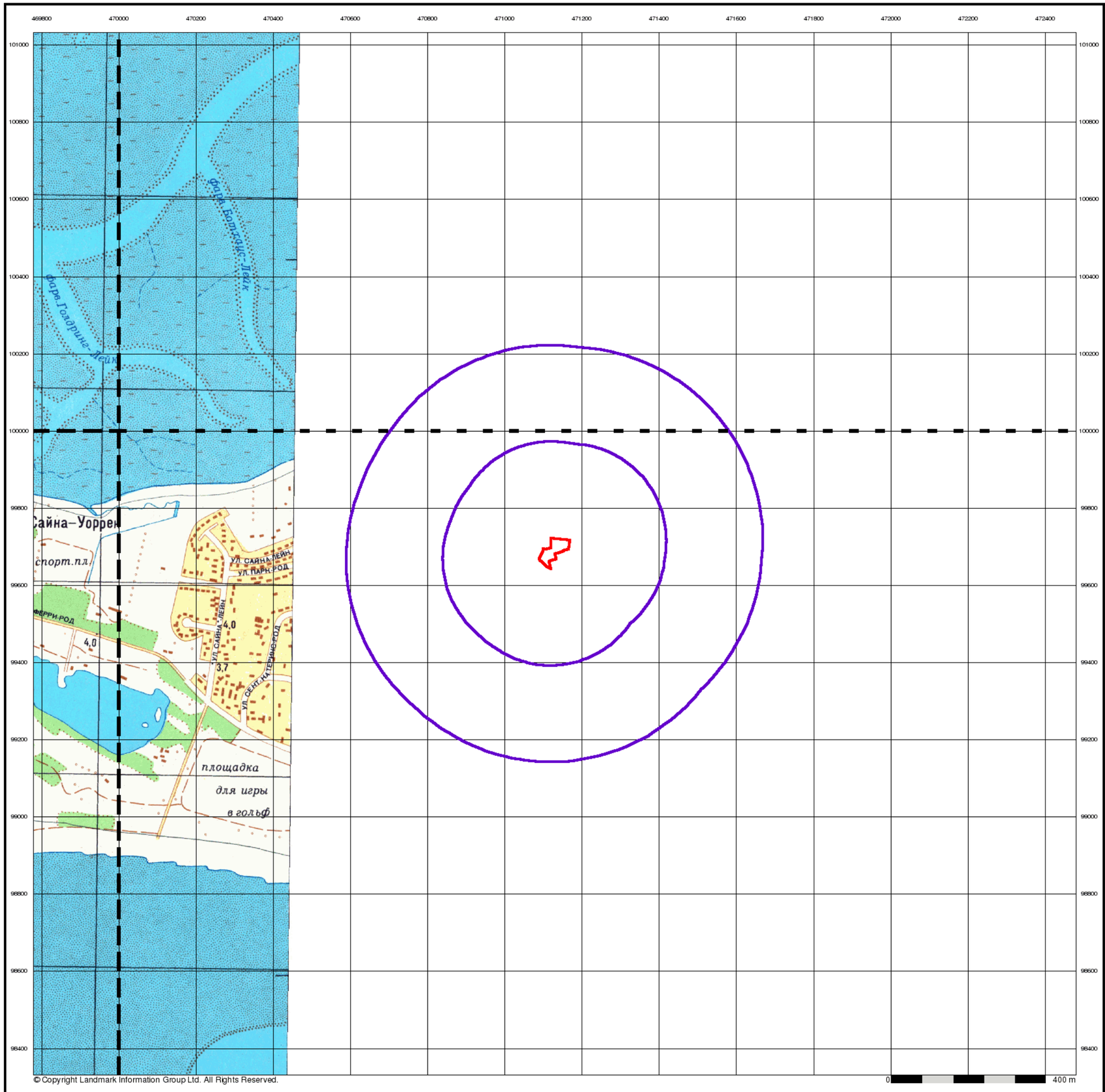
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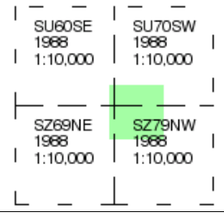
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Published 1988

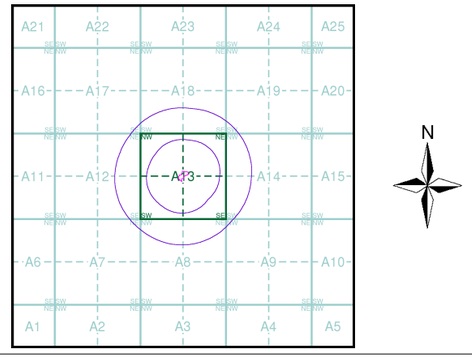
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Russian Map - Slice A



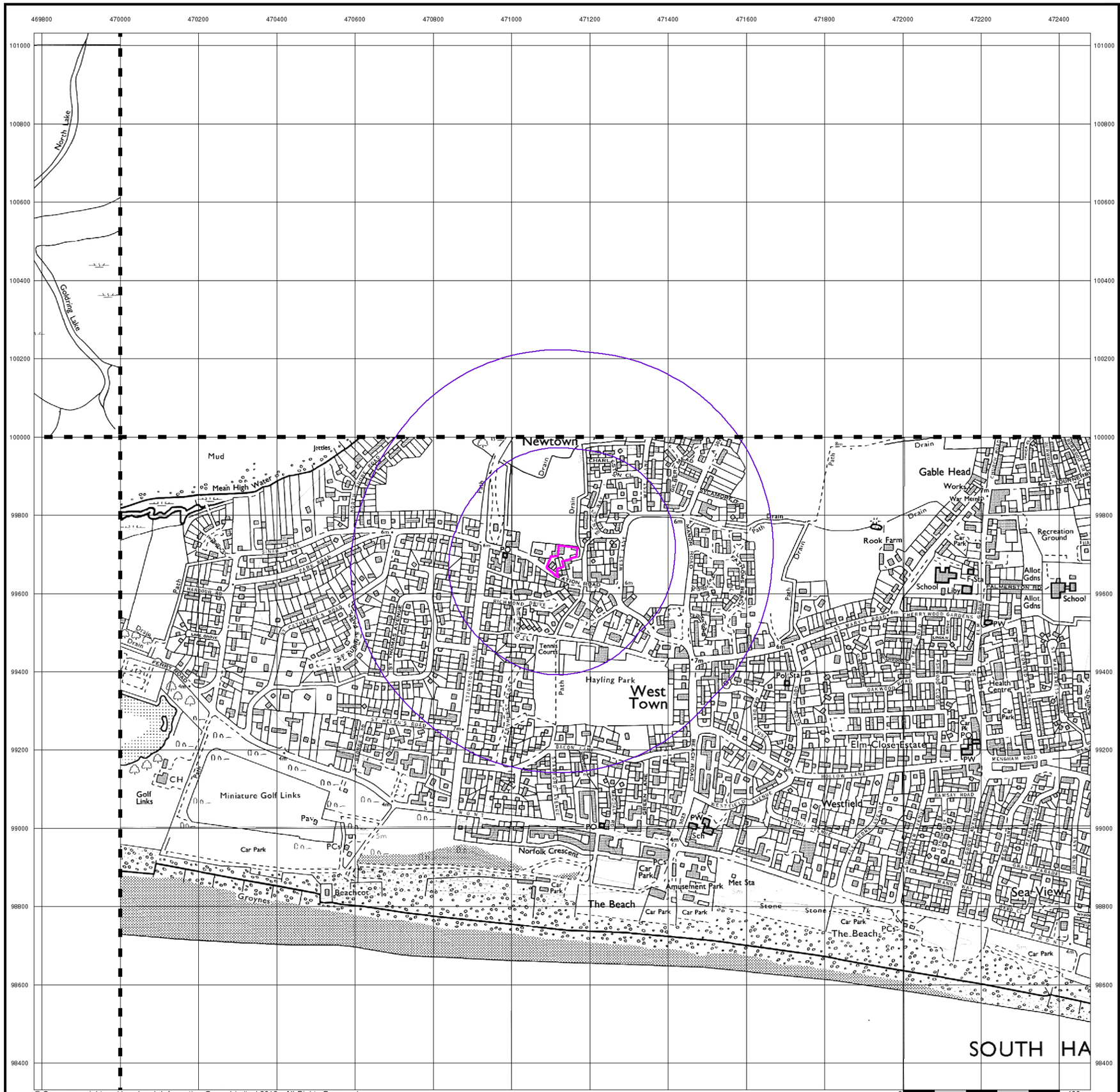
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Ordnance Survey Plan

Published 1990 - 1991

Source map scale - 1:10,000

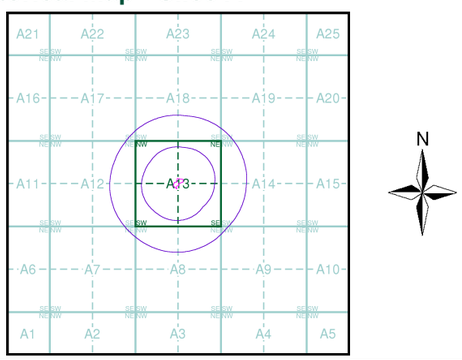
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SU60SE
1990
1:10,000

