The Sizewell C Project

6.6 Volume 5 Two Village Bypass

Chapter 11 Geology and Land Quality
Appendices 11A - 11C
Part 2 of 2

Revision: 1.0

Applicable Regulation: Regulation 5(2)(a)

PINS Reference Number: EN010012

May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
199915699_1_1

Customer Reference:
5166065

National Grid Reference:
636060, 260790

Slice:
C

Site Area (Ha):
7.51

Search Buffer (m):
1000

Site Details:

Church Bungalow, Farnham
SAXMUNDHAM
IP17 1LA

Client Details:

Mr J Adley
Atkins Ltd
The Hub 500 Park Avenue
Aztec West
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Prepared For:

Atkins Ltd

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Contents

Introduction

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

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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					Yes
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 2				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 2				1 (*15)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 6	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Source Protection Zones	pg 8				3
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 8				6

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 10	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)					
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					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 11	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 11	Yes		Yes	
BGS Recorded Mineral Sites	pg 11				1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 12	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production					
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 13		1		
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 13	1			
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 13	3			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(S)	0	1	636064 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	1	636250 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C4SW (E)	0	1	636200 260792
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	1	1	635650 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	74	1	637200 260400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	101	1	635450 259900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	151	1	635500 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	169	1	635500 259950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	237	1	635550 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	251	1	635550 260450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	253	1	635650 260400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	265	1	635150 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	278	1	635250 260050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	306	1	635650 260100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	356	1	637250 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	357	1	635000 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	363	1	635800 260400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	370	1	636200 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	C4SW (NW)	388	1	636050 260800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	403	1	636300 260150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SE)	418	1	636350 260300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SE)	442	1	636300 260500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	C2SE (W)	442	1	635000 260792
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	445	1	635750 260350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	C4SW (N)	469	1	636064 260792
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	475	1	636200 260050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	481	1	636150 259950
	Nearest Surface Water Feature	C4SE (E)	676	-	636519 260815
	River Quality Name: Alde GQA Grade: River Quality E Reach: Sweffling Bridge...R. Alde Estimated Distance (km): 4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	C3SE (SW)	569	2	635888 260685
1	**Water Abstractions** Operator: B & J Humphrey Licence Number: 7/35/04/*G/0103 Permit Version: 100 Location: Bore At Butchers Hole Benhall Authority: Environment Agency, Anglian 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: Crag; Status: Perpetuity Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st March 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	C4SE (E)	753	2	636390 260750
	Water Abstractions Operator: J E Pepper Licence Number: 7/35/04/*G/0017 Permit Version: 100 Location: Well At Benhall Place,Benhall Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1972 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	C7SW (NW)	1584	2	635470 261330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 106 Location: Borehole 3 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Environmental: Remedial River/Wetland Support: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1771	2	635400 261520
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 106 Location: Borehole 3 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1771	2	635400 261520
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 105 Location: Borehole 3 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th November 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1771	2	635400 261520
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 104 Location: Borehole 3 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1771	2	635400 261520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 106 Location: Borehole 1 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1775	2	635250 261520
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 106 Location: Borehole 1 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Environmental: Remedial River/Wetland Support: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1775	2	635250 261520
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 105 Location: Borehole 1 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th November 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1775	2	635250 261520
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 104 Location: Borehole 1 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7SW (NW)	1775	2	635250 261520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 106 Location: Borehole 2 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Environmental: Remedial River/Wetland Support: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7NW (NW)	1881	2	635350 261630
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 106 Location: Borehole 2 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th May 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7NW (NW)	1881	2	635350 261630
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 105 Location: Borehole 2 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th November 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7NW (NW)	1881	2	635350 261630
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 104 Location: Borehole 2 At Benhall Suffolk Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Benhall - Point 1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th March 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7NW (NW)	1881	2	635350 261630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 102 Location: 2 Bores Nr Stone Cott,Benhall Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th September 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	C7NW (NW)	1881	2	635350 261630
	Water Abstractions Operator: Northumbrian Water Ltd Licence Number: 7/35/04/*G/0067 Permit Version: 101 Location: 2 Bores Nr Stone Cott,Benhall Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	C7NW (NW)	1881	2	635350 261630
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	(S)	0	3	636000 260000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(SE)	0	3	636405 260000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	C4SE (E)	0	3	636298 260838
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(E)	0	3	636726 260792
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	(E)	0	3	637000 260792
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(S)	0	3	636103 260000
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	(S)	0	3	636064 260000
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	C4SW (N)	0	3	636064 260792
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(S)	0	3	636064 260000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(E)	0	3	636726 260792
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	C4SE (E)	0	3	636298 260838
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(SE)	0	3	636405 260000
2	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	C4SW (NW)	683	2	635936 260898
3	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	(SW)	768	2	634470 259846
4	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	C4NW (NW)	967	2	635922 260986
	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				
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 221.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	C3SE (SW)	810	4	635808 260671
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 173.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alde Catchment Name: Suffolk Coastal Primacy: 1	C4SW (S)	897	4	636025 260598
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	C3SE (SW)	918	4	635901 260607
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 99.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Alde Catchment Name: Suffolk Coastal Primacy: 1	C4SW (S)	979	4	635996 260604

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	C4SW (S)	979	4	635996 260608
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	C4SW (SW)	981	4	635967 260648

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Suffolk County Council - Has supplied landfill data		0	5	636064 260792
	Local Authority Landfill Coverage Name: Suffolk Coastal District Council - Had landfill data but passed it to the relevant environment agency		0	6	636064 260792

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Neogene To Quaternary Rocks (Undifferentiated)	C4SW (N)	0	1	636064 260792
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	C4SW (W)	0	1	635955 260822
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	C4SW (N)	0	1	636064 260792
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	C3SE (W)	0	1	635609 260723
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	C4SE (E)	0	1	636298 260838
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	(SW)	251	1	635557 260453
11	**BGS Recorded Mineral Sites** Site Name: Butcher Hole Location: Farnham, Saxmundham, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 212536 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	C4SE (E)	799	1	636406 260846

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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: Very Low Source: British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	636064 260792
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	636064 260792
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	636064 260792
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	636064 260792
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4SW (E)	0	1	636201 260812
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C4SE (E)	0	1	636298 260838
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	C4SW (N)	0	1	636064 260792
	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	C4SW (N)	0	1	636064 260792

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Ancient Woodland** Name: Foxburrow Wood Reference: 1117314 Area(m²): 43774.93 Type: Ancient and Semi-Natural Woodland	(SE)	50	8	636828 259940
13	**Environmentally Sensitive Areas** Name: Suffolk River Valleys (decommissioned) Multiple Areas: Y Total Area (m2): 162490824.42 Source: Natural England	C4SW (N)	0	8	636064 260792
14	**Nitrate Vulnerable Zones** Name: Alde Nvz Description: Surface Water Source: Environment Agency, Head Office	C4SW (N)	0	3	636064 260792
15	**Nitrate Vulnerable Zones** Name: Sandlings And Chelmsford Description: Groundwater Source: Environment Agency, Head Office	C4SW (N)	0	3	636064 260792
16	**Nitrate Vulnerable Zones** Name: Fromus Nvz Description: Surface Water Source: Environment Agency, Head Office	(E)	0	3	636600 260792

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Suffolk Coastal District Council - Environmental Health Department	March 2015	Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	January 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Anglian Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	January 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control Suffolk Coastal District Council - Environmental Health Department	April 2014	Variable
Local Authority Pollution Prevention and Controls Suffolk Coastal District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Suffolk Coastal District Council - Environmental Health Department	April 2014	Variable
Nearest Surface Water Feature Ordnance Survey	January 2019	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Anglian Region	June 2016	
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 - Anglian Region - Eastern Area	January 2019	Quarterly
Water Abstractions Environment Agency - Anglian Region	January 2019	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	Annually
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	January 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2019	Quarterly
Flood Defences Environment Agency - Head Office	February 2019	Quarterly
OS Water Network Lines Ordnance Survey	October 2018	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	July 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Eastern Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Eastern Area	January 2019	Quarterly
Local Authority Landfill Coverage Suffolk Coastal District Council - Environmental Health Department Suffolk County Council	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Suffolk Coastal District Council - Environmental Health Department Suffolk County Council	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Suffolk County Council - Environment and Transport Suffolk Coastal District Council	February 2006 February 2016	Annual Rolling Update Variable
Planning Hazardous Substance Consents Suffolk County Council - Environment and Transport Suffolk Coastal District Council	February 2006 February 2016	Annual Rolling Update Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

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

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Suffolk County Council** St Edmund House, County Hall, Ipswich, Suffolk, IP4 1LZ	Telephone: 01473 583000 Fax: 01473 230240 Website: www.suffolkcc.gov.uk
6	**Suffolk Coastal District Council - Environmental Health Department** Council Offices, Melton Hill, Woodbridge, Suffolk, IP12 1AU	Telephone: 01394 383789 extn 2238 Fax: 01394 385100 Website: www.suffolkcoastal.gov.uk
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.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 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

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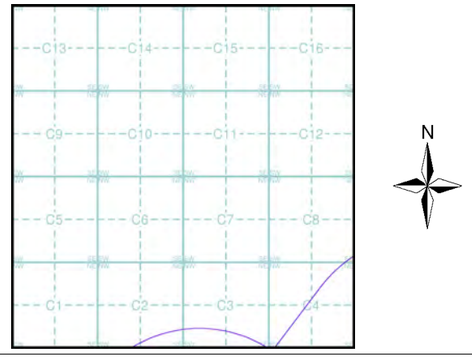
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:10,560	1884 - 1885	2
Suffolk	1:10,560	1905	3
Suffolk	1:10,560	1928	4
Suffolk	1:10,560	1938 - 1951	5
Suffolk	1:10,560	1950	6
Ordnance Survey Plan	1:10,000	1957 - 1958	7
Ordnance Survey Plan	1:10,000	1975 - 1978	8
Ordnance Survey Plan	1:10,000	1990	9
10K Raster Mapping	1:10,000	2000	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2019	12

Historical Map - Slice C



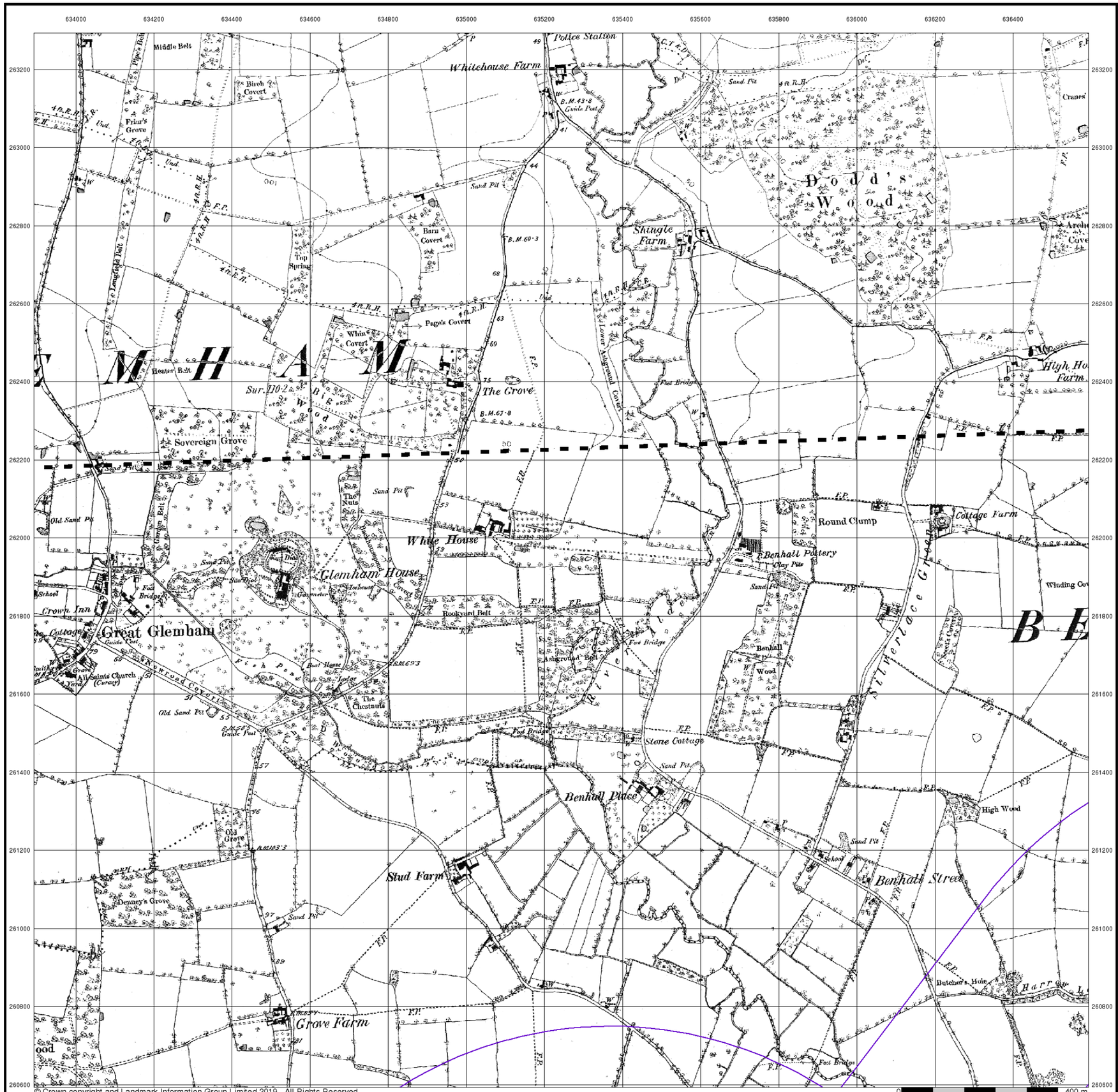
Order Details

Order Number: 199915699_1_1
Customer Ref: 5166065
National Grid Reference: 636060, 260790
Slice: C
Site Area (Ha): 7.51
Search Buffer (m): 1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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



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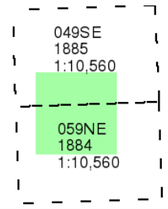
Suffolk

Published 1884 - 1885

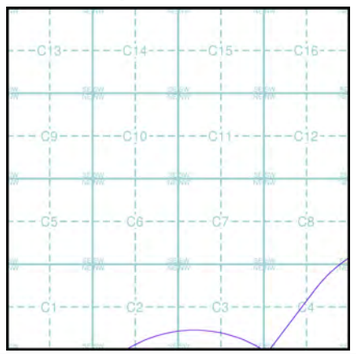
Source map scale - 1:10,560

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 C



Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636060, 260790
Slice:	C
Site Area (Ha):	7.51
Search Buffer (m):	1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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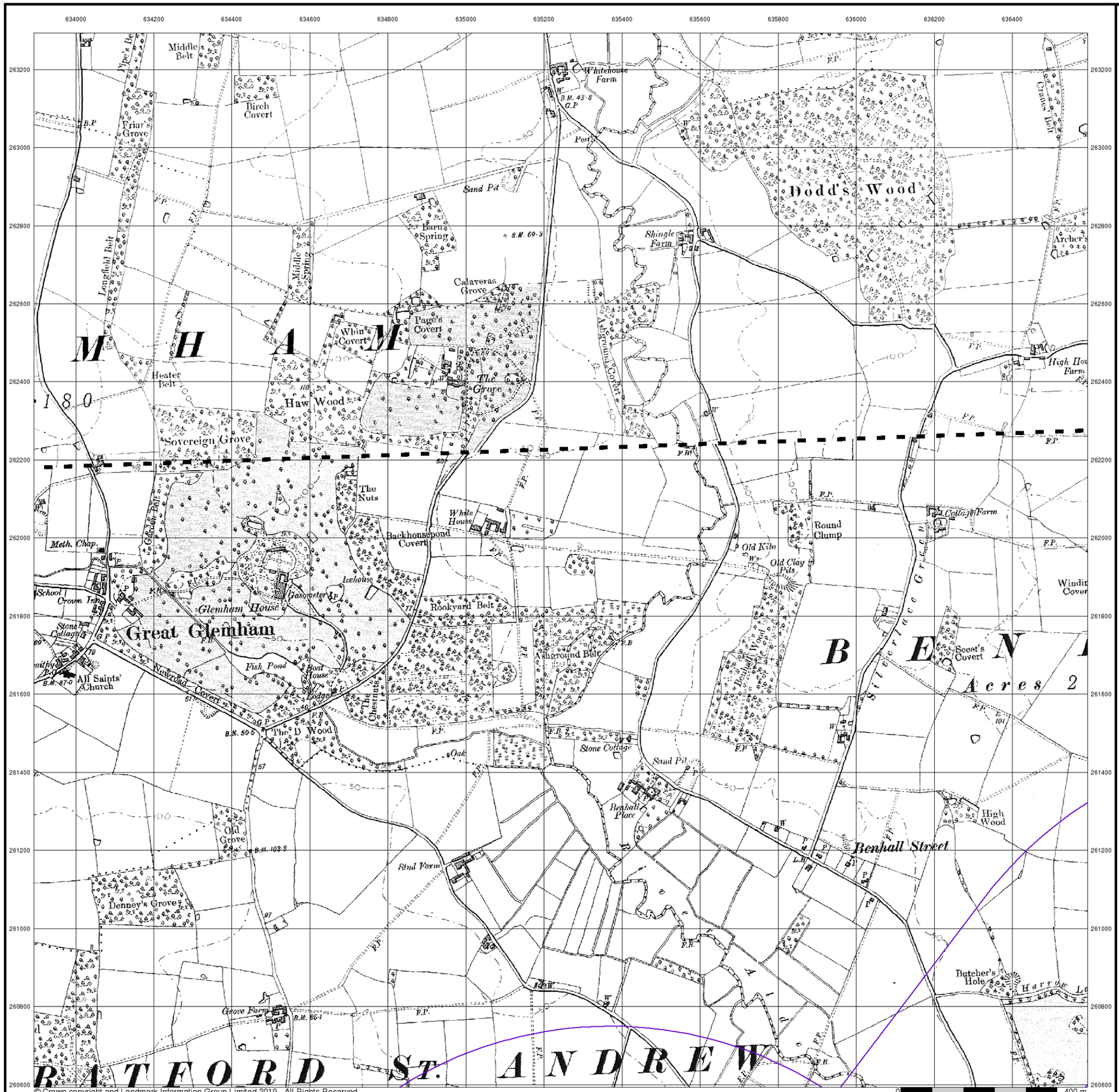

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Suffolk

Published 1905

Source map scale - 1:10,560

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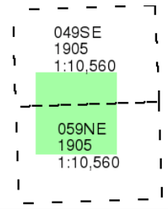
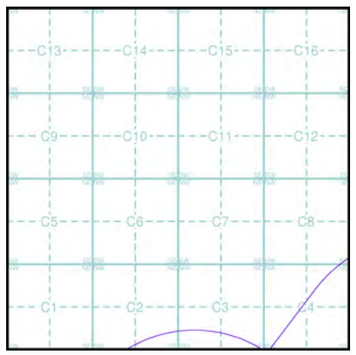


Historical Map - Slice C



Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636060, 260790
Slice:	C
Site Area (Ha):	7.51
Search Buffer (m):	1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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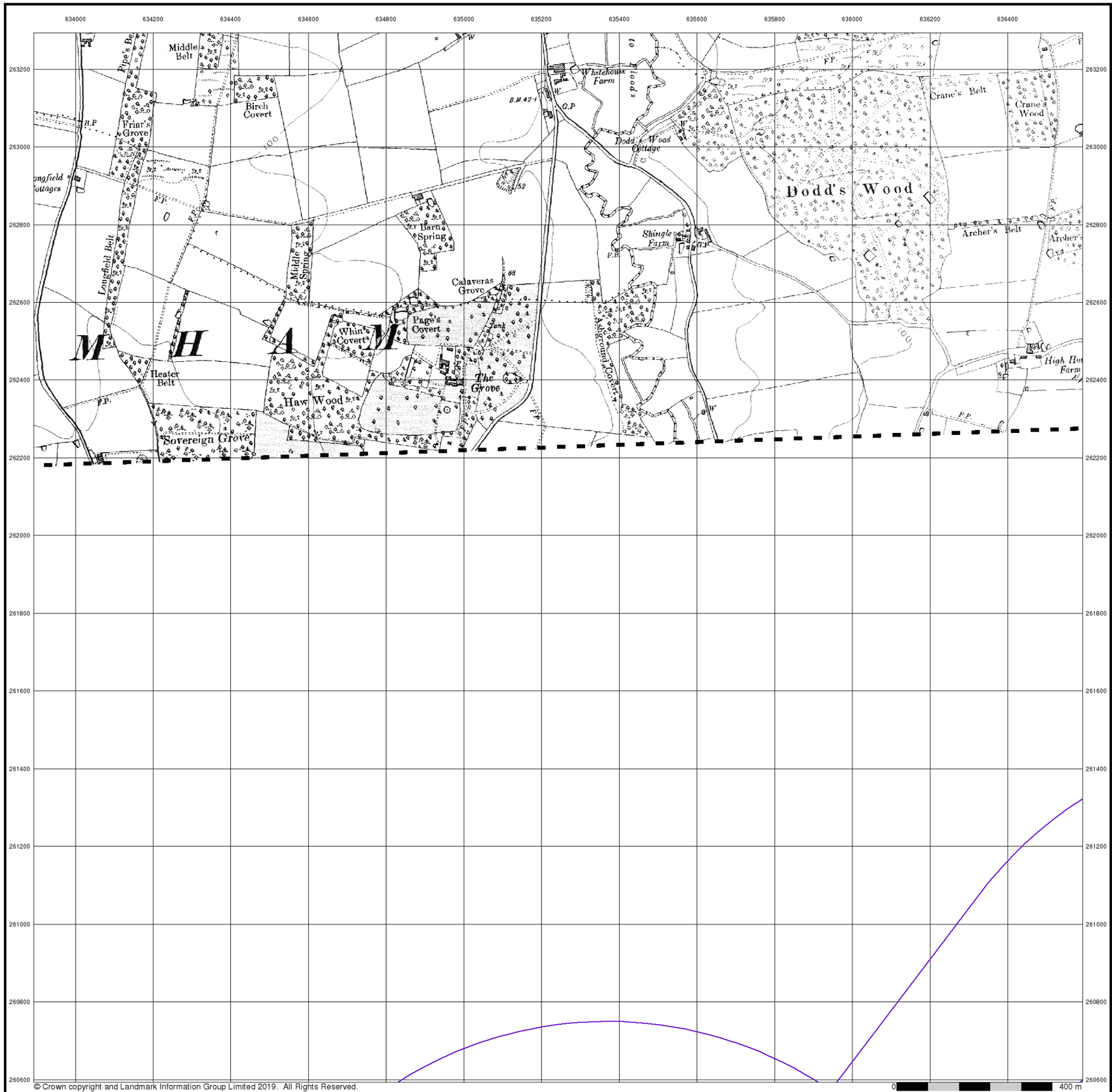

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Suffolk

Published 1928

Source map scale - 1:10,560

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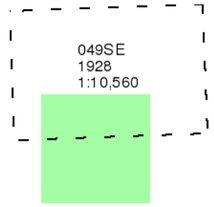
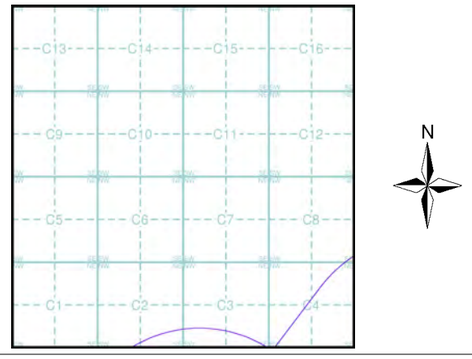
Map Name(s) and Date(s)



Historical Map - Slice C



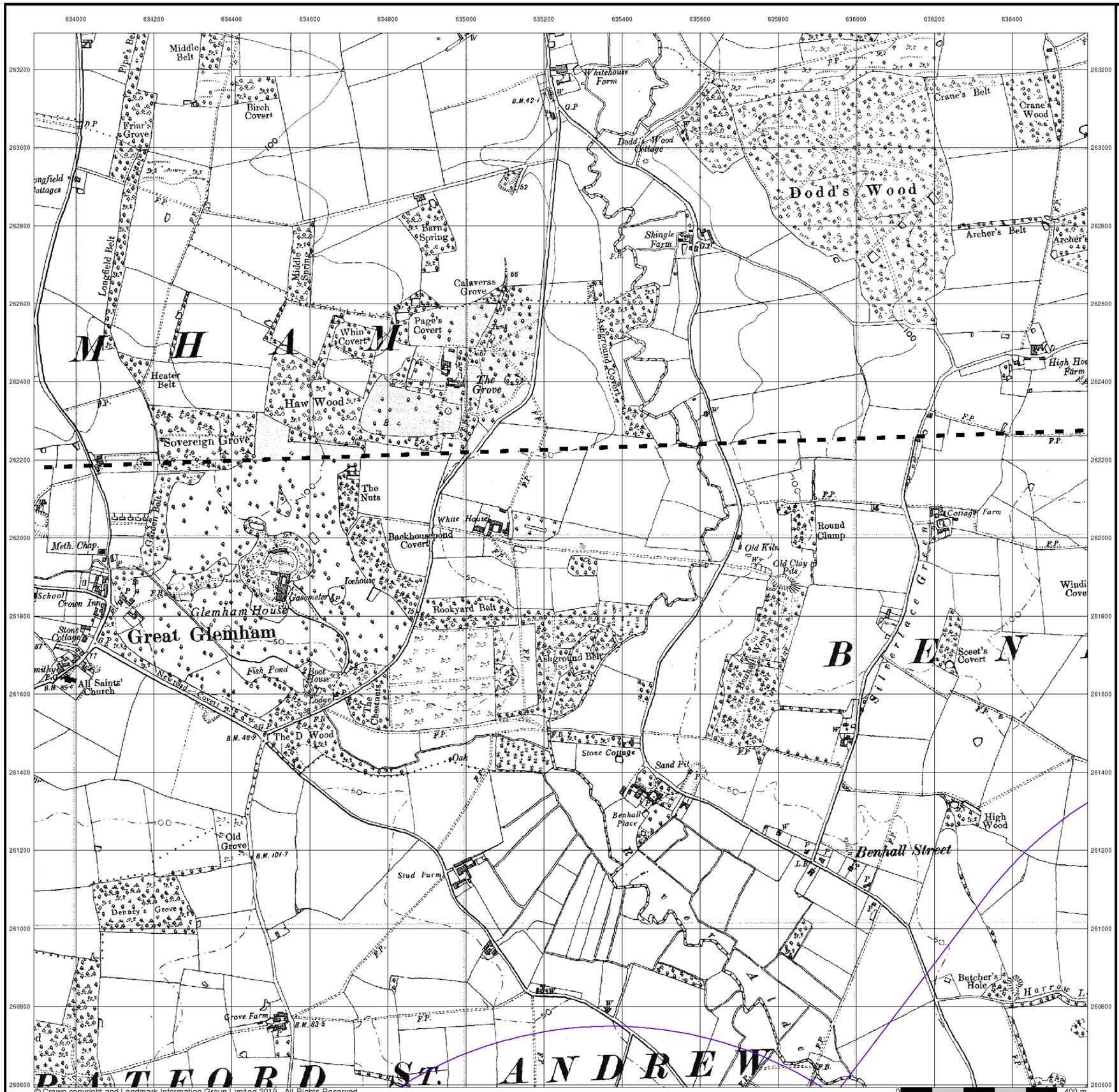
Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636060, 260790
Slice:	C
Site Area (Ha):	7.51
Search Buffer (m):	1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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



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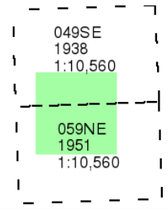
Suffolk

Published 1938 - 1951

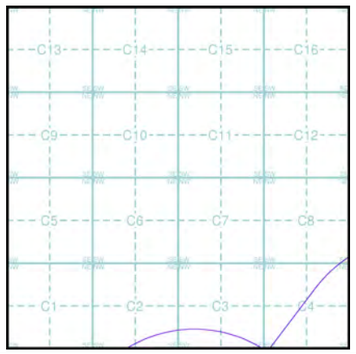
Source map scale - 1:10,560

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 C



Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636060, 260790
Slice:	C
Site Area (Ha):	7.51
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Site Details

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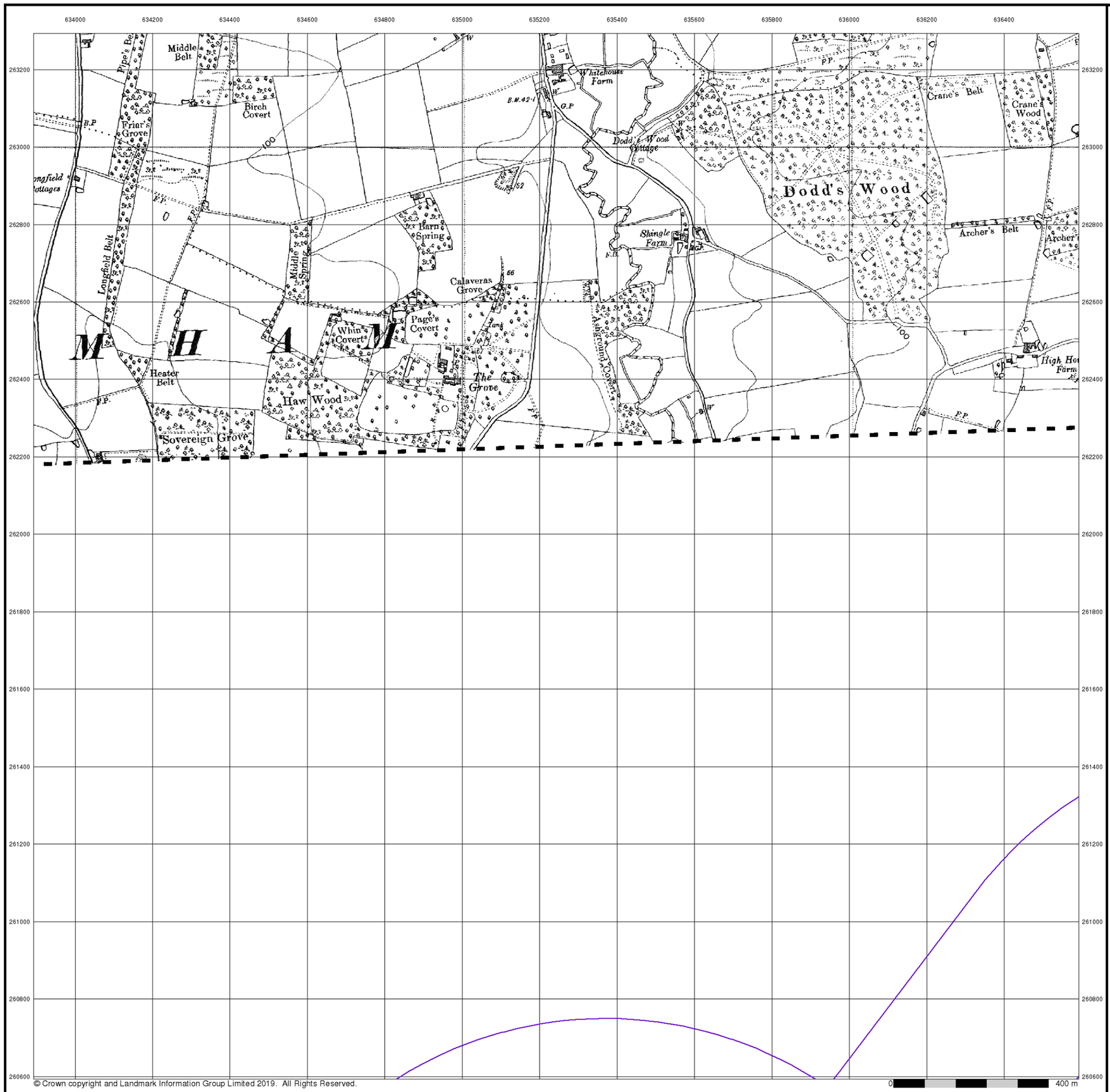

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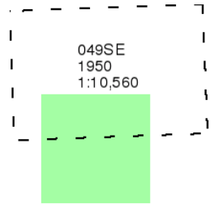
Suffolk

Published 1950

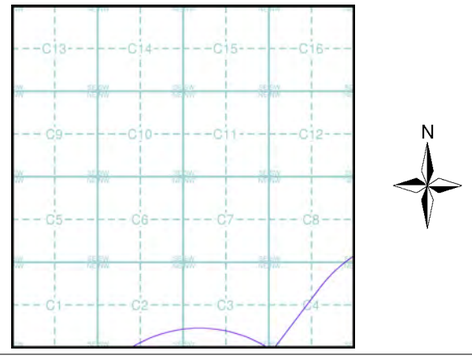
Source map scale - 1:10,560

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 C



Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636060, 260790
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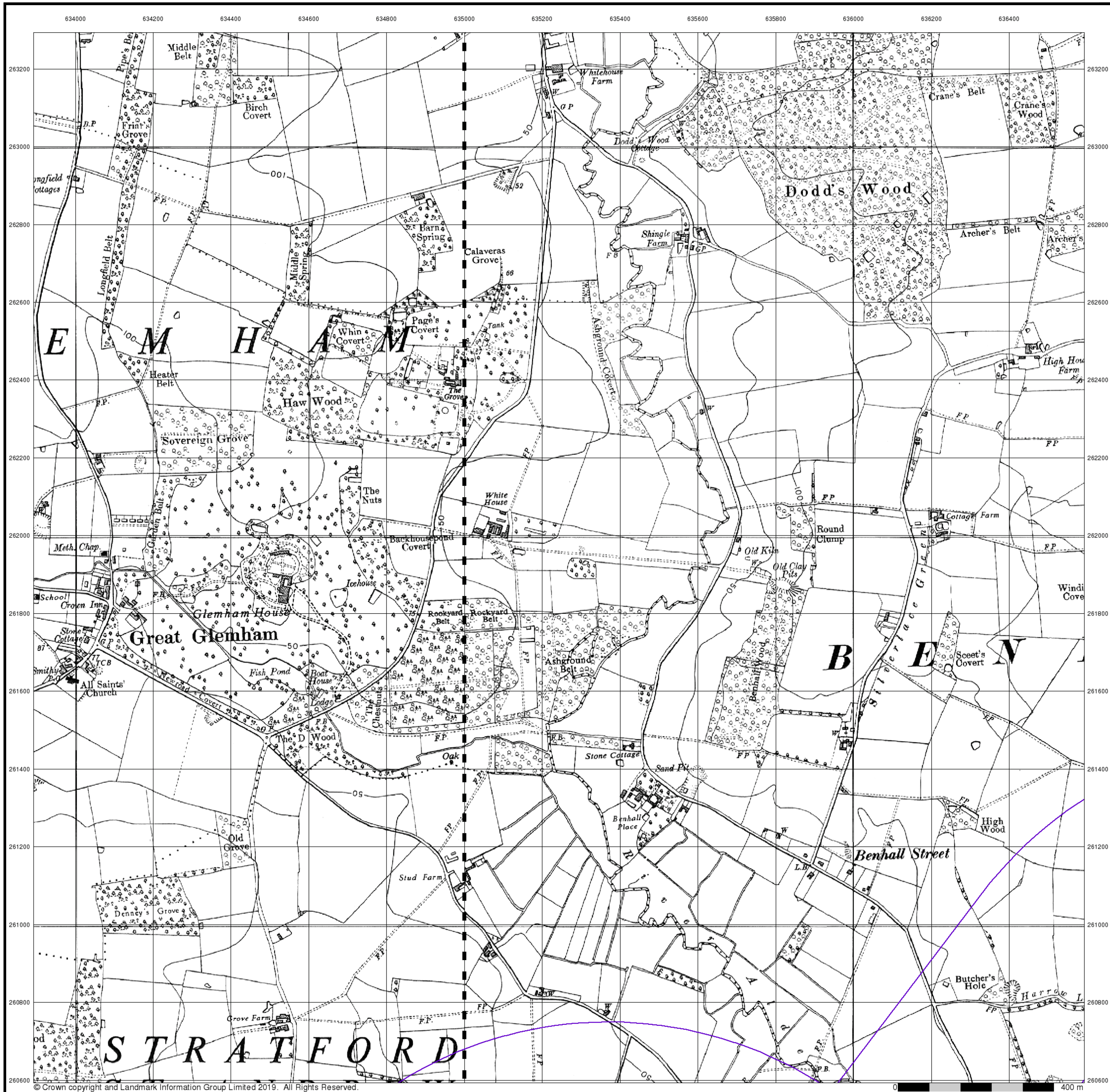

