APPENDICES

APPENDIX A DESK STUDY DATA

APPENDIX A1
Geological Maps

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary
	HEAD	Head	Silt and Gravel	Quaternary - Quaternary
	HEAD	Head	Clay and Silt	Quaternary - Quaternary
	T4T5	River Terrace Deposits, 4 to 5	Sand and Gravel	Quaternary - Quaternary
	CWF	Clay-with-flints Formation	Clay, Silt, Sand and Gravel	Quaternary - Pliocene

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MACK	Margate Chalk Member	Chalk	Campanian - Santonian
	SECK	Seaford Chalk Formation	Chalk	Santonian - Coniacian
	LECH	Lewes Nodular Chalk Formation	Chalk	Coniacian - Turonian
	NPCH	New Pit Chalk Formation	Chalk	Turonian - Turonian
		Faults		

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Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

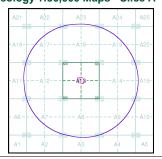
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: Map Sheet No: Map Name: Canterbury 1982 Map Date: Available Available Superficial Geology: Artificial Geology: Not Available

Not Supplied Landslip: Available Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A





Order Details:

Order Number: 145426731_1_1 Customer Reference: National Grid Reference: 620890, 149960 1.06

Site Area (Ha): Search Buffer (m): 1000

Site Details:

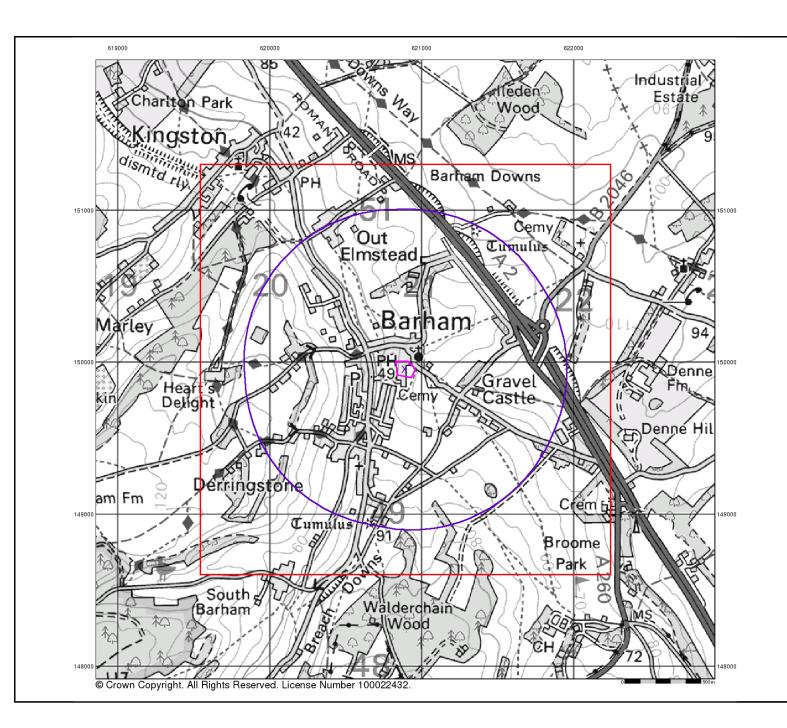
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Artificial Ground and Landslip

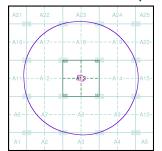
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground man-made deposits such as embankments and spoil heaps on the natural ground surface.
 Worked ground - areas where the ground has been cut away such as
- Worked ground areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground areas where the surface has been reshaped.
 Disturbed ground areas of ill-defined shallow or near surface mineral
- Disturbed ground areas of ill-defined shallow or near surface minera workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A





Order Details:

Order Number: 145426731_1_1
Customer Reference: 1044
National Grid Reference: 620890, 149960
Slice: A
Site Area (Ha): 1.06

Site Area (Ha): 1.06 Search Buffer (m): 1000

Site Details:

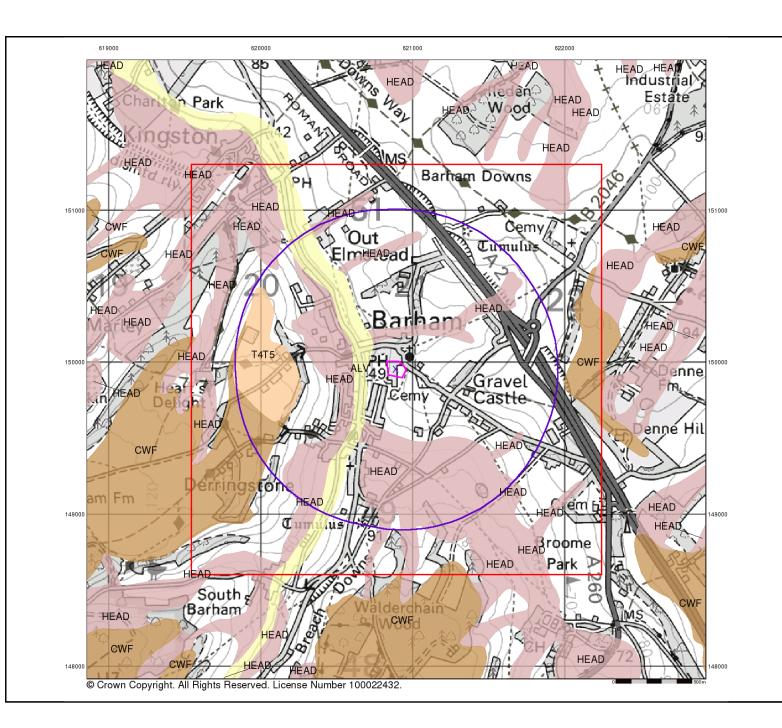
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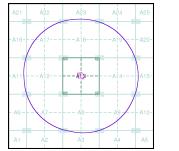
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