SZ79NW
1991
1:10,000

Historical Map - Slice A



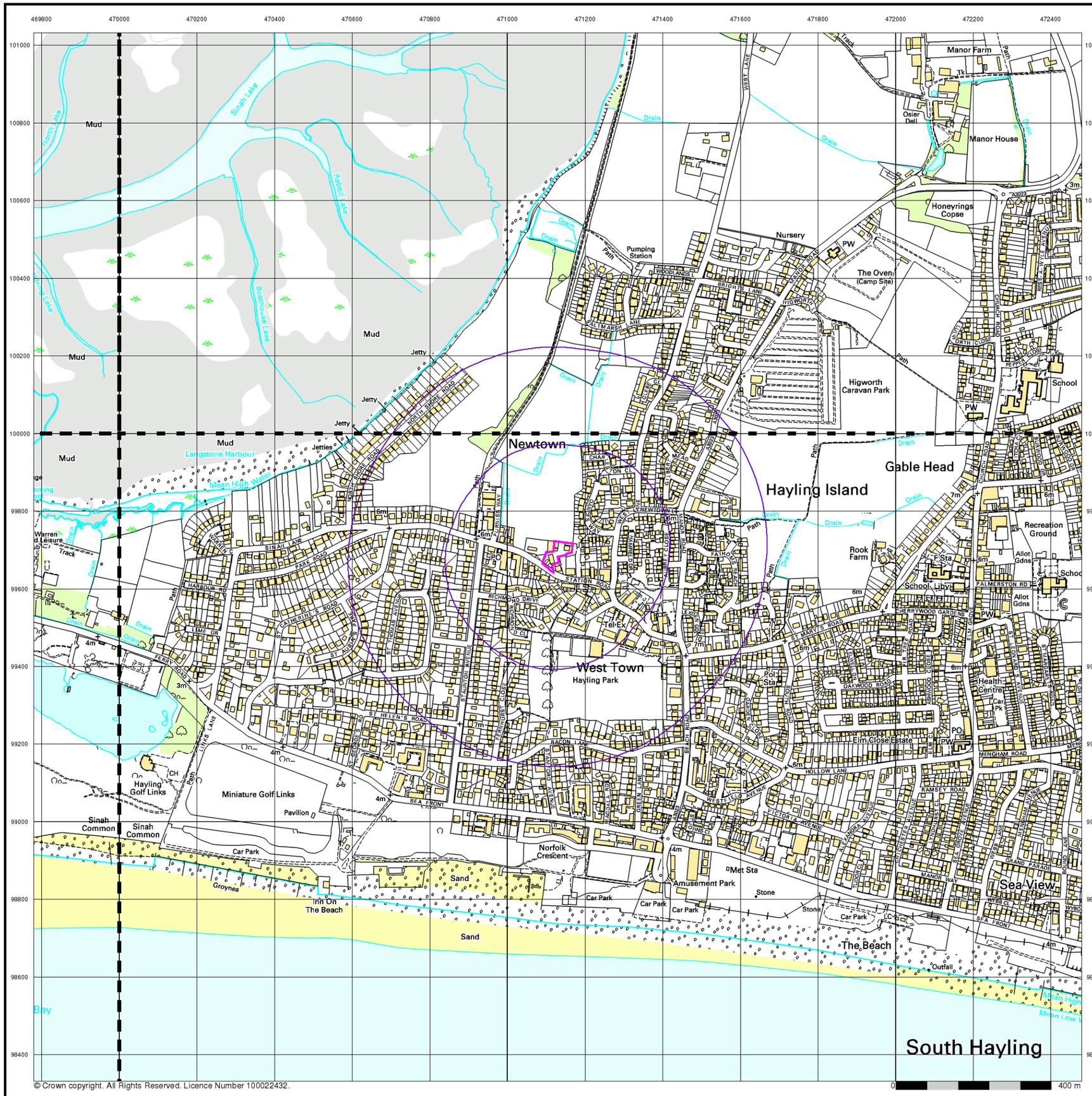
Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

N P Slydelc, 58 Station Road, HAYLING ISLAND, Hampshire, PO11 0EL

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



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10k Raster Mapping

Published 2006

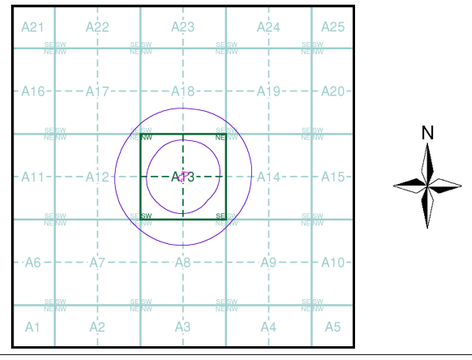
Source map scale - 1:10,000

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)

SU60SE 2006 1:10,000	SU70SW 2006 1:10,000
SZ69NE 2006 1:10,000	SZ79NW 2006 1:10,000

Historical Map - Slice A



Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
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0 400 m

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VectorMap Local

Published 2014

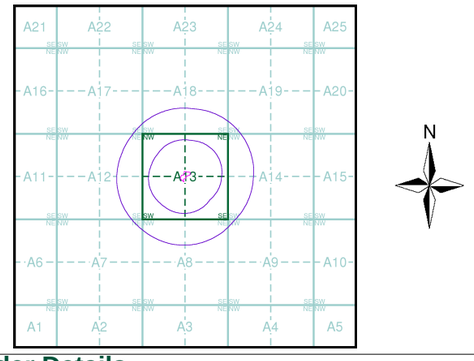
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SU60SE 2014 Variable	SU70SW 2014 Variable
SZ69NE 2014 Variable	SZ79NW 2014 Variable

Historical Map - Slice A



Order Details

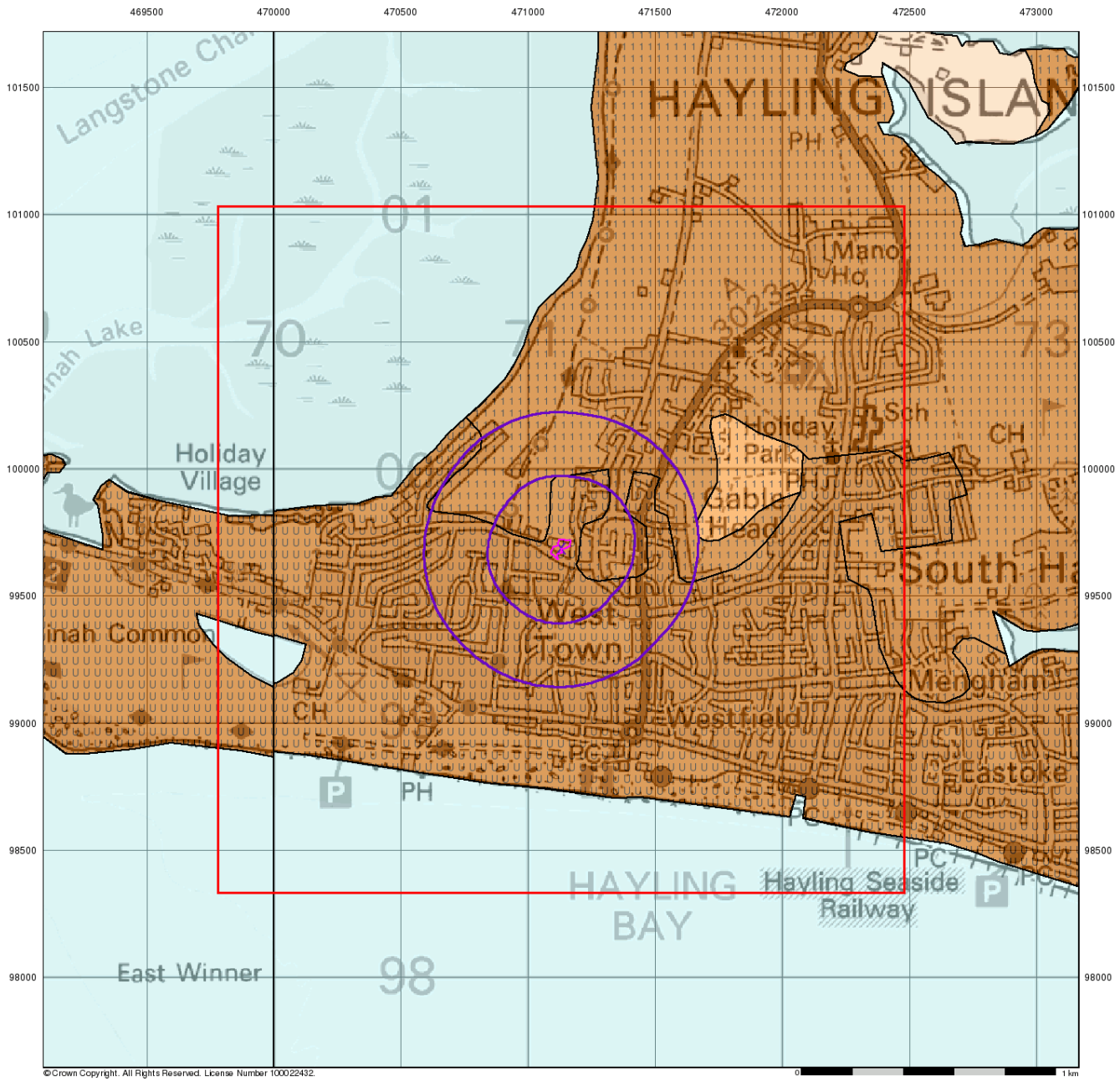
Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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Groundwater Vulnerability

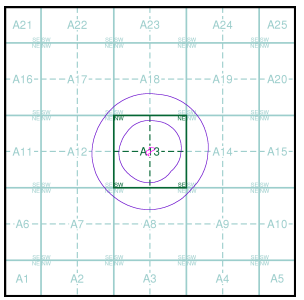
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