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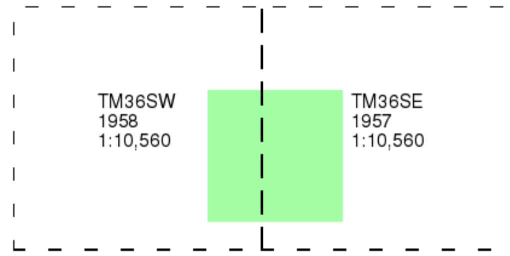
Ordnance Survey Plan

Published 1957 - 1958

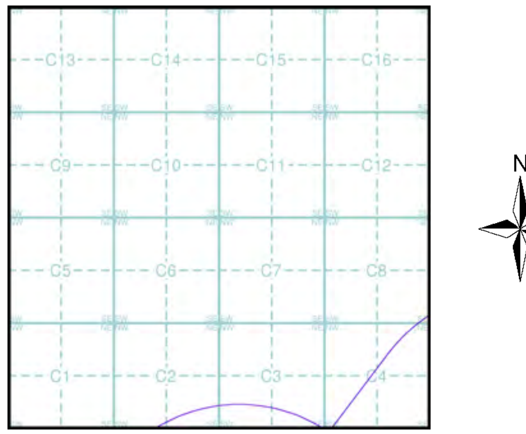
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

Order Number: 199915699_1_1
Customer Ref: 5166065
National Grid Reference: 636060, 260790
Slice: C
Site Area (Ha): 7.51
Search Buffer (m): 1000

Site Details

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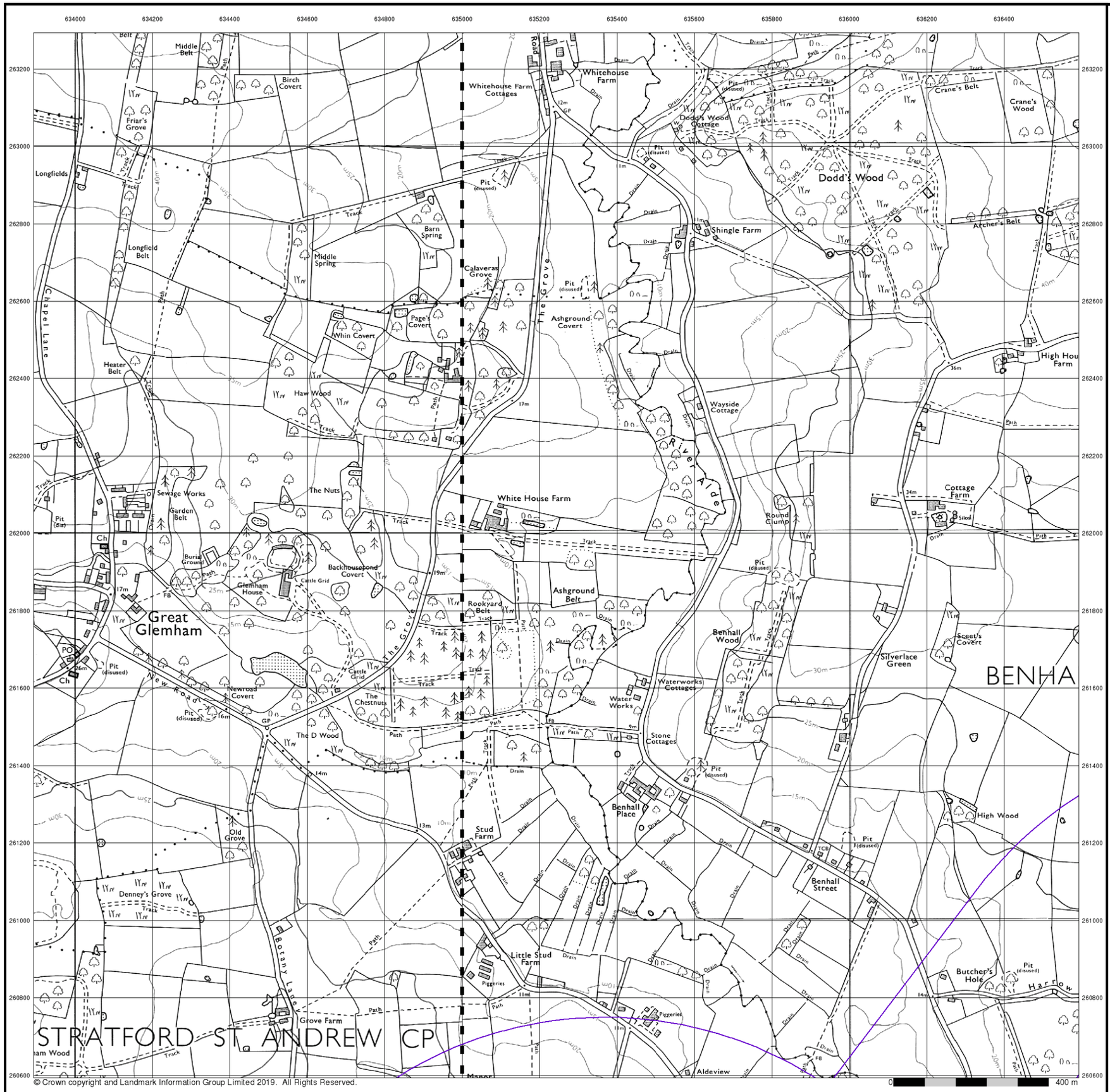

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Ordnance Survey Plan

Published 1975 - 1978

Source map scale - 1:10,000

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

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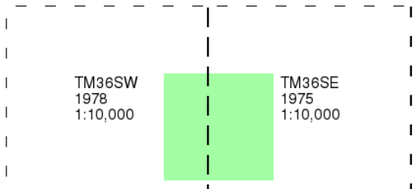
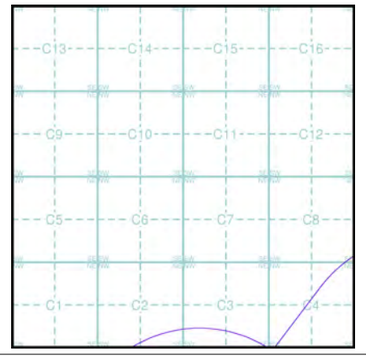


Historical Map - Slice C



Order Details

Order Number:	199915699_1_1
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National Grid Reference:	636060, 260790
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Site Details

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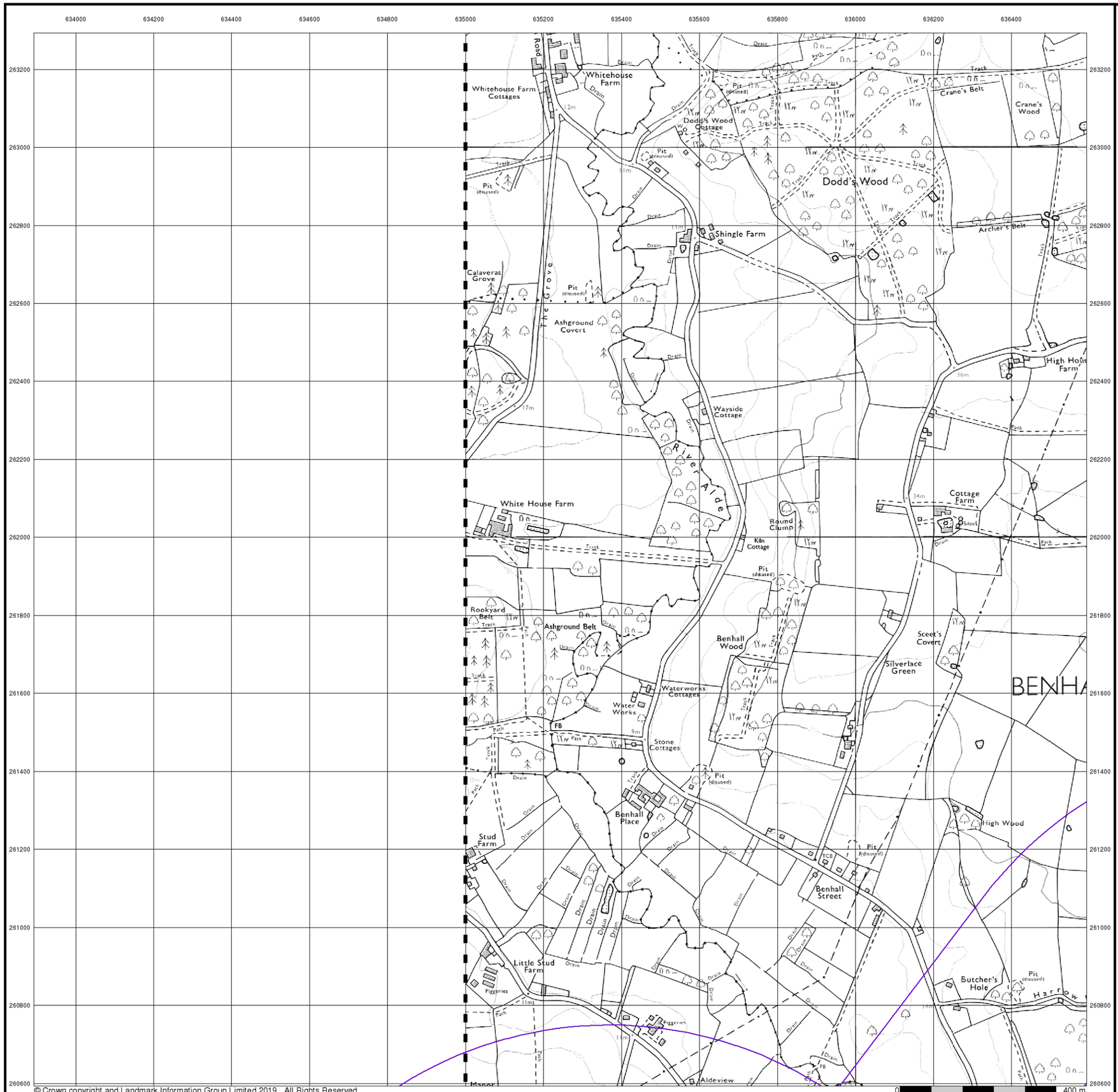

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Ordnance Survey Plan

Published 1990

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.

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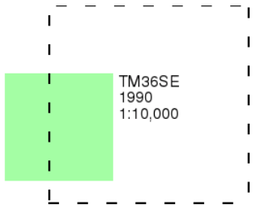
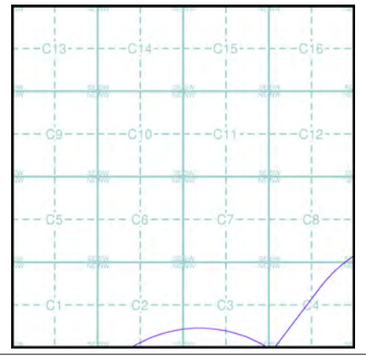


Historical Map - Slice C



Order Details

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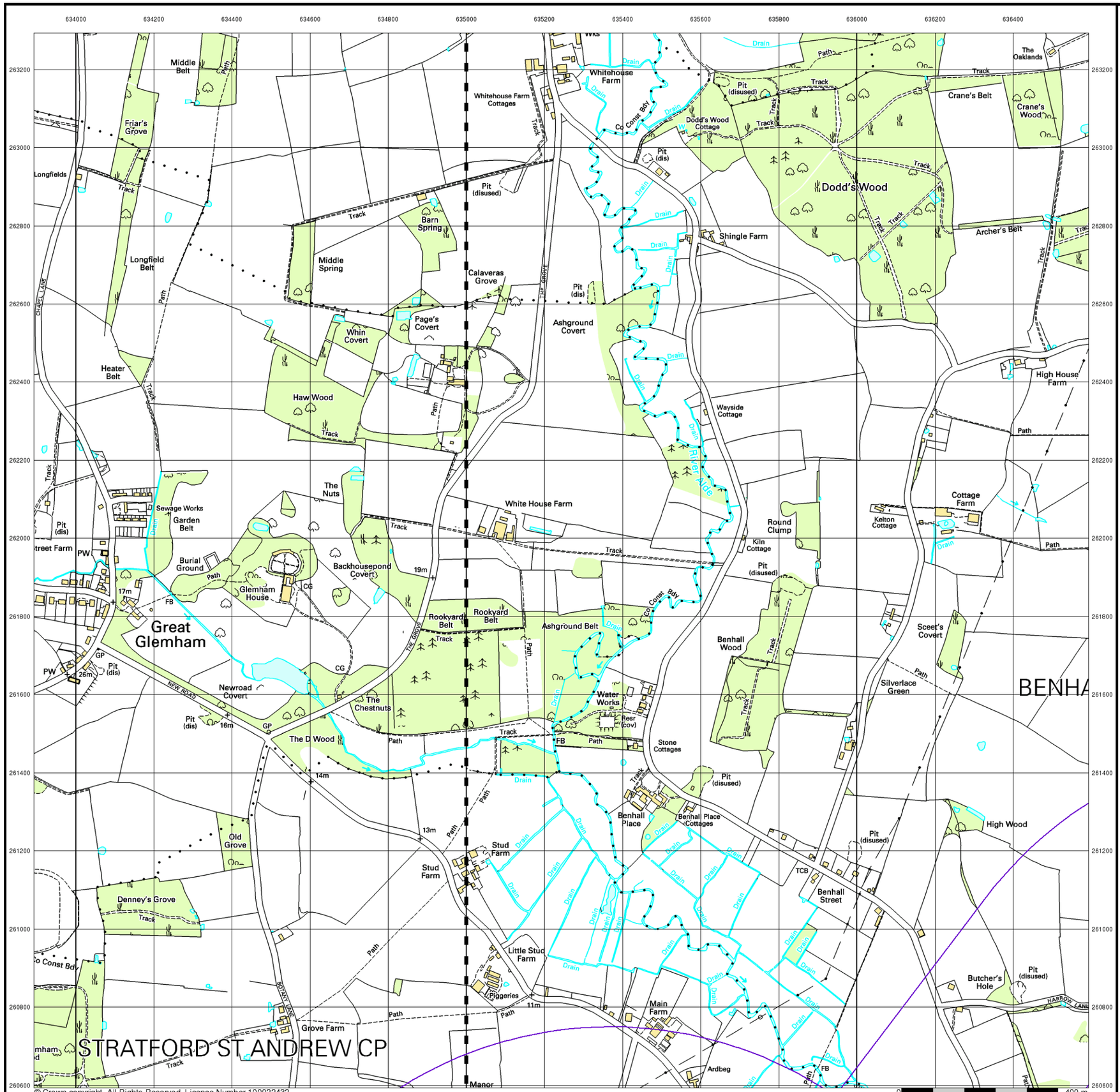

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LANDMARK INFORMATION GROUP®

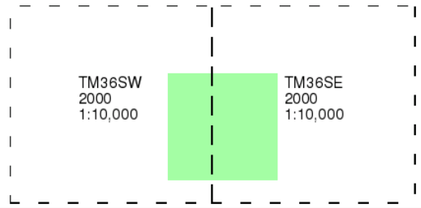
10k Raster Mapping

Published 2000

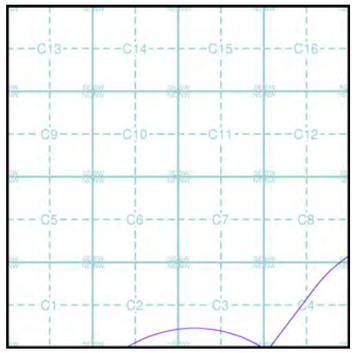
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636060, 260790
Slice:	C
Site Area (Ha):	7.51
Search Buffer (m):	1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

Landmark INFORMATION GROUP

Tel: 0844 844 9952
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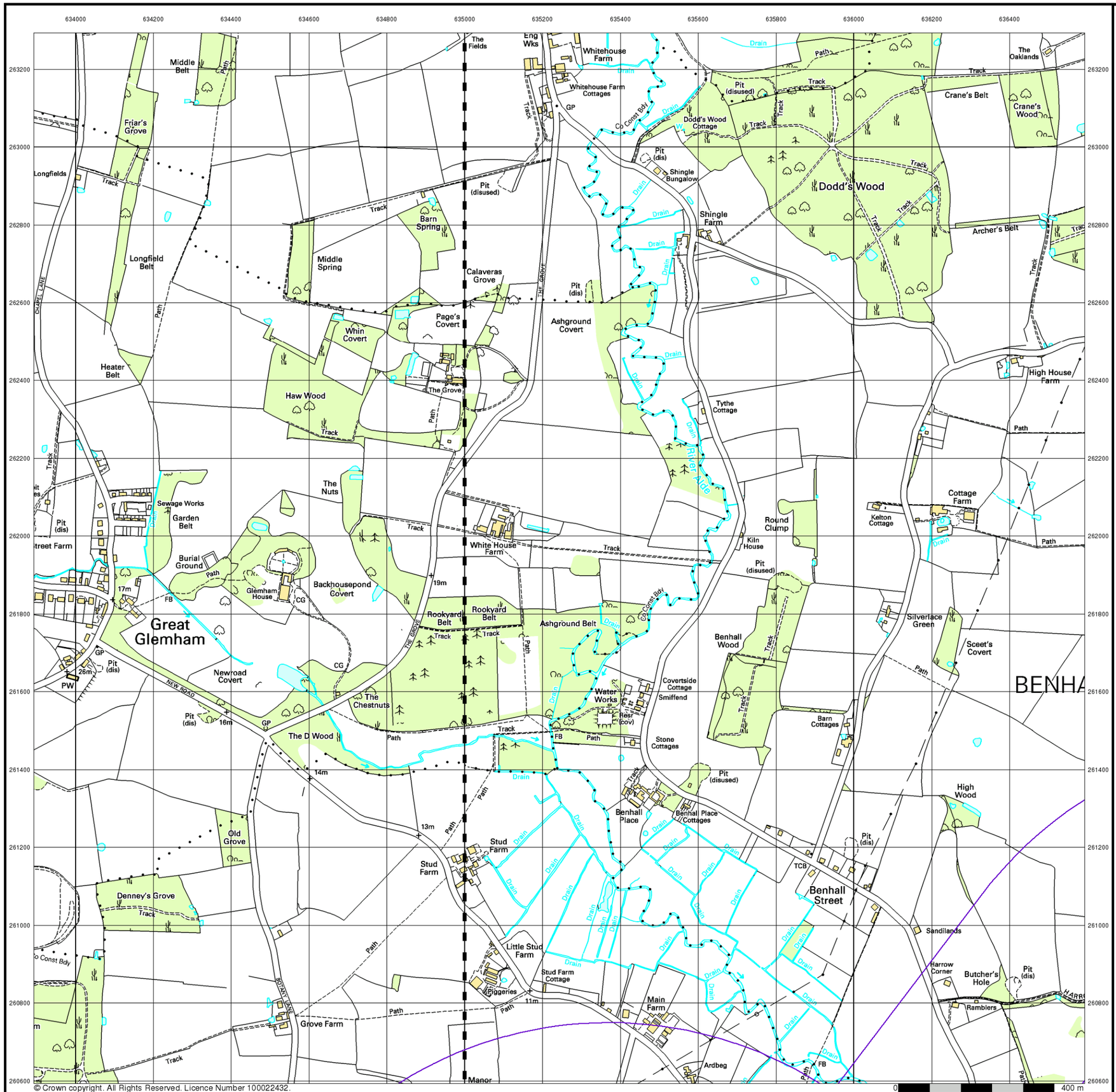

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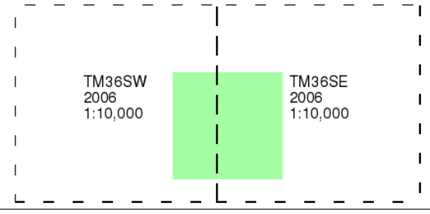
10k Raster Mapping

Published 2006

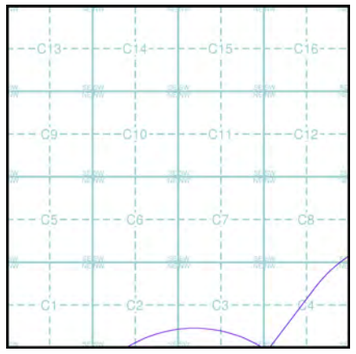
Source map scale - 1:10,000

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)



Historical Map - Slice C



Order Details

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Site Details

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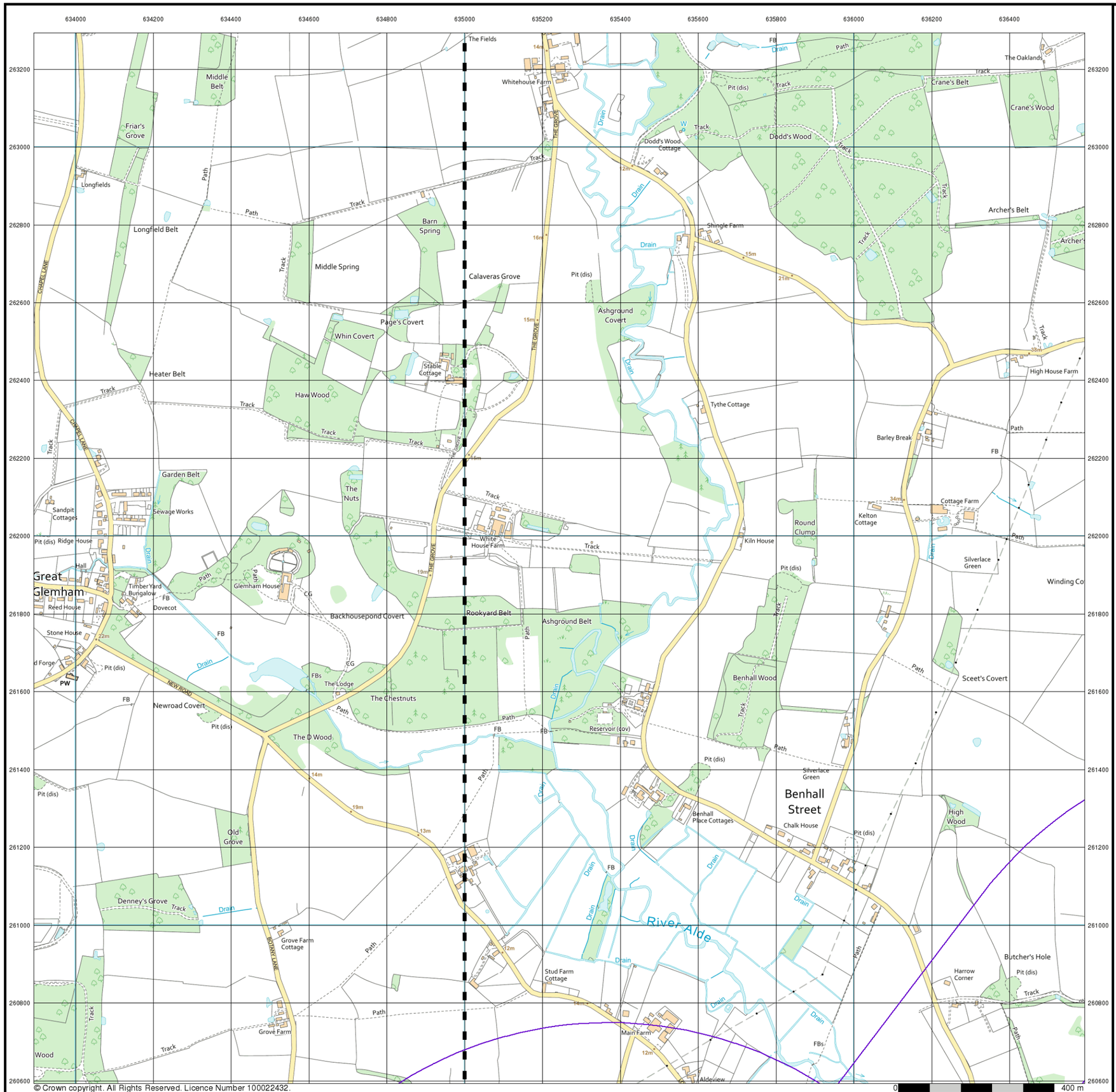

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LANDMARK INFORMATION GROUP

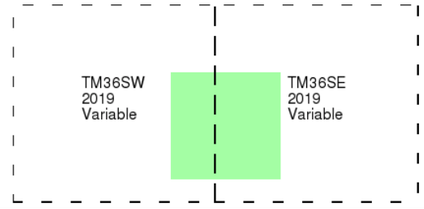
VectorMap Local

Published 2019

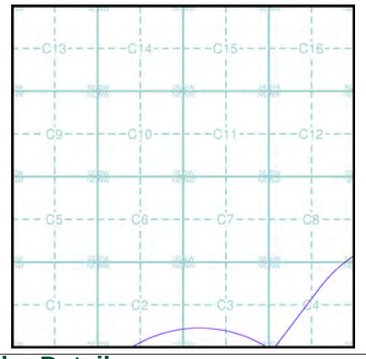
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

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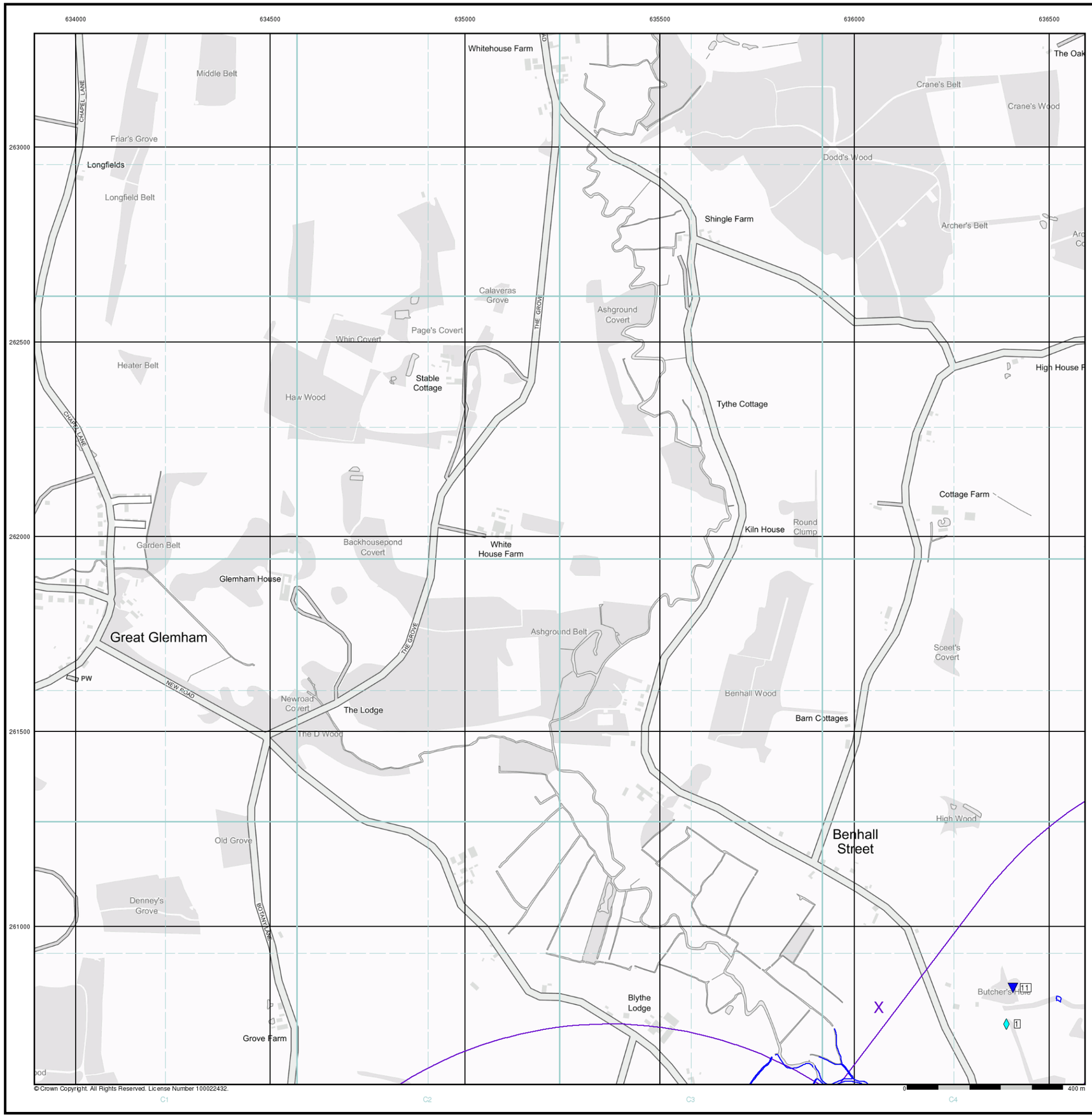

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LANDMARK INFORMATION GROUP®

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

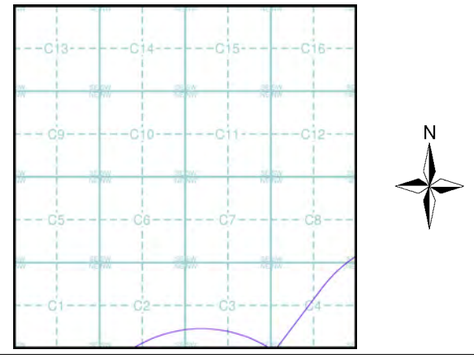
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice C



Order Details

Order Number:	199915699_1_1
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Site Details

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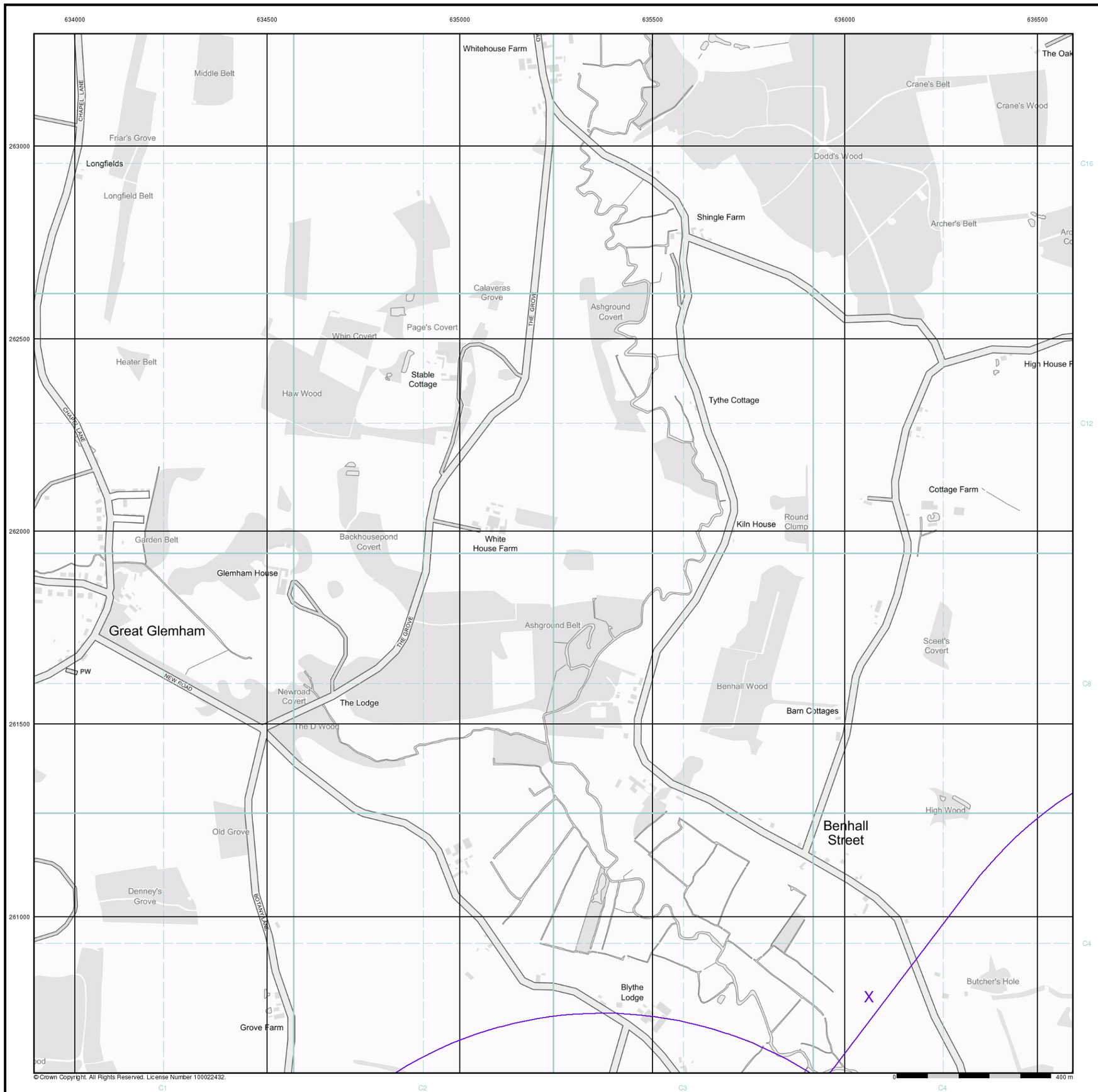