Order Number: Customer Reference: 145426731 1 1 National Grid Reference: 620890, 149960 A 1.06

Site Area (Ha): Search Buffer (m): 1000

Site Details:

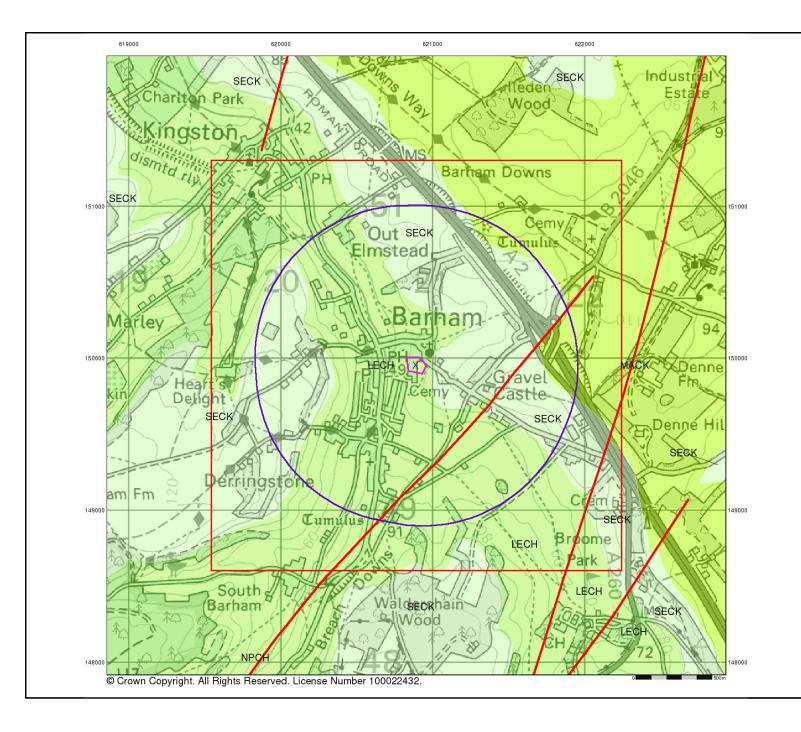
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Bedrock and Faults

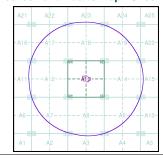
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A





Order Details:

Order Number: 145426731_1_1
Customer Reference: 1044
National Grid Reference: 620890, 149960
Slice: A
Site Area (Ha): 1.06
Search Buffer (m): 1000

Site Details:

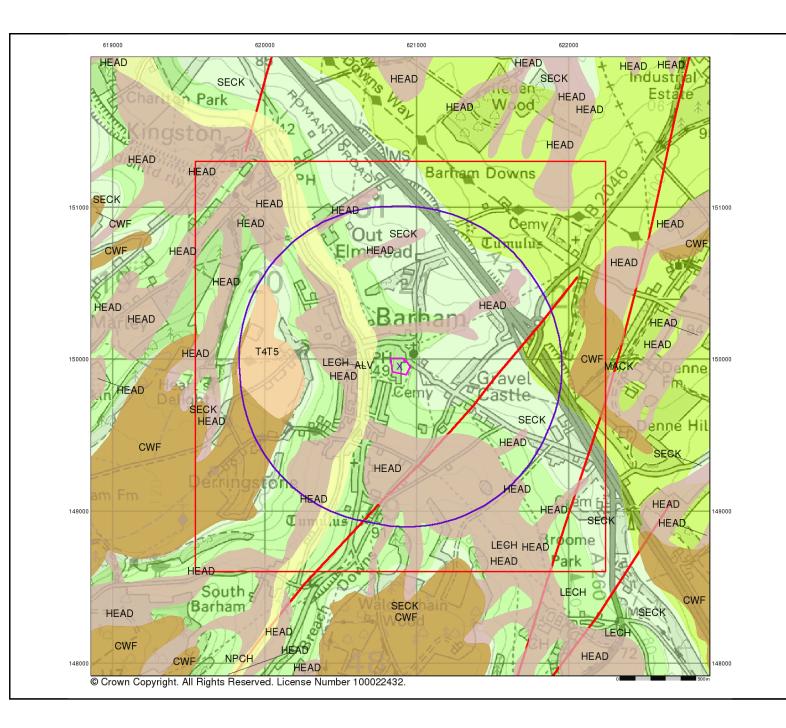
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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