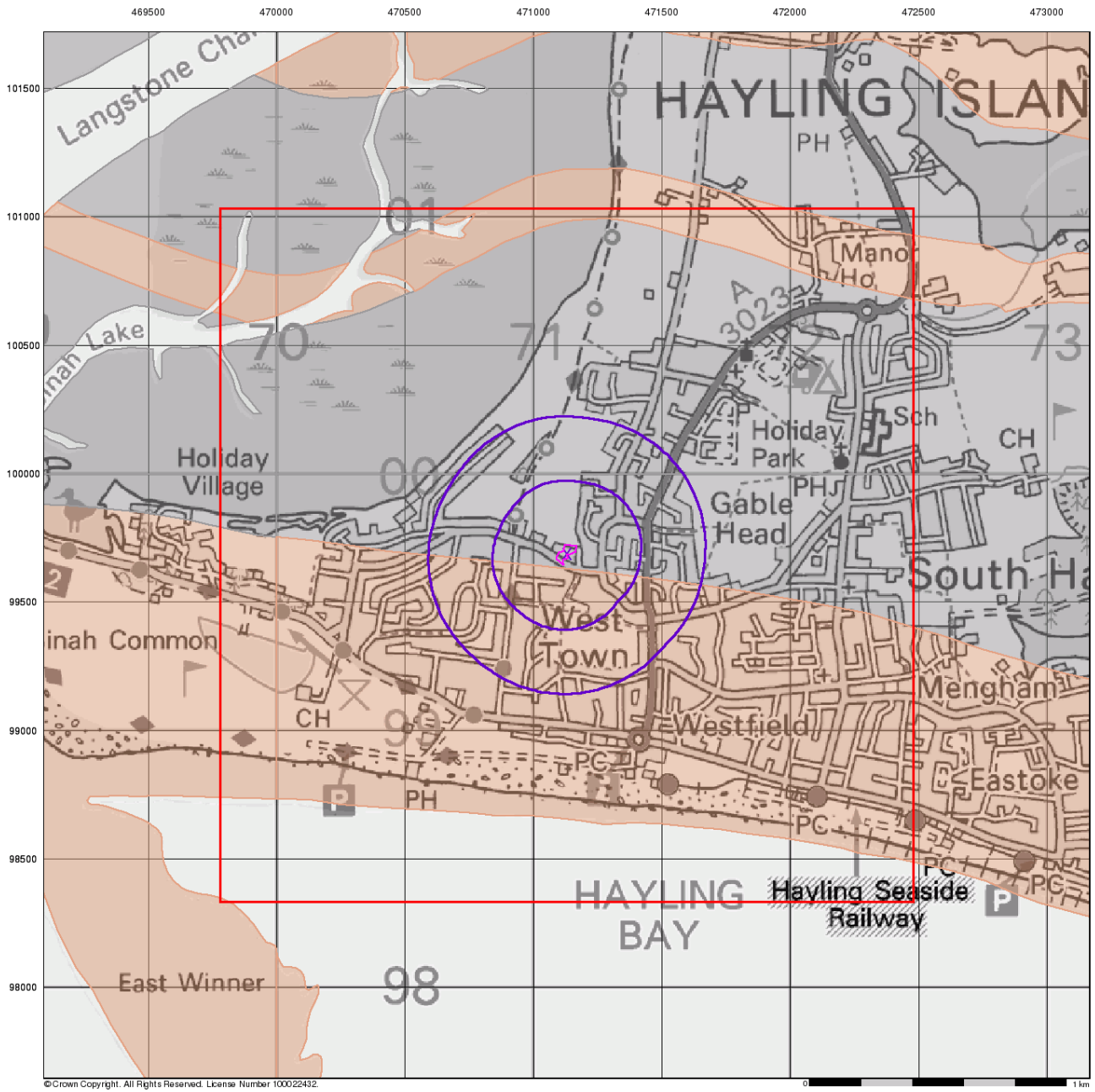
Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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Bedrock Aquifer Designation

General

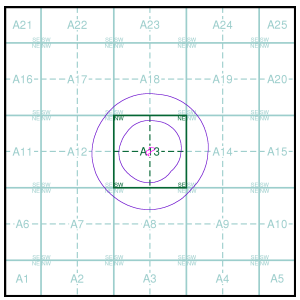
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

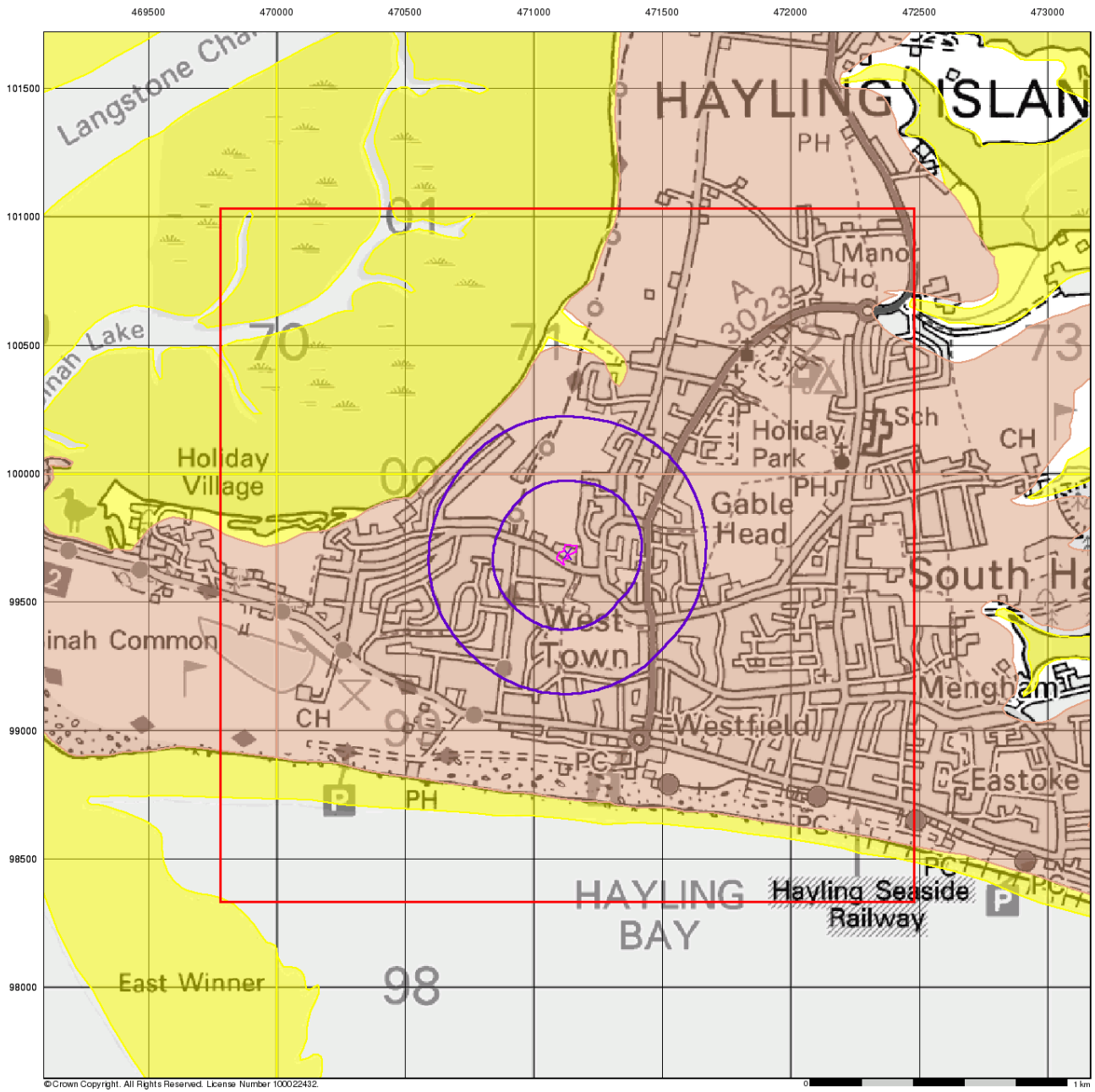


Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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Superficial Aquifer Designation

General

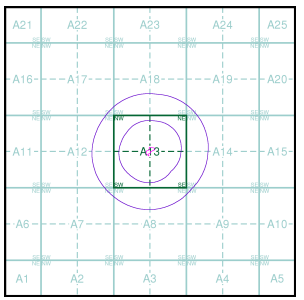
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



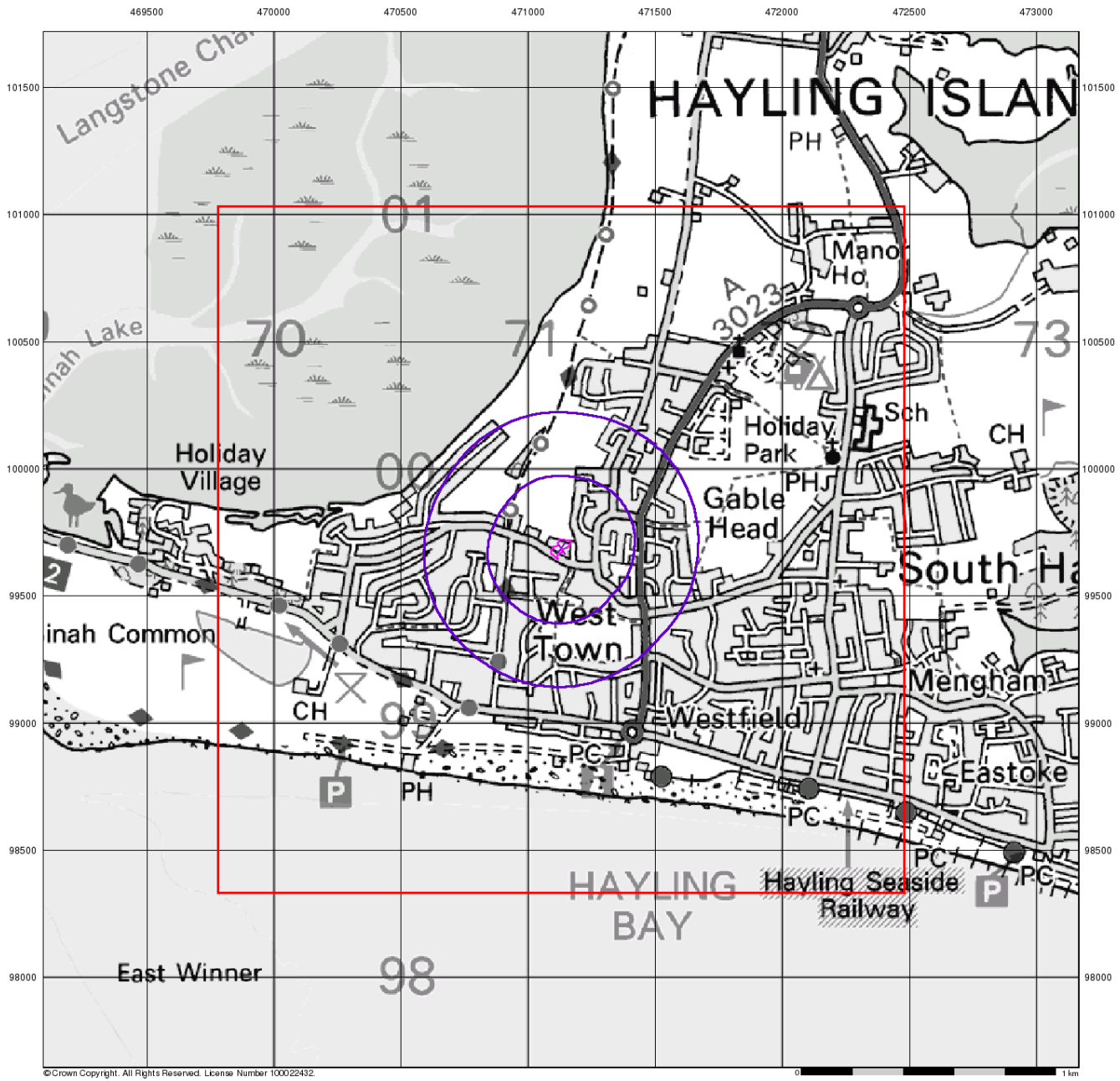
Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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Web: www.envirocheck.co.uk