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Industrial Land Use Map

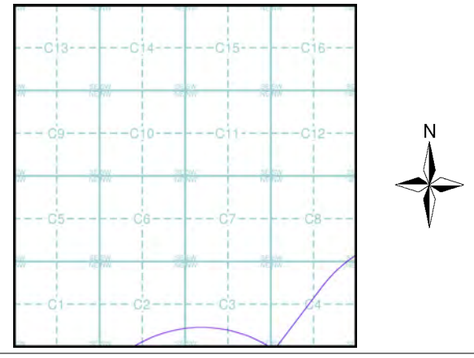
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice C



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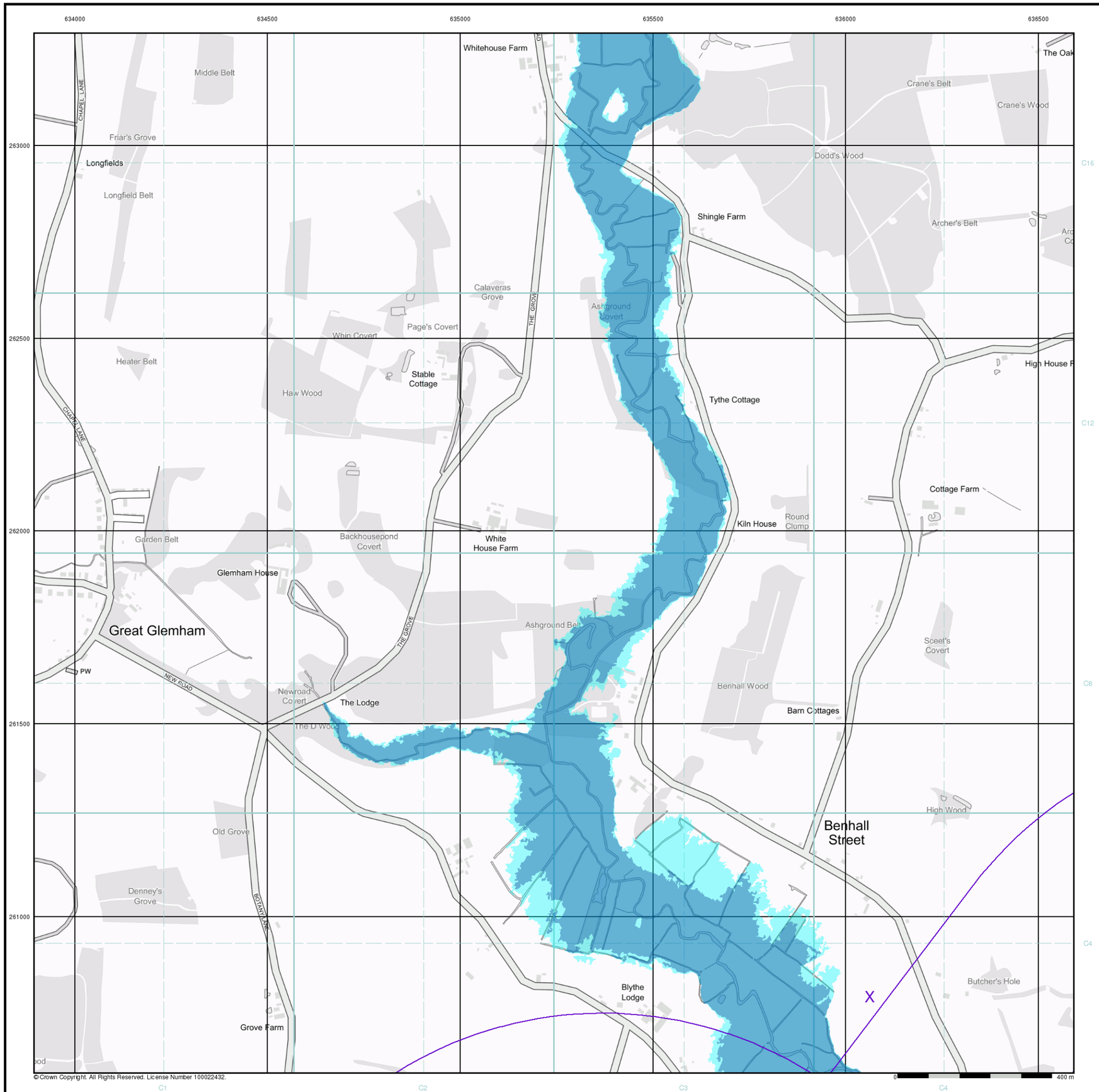


Envirocheck®
LANDMARK INFORMATION GROUP®

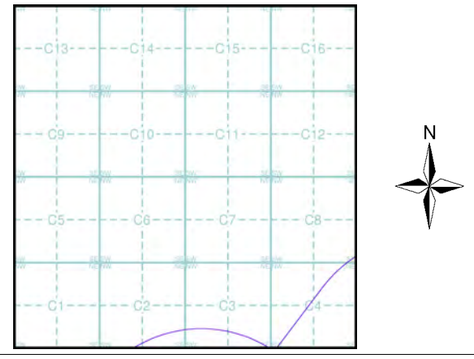
General

- 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 C



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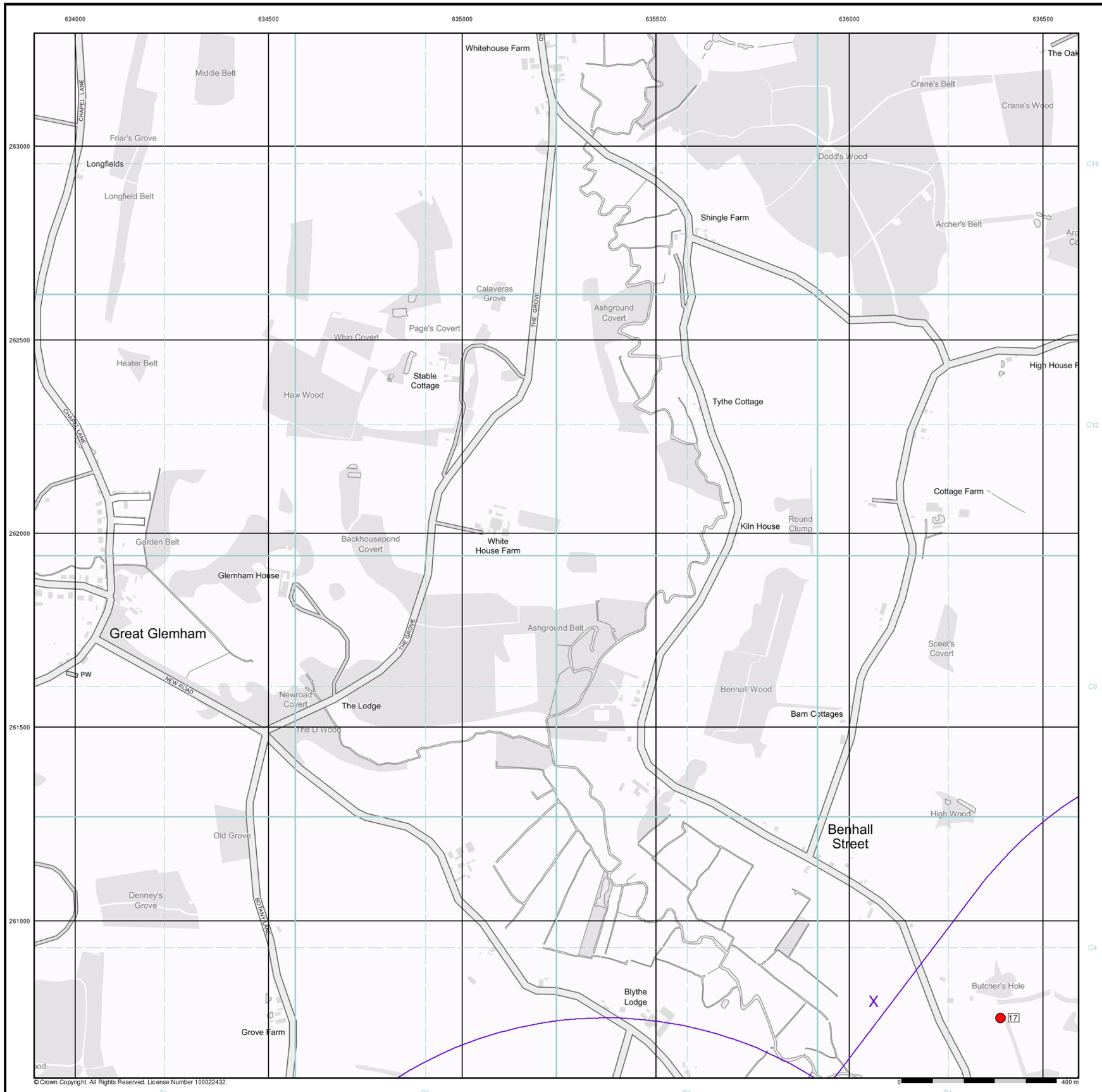

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General

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

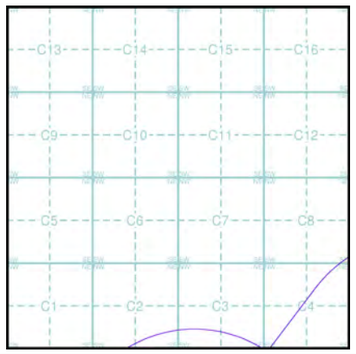
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice C



Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636060, 260790
Slice:	C
Site Area (Ha):	7.51
Search Buffer (m):	1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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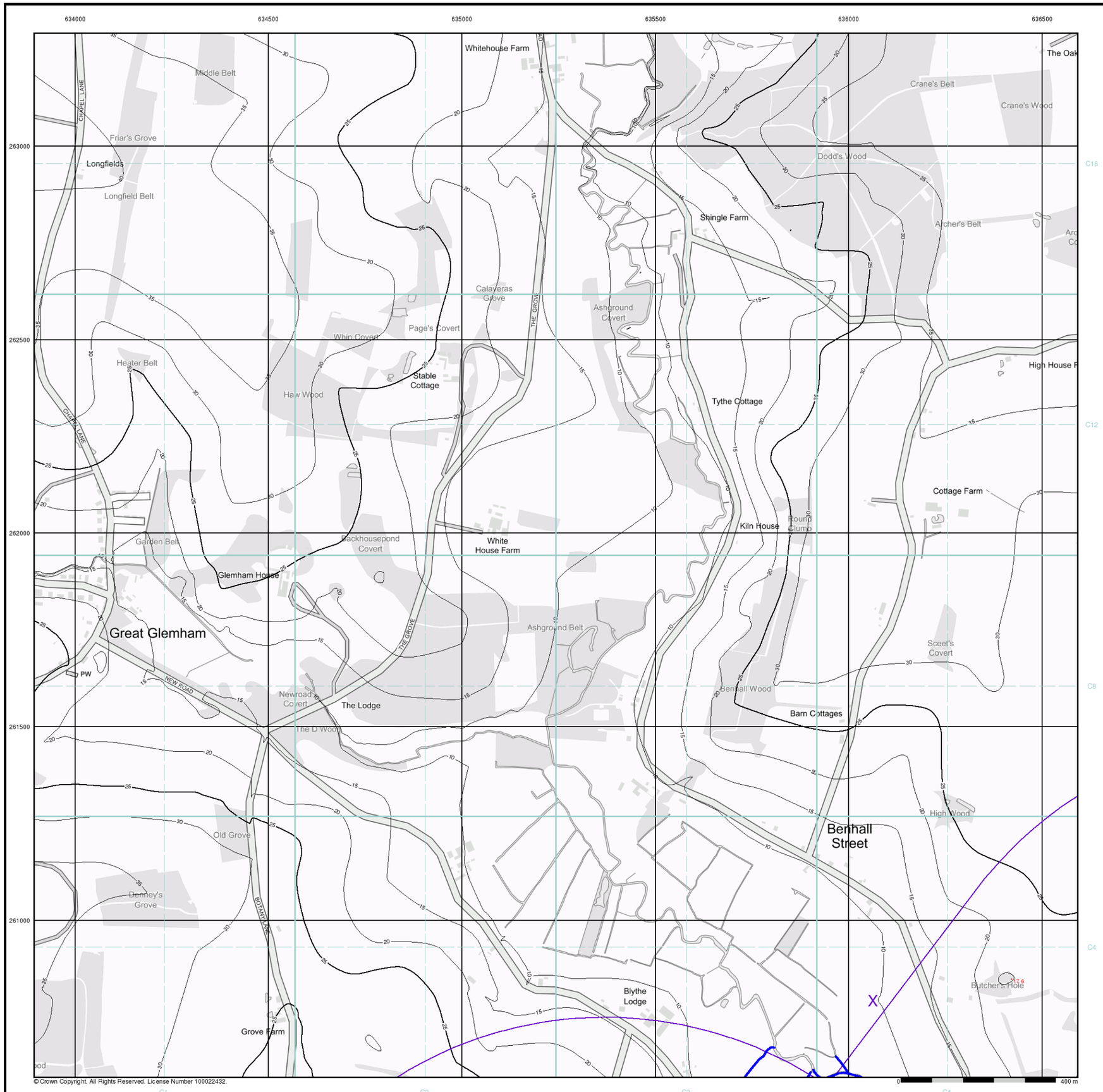

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General

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

OS Water Network Data

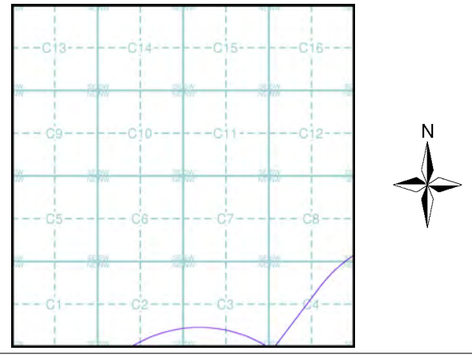
- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

Standard Contour 105 100 95
Master Contour
Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice C



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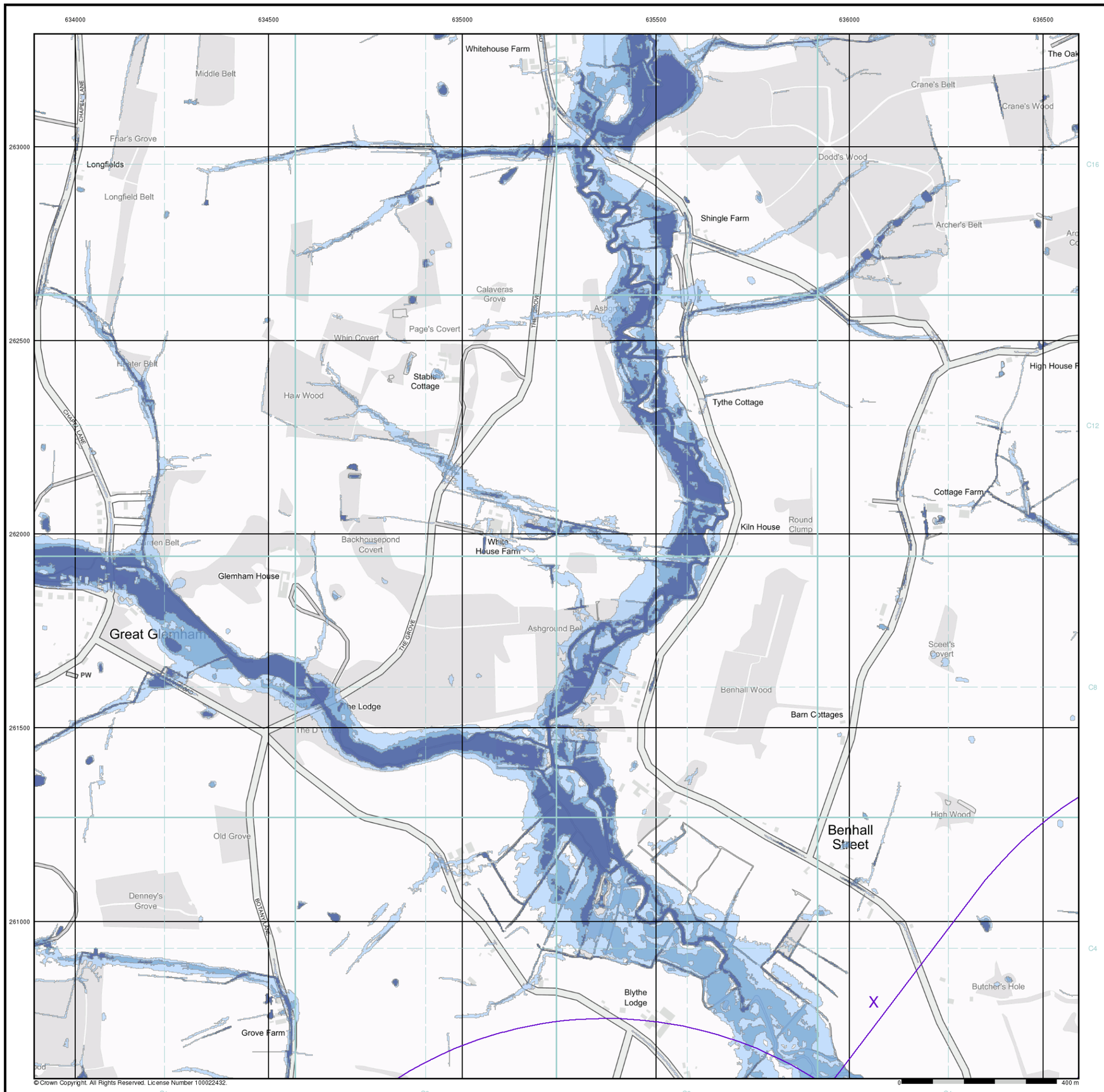

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General

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

Risk of Flooding from Surface Water

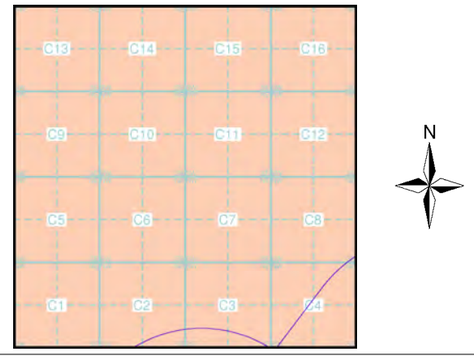
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice C



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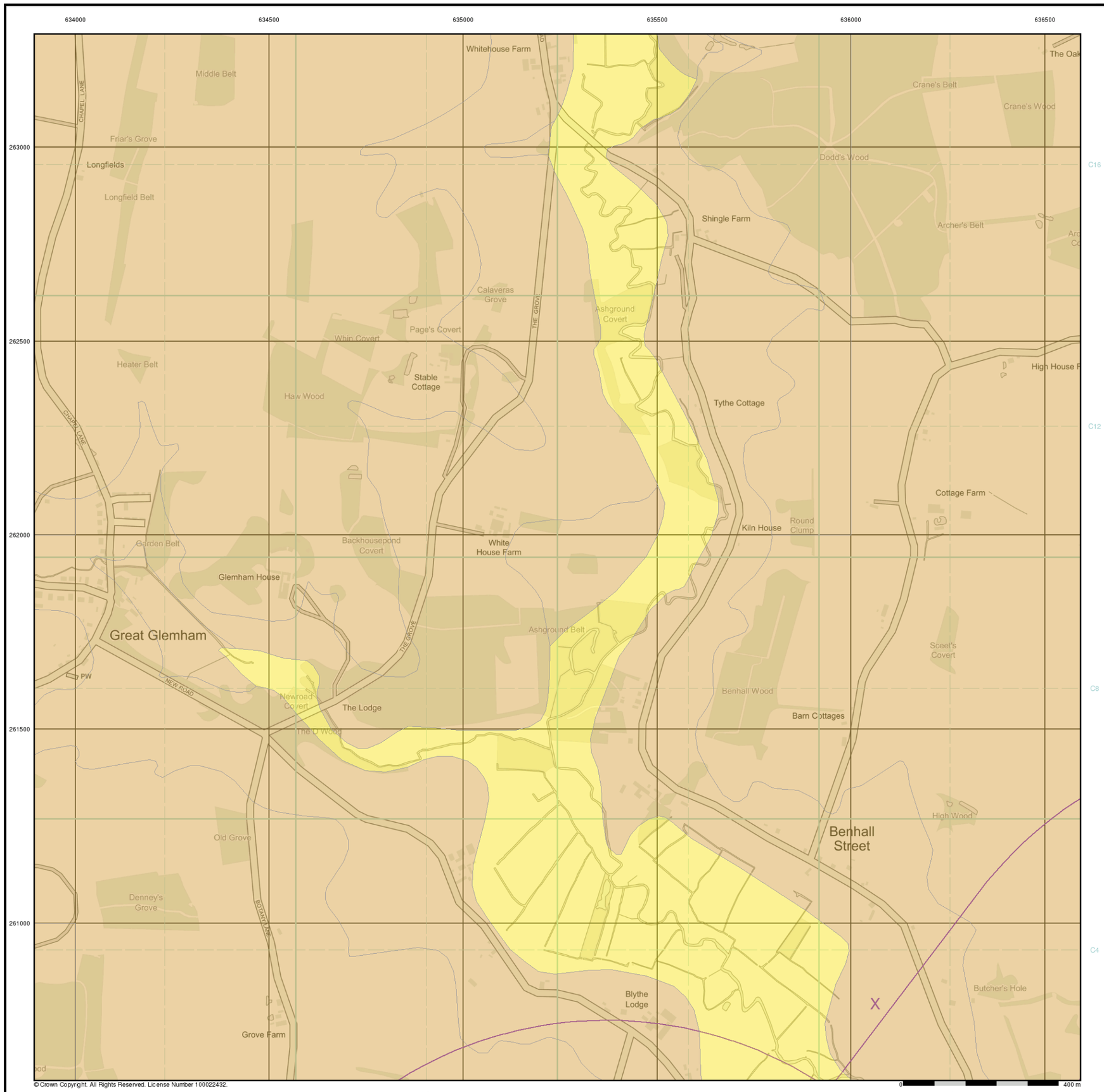

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General

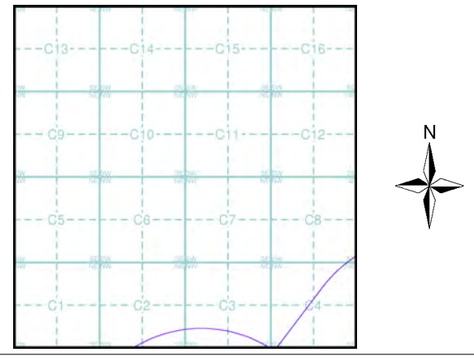
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 C



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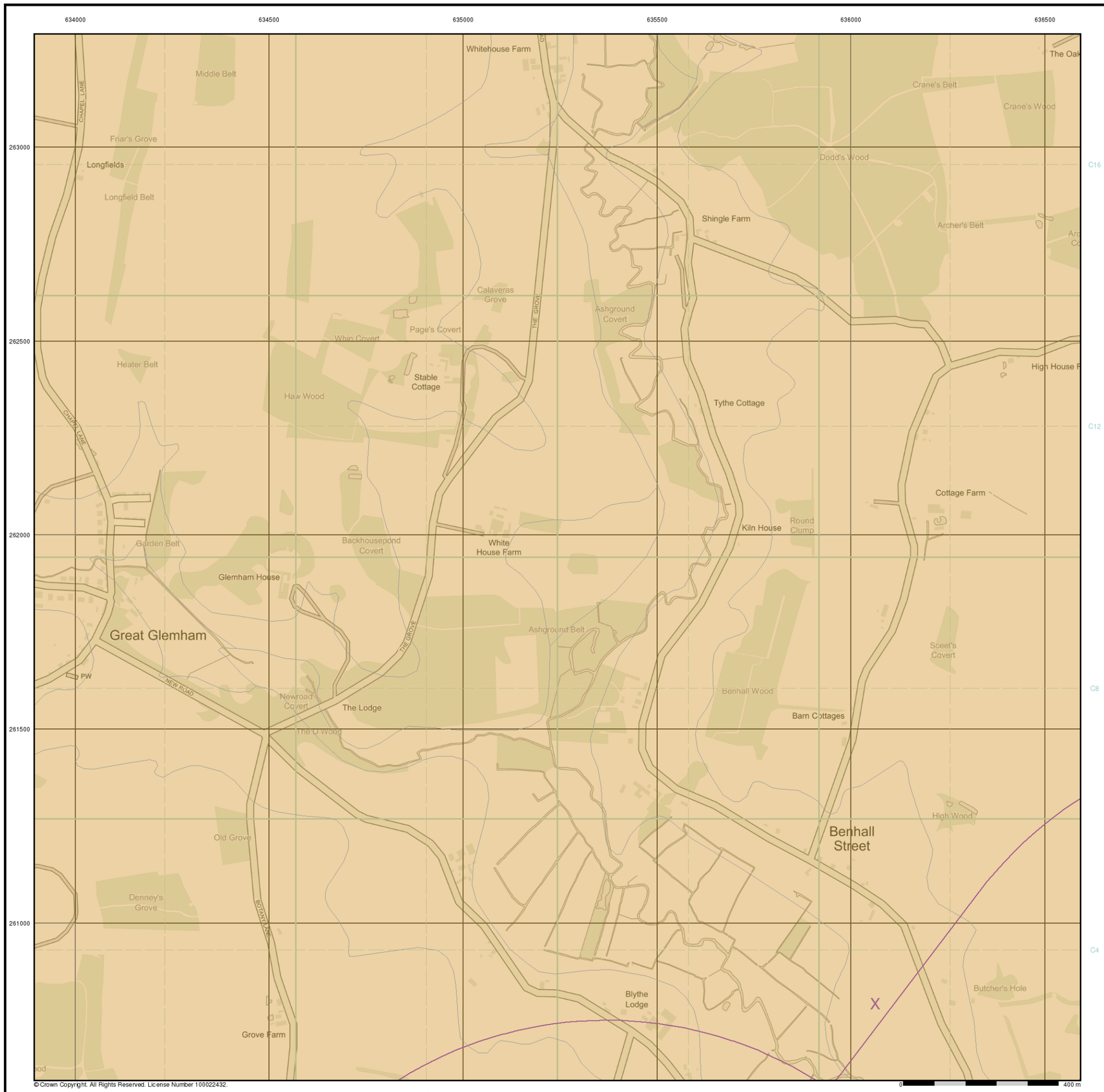

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General

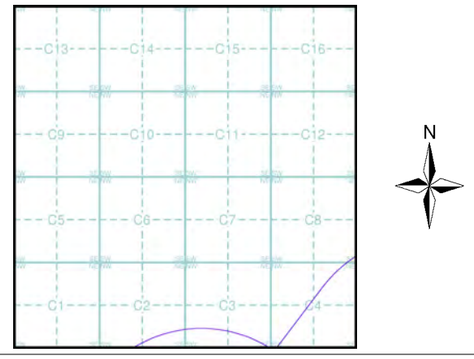
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice C



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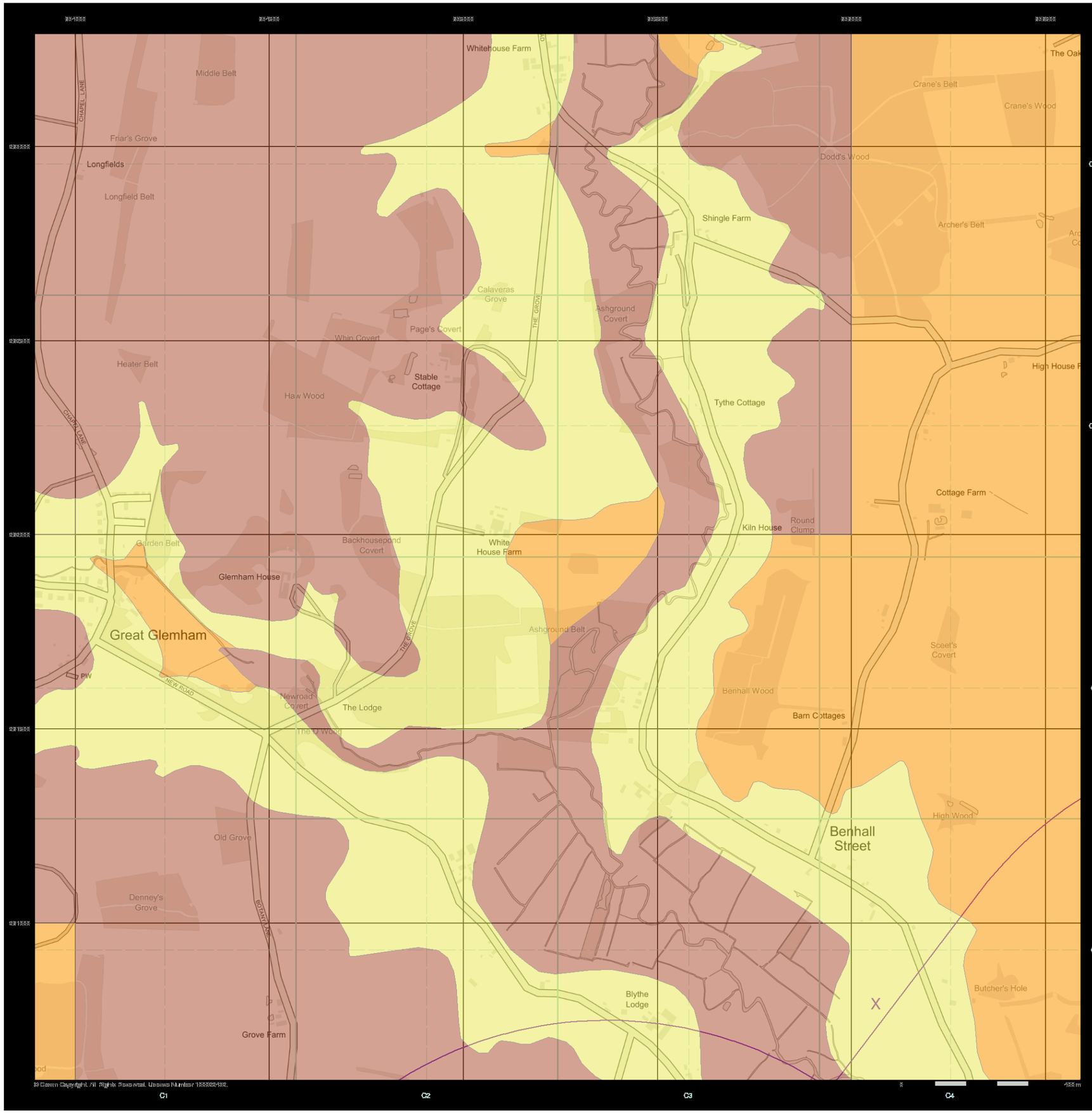

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General

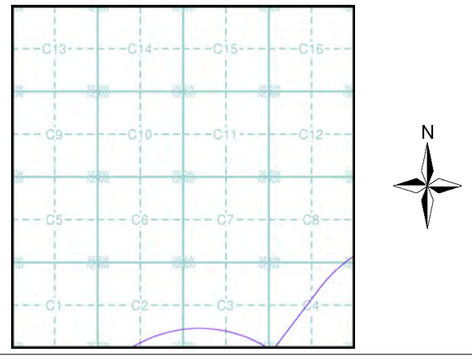
Specified Site Specified Buffer(s) X Bearing Reference Point

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 C



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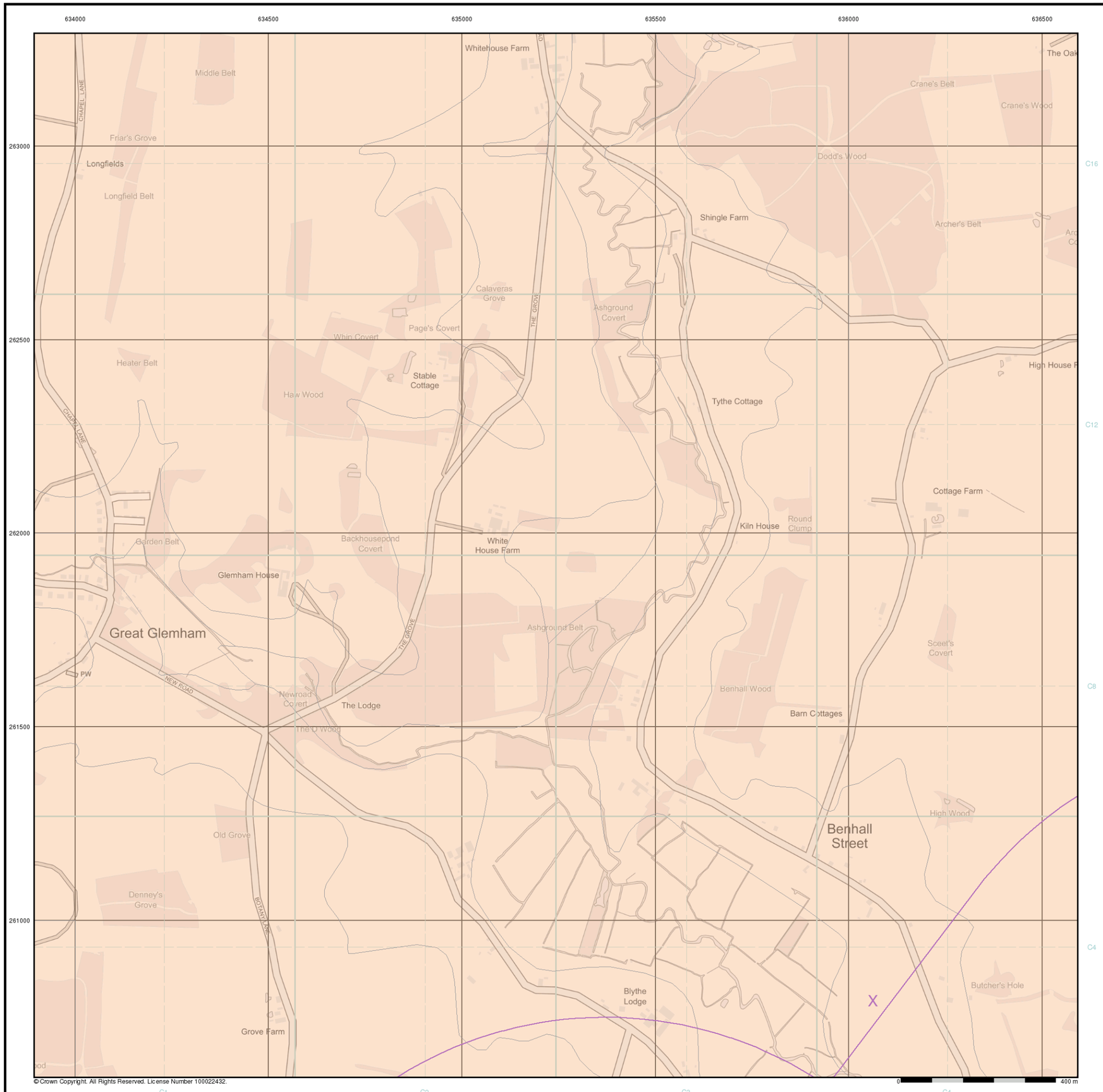