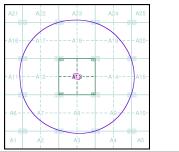
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey Kingsley Dunham Centre Keyworth Nottingham NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 email: enquiries@bgs.ac.uk website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 145426731_1_1
Customer Reference: 1044
National Grid Reference: 620890, 149960
Slice: A
Site Area (Ha): 1.06
Search Buffer (m): 1000

Site Details:

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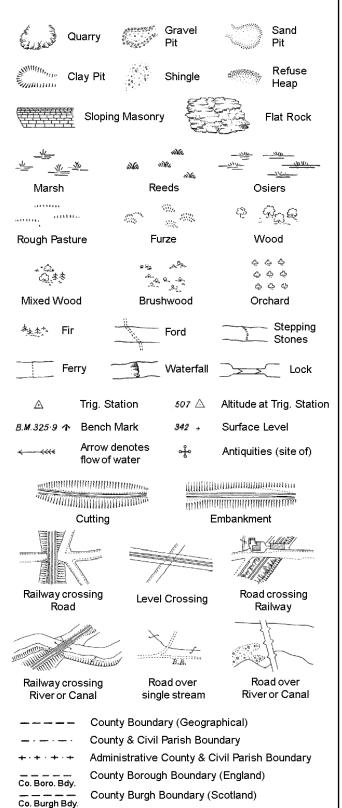
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APPENDIX A2 Selected Historical Maps

Historical Mapping Legends

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



B.R.

E.P

F.B.

Bridle Road

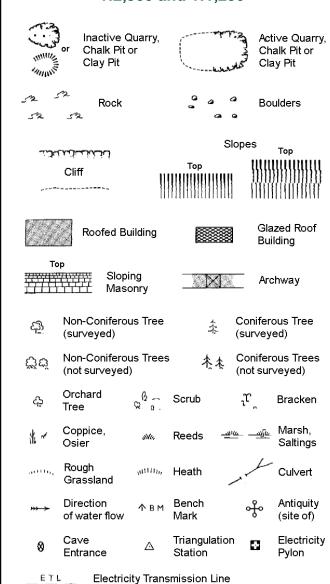
Foot Bridge

Mile Stone

M.P.M.R. Mooring Post or Ring

Electricity Pylor

Ordnance Survey Plan, Additional SIMs and Large-Scale National Grid Data 1:2,500 and **Supply of Unpublished Survey Information** 1:2,500 and 1:1,250



		Symbol mark nereing cha		where boundary
вн	Beer House		Р	Pillar, Pole or Post
BP, BS	Boundary Post	or Stone	PO	Post Office
Cn, C	Capstan, Crane		PC	Public Convenience
Chy	Chimney		PH	Public House
D Fn	Drinking Fount	ain	Pp	Pump
EIP	Electricity Pillar	or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar		SP, SL	Signal Post or Light
FB	Foot Bridge		Spr	Spring
GP	Guide Post		Tk	Tank or Track
Н	Hydrant or Hyd	raulic	TCB	Telephone Call Box
LC	Level Crossing		TCP	Telephone Call Post
MH	Manhole		Tr	Trough
MP	Mile Post or Mod	oring Post	WrPt, WrT	Water Point, Water Tap
MS	Mile Stone		W	Well

Wd Pp

Wind Pump

County Boundary (Geographical) County & Civil Parish Boundary

Admin. County or County Bor. Boundary

Civil Parish Boundary

London Borough Boundary

L B Bdy

NTL

Normal Tidal Limit

Police Call Box

Telephone Call Box

Signal Post

Pump

Sluice

Spring

Trough

Well

S.P

Sl.