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Source Protection Zones

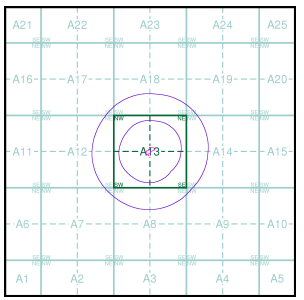
General

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

Agency and Hydrological

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

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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Sensitive Land Uses

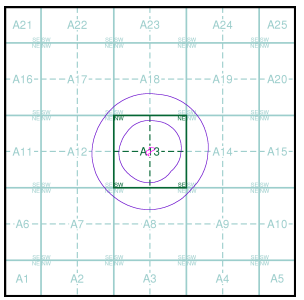
General

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

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

BGS Boreholes Datasheet

Order Details:

Order Number:
61240163_1_1

Customer Reference:
DG 517

National Grid Reference:
471130, 99690

Slice:
A

Site Area (Ha):
0.29

Borehole Search Buffer (m):
250

Site Details:

N P Slydelc
58 Station Road
HAYLING ISLAND
Hampshire
PO11 0EL

Client Details:

Dr D Grant
Dig-Geotech Ltd
South View
2 Easthams Road
Crewkerne
Somerset
TA18 7AQ

Prepared For:

Mr Nigel Sydell

BGS Boreholes Summary

Data Type	Page Number	On Site	0 to 250m
BGS Boreholes	pg 1	None	5

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

Report Version v49.0

BGS Boreholes Detail

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**BGS Boreholes** BGS Reference: Sz79nw42 Drilled Length (m): 5 Borehole Name: South Hayling Surface Water Drainage 14 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/456001/	A13SW (W)	151	3	470940 99680
22	**BGS Boreholes** BGS Reference: Sz79nw11 Drilled Length (m): 9.91 Borehole Name: Hayling Island Main Drainage No.102 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/455970/	A13NE (NE)	174	3	471330 99780
23	**BGS Boreholes** BGS Reference: Sz79nw43 Drilled Length (m): 5.1 Borehole Name: South Hayling Surface Water Drainage 15 Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/456002/	A13SW (SW)	205	3	470930 99540
24	**BGS Boreholes** BGS Reference: Sz79nw27 Drilled Length (m): 213.36 Borehole Name: Hayling Island Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/455986/	A13NE (N)	220	3	471220 99930
25	**BGS Boreholes** BGS Reference: Sz79nw106 Drilled Length (m): 25.3 Borehole Name: South Hayling Station Link to Borehole Scan: http://scans.bgs.ac.uk/sobi_scans/boreholes/456065/	A13NW (NW)	242	3	470930 99870

Data Currency and Contact Details

BGS Boreholes	Version	Update Cycle
BGS Boreholes British Geological Survey - National Geoscience Information Service	August 2014	Quarterly

Contact Details	Contact Logo
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	
- **Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk	

Envirocheck® Report:

Historical Data Report Datasheet

Order Details:

Order Number:
61240163_1_1

Customer Reference:
DG 517

National Grid Reference:
471130, 99690

Slice:
A

Site Area (Ha):
0.29

Search Buffer (m):
500

Site Details:

N P Slydelc
58 Station Road
HAYLING ISLAND
Hampshire
PO11 0EL

Client Details:

Dr D Grant
Dig-Geotech Ltd
South View
2 Easthams Road
Crewkerne
Somerset
TA18 7AQ

Prepared For:

Mr Nigel Sydell

Contents

Report Section	Page Number
Summary	-
Historical Building Plans Information	-
Historical Land Use Information	1
Historical Tanks and Energy Facilities	2
Historical Map List	3
Useful Contacts and Further Information	5

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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Report Version v49.0

Envirocheck® Historical

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Historical Building Plans Information				
Areas Cleared Due To Enemy Action				
Above Ground Fuel Tanks (100m)				n/a
Asbestos (100m)				n/a
Benzene/Benzole/Naphtha, Naphthalene/Kerosene (100m)				n/a
Electricity Generation (100m)				n/a
Electricity Sub-Stations (100m)				n/a
Gas Industry (100m)				n/a
Gas Storage (100m)				n/a
Gas Use (100m)				n/a
Oil Industry (100m)				n/a
Oil Storage (100m)				n/a
Oil Use (100m)				n/a
Paint based Oils (100m)				n/a
Paraffin (100m)				n/a
Petrol and Diesel Industry (100m)				n/a
Petrol and Diesel Storage (100m)				n/a
Petrol and Diesel Use (100m)				n/a
Potential Fuel Gas (100m)				n/a
Potential Fuel Oil (100m)				n/a
Potential Fuel Use (100m)				n/a
Potential Petrol and Diesel (100m)				n/a
Potential Tanks (100m)				n/a
Potentially Fuel-related Tanks (100m)				n/a
Underground Fuel Tanks (100m)				n/a
Historical Land Use Information				
Former Marshes				
Historical Flood Liabilities				
Potentially Contaminative Industrial Uses (Past Land Use)	pg 1	1	1	4
Potentially Infilled Land (Non-Water)	pg 1			1
Potentially Infilled Land (Water)	pg 1			1

Envirocheck® Historical

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Historical Tanks and Energy Facilities				
Electrical Sub Station Facilities (100m)	pg 2		1	n/a
Electricity Industry Facilities (100m)				n/a
Gas Industry Facilities (100m)				n/a
Gas Monitoring Facilities (100m)				n/a
Miscellaneous Power Facilities (100m)				n/a
Oil Industry Facilities (100m)				n/a
Petroleum Storage Facilities (100m)				n/a
Potential Tanks (100m)	pg 2	1		n/a
Tanks (100m)				n/a

Historical Land Use Information

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Gas manufacture & distribution Date of Mapping: 1898	A13SE (S)	0	1	471132 99680
2	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Railways Date of Mapping: 1879 - 1962	A13NW (W)	126	1	470976 99721
3	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Railways Date of Mapping: 1879 - 1962	A13NW (NW)	257	1	470953 99916
4	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Railways Date of Mapping: 1879 - 1962	A13NW (N)	313	1	471003 100011
5	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Railways Date of Mapping: 1879 - 1962	A18SW (N)	374	1	471052 100089
6	**Potentially Contaminative Industrial Uses (Past Land Use)** Use: Clay bricks & tiles [manufacture] Date of Mapping: 1879	A12NE (W)	413	1	470682 99733
7	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A12NE (W)	413	1	470682 99733
8	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1879	A13NW (W)	318	1	470797 99789

Historical Tanks and Energy Facilities

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Electrical Sub Station Facilities** Scale of Mapping: 1:2,500 Date of Mapping: 1990	A13SW (SW)	61	1	471045 99625
10	**Potential Tanks** Scale of Mapping: 1:2,500 Date of Mapping: 1990	A13NE (NE)	0	1	471147 99705

Historical Map List

No Historical Building Plans information available.

The following mapping has been analysed for Historical Land Use Information:

1:10,560	Mapsheet	Published Date
Sussex	060_00	1879
Sussex	072_00	1879
Hampshire & Isle Of Wight	084_00	1879
Hampshire & Isle Of Wight	084_NE	1898
Hampshire & Isle Of Wight	084_NW	1898
Hampshire & Isle Of Wight	084_SE	1898
Hampshire & Isle Of Wight	084_SW	1898
Sussex	060_SW	1899
Sussex	072_NW	1899
Hampshire & Isle Of Wight	084_NE	1910
Hampshire & Isle Of Wight	084_NW	1910
Hampshire & Isle Of Wight	084_SE	1910
Hampshire & Isle Of Wight	084_SW	1911
Sussex	060_SW	1913
Sussex	072_NW	1913
Hampshire & Isle Of Wight	084_NE	1938
Hampshire & Isle Of Wight	084_SE	1938
Hampshire & Isle Of Wight	084_SW	1938
Hampshire & Isle Of Wight	084_NW	1942
Sussex	060_SW	1953
Ordnance Survey Plan	SU70SW	1962
Ordnance Survey Plan	SZ69NE	1962
Ordnance Survey Plan	SZ79NW	1962
Ordnance Survey Plan	SU60SE	1963
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SU70SW	1972
Ordnance Survey Plan	SZ69NE	1972
Ordnance Survey Plan	SU60SE	1990
Ordnance Survey Plan	SZ79NW	1991

Historical Map List

The following mapping has been analysed for Historical Tanks and Energy Facilities:

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SU7000	1969
Ordnance Survey Plan	SU7100	1969
Ordnance Survey Plan	SZ7099	1969
Ordnance Survey Plan	SZ7199	1969
Ordnance Survey Plan	SZ7099	1990
Ordnance Survey Plan	SZ7199	1990

Useful Contacts and Further Information

Contact	Name and Address	Contact Details
1	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk

Historical Building Plans Information

This data set contains potentially contaminative features such as asbestos, petrol, oil and tanks captured from Historical Building Plans. The Historical Building Plans were produced by the London-based firm Charles E. Goad Ltd. as fire insurance plans, dating back to 1885. The firm ceased production of fire insurance plans in 1970. Most of the important towns and cities of the British Isles are covered. Historical Building Plans are usually at the scales of 1:480 (1 inch to 40 feet) for the British Isles. They were updated every 5-6 years by means of revision sheets designed to be pasted on to the original plans.