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General

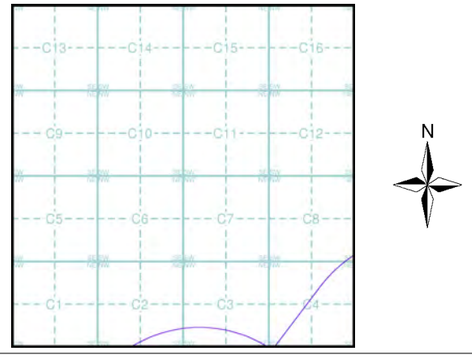
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice C



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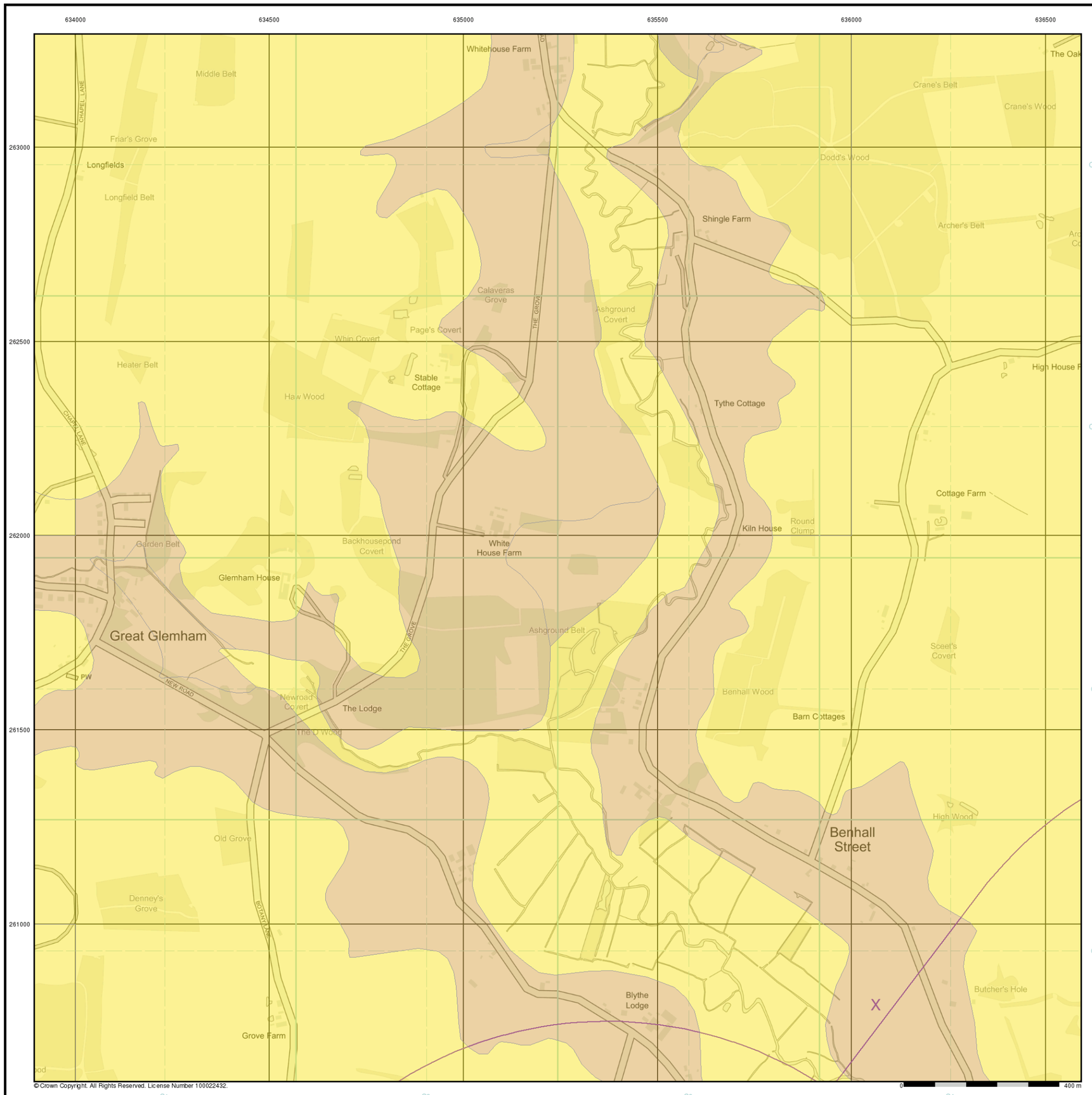


Envirocheck®

LANDMARK INFORMATION GROUP®

General

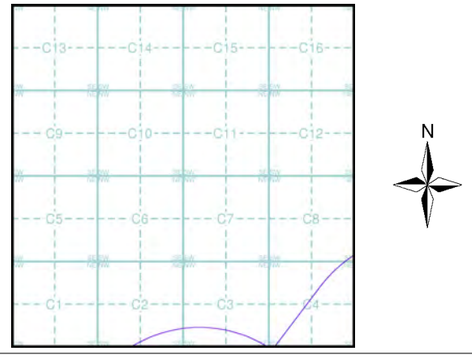
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 C



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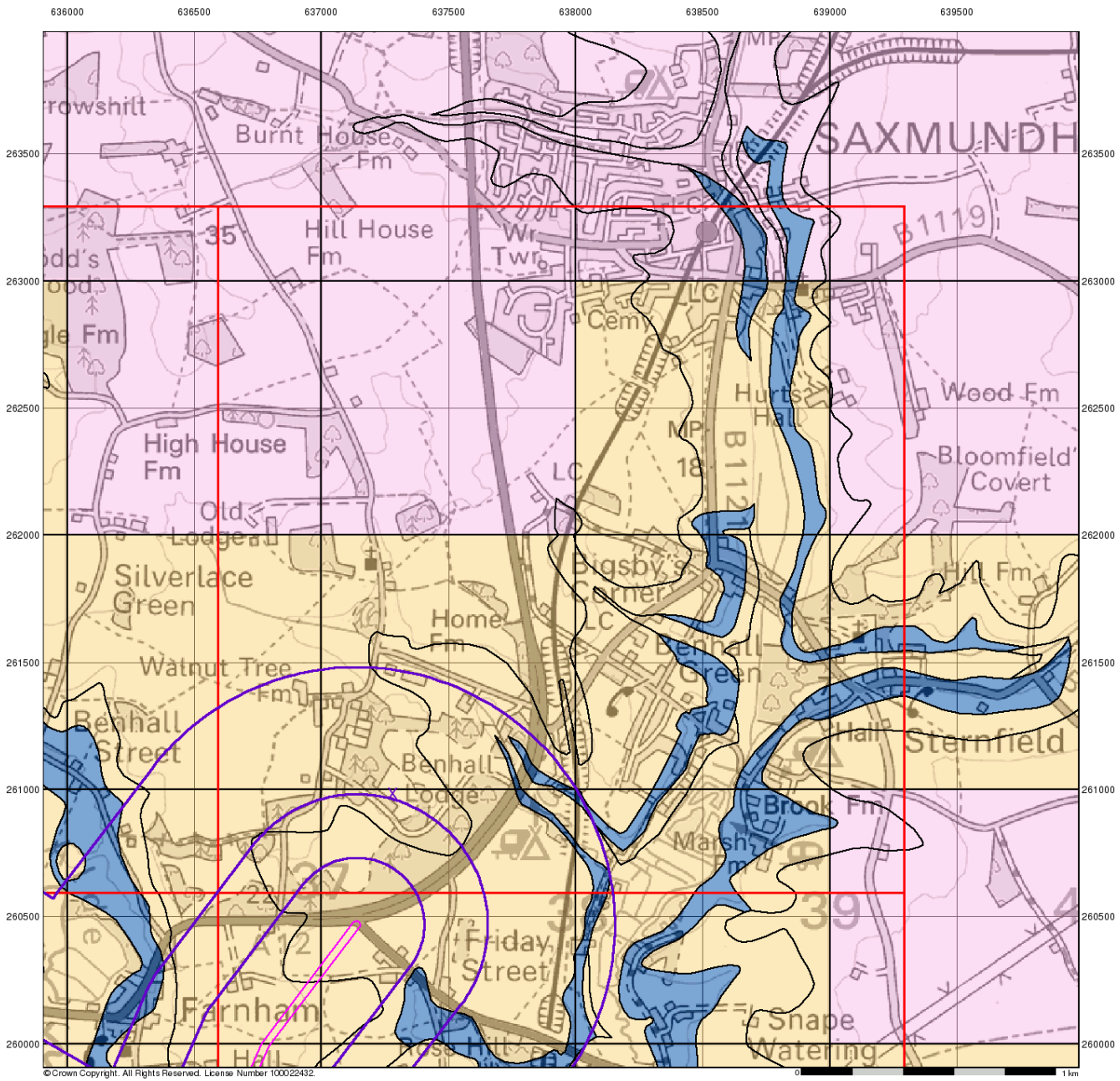

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Groundwater Vulnerability

General

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

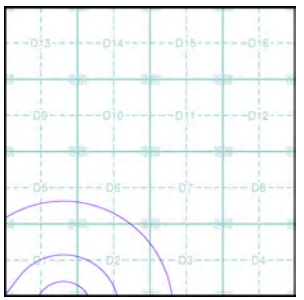
Agency and Hydrological

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

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice D



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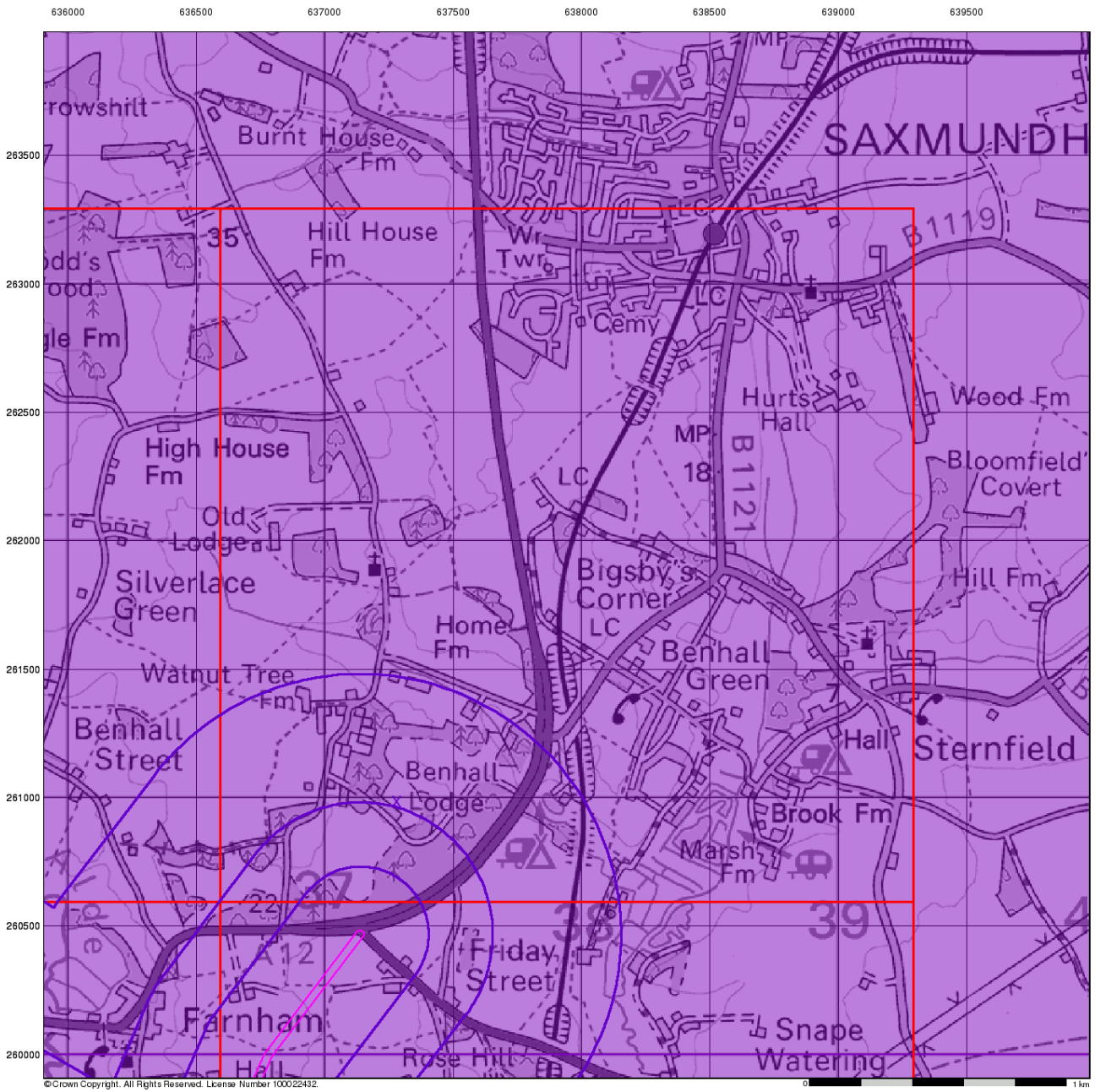

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Bedrock Aquifer Designation

General

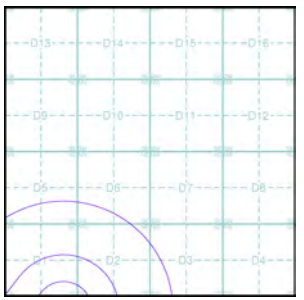
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice D



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Slice:	D
Site Area (Ha):	7.51
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Site Details

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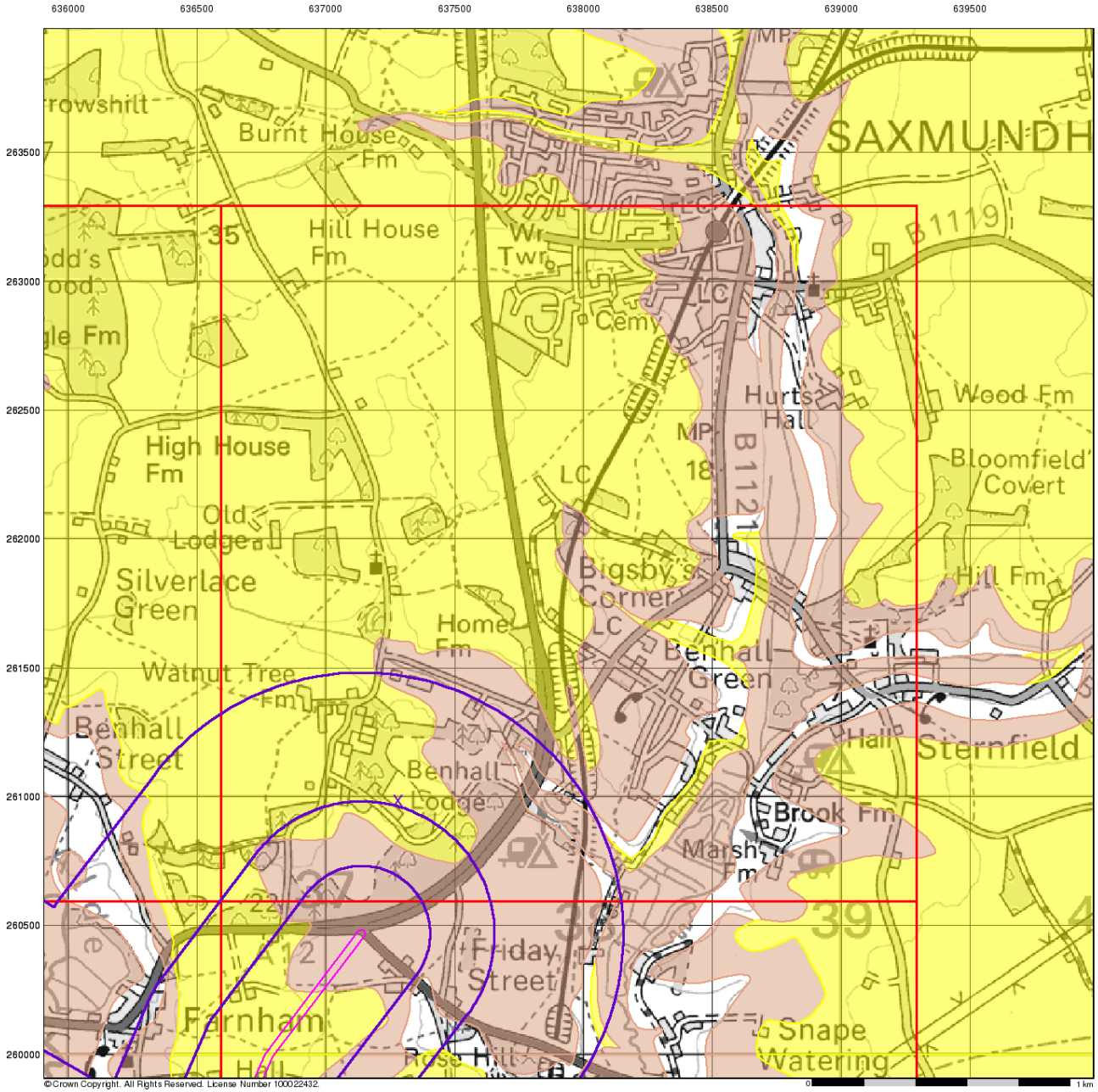

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Superficial Aquifer Designation

General

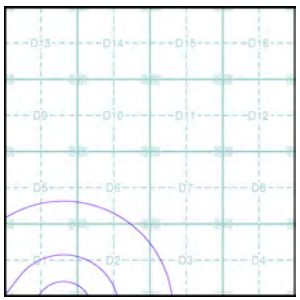
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice D



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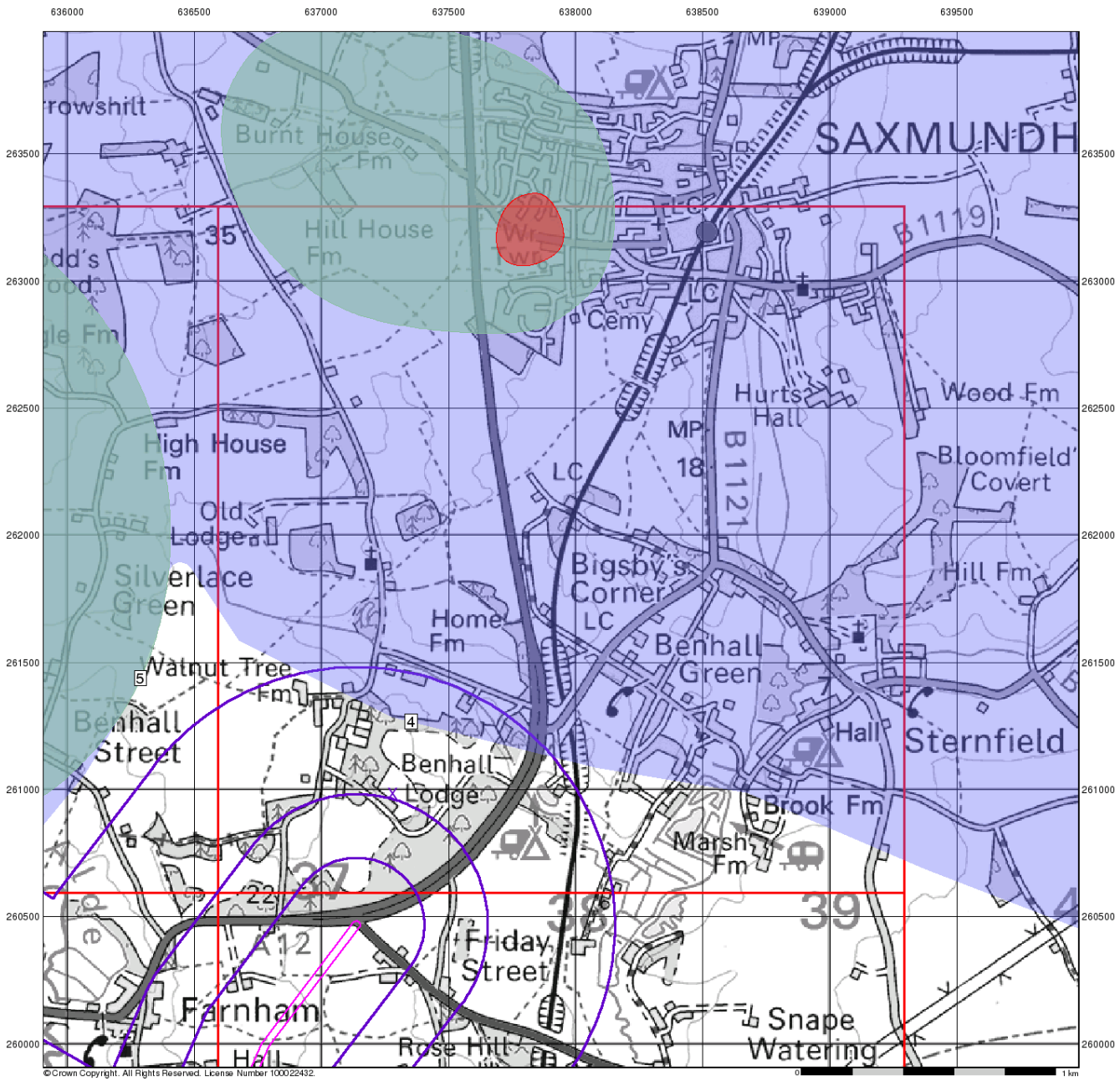

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Source Protection Zones

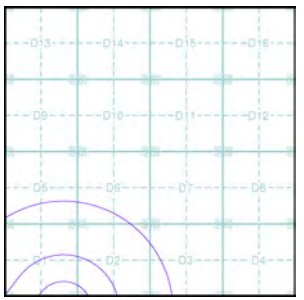
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice D



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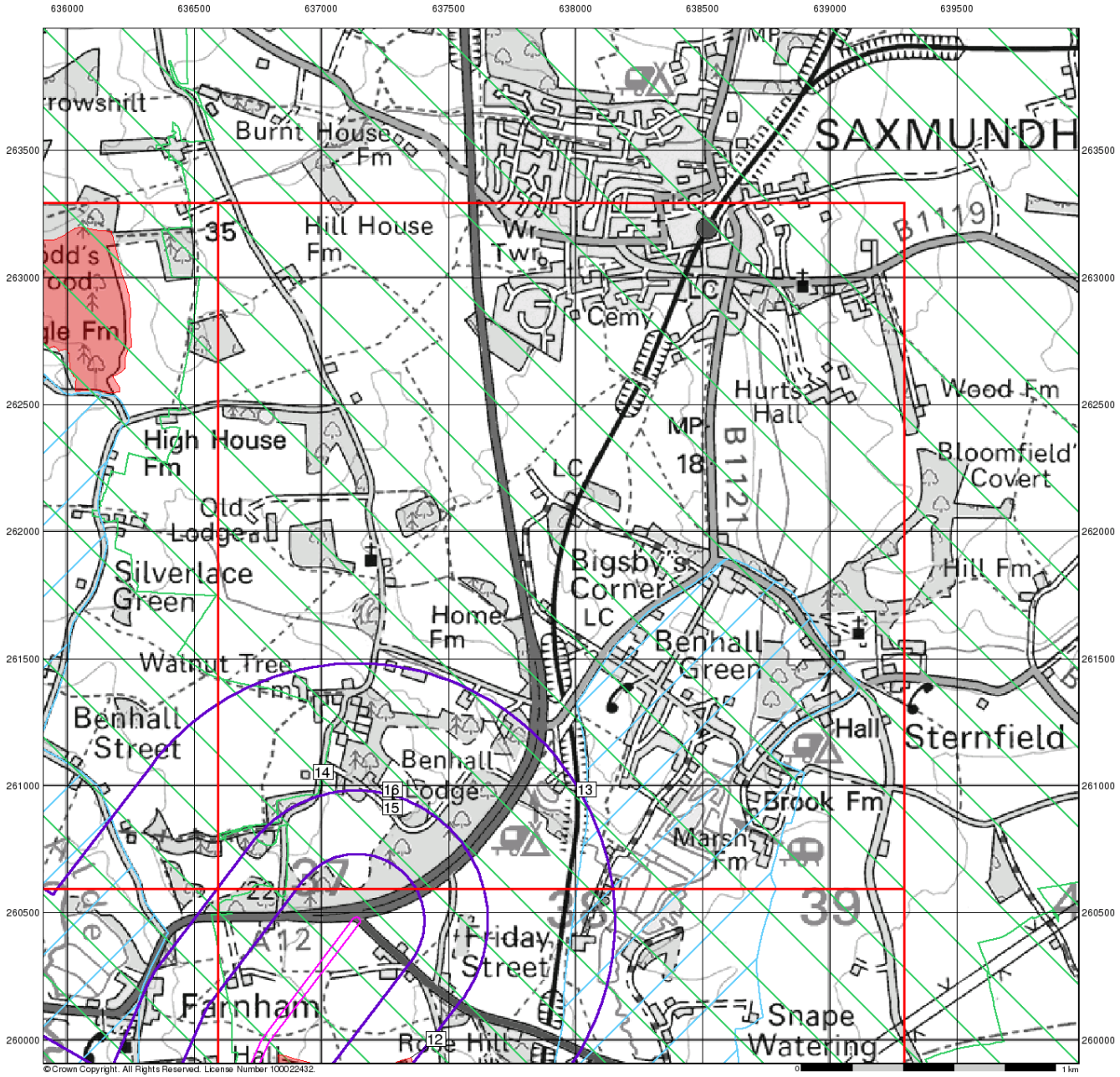

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Sensitive Land Uses

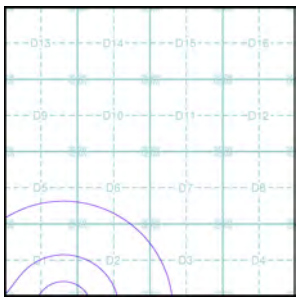
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice D



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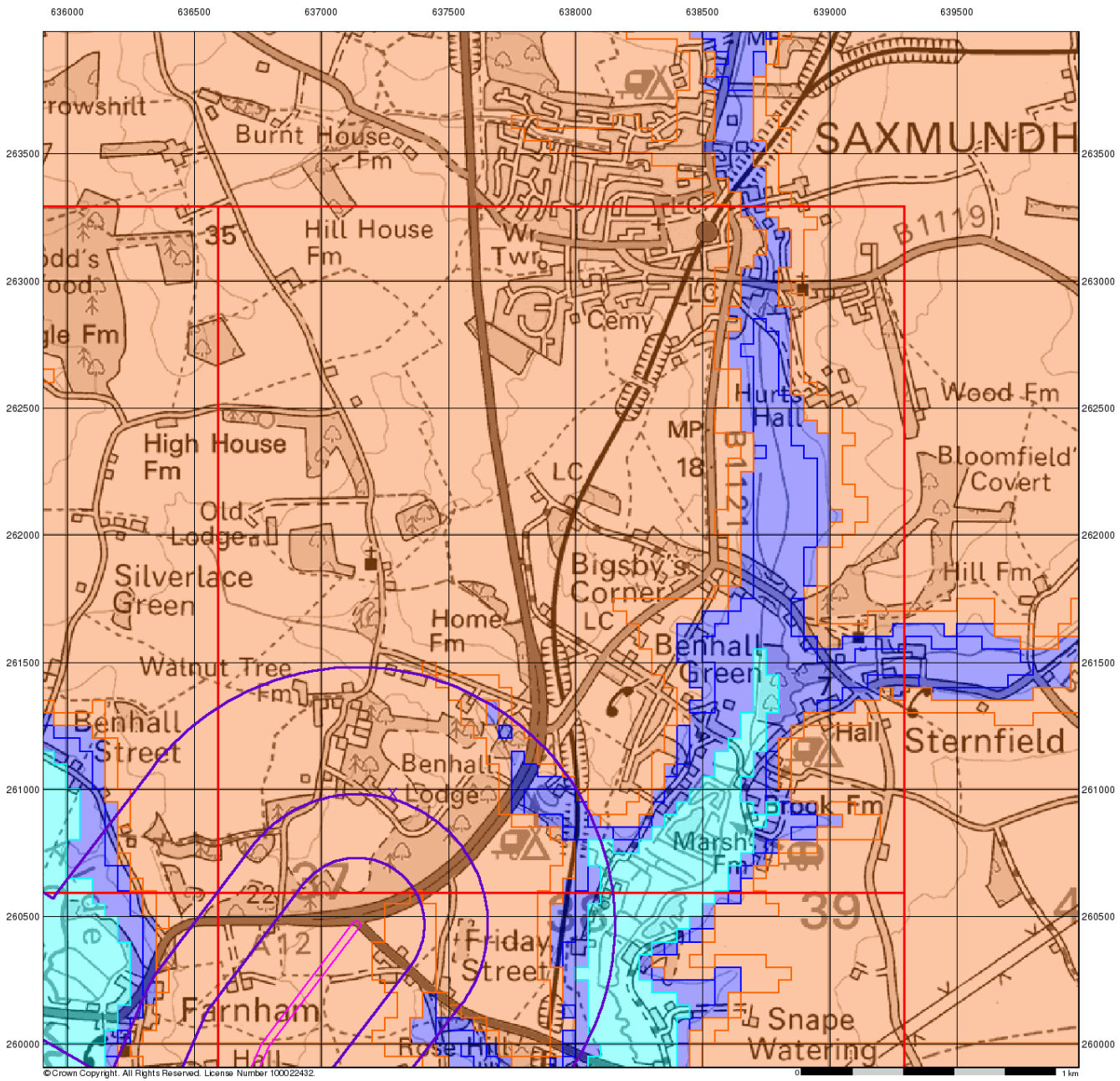

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BGS Flood GFS Data

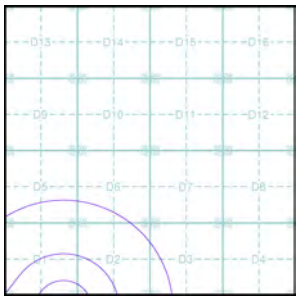
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice D



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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
199915699_1_1

Customer Reference:
5166065

National Grid Reference:
637280, 260990

Slice:
D

Site Area (Ha):
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Search Buffer (m):
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Site Details:

Church Bungalow, Farnham
SAXMUNDHAM
IP17 1LA

Client Details:

Mr J Adley
Atkins Ltd
The Hub 500 Park Avenue
Aztec West
Almondsbury
Bristol
BS32 4RZ

Prepared For:

Atkins Ltd

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LANDMARK INFORMATION GROUP®

Contents

Introduction

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

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Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			2	1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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 2			Yes	
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 2				1 (*2)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 3	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Source Protection Zones	pg 4				2
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 5				5

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 6	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 6				1
Potentially Infilled Land (Water)					
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					

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 7	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 7	Yes		Yes	
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 8	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 8	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries					
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production					
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 9		1		
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 9	1			
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 9	3			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SE)	0	1	638100 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	0	1	637250 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D2NW (W)	0	1	637282 260985
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	D2SW (S)	74	1	637350 260600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	354	1	637400 260200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	356	1	637282 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	370	1	636250 260000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(SW)	388	1	636200 260500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(S)	394	1	637450 260200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	403	1	636350 260150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	418	1	636400 260300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	442	1	636350 260500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	455	1	637450 260100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	469	1	636300 260500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	475	1	636250 260050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	481	1	636200 259950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(S)	494	1	637500 260100
1	**Discharge Consents** Operator: W H Greenfield Farms Property Type: Arable Farming Location: Park Farm, Benhall, Saxmundham Authority: Environment Agency, Anglian Region Catchment Area: Catchment 29 Unknown Detail Reference: Gwelf50104 Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 12th May 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Agricultural And Surface Discharge Environment: Groundwater Receiving Water: Groundwater **Status: Deemed Groundwater Regulations Authorisation** Positional Accuracy: Manually corrected supplier location	D1SE (SW)	449	2	637150 260930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: W H Greenfield Farms Property Type: Arable Farming Location: Park Farm, Benhall, Saxmundham Authority: Environment Agency, Anglian Region Catchment Area: Catchment 29 Unknown Detail Reference: Gwelf50104 Permit Version: 1 Effective Date: 1st April 1999 Issued Date: 12th May 2000 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Agricultural And Surface Discharge Environment: Onto Land Receiving Water: Groundwater **Status: Deemed Groundwater Regulations Authorisation** Positional Accuracy: Located by supplier to within 10m	D1SE (SW)	449	2	637150 260930
2	**Discharge Consents** Operator: Suffolk Coastal District Council Property Type: Domestic Property (Multiple) Location: 28 Houses At Benhall, Suffolk Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr4nf419dx Permit Version: 1 Effective Date: 20th December 1963 Issued Date: 20th December 1963 Revocation Date: 23rd March 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Fromus River **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Approximate location provided by supplier	D3NW (E)	998	2	638000 261000
	Nearest Surface Water Feature	D1NE (W)	445	-	637075 260943
3	**Water Abstractions** Operator: J W Toller Licence Number: 7/35/04/*G/0034 Permit Version: 100 Location: Bore At Walnut Tree Fm,Benhall Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	D5SE (NW)	879	2	636950 261340
	Water Abstractions Operator: D B Bloomfield Licence Number: 7/35/04/*G/0090 Permit Version: 100 Location: 17 Wellpts At Marsh Fm,Stern'D Authority: Environment Agency, Anglian 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: Crag; Status: Perpetuity Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 1st April 1978 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D4SW (E)	1778	2	638900 260800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Major C R Heycock Licence Number: 7/35/04/*g/019 Permit Version: Not Supplied Location: Well At Kiln Farm, BENHALL Authority: Environment Agency, Anglian Region Abstraction: Domestic & Agriculture Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1 Yearly Rate (m3): 5000 Details: E chalk; Status: Revoked 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	D10SE (NE)	1825	2	637880 262150
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	(SW)	0	3	636000 260000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(S)	0	3	637000 260000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	D1NE (W)	0	3	637000 260985