 T_{T}

1:1,250

			SI	opes	
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					(((((((((
25	Rock		7,3	Rock (s	scattered)
\triangle	Boulders		0	Boulde	rs (scattered)
	Positioned	Boulder		Scree	
C 13	Non-Conif (surveyed	erous Tree)	\$	Conifer (surve)	rous Tree /ed)
C 3 C 1	Non-Conif (not surve	erous Trees yed)	* **		rous Trees rveyed)
£ 34	Orchard Tree	Q a.	Scrub	'n,	Bracken
	Coppice, Osier	siVis	Reeds 🛥	<u> 166 — 20</u> 56	Marsh, Saltings
	Rough Grassland	111111 ₁₁ ,	Heath	1	Culvert
),,, >	Direction of water flo	Δ ow	Triangulation Station	ું નું	Antiquity (site of)
E_TL	. Electric	ity Transmis	ssion Line	\boxtimes	Electricity Pylon
K/BM	291.6ûm E	Bench Mark	7		ngs with ng Seed
	Roofe	ed Building		251	Blazed Roof Building
		Civil narish	/community b	oundary	ı
		District box	=		•
			-		
_ ·		County bot	-		
٥		Boundary p			
٥			mereing symb pear in oppose		
Bks	Barracks		Р	Pillar, P	ole or Post
Bty	Battery		PO	Post Of	fice
Cemy	Cemetery		PC -		Convenience
Chy Cis	Chimney		Pp Pna Sta	Pump	a Station
Cis Dismtd Ri	Cistern Iv Disman	tled Railway	Ppg Sta PW		ig Station fWorship
El Gen St	•	ity Generating		pg Sta	Sewage Pumping Station
EIP		Pole, Pillar	SB, S Br		Box or Bridge
El Sub Sta	a Electricity	Sub Station	SP, SL		Post or Light
FB	Filter Bed		Spr	Spring	

Fn / D Fn Fountain / Drinking Ftn.

Gas Governer

Guide Post

Manhole

Gas Valve Compound

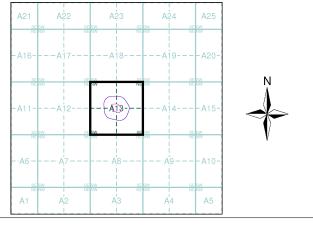
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Kent	1:2,500	1873	2
Kent	1:2,500	1898	3
Kent	1:2,500	1907	4
Kent	1:2,500	1937 - 1938	5
Ordnance Survey Plan	1:2,500	1957	6
Ordnance Survey Plan	1:2,500	1970 - 1971	7
Additional SIMs	1:2,500	1978 - 1980	8
Ordnance Survey Plan	1:2,500	1984	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:2,500	1993 - 1995	12
Large-Scale National Grid Data	1:2,500	1995	13
Large-Scale National Grid Data	1:2,500	1996	14

Historical Map - Segment A13



Order Details

Order Number: 145426731_1_1 Customer Ref: National Grid Reference: 620890, 149960 Slice: Α

Tank or Track

Trough

Wind Pump Wr Pt. Wr T Water Point, Water Tap

Works (building or area)