It should be noted that Historical Building Plans are only available for certain major towns and cities and in some cases there may only be partial coverage of the search area. It cannot therefore be assumed that the absence of responses under the Historical Building Plans section of this report indicates that no hazards exist. Please check the Historical Building Plans Map List table in the Historical Map List section of this report to establish if Historical Building Plans are available for this search area.

Historical Land Use Information

Landmark's Historical Land Use Data is the result of combined analysis of historical map data captured at 1:10,560 and 1:10,000. A unique comprehensive database of Historic Land Use from the 1840's to 1996 it includes 67 different types of potentially contaminated past industrial land use. This entailed analysing over 60,000 maps and is drawn from at least four, and up to six historical map editions. In addition a seventh layer was also created, known as the land use layer, containing areas of infilled land which are plotted via comparison between two or more map editions.

Historical Tanks and Energy Facilities

In addition to HLUD, additional analysis uncovered some of the most dangerous sources of contamination (past and present tanks, petrol storage, oil, gas, electricity, miscellaneous facilities). This data set covers over 390,000 Historical Tanks and Energy facilities in Great Britain and was captured from post war 1:2500 and 1:1250 Ordnance Survey historical mapping covering a period from 1943 to 1996.



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Envirocheck® Historical

General

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

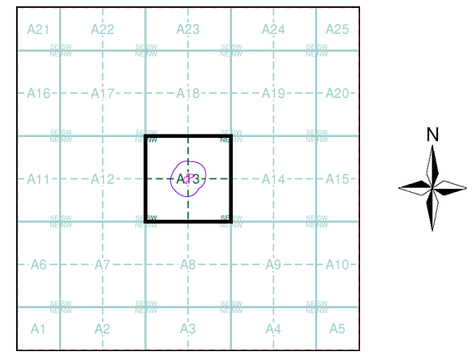
Historical Building Plans

- Area Cleared due to Enemy Action
- Asbestos
- Above Ground Fuel Tanks
- Benzene/Benzole/Naphtha, Naphthalene/Kerosene
- Electricity Generation
- Electricity Sub-Stations
- Gas Industry
- Gas Storage
- Gas Use
- Oil Industry
- Oil Storage
- Oil Use
- Paint based Oils
- Paraffin
- Petrol and Diesel Industry
- Petrol and Diesel Storage
- Petrol and Diesel Use
- Potential Fuel Gas
- Potential Fuel Oil
- Potential Fuel Use
- Potential Petrol and Diesel
- Potential Tanks
- Potentially Fuel-related Tanks
- Underground Fuel Tanks

Historical Tanks and Energy Facilities

- (B) Electrical Sub Station Facility
- (E) Electricity Industry Facility
- (G) Gas Industry Facility
- (V) Gas Monitoring Facility
- (M) Miscellaneous Power Facility
- (O) Oil Industry Facility
- (S) Petroleum Storage Facility
- (P) Potential Tank
- (T) Tank

Historical Data Report - Segment A13



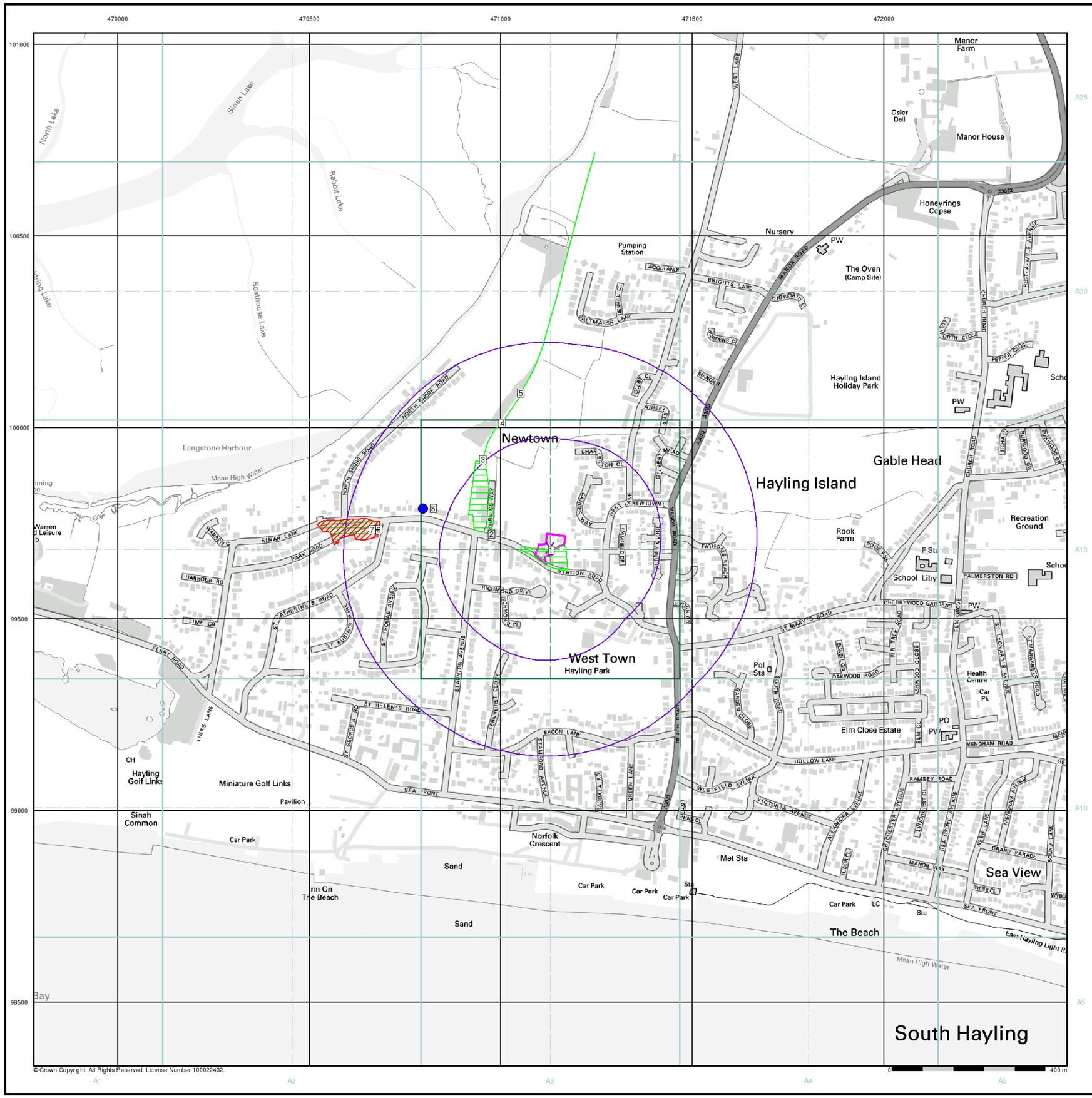
Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Plot Buffer (m):	100

Site Details

N P Slydelc, 58 Station Road, HAYLING ISLAND, Hampshire, PO11 0EL

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



Envirocheck® Historical

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

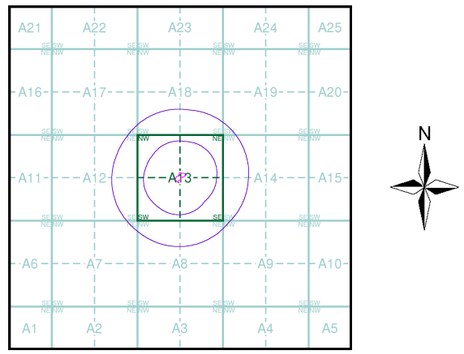
Historical Building Plans

Area Cleared due to Enemy Action

Historical Land Use

- Former Marsh
- Historical Flood Liability
- Historical Flood Liability (Location)
- Potentially Contaminative Industrial Use (Past Land Use)
- Potentially Contaminative Industrial Use (Past Land Use) (Linear)
- Potentially Contaminative Industrial Use (Past Land Use) (Location)
- Potentially Infilled Land (Non-Water)
- Potentially Infilled Land (Non-Water) (Linear)
- Potentially Infilled Land (Non-Water) (Location)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water) (Linear)
- Potentially Infilled Land (Water) (Location)

Historical Data Report - Slice Map A



Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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Envirocheck®

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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

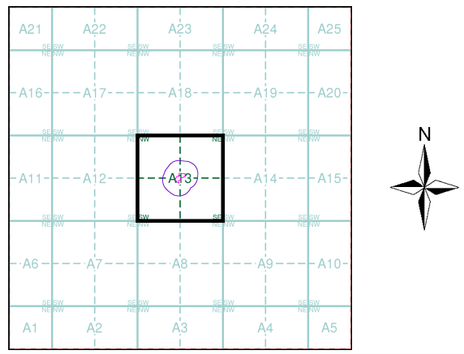
Waste

- 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

Site Sensitivity Map - Segment A13



Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29

Site Details

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Envirocheck®

General

- Specified Site
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- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
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- Enforcement or Prohibition Notice
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- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
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- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
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- River Quality Sampling Point
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Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