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	D1SE (SW)	0	3	637000 260833
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	D1SE (SW)	0	3	637189 260883
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Intergranular Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	(SW)	0	3	636184 260000
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	(S)	0	3	637282 260000
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	D2NW (W)	0	3	637282 260985
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	(SE)	0	3	638044 260000
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	D1SE (SW)	0	3	637189 260883
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	D2NW (W)	0	3	637282 260985
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	(S)	0	3	637380 260000
4	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	D2NW (N)	683	2	637352 261267

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Source Protection Zones** Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	(NW)	967	2	636290 261438
	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				
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 286.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Canal Catchment Name: Suffolk Coastal Primacy: 1	D2NE (E)	851	4	637826 261039
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 219.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	D2NE (NE)	880	4	637700 261218
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 188.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	D2NE (NE)	923	4	637700 261218
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 255.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	D3SW (E)	931	4	638010 260835
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Suffolk Coastal Primacy: 1	D6SE (NE)	1000	4	637612 261365

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Suffolk County Council - Has supplied landfill data		0	5	637282 260985
	Local Authority Landfill Coverage Name: Suffolk Coastal District Council - Had landfill data but passed it to the relevant environment agency		0	6	637282 260985
11	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	D1NE (NW)	786	-	637103 261266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Neogene To Quaternary Rocks (Undifferentiated)	D2NW (W)	0	1	637282 260985
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D2NE (NE)	0	1	637685 261210
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	D1SE (SW)	0	1	637189 260883
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D2NW (W)	0	1	637282 260985
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	(W)	251	1	635582 260386
	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: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (W)	0	1	637282 260985
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (W)	0	1	637282 260985
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (W)	0	1	637282 260985
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (W)	0	1	637282 260985

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (W)	0	1	637282 260985
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2NW (W)	0	1	637282 260985
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D1SE (SW)	0	1	637189 260883
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	D2NW (W)	0	1	637282 260985
	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	D2NW (W)	0	1	637282 260985

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Ancient Woodland** Name: Foxburrow Wood Reference: 1117314 Area(m²): 43774.93 Type: Ancient and Semi-Natural Woodland	(S)	50	8	637351 259931
13	**Environmentally Sensitive Areas** Name: Suffolk River Valleys (decommissioned) Multiple Areas: Y Total Area (m2): 162490824.42 Source: Natural England	D3NW (E)	0	8	638044 260983
14	**Nitrate Vulnerable Zones** Name: Alde Nvz Description: Surface Water Source: Environment Agency, Head Office	D1NE (W)	0	3	637007 261053
15	**Nitrate Vulnerable Zones** Name: Sandlings And Chelmsford Description: Groundwater Source: Environment Agency, Head Office	D2NW (W)	0	3	637282 260985
16	**Nitrate Vulnerable Zones** Name: Fromus Nvz Description: Surface Water Source: Environment Agency, Head Office	D2NW (W)	0	3	637282 260985

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Suffolk Coastal District Council - Environmental Health Department	March 2015	Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	January 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Anglian Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	January 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control Suffolk Coastal District Council - Environmental Health Department	April 2014	Variable
Local Authority Pollution Prevention and Controls Suffolk Coastal District Council - Environmental Health Department	April 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Suffolk Coastal District Council - Environmental Health Department	April 2014	Variable
Nearest Surface Water Feature Ordnance Survey	January 2019	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Anglian Region	June 2016	
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 - Anglian Region - Eastern Area	January 2019	Quarterly
Water Abstractions Environment Agency - Anglian Region	January 2019	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	Annually
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	January 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2019	Quarterly
Flood Defences Environment Agency - Head Office	February 2019	Quarterly
OS Water Network Lines Ordnance Survey	October 2018	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	July 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Eastern Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Eastern Area	January 2019	Quarterly
Local Authority Landfill Coverage Suffolk Coastal District Council - Environmental Health Department Suffolk County Council	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Suffolk Coastal District Council - Environmental Health Department Suffolk County Council	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Eastern Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Suffolk County Council - Environment and Transport Suffolk Coastal District Council	February 2006 February 2016	Annual Rolling Update Variable
Planning Hazardous Substance Consents Suffolk County Council - Environment and Transport Suffolk Coastal District Council	February 2006 February 2016	Annual Rolling Update Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

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

Data Suppliers

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	

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**Suffolk County Council** St Edmund House, County Hall, Ipswich, Suffolk, IP4 1LZ	Telephone: 01473 583000 Fax: 01473 230240 Website: www.suffolkcc.gov.uk
6	**Suffolk Coastal District Council - Environmental Health Department** Council Offices, Melton Hill, Woodbridge, Suffolk, IP12 1AU	Telephone: 01394 383789 extn 2238 Fax: 01394 385100 Website: www.suffolkcoastal.gov.uk
7	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.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 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

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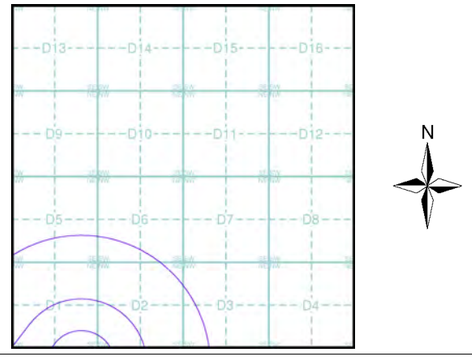
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Suffolk	1:10,560	1884 - 1885	2
Suffolk	1:10,560	1905	3
Suffolk	1:10,560	1928	4
Suffolk	1:10,560	1938 - 1951	5
Suffolk	1:10,560	1950 - 1951	6
Ordnance Survey Plan	1:10,000	1957	7
Ordnance Survey Plan	1:10,000	1975	8
Ordnance Survey Plan	1:10,000	1990	9
10K Raster Mapping	1:10,000	2000	10
10K Raster Mapping	1:10,000	2006	11
VectorMap Local	1:10,000	2019	12

Historical Map - Slice D



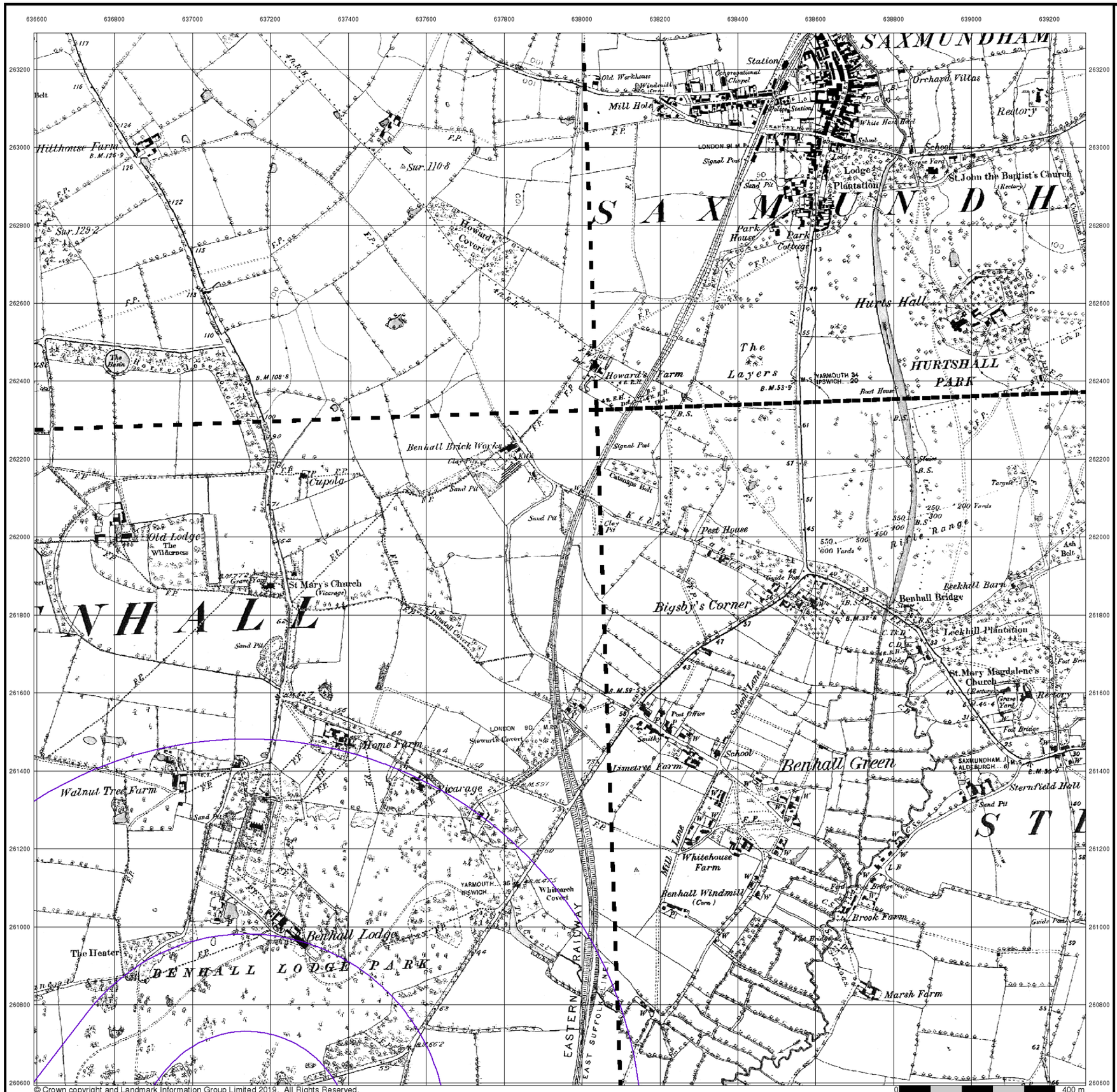
Order Details

Order Number: 199915699_1_1
Customer Ref: 5166065
National Grid Reference: 637280, 260990
Slice: D
Site Area (Ha): 7.51
Search Buffer (m): 1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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



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Suffolk

Published 1884 - 1885

Source map scale - 1:10,560

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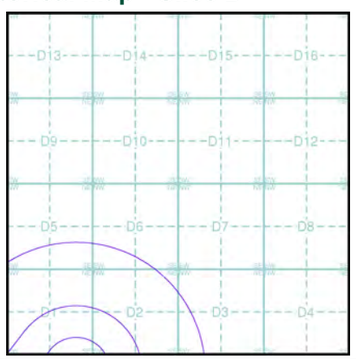
Map Name(s) and Date(s)

049SE 1885 1:10,560
050SW 1885 1:10,560
059NE 1884 1:10,560
060NW 1884 1:10,560

Historical Map - Slice D



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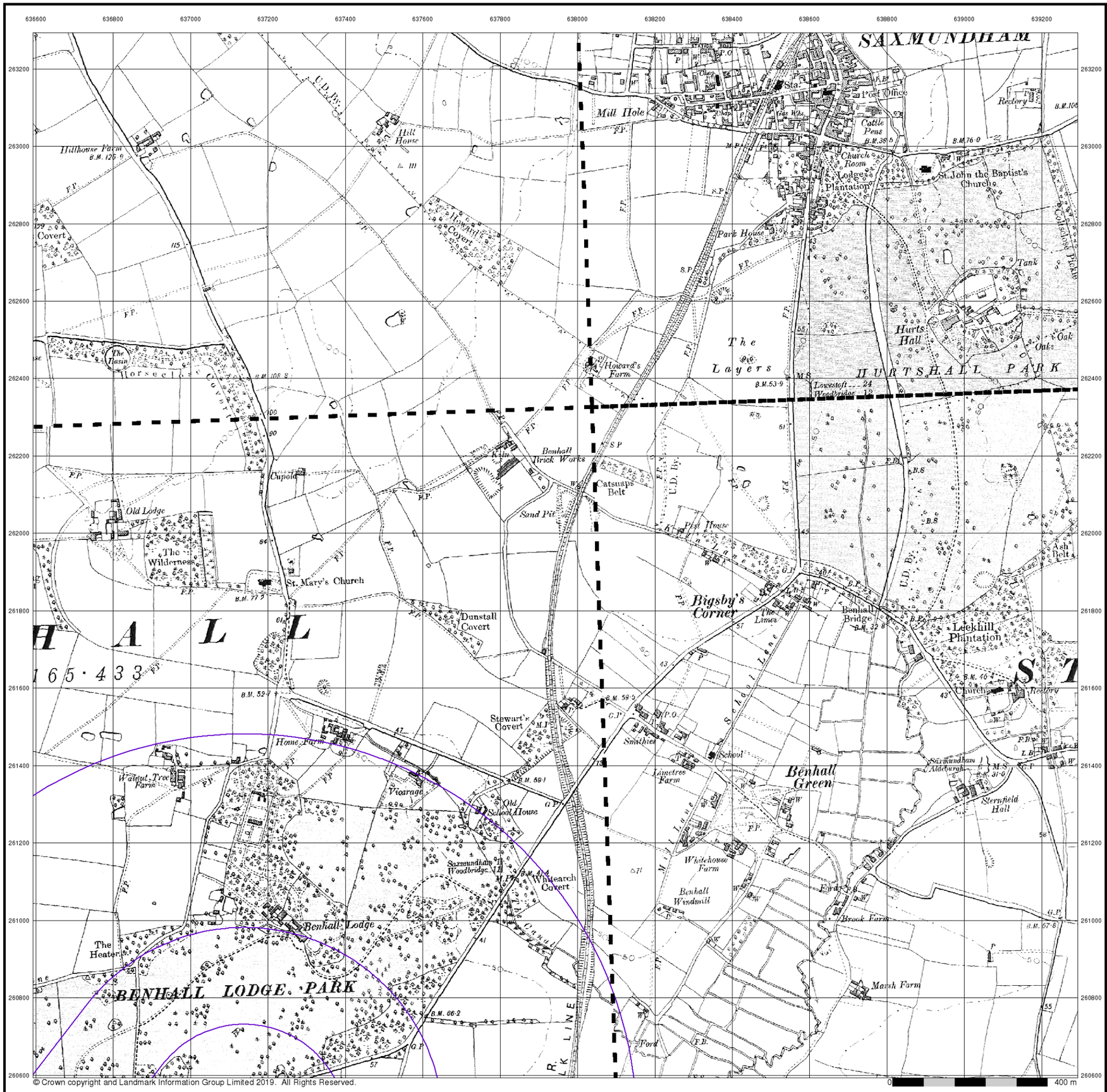

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Suffolk

Published 1905

Source map scale - 1:10,560

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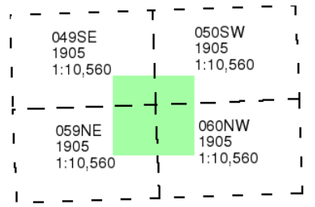
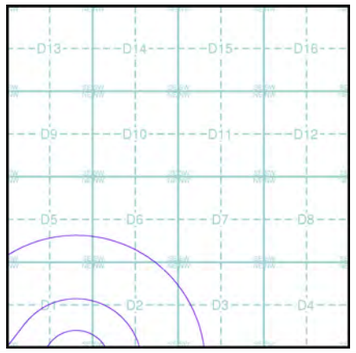
Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

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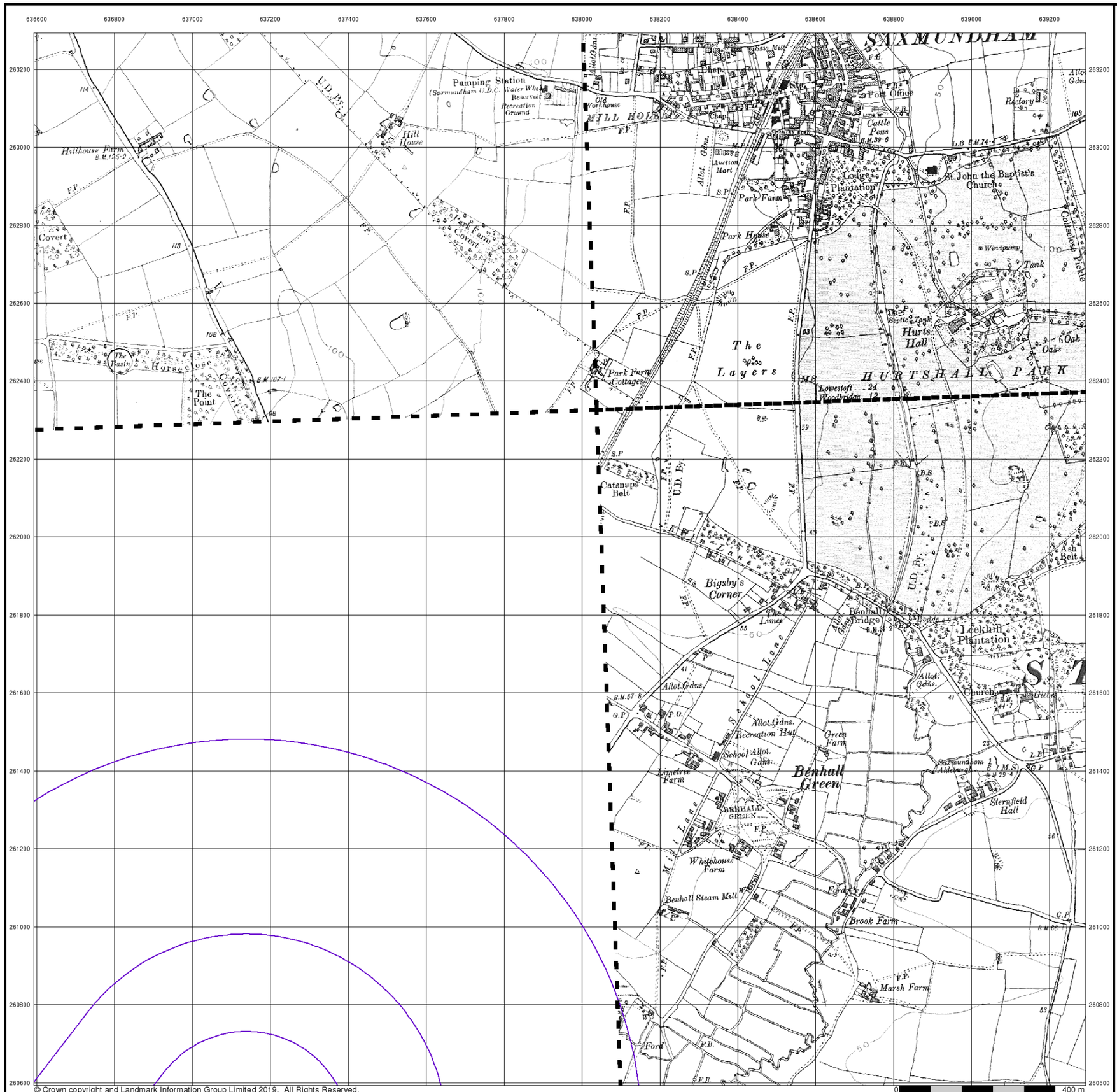

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Suffolk

Published 1928

Source map scale - 1:10,560

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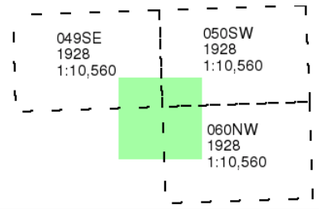
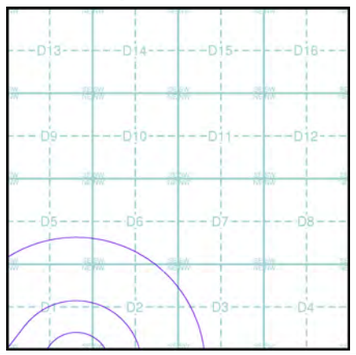
Map Name(s) and Date(s)



Historical Map - Slice D



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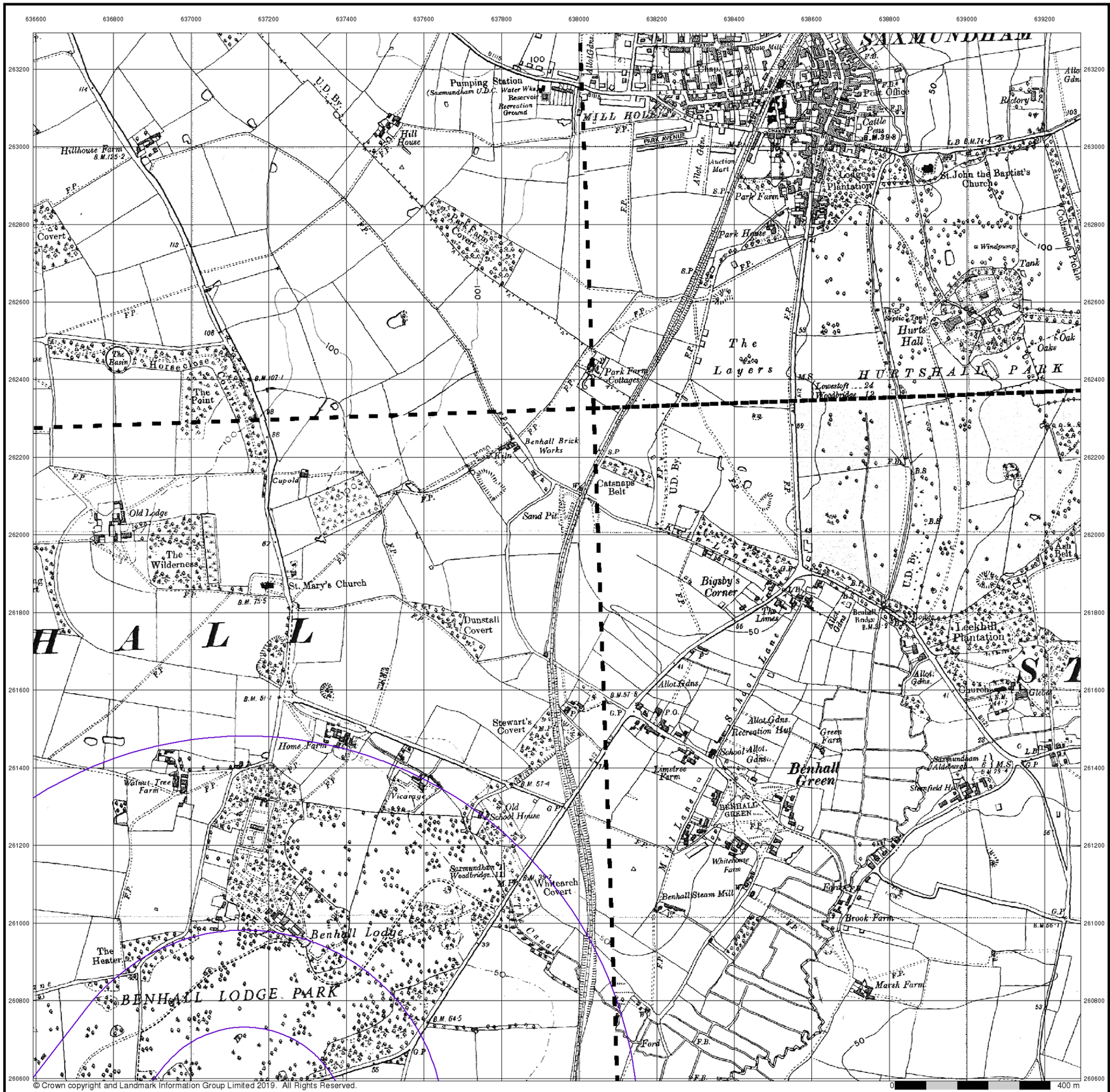

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Suffolk

Published 1938 - 1951

Source map scale - 1:10,560

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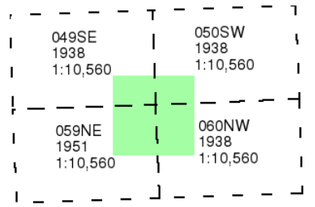
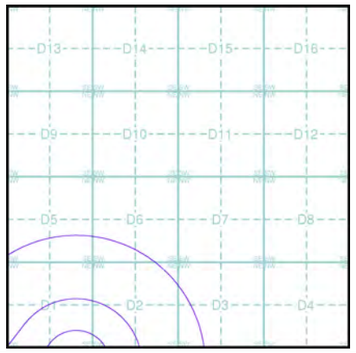
Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number:	199915699_1_1
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National Grid Reference:	637280, 260990
Slice:	D
Site Area (Ha):	7.51
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Site Details

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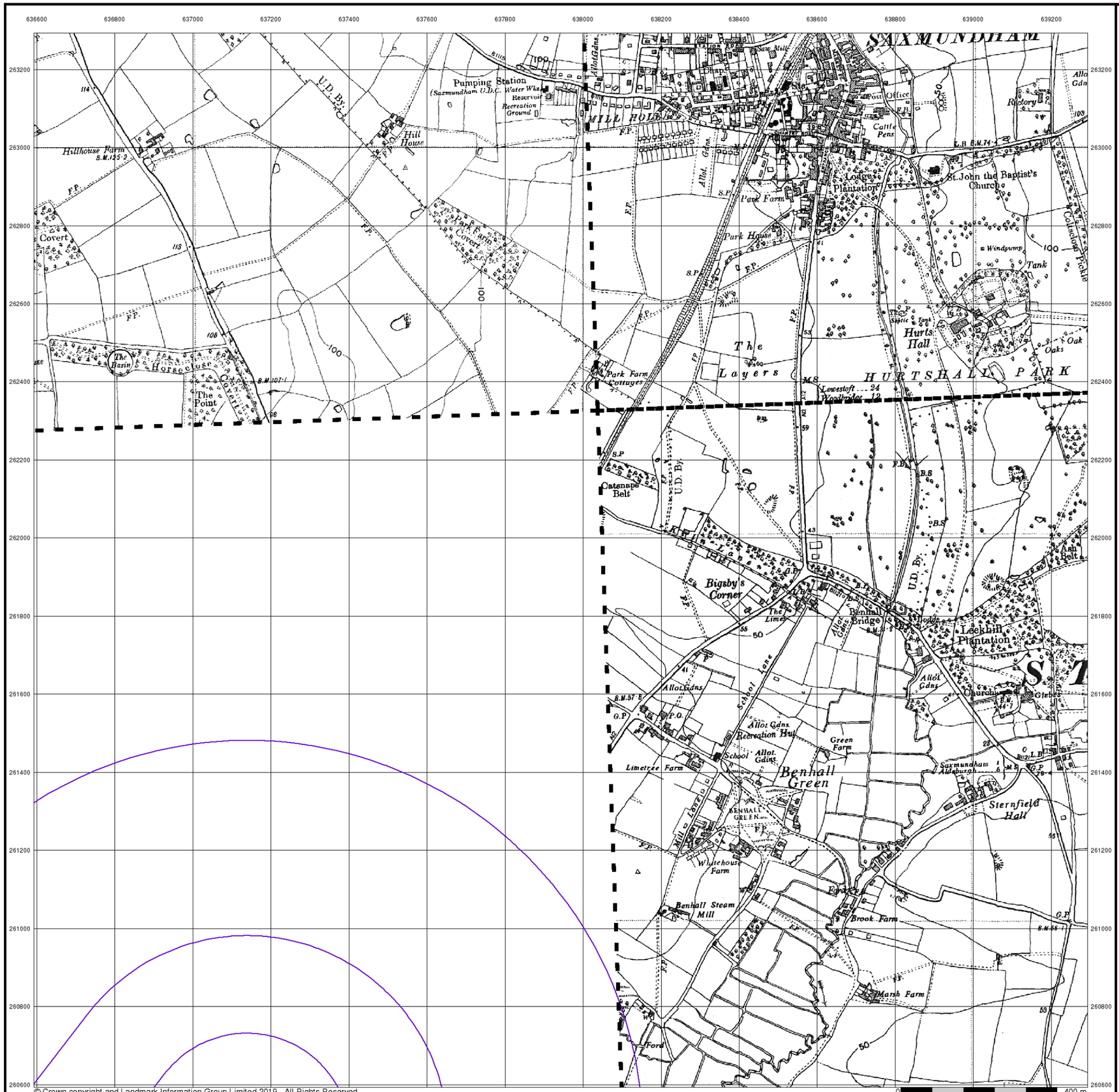

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Suffolk

Published 1950 - 1951

Source map scale - 1:10,560

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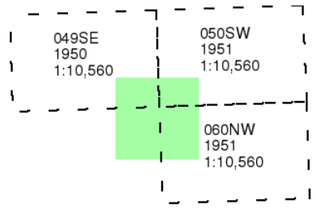
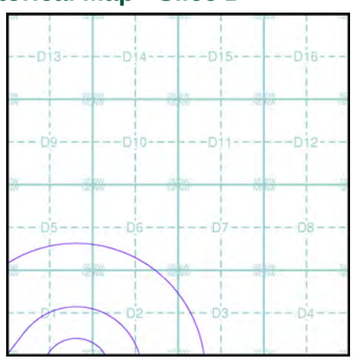
Map Name(s) and Date(s)



Historical Map - Slice D



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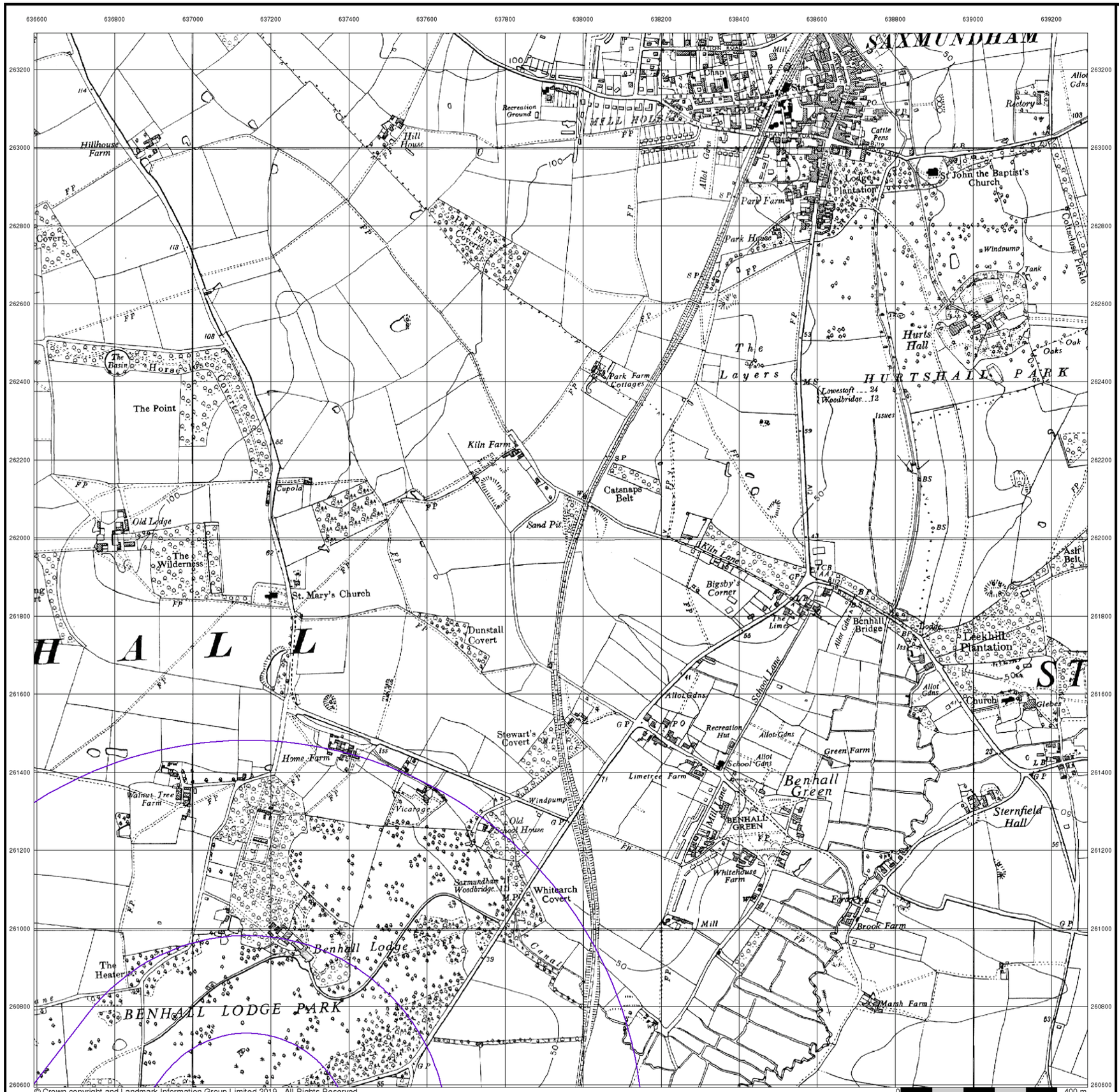

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Ordnance Survey Plan

Published 1957

Source map scale - 1:10,000

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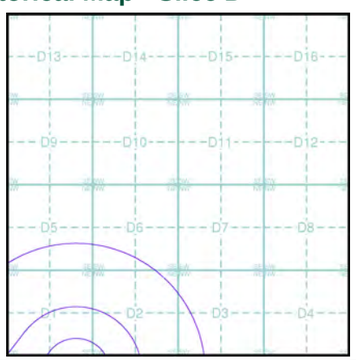
Map Name(s) and Date(s)