Tr

Wd Pp

Site Area (Ha): 1.06 Search Buffer (m): 100

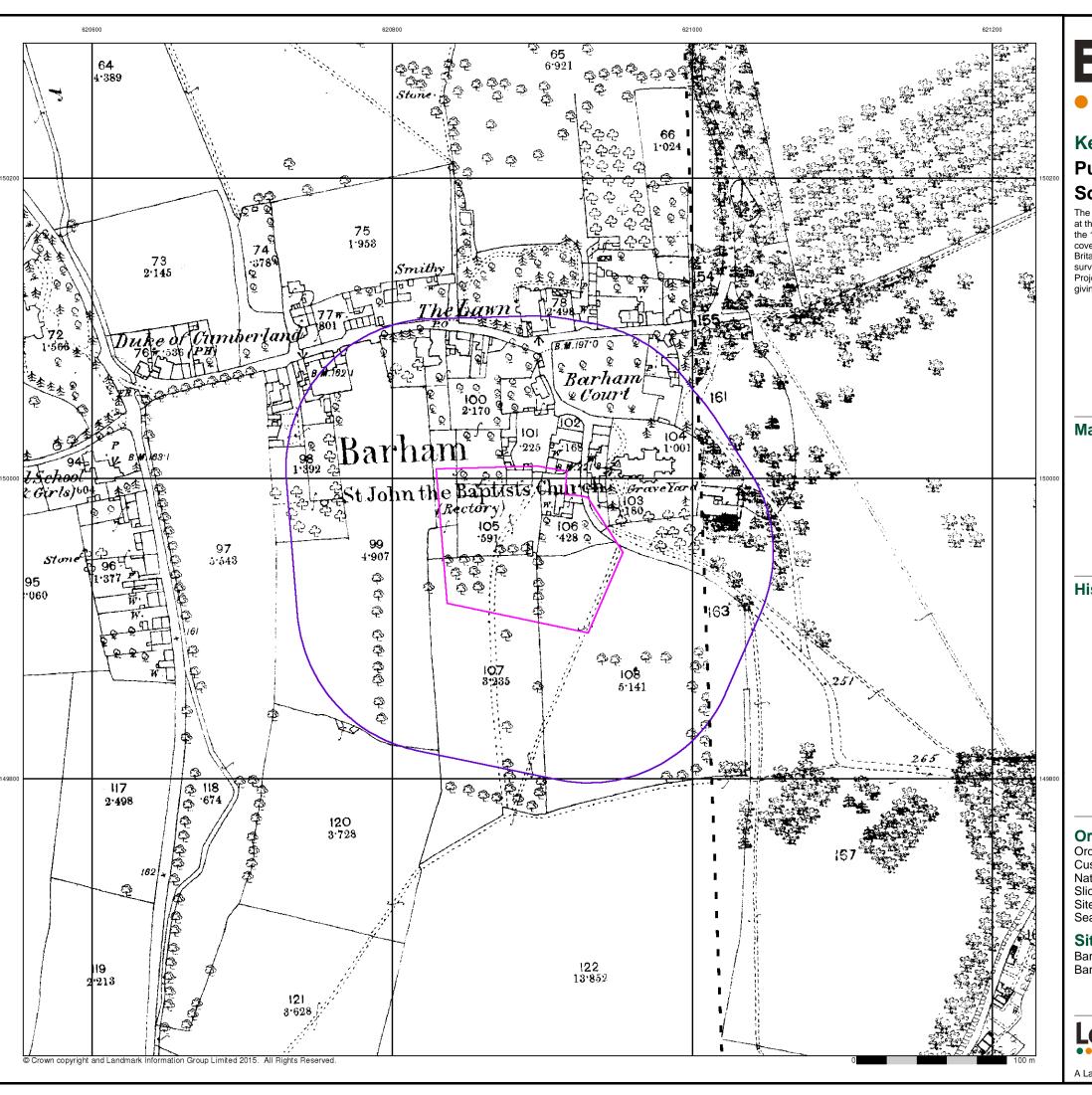
Site Details

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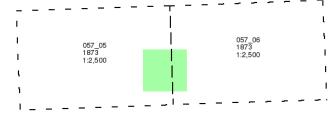
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Kent

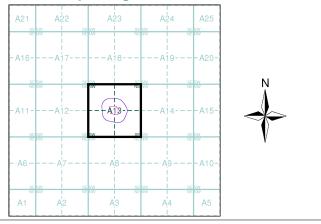
Published 1873 Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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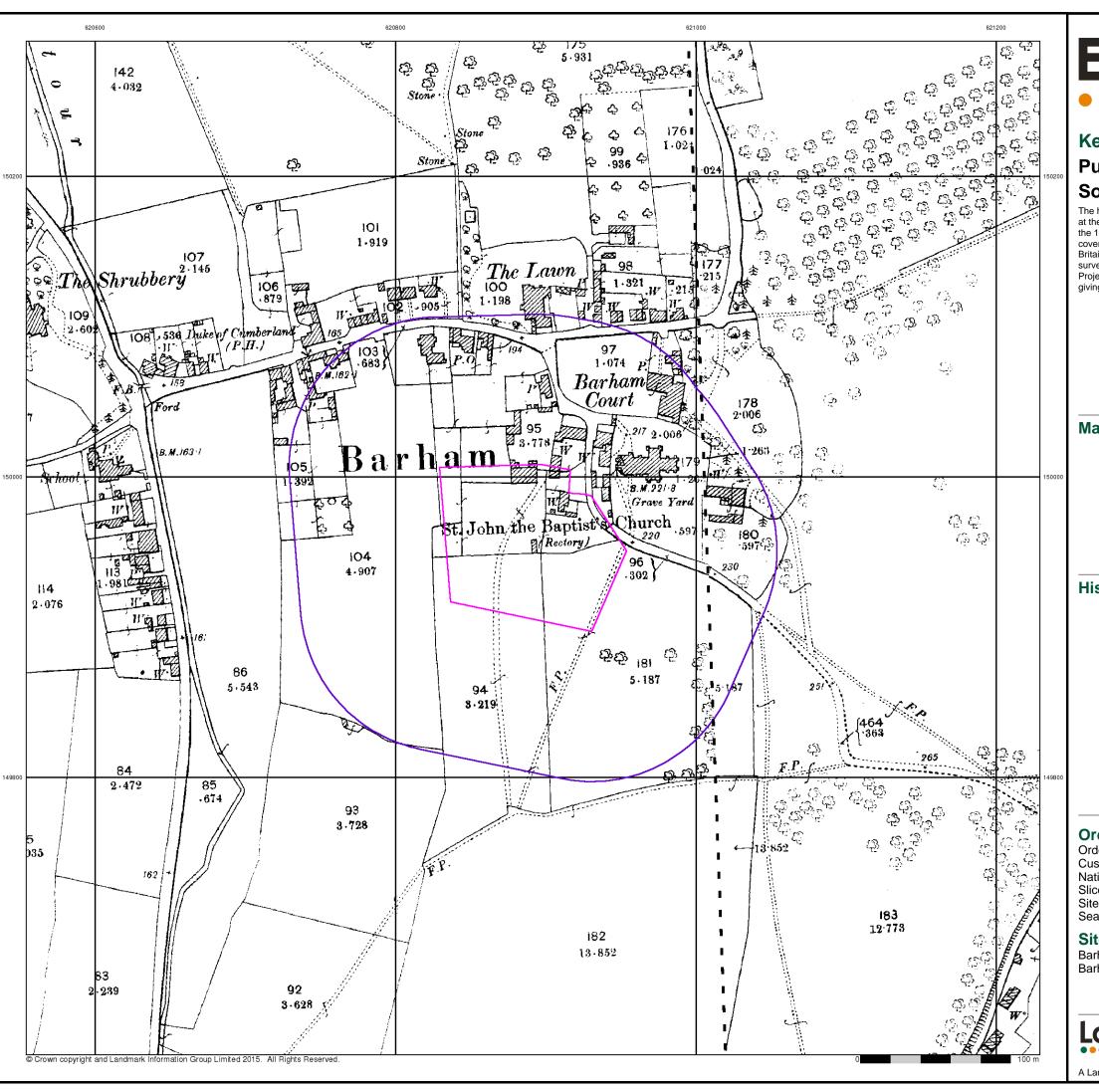
Site Details