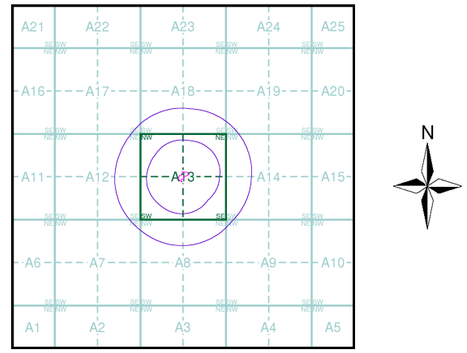
Waste

- 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

Site Sensitivity Map - Slice A



Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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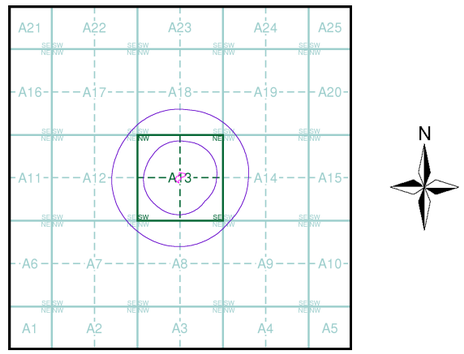
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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General

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

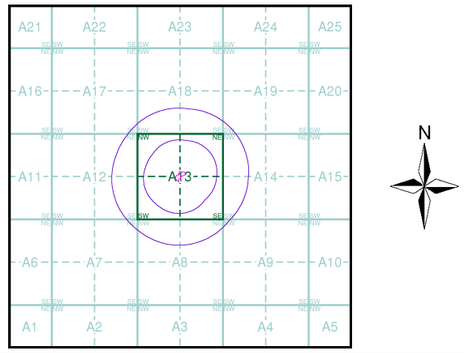
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

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

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

Borehole Map - Slice A



Order Details

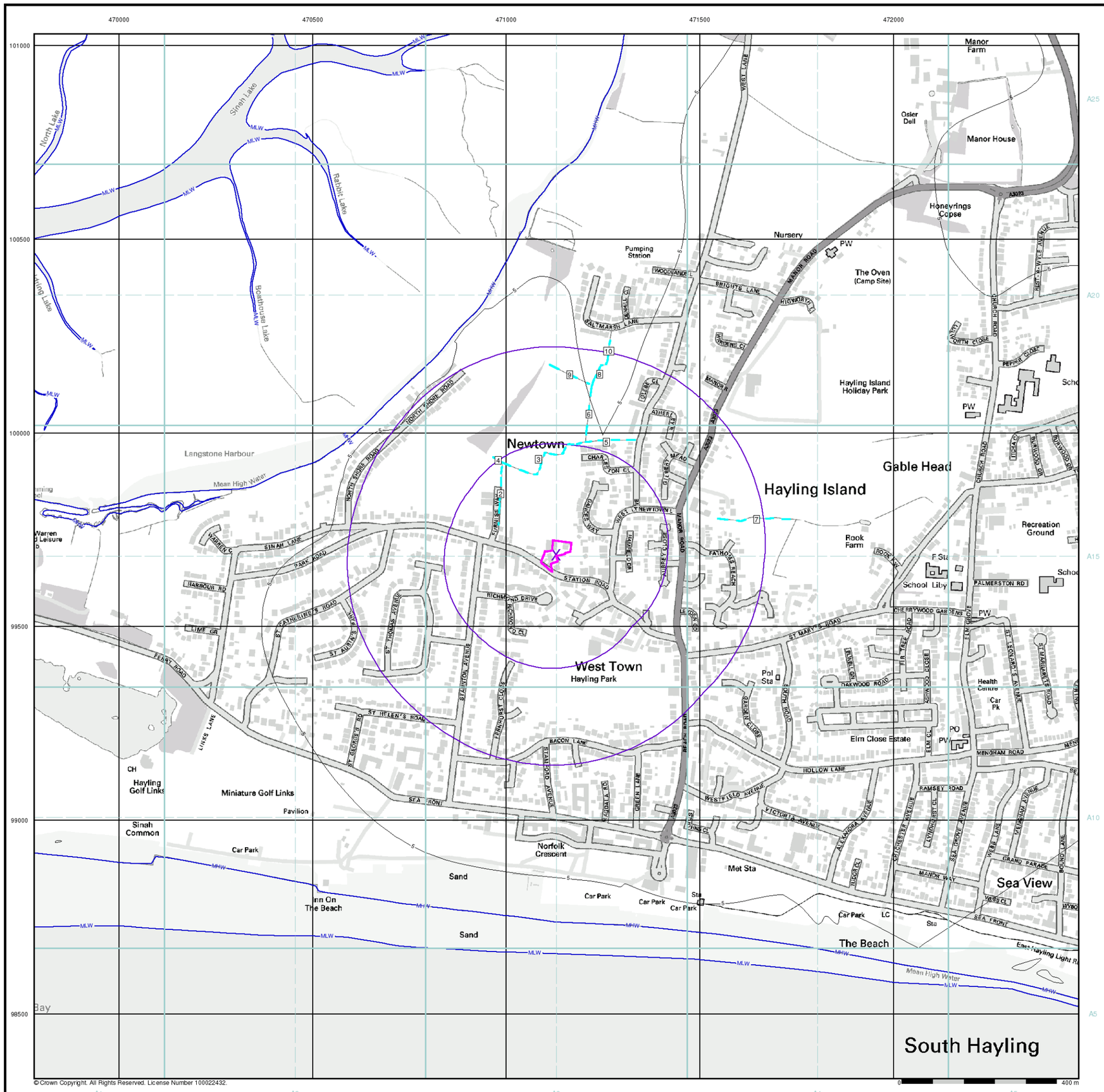
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Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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0 400 m

A1 A2 A3 A4 A5

General

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

Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

Standard Contour 105 100 95

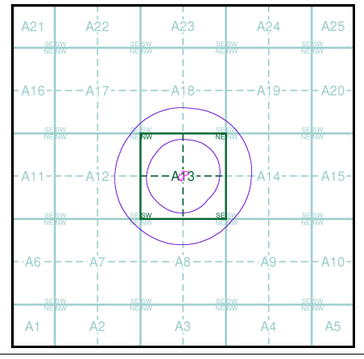
Master Contour

Spot Height *167.3

MLW Mean Low Water

MHW Mean High Water

EA/NRW Detailed River Network Map - Slice A



Order Details

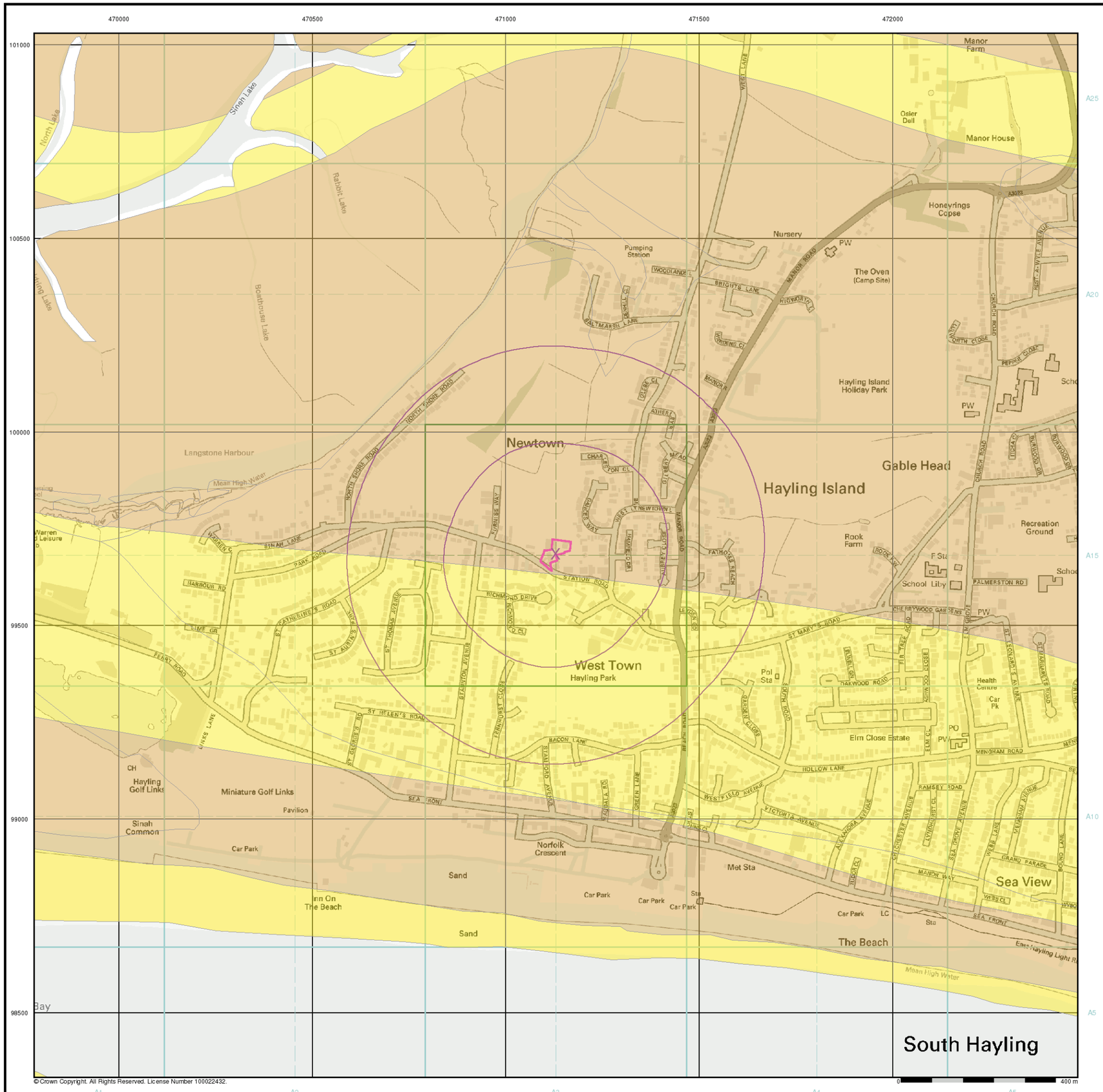
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General