TM36SE
1957
1:10,560

Historical Map - Slice D



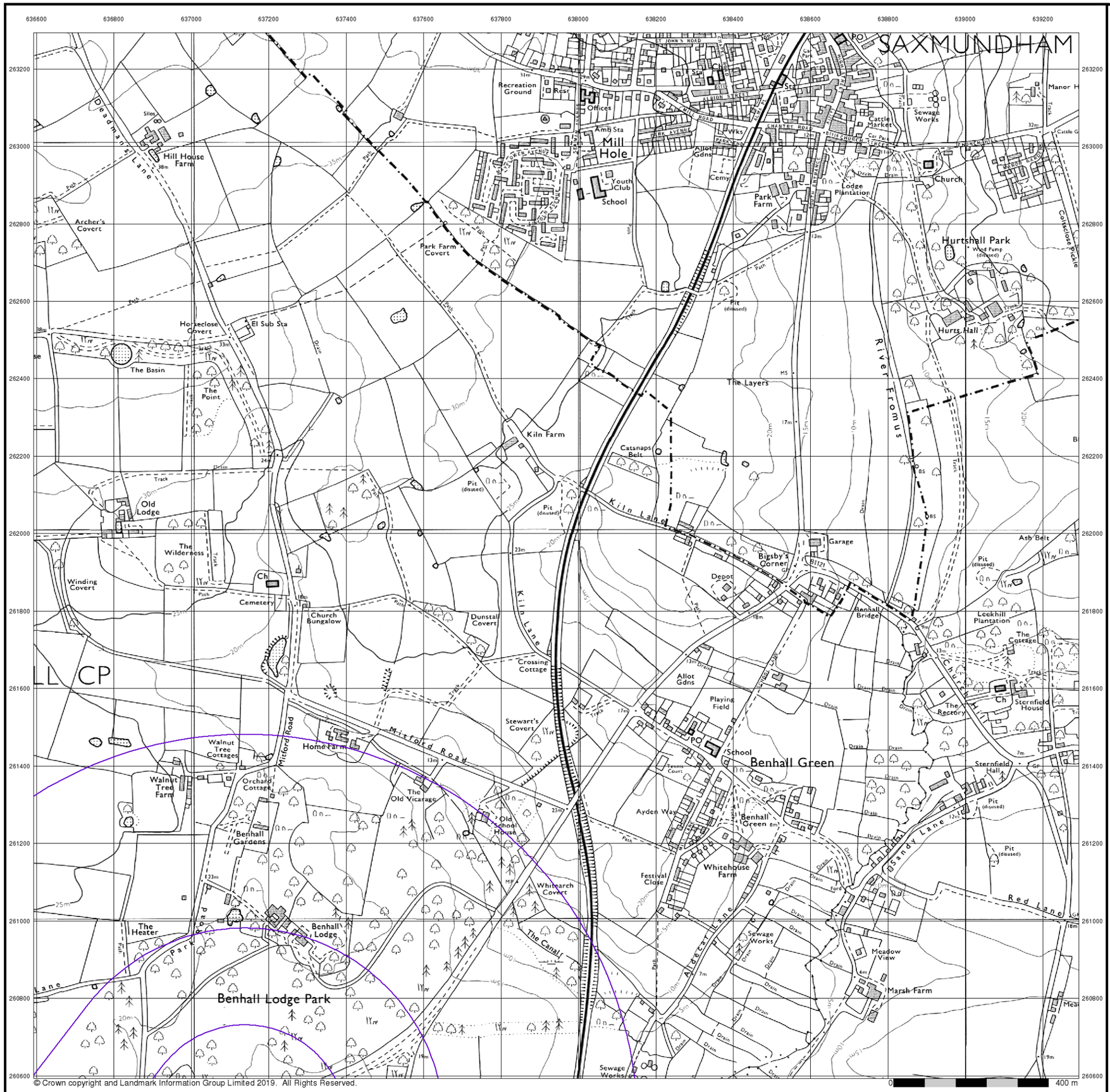
Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	637280, 260990
Slice:	D
Site Area (Ha):	7.51
Search Buffer (m):	1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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



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Ordnance Survey Plan

Published 1975

Source map scale - 1:10,000

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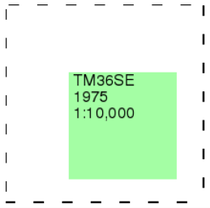
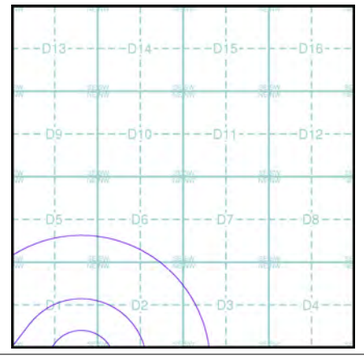


Historical Map - Slice D



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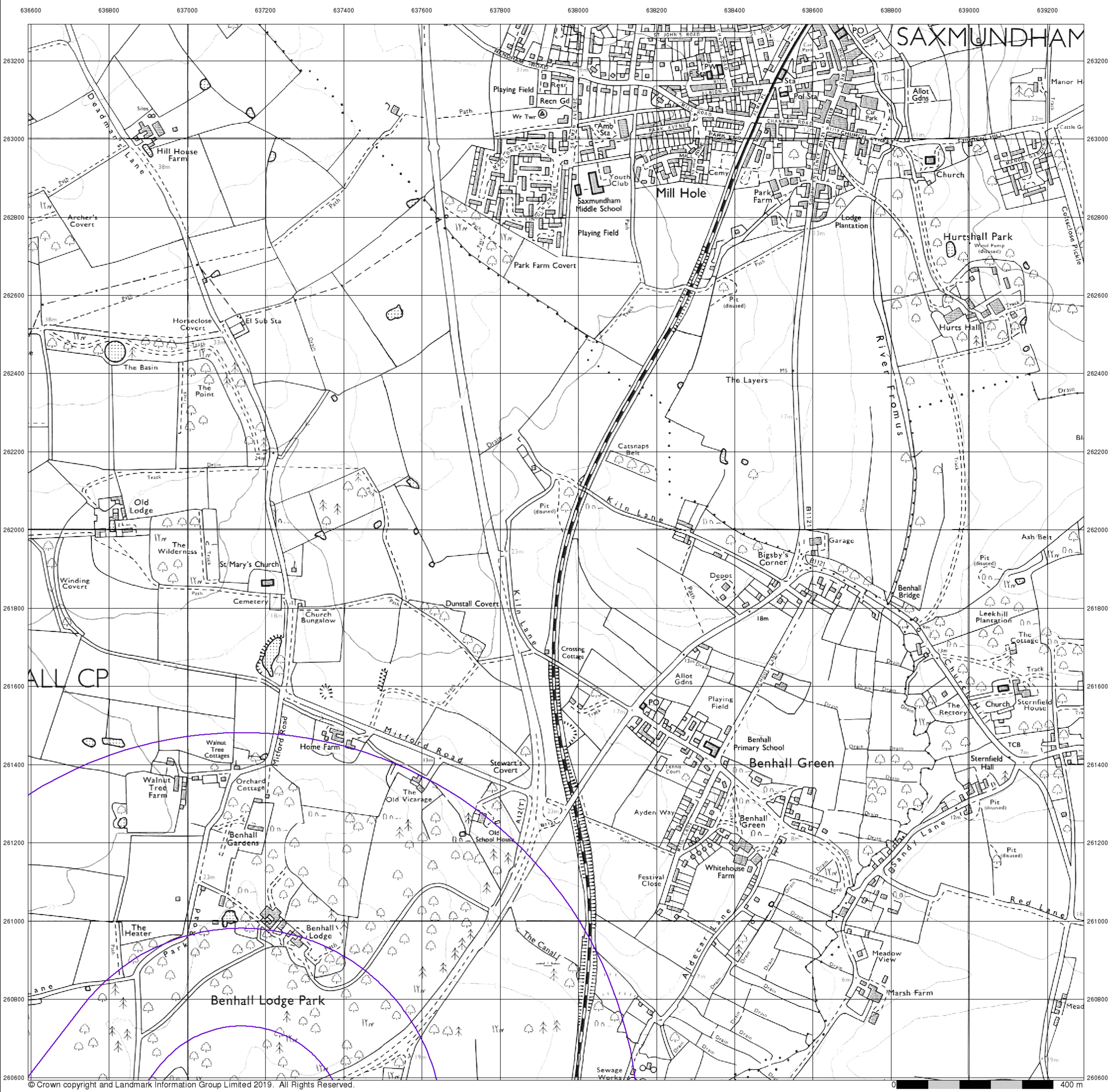

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Ordnance Survey Plan

Published 1990

Source map scale - 1:10,000

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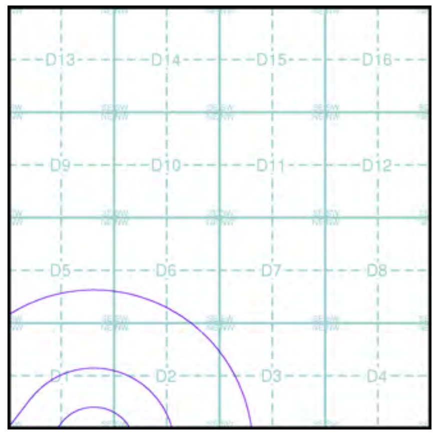
Map Name(s) and Date(s)

TM36SE
1990
1:10,000

Historical Map - Slice D



N

Order Details

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Slice: D
Site Area (Ha): 7.51
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Site Details

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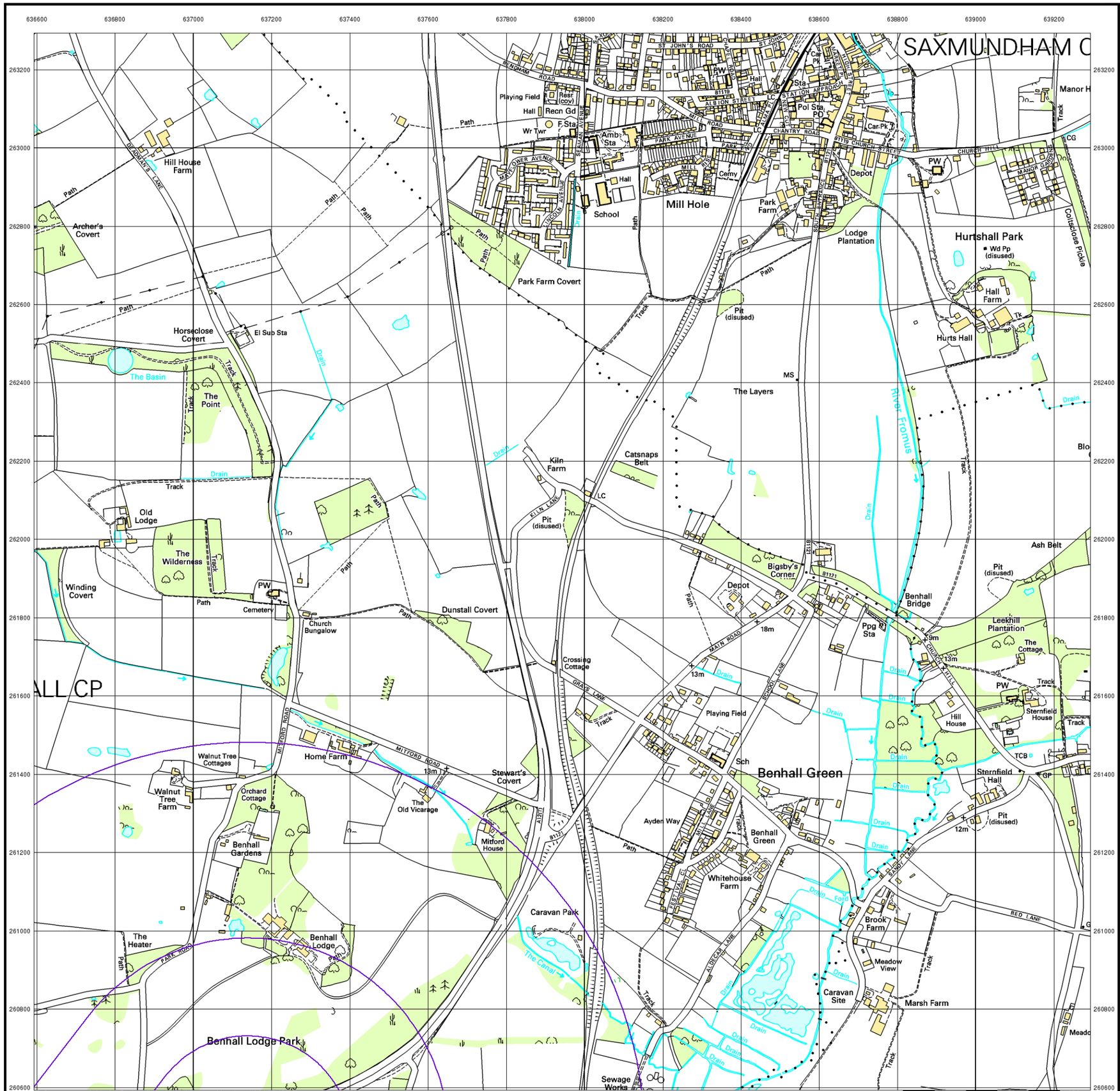

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LANDMARK INFORMATION GROUP®

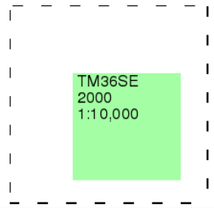
10k Raster Mapping

Published 2000

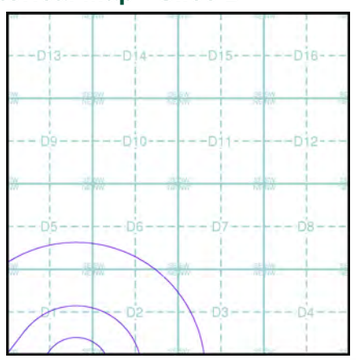
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D



Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	637280, 260990
Slice:	D
Site Area (Ha):	7.51
Search Buffer (m):	1000

Site Details

Church Bungalow, Farnham, SAXMUNDHAM, IP17 1LA

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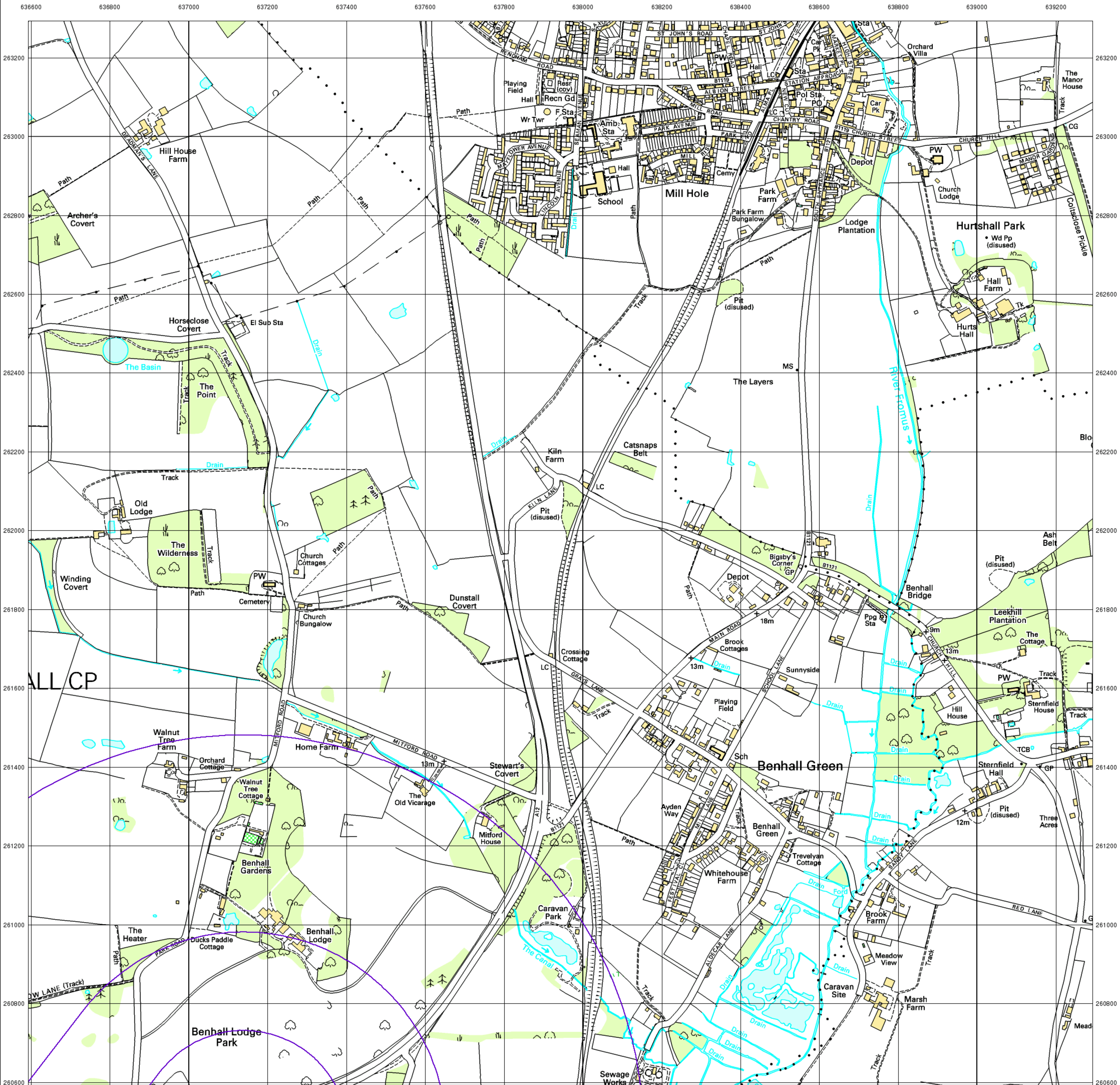
Web: www.envirocheck.co.uk



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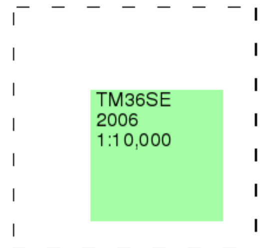
10k Raster Mapping

Published 2006

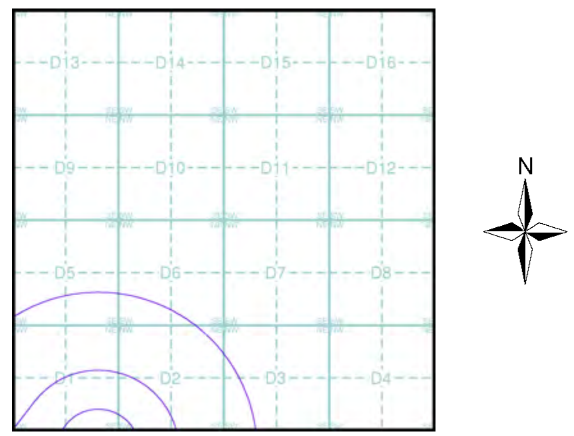
Source map scale - 1:10,000

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)



Historical Map - Slice D



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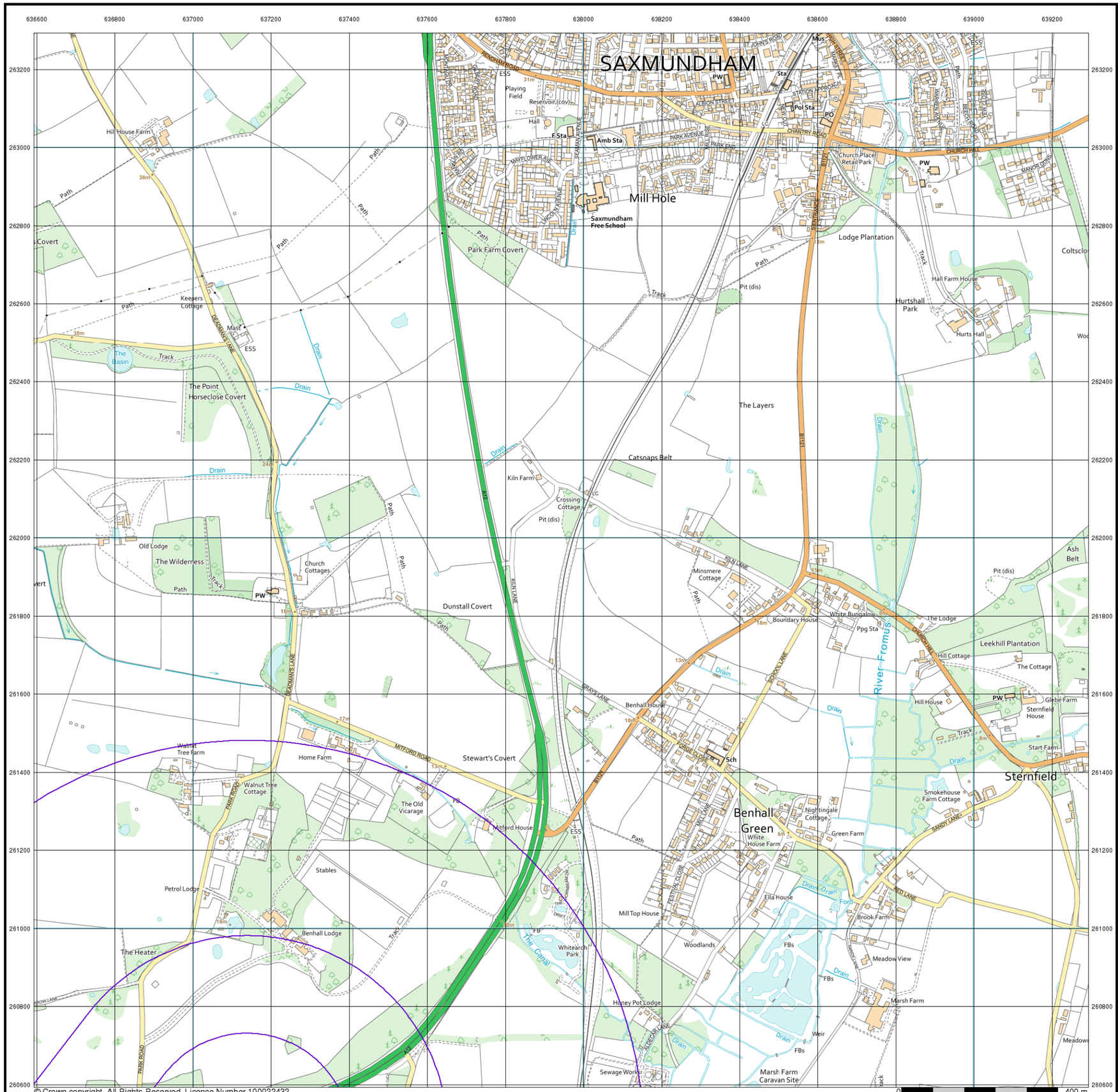

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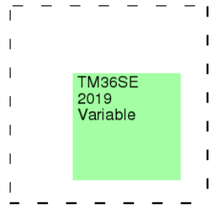
VectorMap Local

Published 2019

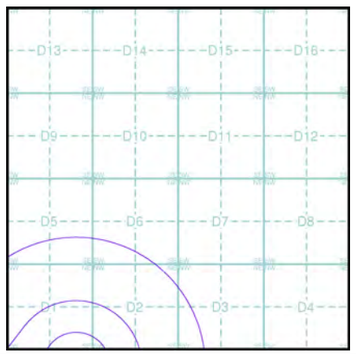
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice D



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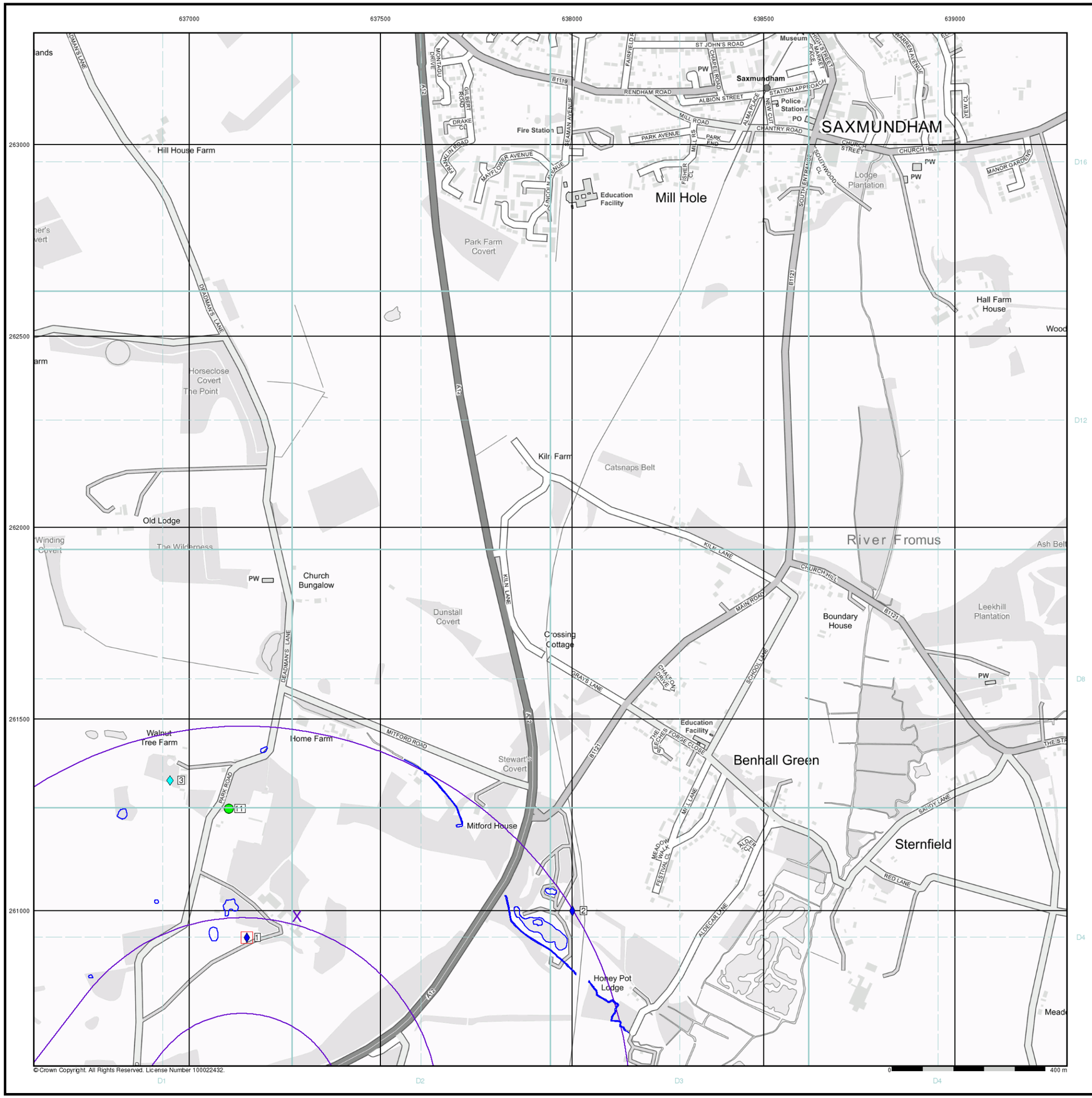

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General

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

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
River Quality Sampling Point
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
EA Historic Landfill (Buffered Point)
EA Historic Landfill (Polygon)
Integrated Pollution Control Registered Waste Site
Licensed Waste Management Facility (Landfill Boundary)
Licensed Waste Management Facility (Location)
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Potentially Infilled Land (Non-water)
Potentially Infilled Land (Non-water)
Potentially Infilled Land (Non-water)
Potentially Infilled Land (Water)
Potentially Infilled Land (Water)
Potentially Infilled Land (Water)
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

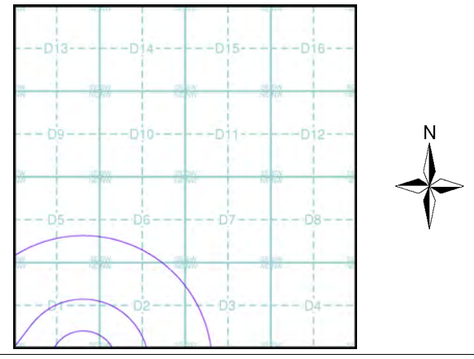
Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Geological

BGS Recorded Mineral Site

Site Sensitivity Map - Slice D



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Site Details

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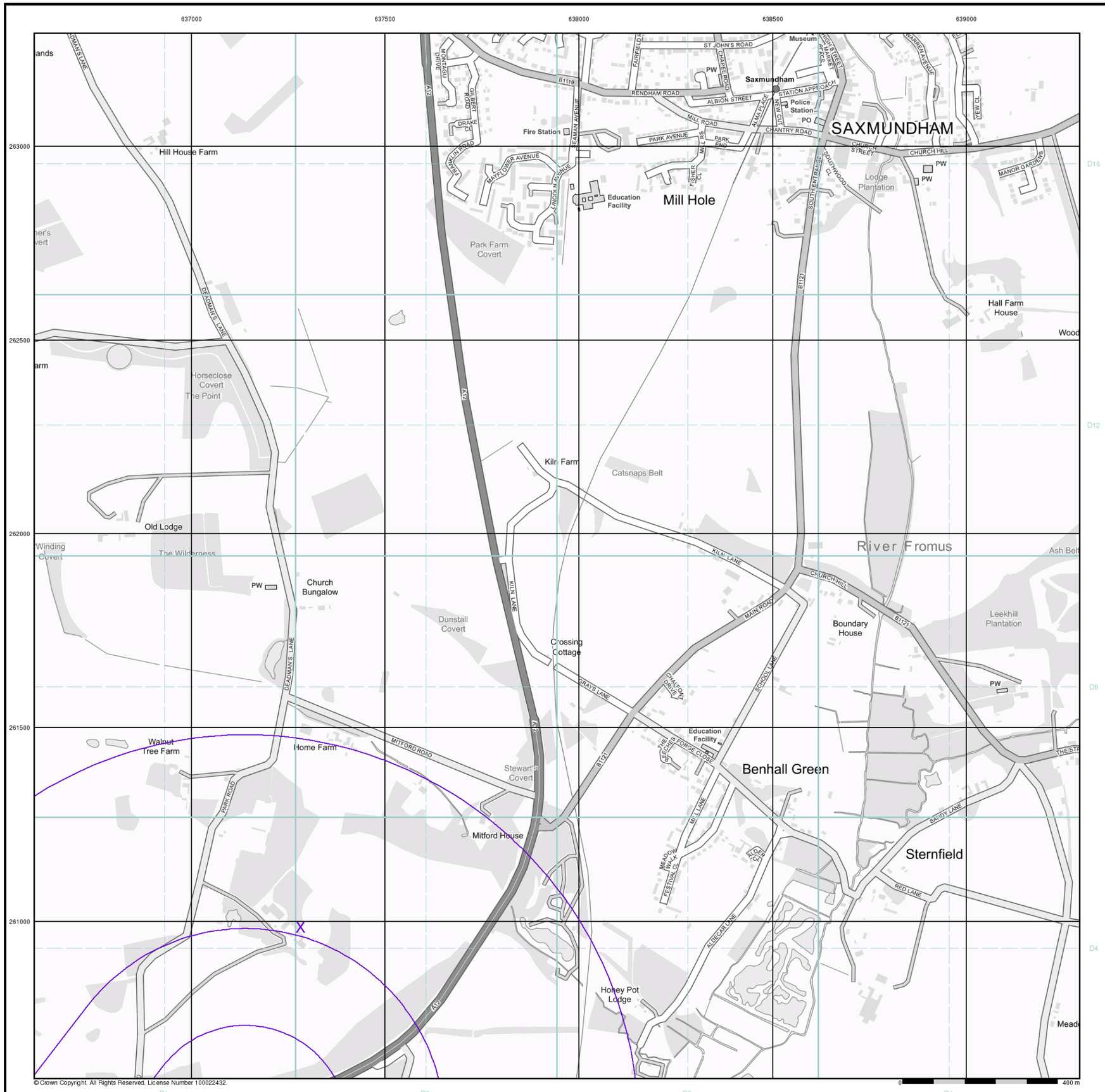

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Industrial Land Use Map

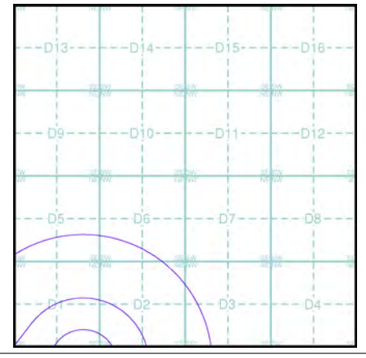
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice D



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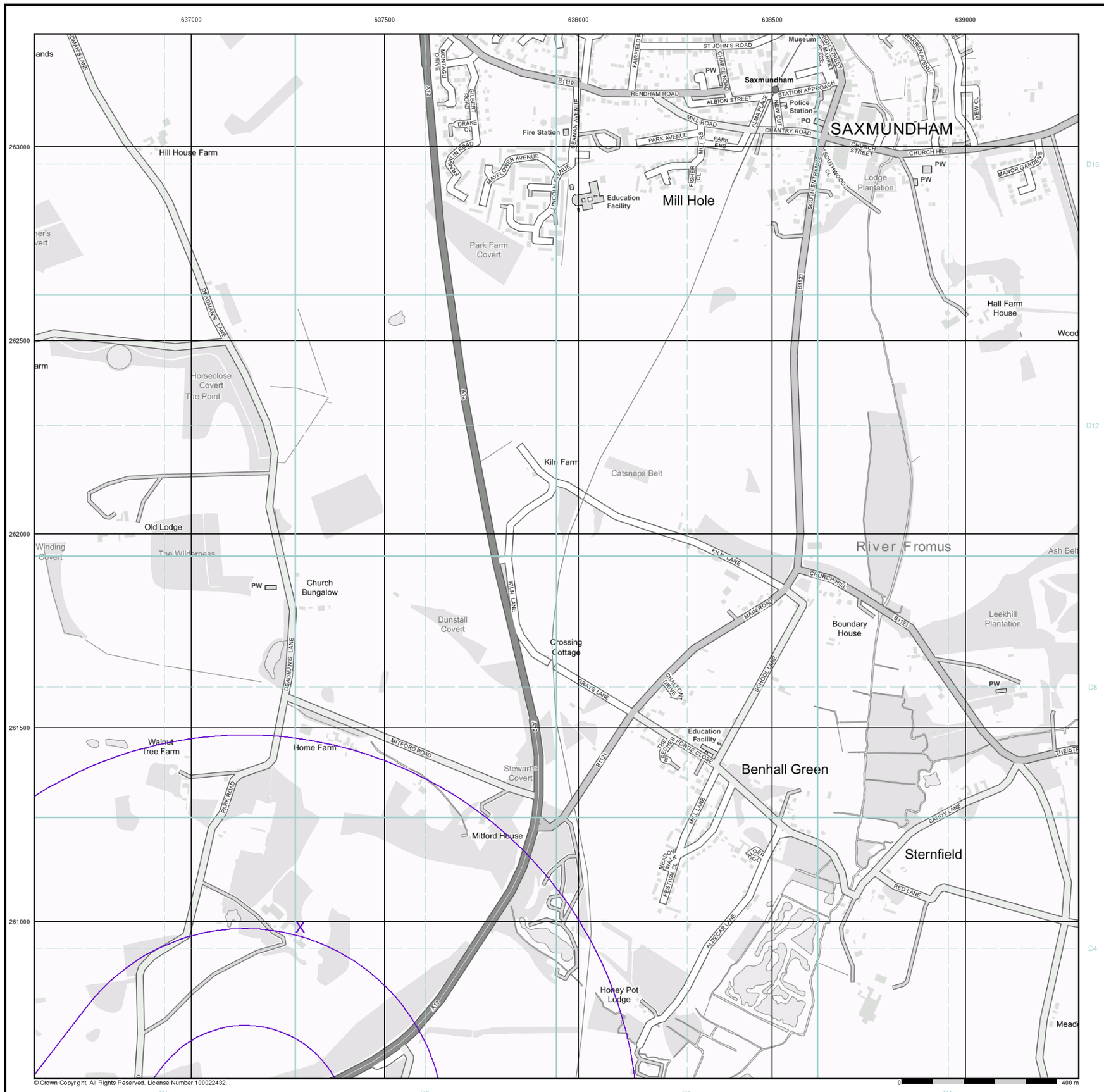