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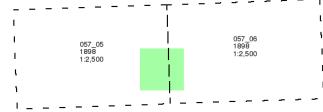
LANDMARK INFORMATION GROUP®

Kent

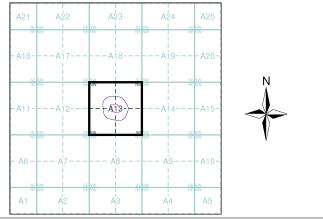
Published 1898 Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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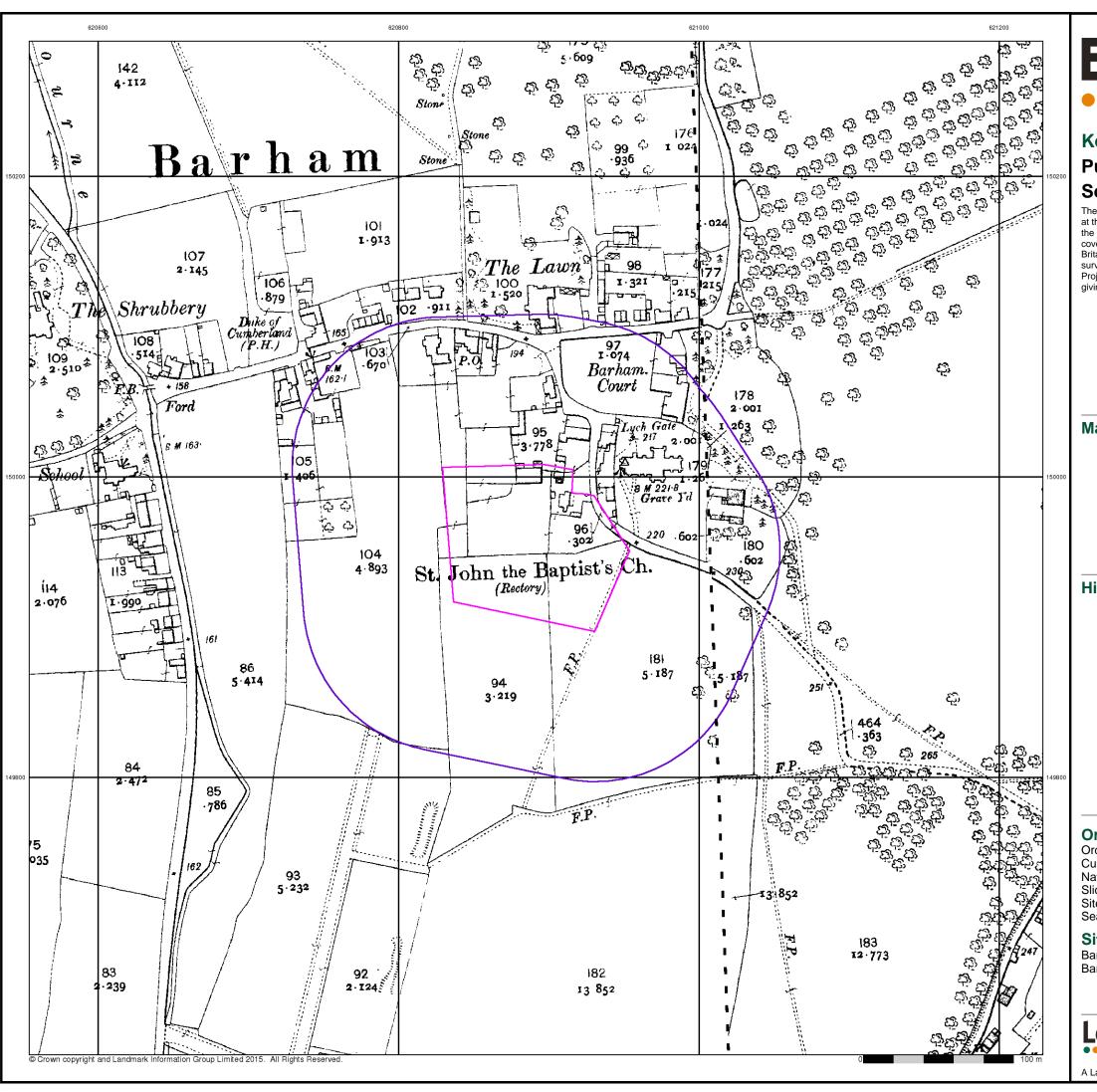
Site Details