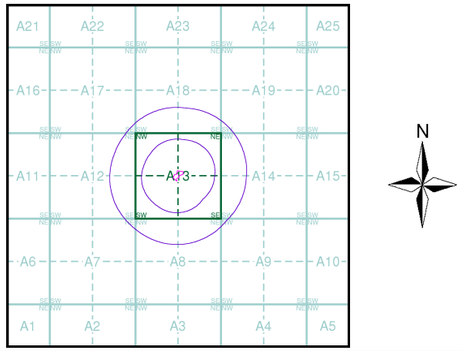
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



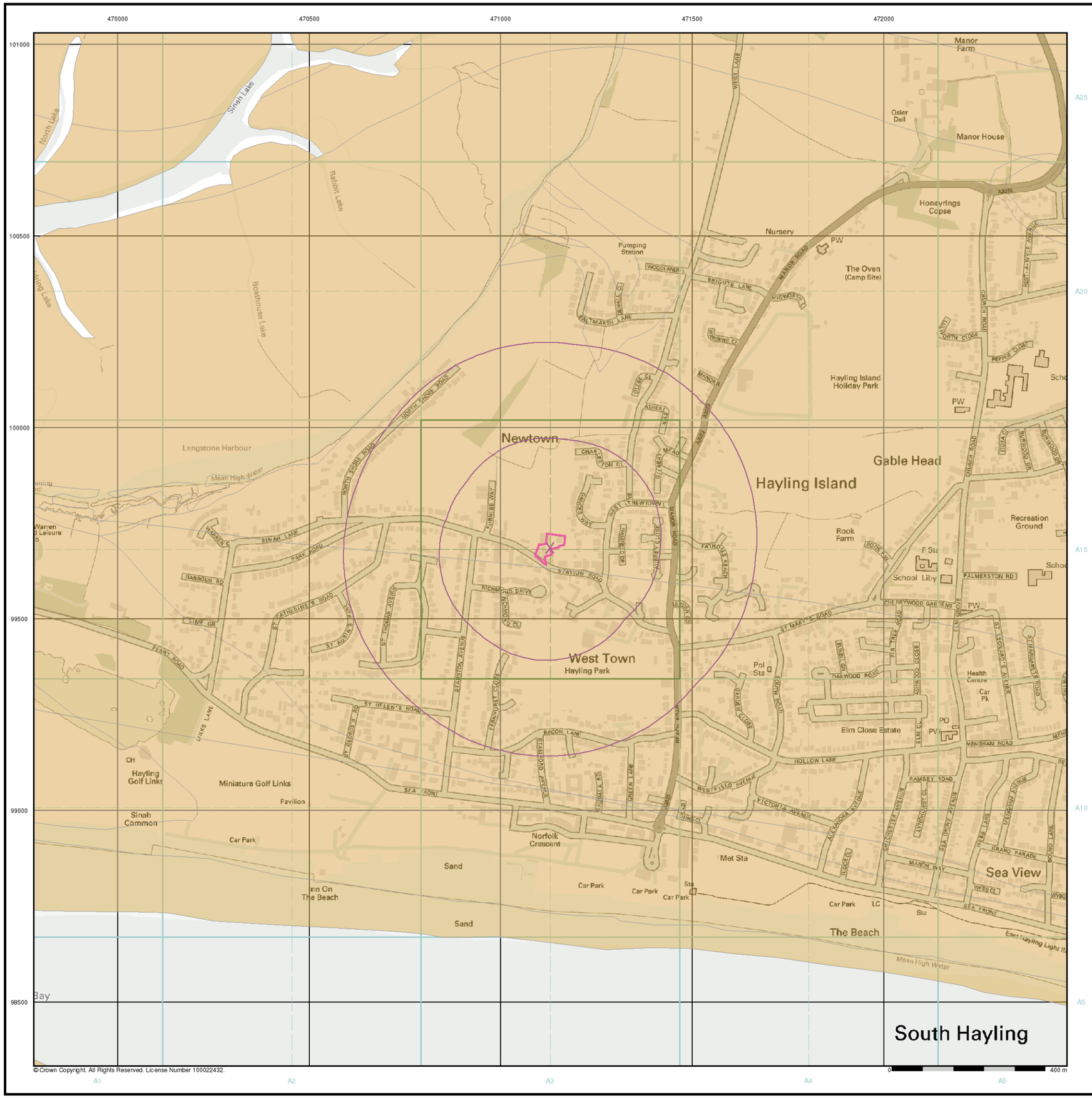
Order Details

Order Details:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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General

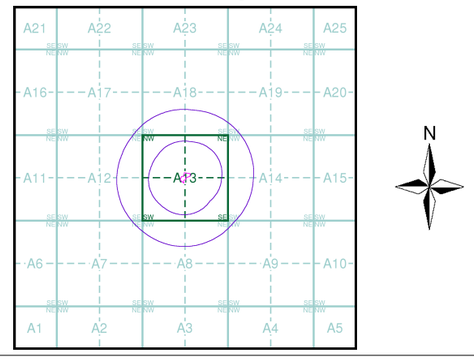
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Slice:	A
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details

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General

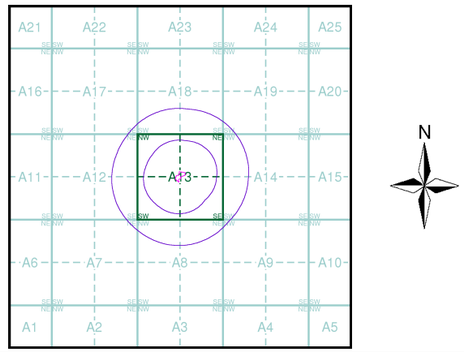
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



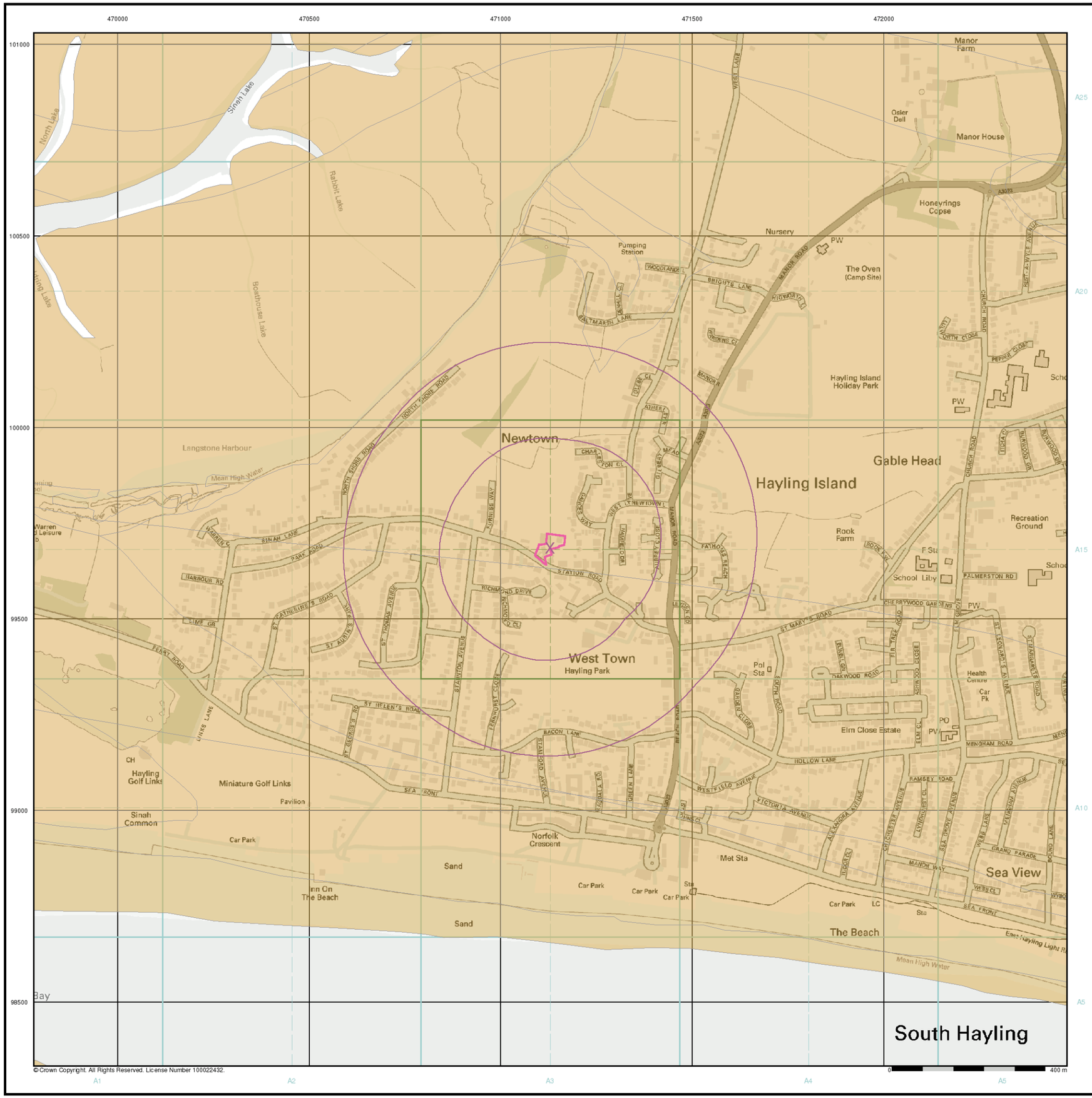
Order Details

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Site Area (Ha):	0.29
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General