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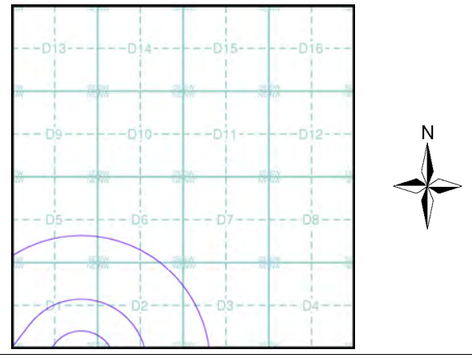
General

- Specified Site
- Specified Buffer(s)
- X 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 D



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General

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

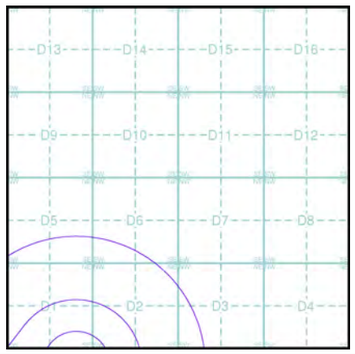
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice D



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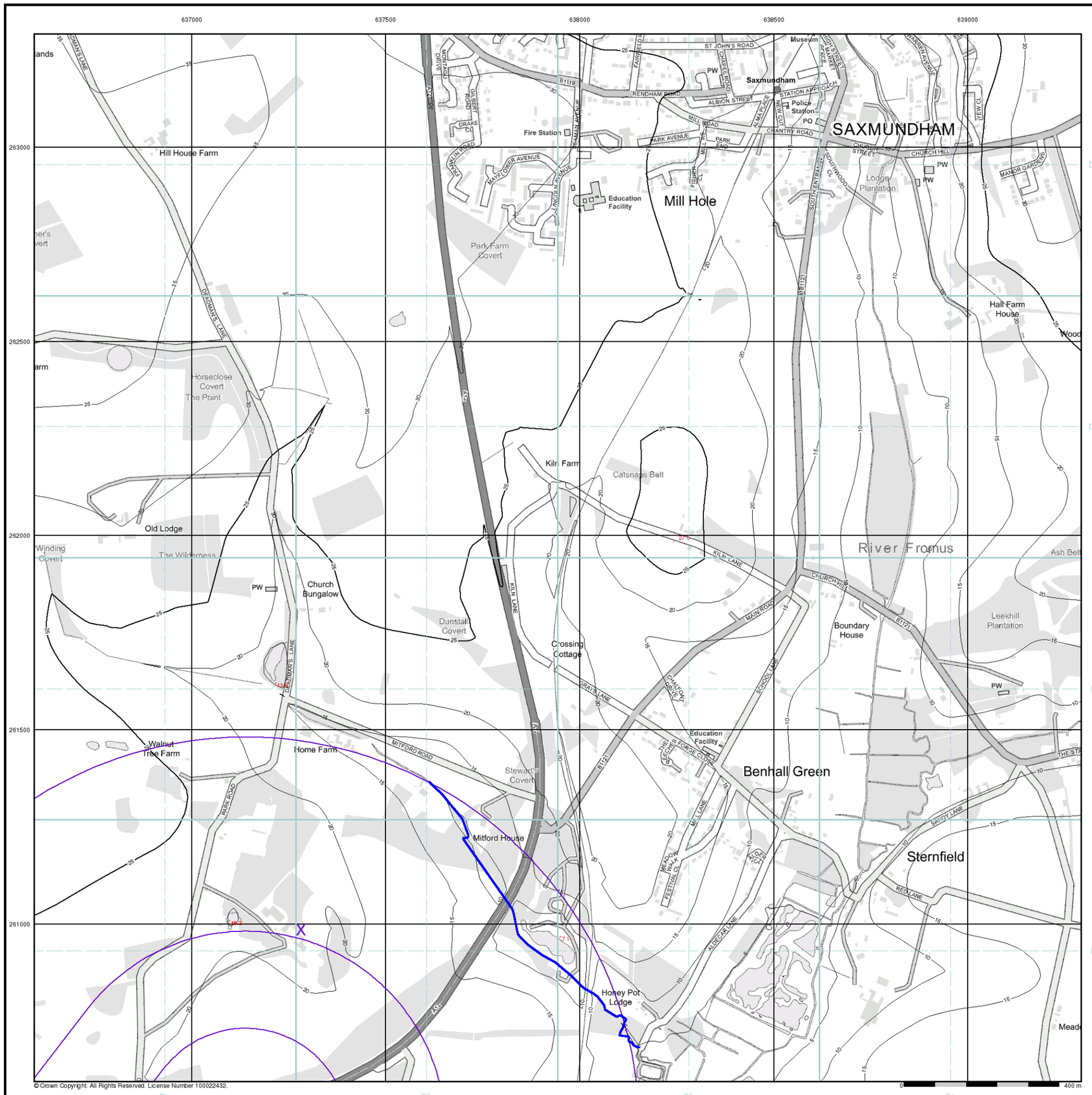

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General

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

OS Water Network Data

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

Contours (height in meters)

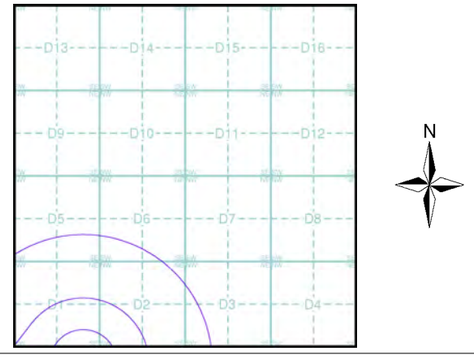
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice D



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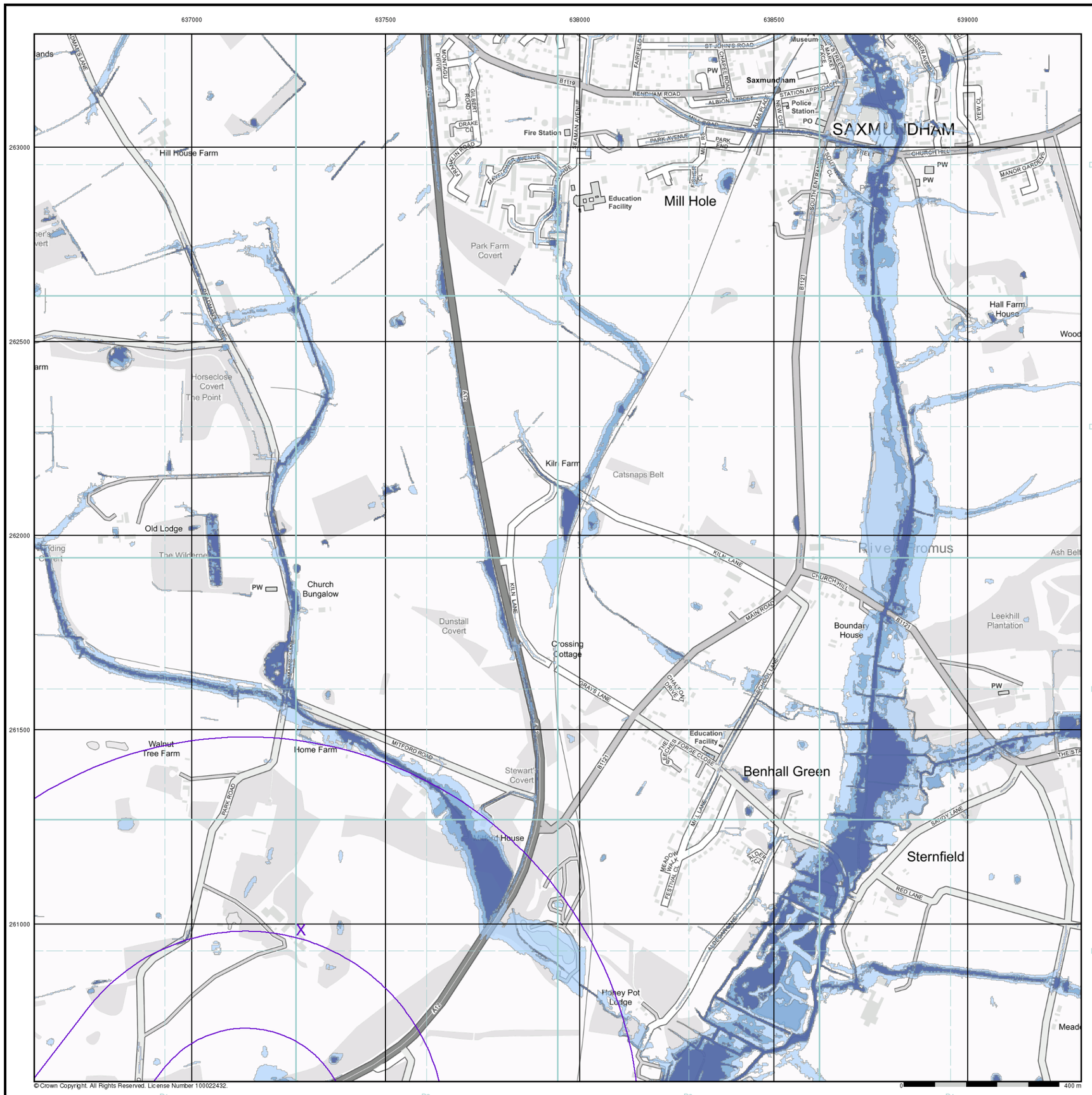

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General

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

Risk of Flooding from Surface Water

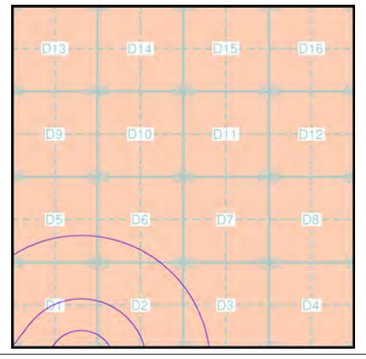
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice D



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National Grid Reference:	637280, 260990
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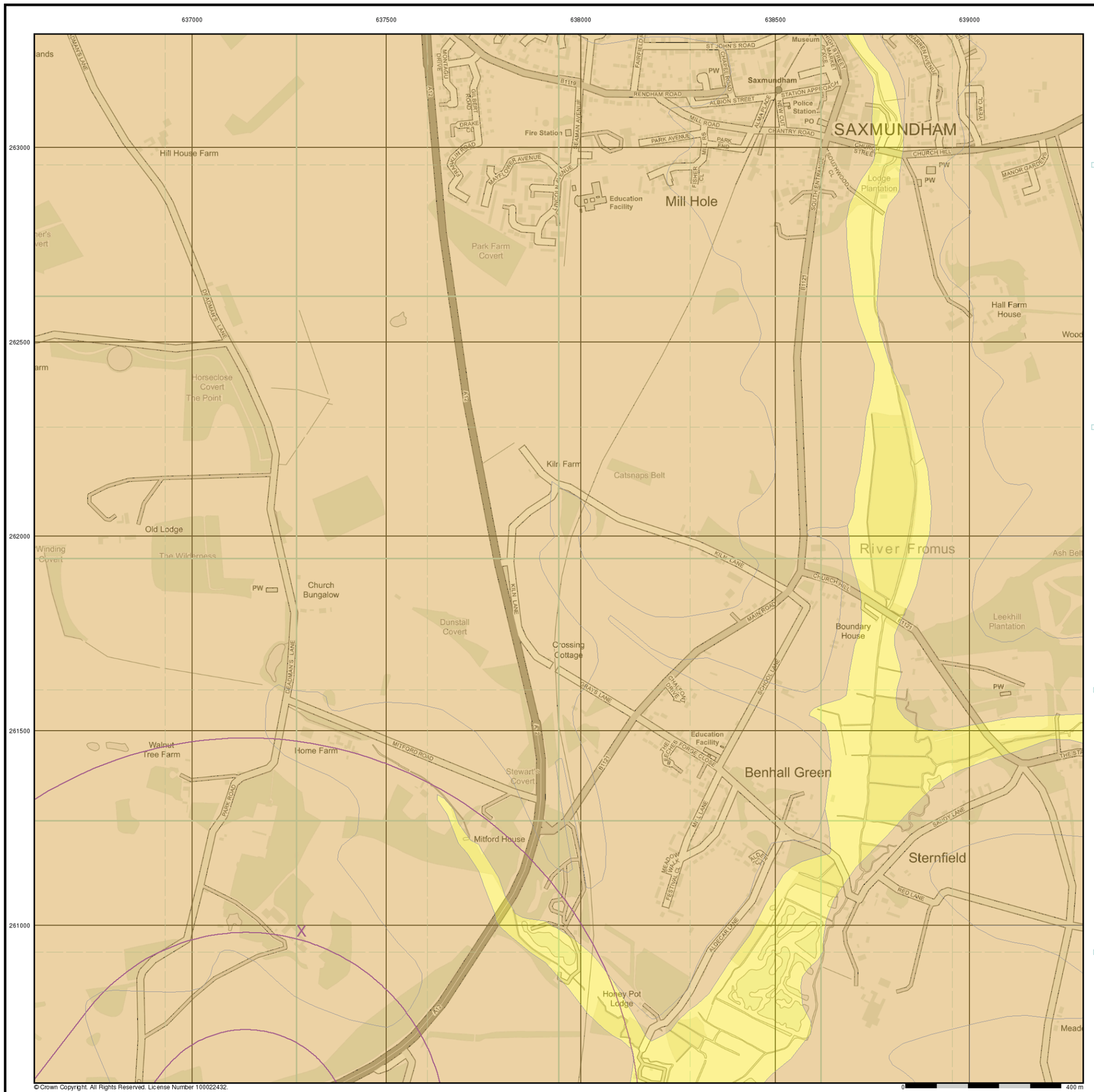

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General

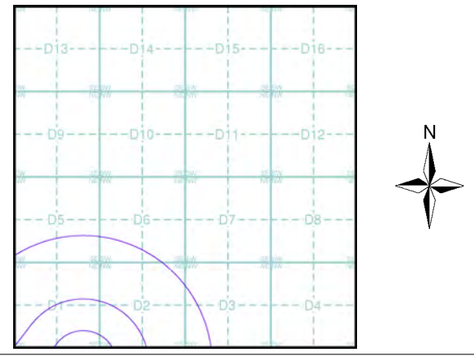
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 D



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General

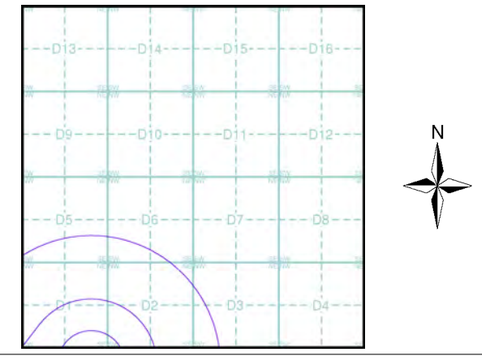
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 D



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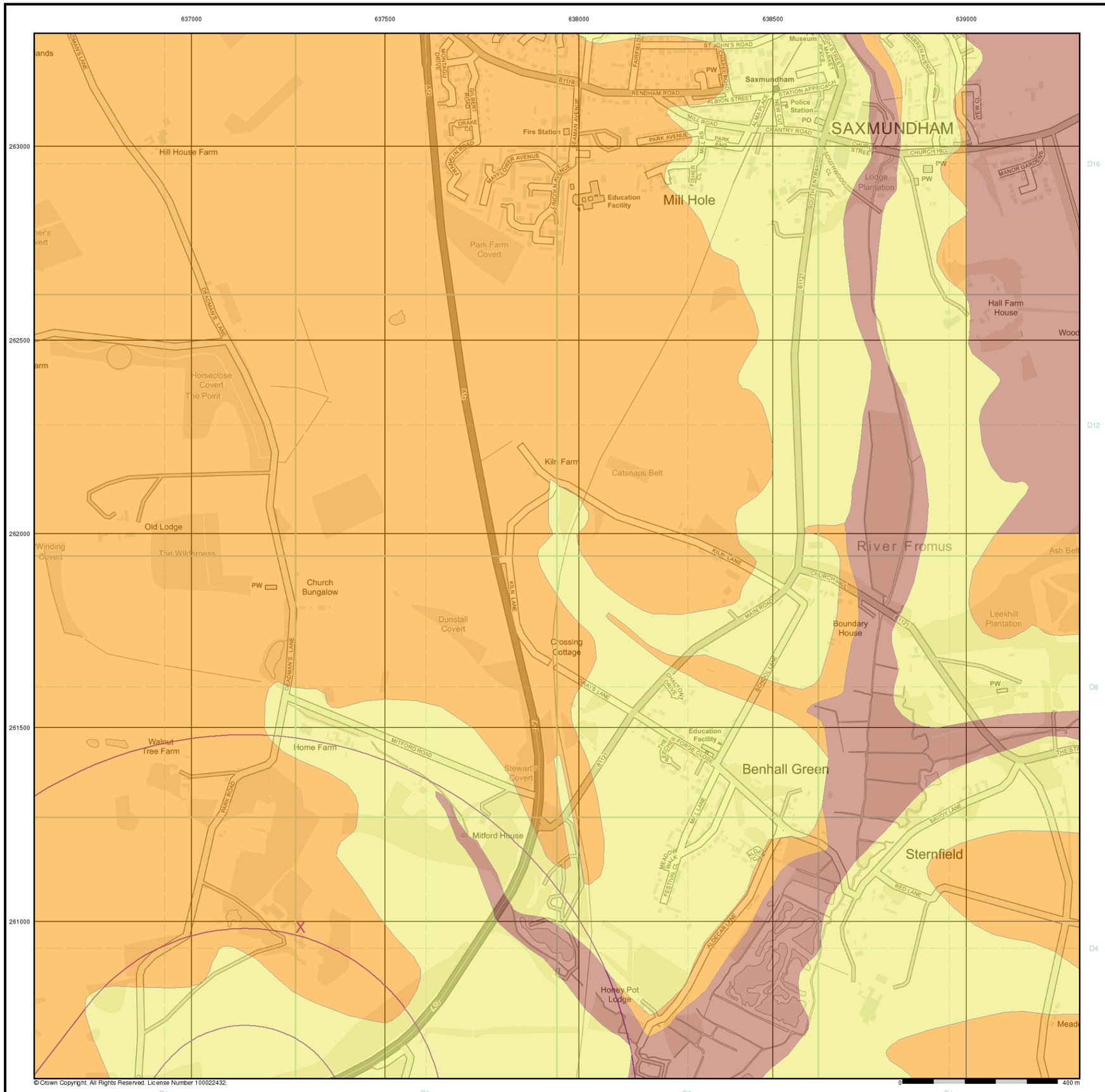

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General

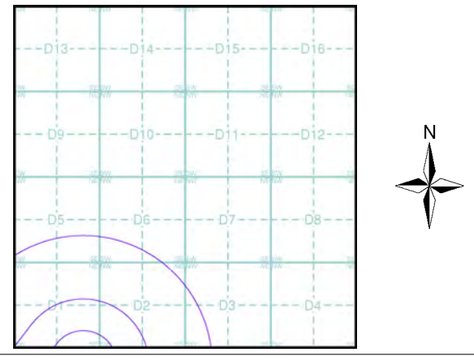
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 D



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General

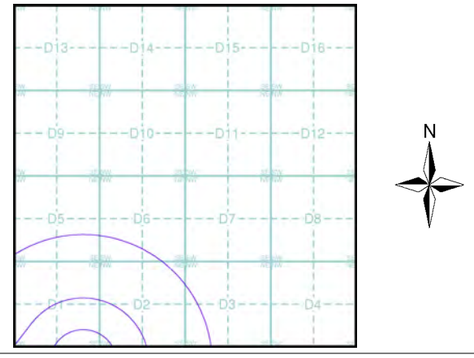
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice D



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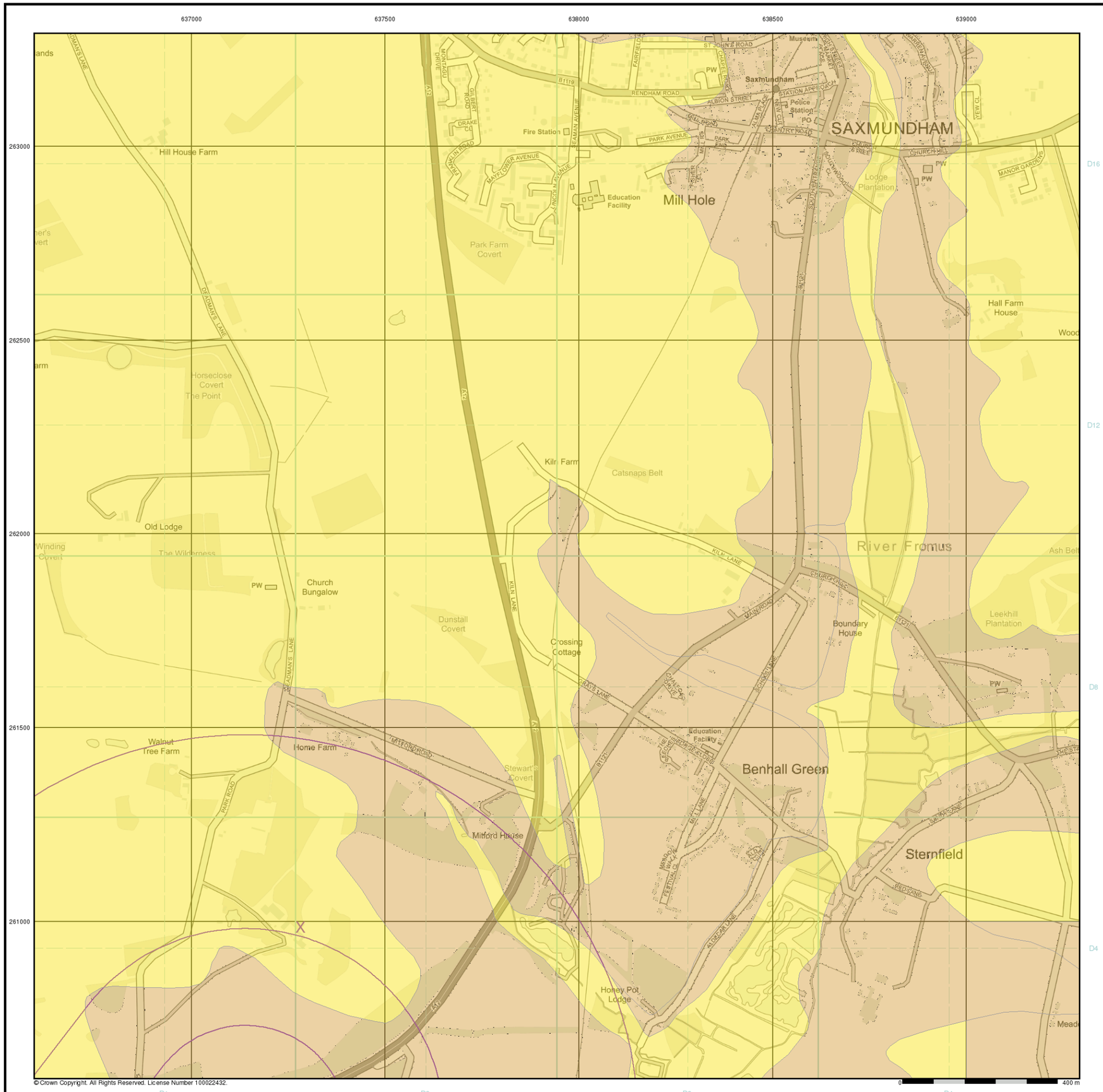

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General

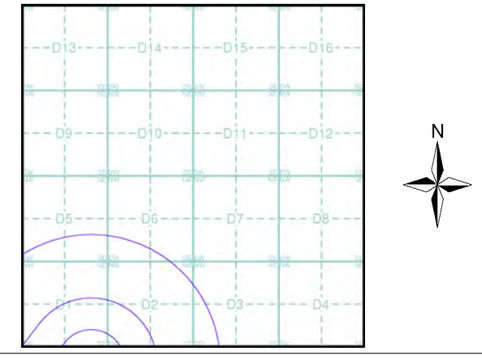
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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 D



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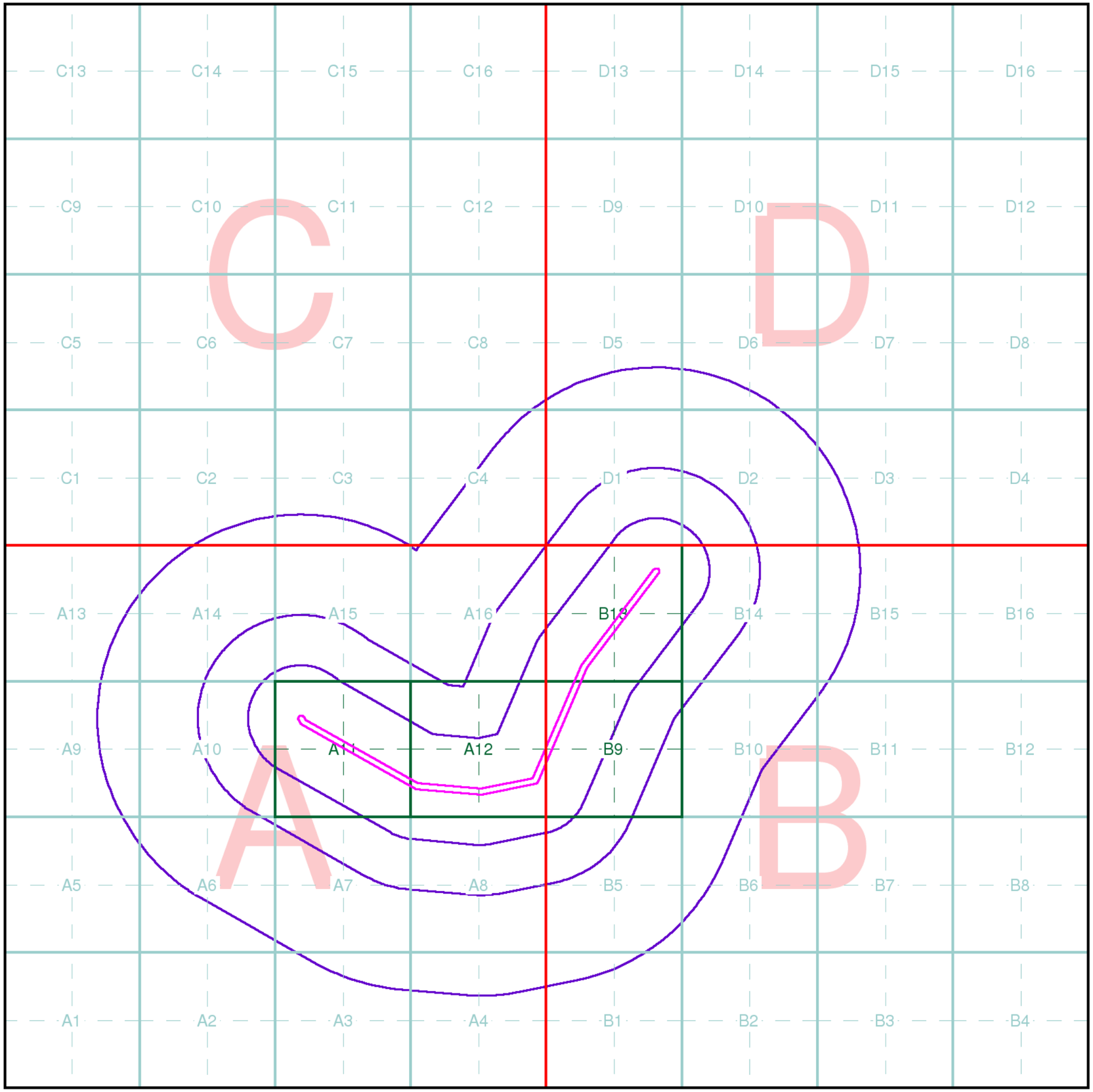

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Index Map

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:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Prepared For
Atkins Ltd

Client Details
Mr J Adley, Atkins Ltd, The Hub 500 Park Avenue, Aztec West, Almondsbury, Bristol, BS32 4RZ

Order Details

Order Number:	199915699_1_1
Customer Ref:	5166065
National Grid Reference:	636360, 259720
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http://www.landmarkinfo.co.uk/Terms/Show/515

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Appendix C. BGS Borehole Logs

TM 35NE/32

DA 30 Tm 35 NE 3543 5974 c. 11.5m

Em 31 reading

0-0.30	Topsoil	Sand, greybrown, sandy silty with scattered pebbles.
0.30-0.50	?Head	Gravel, angular to subangular flints up to 6 cm diameter in a very poorly sorted clayey sand matrix.
0.50-0.70	'Glacial Sand and Gravel' FGIG	Sand, greyish orange fine to medium grained (fSL-mSL), poorly sorted with some coarser grains; interbanded with coarse sand and pebbly layers; pebbles of angular to subangular flint to 2 cm diameter.
0.70-1.20	"	Sand, greyish orange, fine to medium grained (fSU-mSL) moderately sorted but with very slight fines bind and scattered granules and small angular to subangular flint chips and pebbles to 1 cm. diameter; between 1.00 and 1.15 is gravelly with pebbles of subrounded and subangular flint up to 6 cm diameter.
1.20-1.60	"	Sand, orange-yellow, fine-grained (fSL-fSU), moderately sorted with a few scattered flint chips and small pebbles; coarsens downwards to fine to medium grained (fSU-mSU) moderately sorted without pebbles at c. 1.40; sharp base is colour change.
1.60-1.65	"	Sand, fine-grained (fSL-fSU), moderately sorted; brown-black, very deeply stained; gradational base is colour change.
1.65-	"	Sand, pale orange-yellow, fine to medium grained (fSL-mSU), moderately to poorly sorted, fines-free; downwards

TM 35 NE/32

3543.5974

becomes fine-grained (fSL-fSU), moderately to well sorted; from 2.0 coarsens downwards to fine to medium grained (fSL-fSU), moderately sorted

2.20-2.30 'Glacial Sand and Gravel' © IGSG.

Sand, gravelly, fine to coarse grained, poorly sorted with chips and pebbles of angular to subangular flint to 4 cm diameter; becomes very gravelly downwards (hole terminated)

Appendix D. Zetica UXO Map

REGIONAL UNEXPLODED BOMB RISK

SUFFOLK

DENSITY OF BOMBS PER BOROUGH

Borough	High explosive	Anti-personnel	Incendiary
Aldeburgh	122	0	1
Bungay	31	0	0
Bury St Edmunds	32	0	1
Felixstowe	181	0	0
Ipswich	316	2	24
Leiston cum Sisswel	83	0	0
Lowerstoft	528	6	15
Newmarket	72	0	1
Southwold	51	2	7
Woodbridge	34	0	0

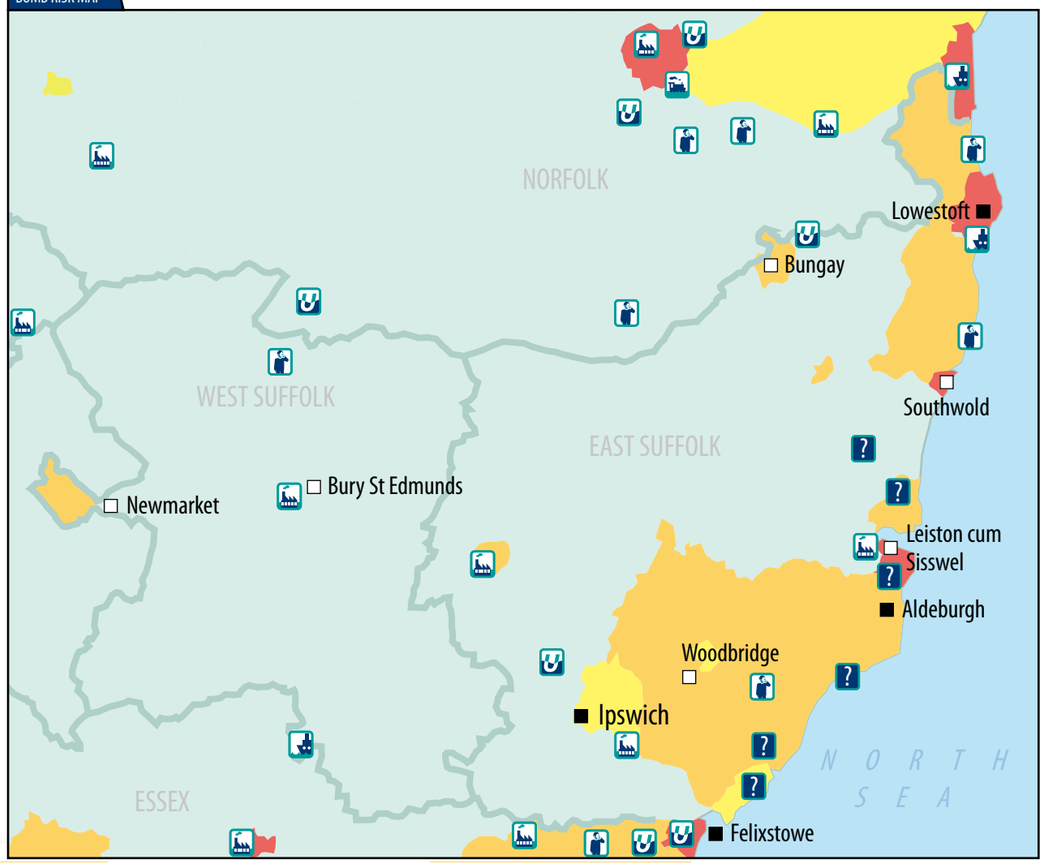
On average, 10% of high explosive and 50% of incendiary bombs failed to explode.