Barham Court Farms, Barham Court Farm, Church Lane, Barham, CANTERBURY, CT4 6PB

Landmark

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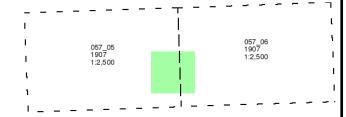
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Kent

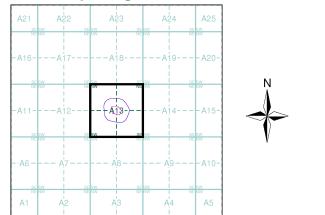
Published 1907 Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 145426731_1_1
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National Grid Reference: 620890, 149960
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Site Area (Ha): 1.06 Search Buffer (m): 100

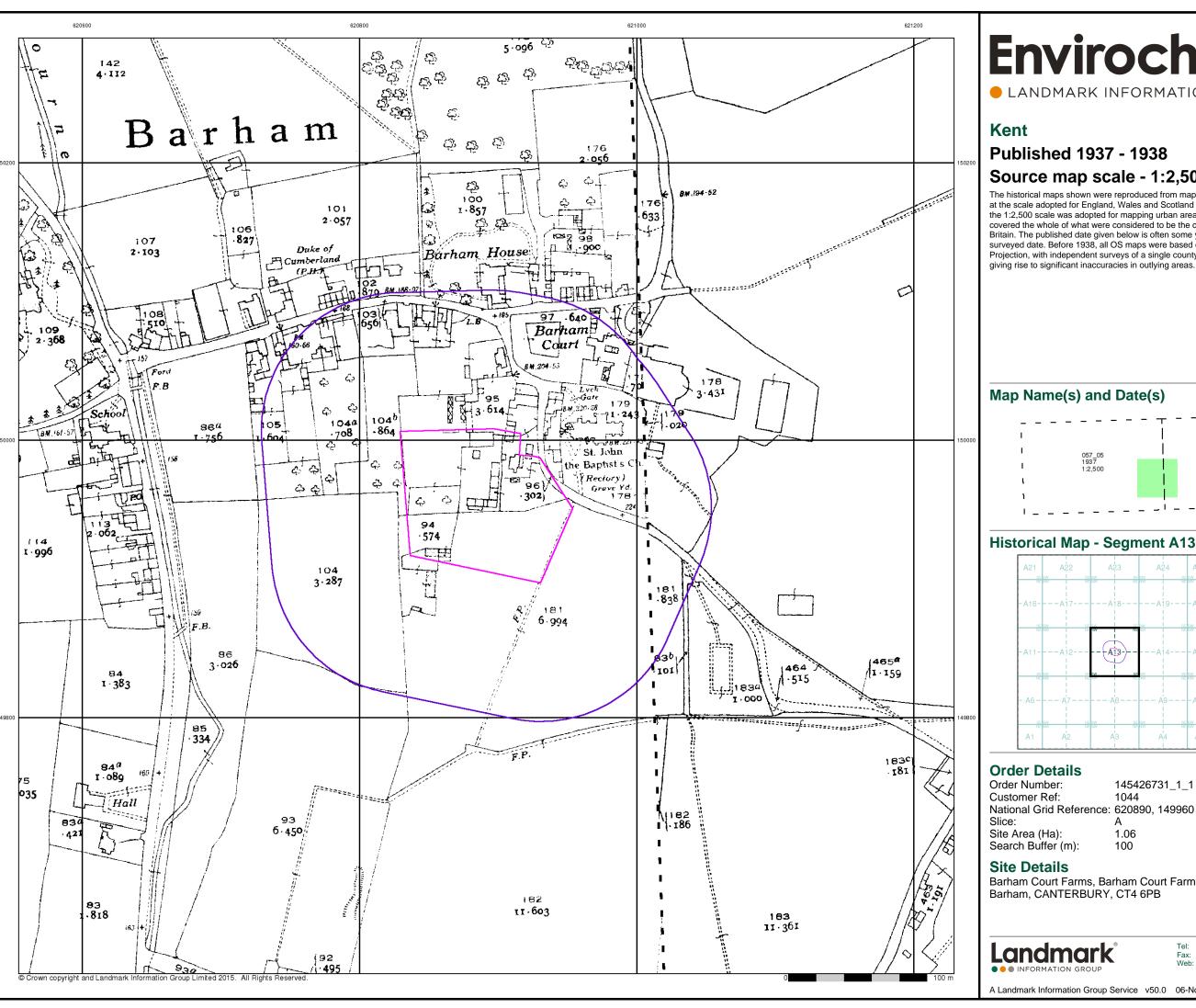
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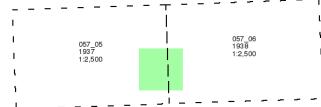