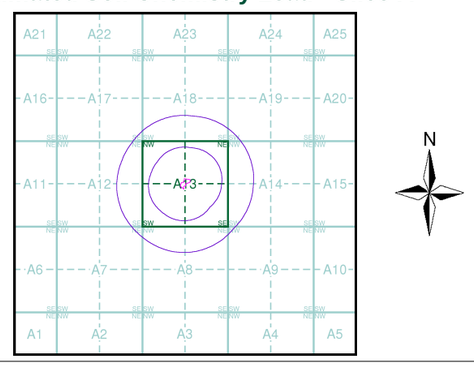
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Estimated Soil Chemistry Lead - Slice A



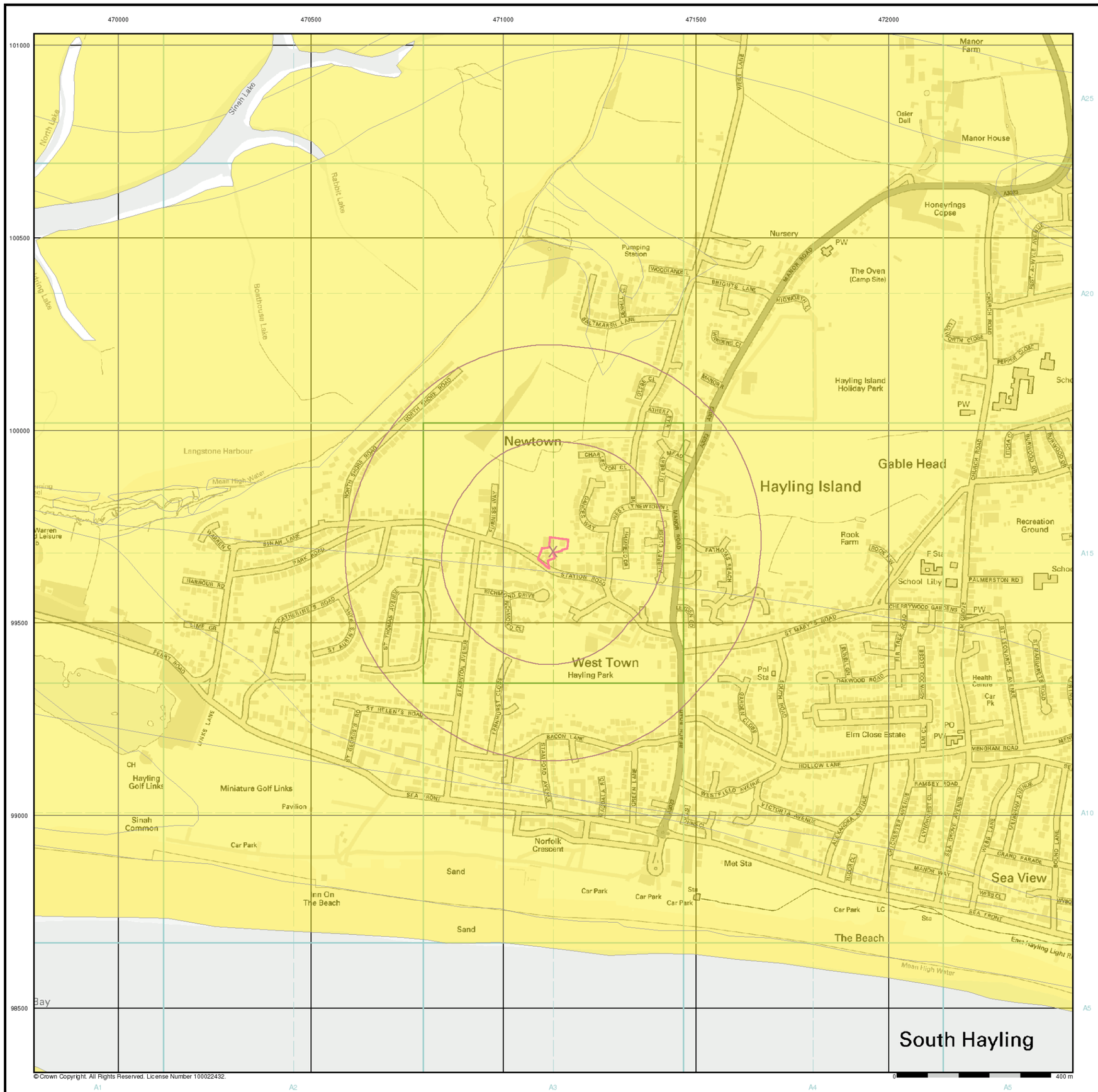
Order Details

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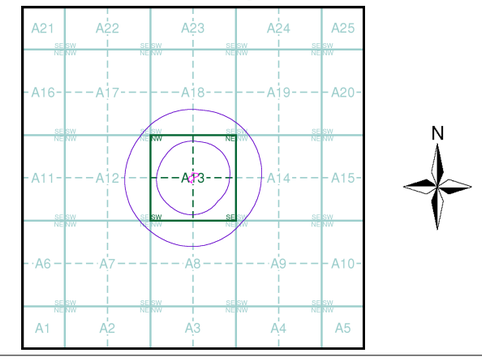
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



Order Details

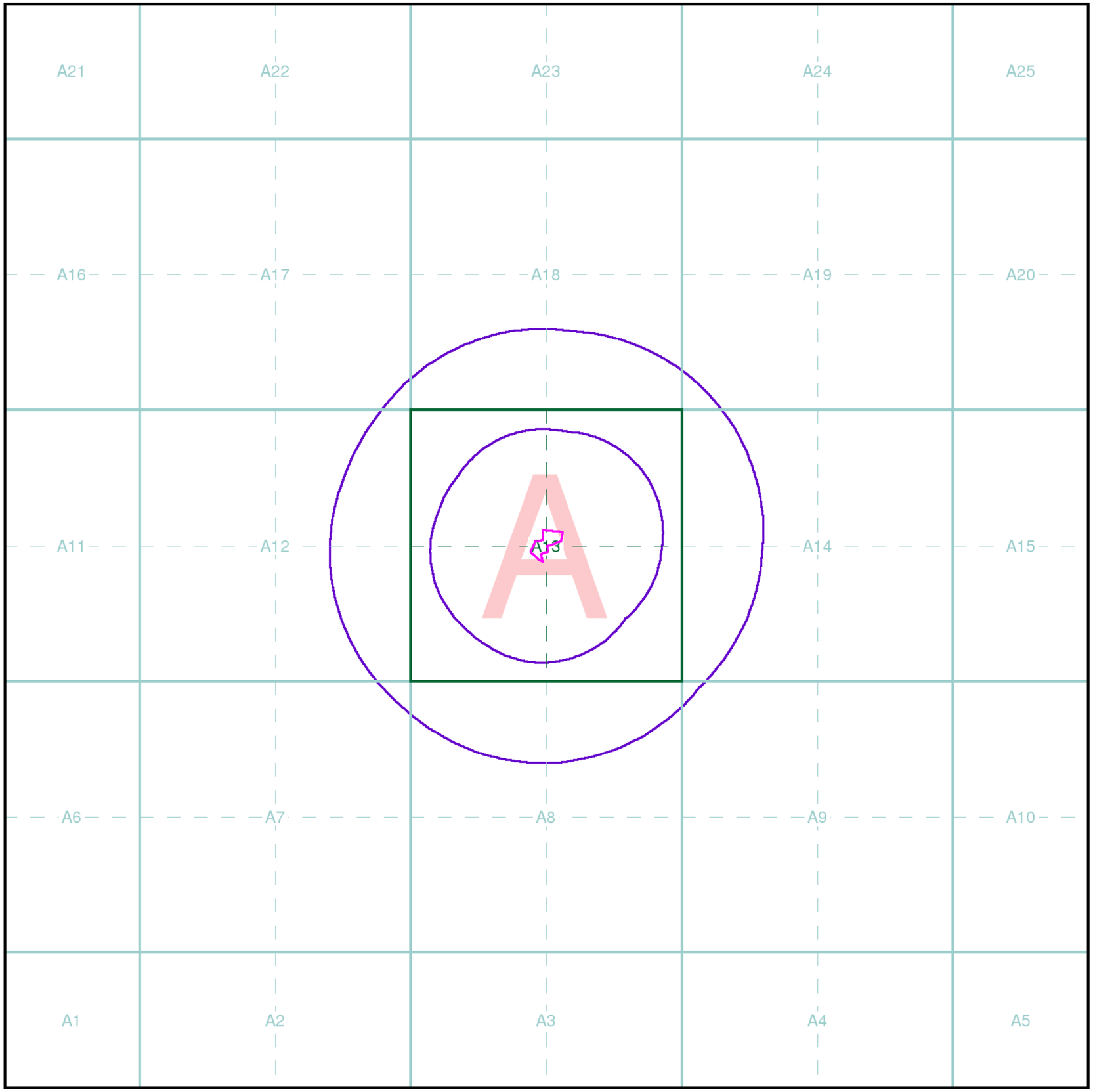
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Index Map

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

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

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

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

A selection of organisations who provide data within this report:

Ordnance Survey® Licensed Partner

British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Prepared For
Mr Nigel Sydell

Client Details
Dr D Grant, Dig-Geotech Ltd, South View, 2 Easthams Road, Crewkerne, Somerset, TA18 7AQ

Order Details

Order Number:	61240163_1_1
Customer Ref:	DG 517
National Grid Reference:	471130, 99690
Site Area (Ha):	0.29
Search Buffer (m):	500

Site Details
N P Slydelc, 58 Station Road, HAYLING ISLAND, Hampshire, PO11 0EL

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http://www.landmarkinfo.co.uk/Terms/Show/515

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Dig-Geotech Limited

South View
Easthams Road
Crewkerne
Somerset TA18 7AQ

www.dig-geotech.com

Tel : 01460 768 38