OTHER WWII TARGETS
- military
- transport
- utilities
- industry
- docks
- other

BOMB TONNAGE
- >1000
- >500
- >100
- >0
- unverified

BOMB RISK
- high
- moderate
- low

BOMB RISK MAP



The information in this regional UXB risk map is derived from a number of sources and should be read in conjunction with the "Users' Guide" (printed overleaf). Zetica cannot guarantee the accuracy or completeness of the information or data.

This map covers regions of coast with beaches, estuaries and alike. Further consideration of the bomb risk is required in these areas. The often inaccessible nature and changing ground conditions (e.g. movement of silt that may contain ordnance) means that historical bombing records for these areas are often poor or inaccurate and further assessment of the bomb risk may be required as part of a site specific study.

A FOUR-STEP PROCESS

Risk assessment and method statement from a qualified explosive ordnance clearance (EOC) operative.

Surface geophysical survey to allow shallow groundwork.

MAGCONE detects UXBs and obstructions on piling layout to the no-risk depth.

Detected UXBs can be dealt with by our EOC engineers and a Clearance Certificate issued for the site.

BOMB MAP USERS' GUIDE

Sources of information and explanation of bomb risk

Why?

Unexploded bombs (UXB) still present a risk to construction projects long after the end of the Second World War (WWII). UXBs often entered the ground unnoticed at high velocity and penetrated to a depth of several metres. Here they remain – vulnerable to disturbances from construction work. Beyond the depth of shallow excavation work, the greatest risk is to piling, drilling and probing crews. A piling rig could repeatedly hit a UXBs with considerable force before the crew realises an obstruction has been impacted. It could then be up to 72 hours before the detonator activates.

Who?

The responsibility for avoiding UXB risk usually lies with construction companies or house builders particularly those who are redeveloping urban sites. In addition, project engineering or environmental consultants are expected to advise their clients of a site's history. Other interested parties include those organisations whose employees are physically at most risk from intrusive works, normally piling companies, drillers or probing operators.

How?

UXB risk should be assessed for every site, but especially those in known heavily bombed areas or those situated near war-time strategic installations that were priority targets for enemy aircraft, for example, airfields. Zetica's regional bomb risk map is therefore a first point of reference from which the relative, potential abundance of UXBs can be judged. Consultants then advise their clients that an ordnance-risk desk study is required, which they may obtain from external sources. Construction companies or house builders who assess their own risk could choose to come direct to Zetica.

When?

Do not wait for the piling or drilling company to be on site before thinking about UXB risk – it will inevitably cause delays and higher costs. Request the regional bomb risk map from Zetica as soon as a site is being considered, and then use it to help you or your clients to decide if an ordnance-risk desk study is required.

Where?

Maps can be obtained for any county in England, Scotland, Wales or Northern Ireland – or for any London borough. They can help determine the areas that were most heavily bombed – but no part of the country should be considered 100% safe from UXB risk. Even remote rural areas can have a high risk if, for example, they were locations for decoy airfields or beacons that were lit to fool enemy pilots into thinking they had located a burning city that had been successfully hit by others in the raid.

How to use this regional map

This map is designed to give you an indication of the potential risk from UXBs in your area. If you are conducting work that involves excavation, piling or other disturbance of the ground, then you should use the map to identify the category of risk for your site.

The risk boundaries are a guide, compiled from data based on the political areas for which records are held; being just outside a high-risk area does not mean there is no UXB risk. You should use the map to assist in your decision of whether to investigate the UXB risk further.

Information on the regional risk remaining from UXBs in the UK

Zetica has built the largest UXB database of its kind in the UK. It includes a unique digital library of bomb census data, and maps showing key strategic points and bombing densities from the First and Second World Wars. The main sources of information include records from central government (Public Records Office), the Ministry of Defence, and the German Luftwaffe.

Using information from this database, Zetica has published maps of UXB risk on a regional, county and borough scale. The maps indicate relative degrees of UXB risk based on available records for bombing densities and known targeted areas for regions within the UK. The risk is broken down into individual boroughs, towns or cities. The data are based on the historical boroughs and are then overlaid onto the modern map. It is important to note that more-detailed research may be required for individual sites, particularly where proximity to a potential WWII target means the local risk may be higher.

High risk

Areas designated as high risk are those that show a high density of bombing hits (50+ bombs per 1000 acres) and abundant potential WWII targets. In high-risk regions, further action to mitigate UXB risk is considered essential.

Moderate risk

Moderate-risk regions are those that show a bomb density of between 11 and 50 bombs per 1000 acres and that may contain potential WWII targets. Action to mitigate the risk is considered essential, albeit more likely that a reduced scope of work is required compared with that needed for high-risk regions.

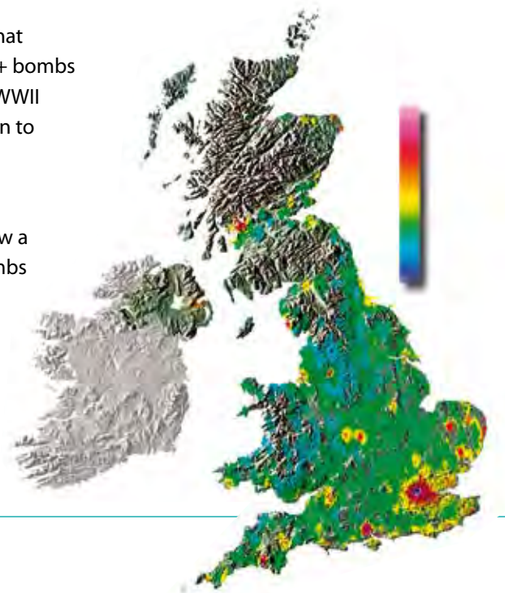
Low risk

Low-risk regions are those with a bombing density of up to 10 bombs per 1000 acres. These areas are considered to have a significant but low UXB risk. In general, further action to mitigate the risk is considered prudent, although not essential. Care is required when assessing the risk for specific sites where the risk may be higher because of local wartime activity.

Other WWII targets

Other regions with the risk of UXBs are key strategic points as defined by the government during WWII as representing potential enemy targets. Where these exist outside areas mapped as high, moderate or low risk, a site-specific assessment of the UXB risk may be required.

Relative UXB risk across UK



What to do if…

…you have a site that has a potential UXB risk

In the absence of current legislation requiring you to address the risk from UXBs, your responsibilities under health and safety legislation and regulations such as construction design and management require that you address all identified risks. The first stage is to request further advice from a professional adviser such as Zetica, or to gain more site-specific information by commissioning an ordnance-risk desk study. Then a strategy to deal with the risk can be established that is tailored to your proposed work.

…you find a suspect item or require advice

If during site works you find a suspect (ordnance-related) item, it is very important that you do not touch or move it (even if it has already been moved by an excavator). If it is clearly ordnance related, then dial 999 and ask for the police. Ensure that the area around the item is kept as clear as possible without placing yourself at risk. If you are unsure and do not wish to cause undue alarm, or you just require some advice, then you can call Zetica. We have experienced qualified UXB specialists on hand who can offer support and advice during any site works.

More-detailed procedures should be established in advance if you are in an area where the risk of finding a UXB is shown to be significant (moderate to high).

Site-specific desktop studies

Zetica is able to provide high-quality, site-specific UXB risk information for any residential, industrial or commercial property in the UK. These desktop studies provide details of the bombing density within an area and for the site itself, in order to indicate the risks of UXBs still being present. A risk assessment is provided to facilitate informed decision making on whether any further risk mitigation measures are required.

UNEXPLODED BOMB RISK MAP

SITE LOCATION

Map Centre: 636379,259574

LEGEND

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

miltary	**industry**	**UXO find**
transport	**dock**	**Luftwaffe targets**
utilities	**Bombing decoy**	**other**

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

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

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

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

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

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

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

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

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

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

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

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

If I have any questions, who do I contact?

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

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

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

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

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

Appendix E. Definitions of Probability and Consequence

Table E.1 - Risk estimation - classification of probability

Classification	Definition of the probability of harm / pollution occurring
High Likelihood	The contaminant linkage exists and it is very likely to result in harm / pollution in the short term, and/or will almost inevitably result in harm / pollution in the long term, and/or there is current evidence of harm/pollution. Likelihood is defined as more likely than not and meets the definition of 'significant possibility' within Part 2A Contaminated Land Statutory Guidance.
Likely	The source, pathway and receptor exist for the contaminant linkage and it is probable that harm / pollution will occur. Circumstances are such that harm / pollution is not inevitable, but possible in the short term and likely over the long term. Likelihood is defined as reasonably possible and meets the definition of 'significant possibility' within Part 2A Contaminated Land Statutory Guidance.
Low Likelihood	The source, pathway and receptor exist and it is possible that harm / pollution could occur. Circumstances are such that harm/pollution is by no means certain in the long term and less likely in the short term.
Unlikely	The source, pathway and receptor exist for the contaminant linkage but it is improbable that harm / pollution will occur even in the long term.

Table E.2 - Risk estimation - classification of consequence

Classification	Definition of consequence
Human Health Receptors – Site end user or other sensitive receptor	
Severe	Acute damage to human health based on the effects on the critical human receptor. Concentrations of contaminants above appropriate site specific assessment criteria. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Medium	Chronic damage to human health based on the effects on the critical human receptor. Concentrations of contaminants above appropriate site specific assessment criteria. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Mild	No appreciable impact on human health based on the potential effects on the critical human receptor. Concentrations of contaminants above generic assessment criteria but below appropriate site specific assessment criteria.
Minor	No appreciable impact on human health based on the effects on the critical human receptor. Concentrations of contaminants below appropriate generic assessment criteria.
Human Health Receptors – Site construction workers	
Severe	Exposure to hazardous substances resulting in a reportable death, major injury, 3-day injury or illness/disease under RIDDOR.
Medium	Exposure to hazardous substances resulting in a dangerous occurrence reportable under RIDDOR. Exposure to hazardous substances resulting in exceedance of a workplace exposure limit.
Mild	Exposure to hazardous substances resulting in limited effects such as headache, dizziness, nausea. Exposures below the workplace exposure limits. Not reportable under RIDDOR.

Classification	Definition of consequence
Minor	Minor exposure to hazardous substance resulting in no appreciable ill health effects.
Controlled Water Receptors	
Severe	Pollution of a Principal Aquifer within a source protection zone or potable supply characterised by a breach of drinking water standards. Pollution of a surface water course characterised by a breach of an Environmental Quality Standard (EQS) at a statutory monitoring location or resulting in a change in General Quality Assessment (GQA) grade of river reach. Discharge of a List I or List II substance to groundwater. Pollution meets Part 2A Contaminated Land Statutory Guidance definition.
Medium	Pollution of a Principal Aquifer outside a source protection zone or a Secondary A Aquifer characterised by a breach of drinking water standards. Pollution of an industrial groundwater abstraction or irrigation supply that impairs its function. Substantial pollution but insufficient to result in a change in the GQA grade of river reach Pollution meets Part 2A Contaminated Land Statutory Guidance definition.
Mild	Low levels of pollution of a Principal Aquifer outside a source protection zone or an industrial abstraction, or pollution of a Secondary Aquifer. Low levels of pollution insufficient to result in a change in the GQA grade of river reach, pollution of a surface water course without a quality classification.
Minor	No appreciable pollution, or pollution of a low sensitivity receptor such as a non-aquifer or a surface water course without a quality classification
Property Receptors – Buildings, Foundations and Services	
Severe	Catastrophic damage to buildings, such as explosion. Catastrophic failure of foundations and services. Substantial damage to a Scheduled Monument significantly impairing the by reason of which the monument is scheduled. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Medium	Substantial damage to buildings and foundations rendering the structures unsafe. Substantial damage to services impairing their function. Significant damage to a Scheduled Monument significantly impairing the reason of which the monument is scheduled. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Mild	Significant damage to buildings and foundations but not resulting in them being unsafe for occupation. Damage to services but not sufficient to impair their function. Damage to a Scheduled Monument but no significant impairment to the reason of which the monument is scheduled.
Minor	Easily repairable damage to buildings, foundations and services.
Property Receptors – Crops and Livestock and Ecological Receptors	
Severe	Substantial loss in the value of crops or domestically-grown produce. Death to livestock, domesticated animals or wild animals subject to shooting or fishing rights. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.
Medium	Substantial diminution in yield (over 20% reduction) of crops or domestically-grown produce. Serious disease or other serious physical damage to livestock, domesticated animals or wild animals subject to shooting or fishing rights. Harm meets definition of 'significant harm' within Part 2A Contaminated Land Statutory Guidance.

Classification	Definition of consequence
Mild	Harm to crops but not resulting in a substantial loss in value or diminution in yield (less than 20% reduction). Limited harm in terms of disease or other physical damage to livestock, domesticated animals or wild animals subject to shooting or fishing rights.
Minor	No appreciable harm, or harm to a low sensitivity receptor.

Appendix F. Site Visit Photographs

Atkins Limited
The Axis
10 Holliday Street
Birmingham
B1 1TF

Tel: +44 (0)121 483 5000
Fax: +44 (0)121 483 5252

Date: 20/03/19	Project: Sizewell C Site Walkover, Two Village Bypass
Comments View of the west of the site, looking north east from Parkgate Farm towards the A12.	

Date: 20/03/19	Project: Sizewell C Site Walkover, Two Village Bypass
Comments View of the central section of the site, looking east at Pond Barn Cottages.	

Date: 20/03/19	Project: Sizewell C Site Walkover, Two Village Bypass
Comments	
View of the east of the site looking south west from the A1094 at Friday Street Farm.	

VOLUME 5, CHAPTER 11, APPENDIX 11B: CONCEPTUAL SITE MODELS

Contents

Tables

Plates

None provided.

Figures

None provided.

1. Conceptual Site Models

Table 1.1: Construction phase conceptual site model.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
On-site: Made Ground associated with the construction of existing roads including the A12, A4109, unnamed road and tracks, and activities associated with their operation: Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for unmapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, polychlorinated biphenyls (PCB), asbestos, etc.	Human health: On-site.	Farmers and workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Low likelihood.	Mild	Low risk.	Receptor not present.	--	--	Intrusive ground investigation undertaken post planning to inform the detailed design and confirm the ground conditions and contamination status of the site including soil and groundwater sampling and monitoring. Remediation of soil and groundwater contamination prior to construction (e.g. source removal, treatment or capping) if deemed necessary.	Receptor not present.	--	--
		Construction / maintenance workers.		Receptor not present.	--	--	Low likelihood.	Mild	Low risk.		Unlikely	Mild	Very low risk.
		Pedestrians and road users using existing roads, footpaths and fields within the site.		Low likelihood.	Mild	Low risk.	Receptor not present.	--	--		Receptor not present.	--	--
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area.	Dermal contact with and ingestion of contaminants in soil-derived dusts and water that may have migrated off-site. Inhalation of soil-derived dust, fibres, gas and vapours which may have migrated off-site.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Very low risk.		Unlikely	Minor	Very low risk.
		Pedestrians accessing surrounding roads and footpaths.		Unlikely	Mild	Very low risk.	Low Likelihood.	Mild	Very low risk.		Unlikely	Minor	Very low risk.
		Farmers and workers on agricultural land.		Unlikely	Mild	Very low risk.	Low Likelihood.	Mild	Very low risk.		Unlikely	Minor	Very low risk.
	Controlled Waters.	Principal Bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Mild	Very low risk.
			Migration of contaminated water through preferential pathways such as	Unlikely	Medium	Low risk.	Low Likelihood.	Medium	Moderate / low risk.		Unlikely	Mild	Very low risk.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
			underground services, pipes and granular material to groundwater in underlying aquifers.										
		River Alde, surface drains / ponds and reservoir.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Minor	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Minor	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
	Property / services	Existing on-site and off-site services and structures (including listed buildings).	Direct contact of contaminants in soil and/or groundwater with buried services.	Unlikely	Minor	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very low risk.
		Proposed on-site services and structures.	Direct contact of contaminants in soil and/or groundwater with buried services.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
			Migration of contaminated groundwater, ground gas and/or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
		Crops and livestock (on-site).	Direct contact, ingestion, inhalation and uptake of soil and	Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
			water contamination by crops and / or livestock.										
		Crops and livestock (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.		Unlikely	Mild	Very low risk.
	Ecological	Foxburrow Wood Ancient Woodland (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.		Unlikely	Mild	Very low risk.
Off-site: Stratford Service Station located 490 meters (m) north-west. Organic contaminants including petroleum, petrol additives, diesel, oils / lubricants. Farms within surrounding area. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Made Ground associated with the disused sand pits located within 500m of the site.	Human health: On-site.	Pedestrians and road users using existing roads, footpaths and fields within the site.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and vapours.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--
		Construction / maintenance workers.		Receptor not present.	--	--	Low likelihood.	Mild	Low risk.		Unlikely	Mild	Very low risk.
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
		Farmers and workers on agricultural land.		Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--
	Controlled Waters.	Principal Bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Minor	Very low risk.
			Migration of contaminated water through preferential pathways such as	Unlikely	Medium	Low risk.	Low likelihood.	Medium	Moderate / low risk.		Unlikely	Minor	Very low risk.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline			Construction with Primary and Tertiary Mitigation.			Secondary Mitigation Measures.	Construction with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.		Probability	Consequence	Risk Category.
Farnham landfill located 360m to the east of the site: Ground gas and a range of inorganic and organic contaminants including the potential for asbestos. Former smithy 500m to the north of the site: A range of inorganic and organic contaminants including hydrocarbons, polycyclic aromatic hydrocarbons (PAH), metals and asbestos.			underground services, pipes and granular material to groundwater in underlying aquifers.										
		River Alde, surface drains / ponds and reservoir.	Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Low likelihood.	Mild	Low risk.		Unlikely	Minor	Very low risk.
	Property / services	Existing on-site services and structures.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very Low risk.	Low likelihood.	Minor	Very low risk.		Unlikely	Minor	Very Low risk.
		Proposed on-site services and structures.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Receptor not present.	--	--		Receptor not present.	--	--
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--		Receptor not present.	--	--

Table 1.2: Operation phase conceptual site model.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline			Operation with Primary and Tertiary Mitigation Assumed all Mitigation Proposed during Construction is Undertaken).			Operation with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.
On-site: Made Ground associated with the construction of existing roads including the A12, A4109, unnamed road and tracks, and activities associated with their operation: Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos.	Human health: On-site.	Farmers and workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Low likelihood.	Mild	Low risk.	Receptor not present.	--	--	Receptor not present.	--	--
		Construction / maintenance workers.		Receptor not present.	--	--	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Pedestrians and road users using existing roads, footpaths and fields within the site.		Low likelihood.	Mild	Low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	--	--	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
Farmland within site boundary. Potential for unmapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCB, asbestos, etc.	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area.	Dermal contact with and ingestion of contaminants in soil-derived dusts and water that may have migrated off-site. Inhalation of soil-derived dust, fibres, gas and vapours which may have migrated off-site.	Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Pedestrians accessing surrounding roads and footpaths.		Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Agricultural workers.		Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
	Controlled Waters.	Principal Bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching / migration of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline			Operation with Primary and Tertiary Mitigation Assumed all Mitigation Proposed during Construction is Undertaken).			Operation with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.
		River Alde, surface drains / ponds and reservoir.	Lateral migration of contaminated groundwater with discharge to surface watercourses as base flow.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
			Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
	Property / services	Existing on-site and off-site services and structures (including listed buildings).	Direct contact of contaminants in soil and / or groundwater with buried services.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
			Migration of contaminated groundwater, ground gas and / or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Proposed on-site services and structures associated with the bypass.	Direct contact of contaminants in soil and / or groundwater with buried services.	Receptor not present.	--	--	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
			Migration of contaminated groundwater, ground gas and/or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	--	--	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Crops and livestock (on-site).	Direct contact, ingestion, inhalation and uptake of soil and water contamination by crops and/or livestock.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Receptor not present.	--	--
		Crops and livestock (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very Low risk.	Unlikely	Mild	Very Low risk.
	Ecological	Foxburrow Wood Ancient Woodland (off-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by flora or ingestion / inhalation / dermal contact by fauna.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very Low risk.	Unlikely	Mild	Very Low risk.

Source	Pathway		Contaminant Exposure / Migration Pathway.	Baseline			Operation with Primary and Tertiary Mitigation Assumed all Mitigation Proposed during Construction is Undertaken).			Operation with Primary, Tertiary and Secondary Mitigation.		
				Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.	Probability	Consequence	Risk Category.
Off-site: Stratford Service Station located 490m north-west. Organic contaminants including petroleum, petrol additives, diesel, oils / lubricants. Farms within surrounding area. Potential for un-mapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCB, asbestos, etc. Made Ground associated with the disused sand pits located within 500m of the site. Farnham landfill located 360m to the east of the site: Ground gas and a range of inorganic and organic contaminants including the potential for asbestos. Former smithy 500m to the north of the site: A range of inorganic and organic contaminants including hydrocarbons, PAH, metals and asbestos.	Human health: On-site.	Pedestrians and road users using existing roads, footpaths and fields within the site.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas / vapours.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	--	--	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Construction / maintenance workers.		Receptor not present.	--	--	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		Farmers and workers on agricultural land.		Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Receptor not present.	--	--
	Controlled Waters.	Principal Bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching of contaminants in soil to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
			Migration of contaminated water through preferential pathways e.g. underground services, pipes and granular material to groundwater in underlying aquifers.	Unlikely	Medium	Low risk.	Unlikely	Mild	Very low risk.	Unlikely	Mild	Very low risk.
		River Alde, surface drains / ponds.	Discharge of contaminants entrained in groundwater and / or surface water run-off followed by overland flow and discharge.	Unlikely	Mild	Very low risk.	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
	Property / services	Existing on-site services and structures.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways.	Unlikely	Mild	Very Low risk.	Unlikely	Minor	Very Low risk.	Unlikely	Minor	Very Low risk.
		Proposed on-site services and structures.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways.	Receptor not present.	--	--	Unlikely	Minor	Very low risk.	Unlikely	Minor	Very low risk.
		Crops and livestock (on-site).	Migration of contaminated waters / dust / fibres and subsequent uptake by crops or ingestion / inhalation / dermal contact by livestock.	Unlikely	Mild	Very low risk.	Receptor not present.	--	--	Receptor not present.	--	--

VOLUME 5, CHAPTER 11, APPENDIX 11C: IMPACT ASSESSMENT TABLES

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None provided.

Figures

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1. Impact Assessment Tables

Table 1.1: Construction phase impact assessment.

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline (current) Risk Assessment.	Construction Phase Risk Assessment (with primary and tertiary mitigation measures).	Classification of Effect.	Secondary Mitigation Measures.	Construction Phase Risk Assessment (with primary, tertiary and secondary mitigation measures).	Classification of Effects.
On-site: Made Ground associated with the construction of existing roads including the A12, A4109, unnamed road and tracks, and activities associated with their operation: Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for unmapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, Polychlorinated Biphenyls (PCBs), asbestos, etc.	Human health: On-site.	Farmers and workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas/ vapours.	Low risk.	Receptor not present.	Negligible[1]	Intrusive ground investigation undertaken post planning to inform the detailed design and confirm the ground conditions and contamination status of the site including soil and groundwater sampling and monitoring. Remediation of soil and groundwater contamination prior to construction (e.g. source removal, treatment or capping) if deemed necessary.	Receptor not present.	Negligible[1]
		Construction/ maintenance workers.		Receptor not present.	Low risk.	Negligible[1]		Very low risk.	Negligible[2]
		Pedestrians and road users using existing roads, footpaths and fields within the site.		Low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area.	Dermal contact with and ingestion of contaminants in soil-derived dusts and water that may have migrated off-site. Inhalation of soil-derived dust, fibres, gas and vapours which may have migrated off-site.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
		Pedestrians accessing surrounding roads and footpaths.		Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
		Farmers and workers on agricultural land.		Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
	Controlled Waters.	Principal bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching/ migration of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Moderate/ low risk.	Minor adverse.		Very low risk.	Minor beneficial.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Moderate/ low risk.	Minor adverse.		Very low risk.	Minor beneficial.
		River Alde, surface drains/ ponds and	Lateral migration of contaminated	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible

[1] Introduction of this receptor at construction automatically triggers a minor adverse effect. However, professional judgement has been exercised and this effect has been reduced to negligible.

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline (current) Risk Assessment.	Construction Phase Risk Assessment (with primary and tertiary mitigation measures).	Classification of Effect.	Secondary Mitigation Measures.	Construction Phase Risk Assessment (with primary, tertiary and secondary mitigation measures).	Classification of Effects.
		reservoir.	groundwater with discharge to surface watercourses as base flow.						
			Discharge of contaminants entrained in groundwater and/ or surface water run-off followed by overland flow and discharge.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
	Property/ services.	Existing on-site and off-site services and structures (including listed buildings).	Direct contact of contaminants in soil and/ or groundwater with buried services.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
			Migration of contaminated groundwater, ground gas and/ or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
		Proposed on-site services and structures associated with the bypass.	Direct contact of contaminants in soil and/ or groundwater with buried services.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
			Migration of contaminated groundwater, ground gas and/ or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
		Crops and livestock (on-site).	Direct contact, ingestion, inhalation and uptake of soil and water contamination by crops and/ or livestock.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Crops and livestock (off-site).	Migration of contaminated waters/ dust/ fibres and subsequent uptake by crops or ingestion/ inhalation/ dermal contact by livestock.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline (current) Risk Assessment.	Construction Phase Risk Assessment (with primary and tertiary mitigation measures).	Classification of Effect.	Secondary Mitigation Measures.	Construction Phase Risk Assessment (with primary, tertiary and secondary mitigation measures).	Classification of Effects.
	Ecological	Foxburrow Wood ancient woodland (off-site).	Migration of contaminated waters/ dust/ fibres and subsequent uptake by flora or ingestion/ inhalation/ dermal contact by fauna.	Very low risk.	Very low risk.	Negligible		Very low risk.	Negligible
Off-site: Stratford service station located 490 metres (m) north-west. Organic contaminants including petroleum, petrol additives, diesel, oils/ lubricants. Farms within surrounding area. Potential for unmapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Made Ground associated with the disused sand pits located within 500m of the site. Farnham landfill located 360m to the east of the site: Ground gas and a range of inorganic and organic contaminants including the potential for asbestos. Former smithy 500m to the north of the site: A range of inorganic and organic contaminants including hydrocarbons, Polycyclic Aromatic Hydrocarbons (PAHs), metals and asbestos.	Human health: On-site.	Pedestrians and road users using existing roads, footpaths and fields within the site.	Dermal contact with and ingestion of contaminants in soil-derived dust and water. Inhalation of contaminants in soil-derived dust, fibres and gas/ vapours.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
		Construction/ maintenance workers.		Receptor not present.	Low risk.	Negligible[2]		Very low risk.	Negligible[2]
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
		Farmers and workers on agricultural land.		Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]
	Controlled Waters.	Principal bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Moderate/ low risk.	Minor adverse.		Very low risk.	Minor beneficial.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Moderate/ low risk.	Minor adverse.		Very low risk.	Minor beneficial.
		River Alde, surface drains/ ponds and reservoir.	Discharge of contaminants entrained in groundwater and/ or surface water run-off followed by overland flow and discharge.	Very low risk.	Low risk.	Minor adverse.		Very low risk.	Negligible
	Property/ services.	Existing on-site services and structures.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very Low risk.	Very Low risk.	Negligible		Very Low risk.	Negligible

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline (current) Risk Assessment.	Construction Phase Risk Assessment (with primary and tertiary mitigation measures).	Classification of Effect.	Secondary Mitigation Measures.	Construction Phase Risk Assessment (with primary, tertiary and secondary mitigation measures).	Classification of Effects.
		Proposed on-site services and structures associated with the bypass.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Receptor not present.	Negligible		Receptor not present.	Negligible
		Crops and livestock (on-site).	Migration of contaminated waters/ dust/ fibres and subsequent uptake by crops or ingestion/ inhalation/ dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[1]		Receptor not present.	Negligible[1]

Table 1.2: Operational phase impact assessment.

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline (current) Risk Assessment.	Operation Phase Risk Assessment (with primary and tertiary mitigation measures assuming all mitigation proposed during construction is undertaken).	Classification of Effect.	Operational Phase Risk Assessment (with primary, tertiary and secondary mitigation measures).	Residual Effects.
On-site: Made Ground associated with the construction of existing roads including the A12, A4109, unnamed road and tracks, and activities associated with their operation: Fuels and oils attributed to spills from vehicles on the roads included within the site boundary, plus exhaust particulates. A range of inorganic and organic contaminants including the potential for asbestos. Farmland within site boundary. Potential for unmapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc.	Human health: On-site.	Farmers and workers on agricultural land.	Dermal contact with and ingestion of contaminants in soil, soil-derived dust and water. Inhalation of contaminants in soil, soil-derived dust, fibres and gas/ vapours.	Low risk.	Receptor not present.	Negligible[2]	Receptor not present.	Negligible[3]
		Construction/ maintenance workers.		Receptor not present.	Very low risk.	Negligible[2]	Very low risk.	Negligible[2]
		Pedestrians and road users using existing roads, footpaths and fields within the site.		Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	Very low risk.	Negligible[3]	Very low risk.	Negligible[4]
	Human health: Off-site.	Occupants of residential and commercial properties in the surrounding area.	Dermal contact with and ingestion of contaminants in soil-derived dusts and water that may have migrated off-site. Inhalation of soil-derived dust, fibres, gas and vapours which may have migrated off-site.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Pedestrians accessing surrounding roads and footpaths.		Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Farmers and workers on agricultural land.		Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Controlled Waters.	Principal bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching/ migration of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.
		River Alde, surface drains/ ponds and	Lateral migration of contaminated groundwater with discharge to surface	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible

[2] Removal of this receptor at operation automatically triggers a minor beneficial effect. However, professional judgement has been exercised and this effect has been reduced to negligible.
[3] Introduction of this receptor at operation automatically triggers a minor beneficial effect. However, professional judgement has been exercised and this effect has been reduced to negligible.

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline (current) Risk Assessment.	Operation Phase Risk Assessment (with primary and tertiary mitigation measures assuming all mitigation proposed during construction is undertaken).	Classification of Effect.	Operational Phase Risk Assessment (with primary, tertiary and secondary mitigation measures).	Residual Effects.
		reservoir.	watercourses as base flow.					
			Discharge of contaminants entrained in groundwater and/ or surface water run-off followed by overland flow and discharge.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Property/ services	Existing on-site and off-site services and structures (including listed buildings).	Direct contact of contaminants in soil and/ or groundwater with buried services.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
			Migration of contaminated groundwater, ground gas and/ or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Proposed on-site services and structures associated with the bypass.	Direct contact of contaminants in soil and/ or groundwater with buried services.	Receptor not present.	Very low risk.	Negligible[4]	Very low risk.	Negligible
			Migration of contaminated groundwater, ground gas and/ or vapours along strata and preferential pathways such as service routes or differentially permeable strata.	Receptor not present.	Very low risk.	Negligible	Very low risk.	Negligible
		Crops and livestock (on-site).	Direct contact, ingestion, inhalation and uptake of soil and water contamination by crops and/ or livestock.	Very low risk.	Receptor not present.	Negligible[3]	Receptor not present.	Negligible[3]
		Crops and livestock (off-site).	Migration of contaminated waters/ dust/ fibres and subsequent uptake by crops or ingestion/ inhalation/ dermal contact by livestock.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Ecological	Foxburrow Wood Ancient Woodland (off-site).	Migration of contaminated waters/ dust/ fibres and subsequent uptake by flora or ingestion/ inhalation/ dermal contact by fauna.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
Off-site:	Human health: On-site.	Pedestrians and road users using existing roads, footpaths and	Dermal contact with and ingestion of contaminants in soil-derived dust and water.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible

Source	Receptor		Contaminant Exposure/ Migration Pathway.	Baseline (current) Risk Assessment.	Operation Phase Risk Assessment (with primary and tertiary mitigation measures assuming all mitigation proposed during construction is undertaken).	Classification of Effect.	Operational Phase Risk Assessment (with primary, tertiary and secondary mitigation measures).	Residual Effects.
Stratford Service Station located 490m north-west. Organic contaminants including petroleum, petrol additives, diesel, oils/ lubricants. Farms within surrounding area. Potential for unmapped farmers tips: Contamination risk from herbicides, pesticides, silage, effluent, and fuel oils. Risk of inorganic and organic contamination including metals and hydrocarbons, PCBs, asbestos, etc. Made Ground associated with the disused sand pits located within 500m of the site. Farnham landfill located 360m to the east of the site: Ground gas and a range of inorganic and organic contaminants including the potential for asbestos. Former smithy 500m to the north of the site: A range of inorganic and organic contaminants including hydrocarbons, PAHs, metals and asbestos.		fields within the site.	Inhalation of contaminants in soil-derived dust, fibres and gas/ vapours.					
		Pedestrians and road users using new road, crossings and footpaths.		Receptor not present.	Very low risk.	Negligible	Very low risk.	Negligible
		Construction/ maintenance workers.		Receptor not present.	Very low risk.	Negligible	Very low risk.	Negligible
		Farmers and workers on agricultural land.		Very low risk.	Receptor not present.	Negligible[3]	Receptor not present.	Negligible[3]
	Controlled Waters.	Principal bedrock, Secondary A Superficial aquifer and secondary undifferentiated aquifer.	Leaching of contaminants in soil to groundwater in underlying aquifers.	Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.
			Migration of contaminated water through preferential pathways such as underground services, pipes and granular material to groundwater in underlying aquifers.	Low risk.	Very low risk.	Minor beneficial.	Very low risk.	Minor beneficial.
		River Alde, surface drains/ ponds.	Discharge of contaminants entrained in groundwater and/ or surface water run-off followed by overland flow and discharge.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
	Property/ services.	Existing on-site services and structures.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways.	Very low risk.	Very low risk.	Negligible	Very low risk.	Negligible
		Proposed on-site services and structures associated with the bypass.	Migration of contaminated groundwater, gases and vapours along strata and preferential pathways.	Receptor not present.	Very low risk.	Negligible	Very low risk.	Negligible
		Crops and livestock (on-site).	Migration of contaminated waters/ dust/ fibres and subsequent uptake by crops or ingestion/ inhalation/ dermal contact by livestock.	Very low risk.	Receptor not present.	Negligible[3]	Receptor not present.	Negligible[3]