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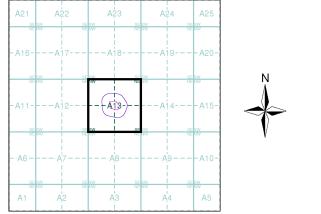
Published 1937 - 1938 Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



145426731_1_1

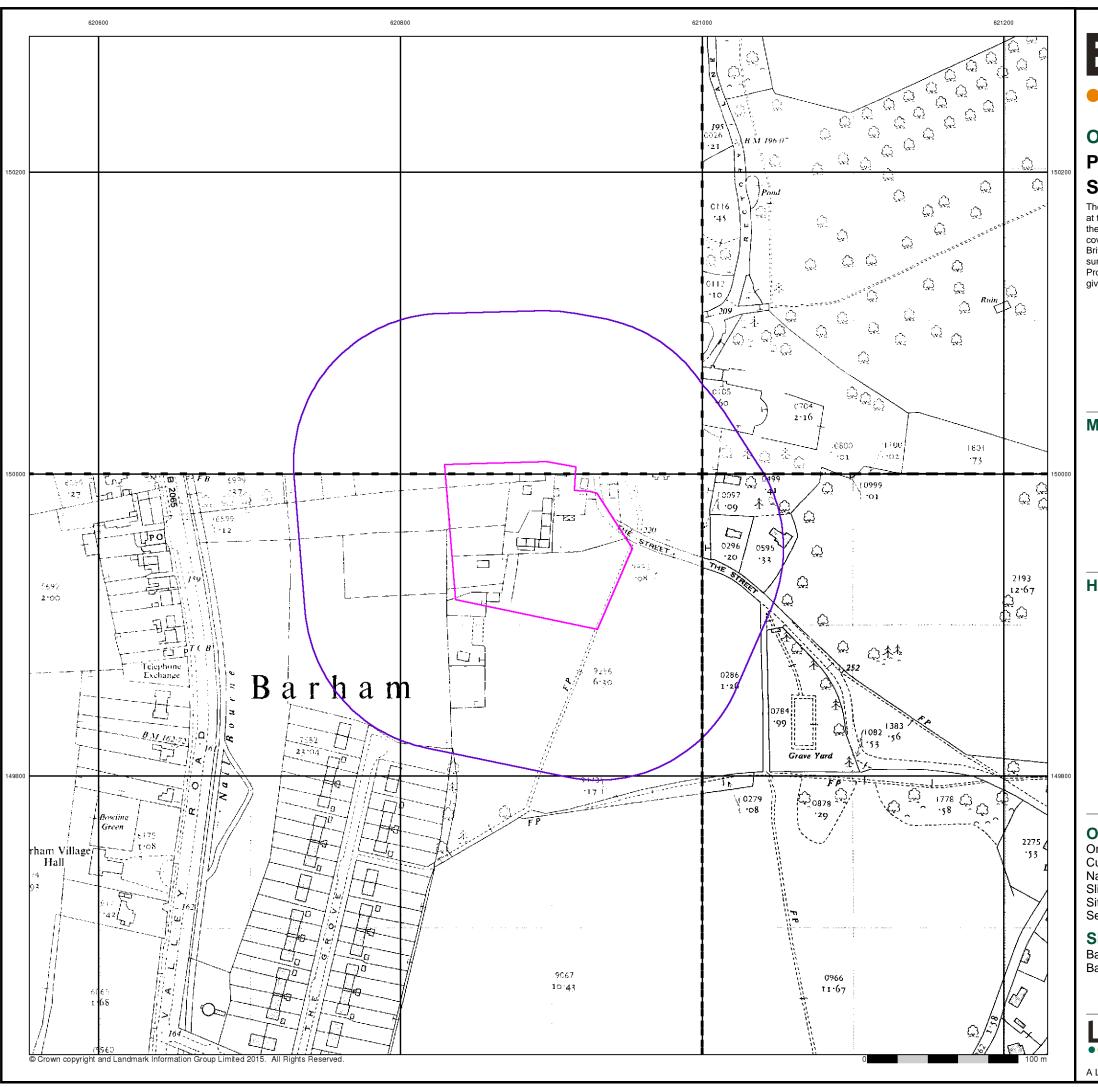
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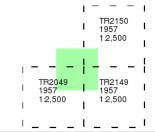
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Ordnance Survey Plan Published 1957

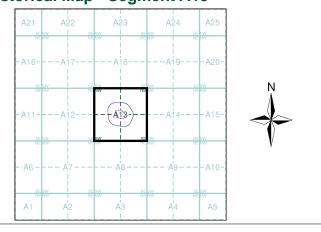
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 145426731_1_1
Customer Ref: 1044
National Grid Reference: 620890, 149960
Slice: A
Site Area (Ha): 1.06
Search Buffer (m): 100

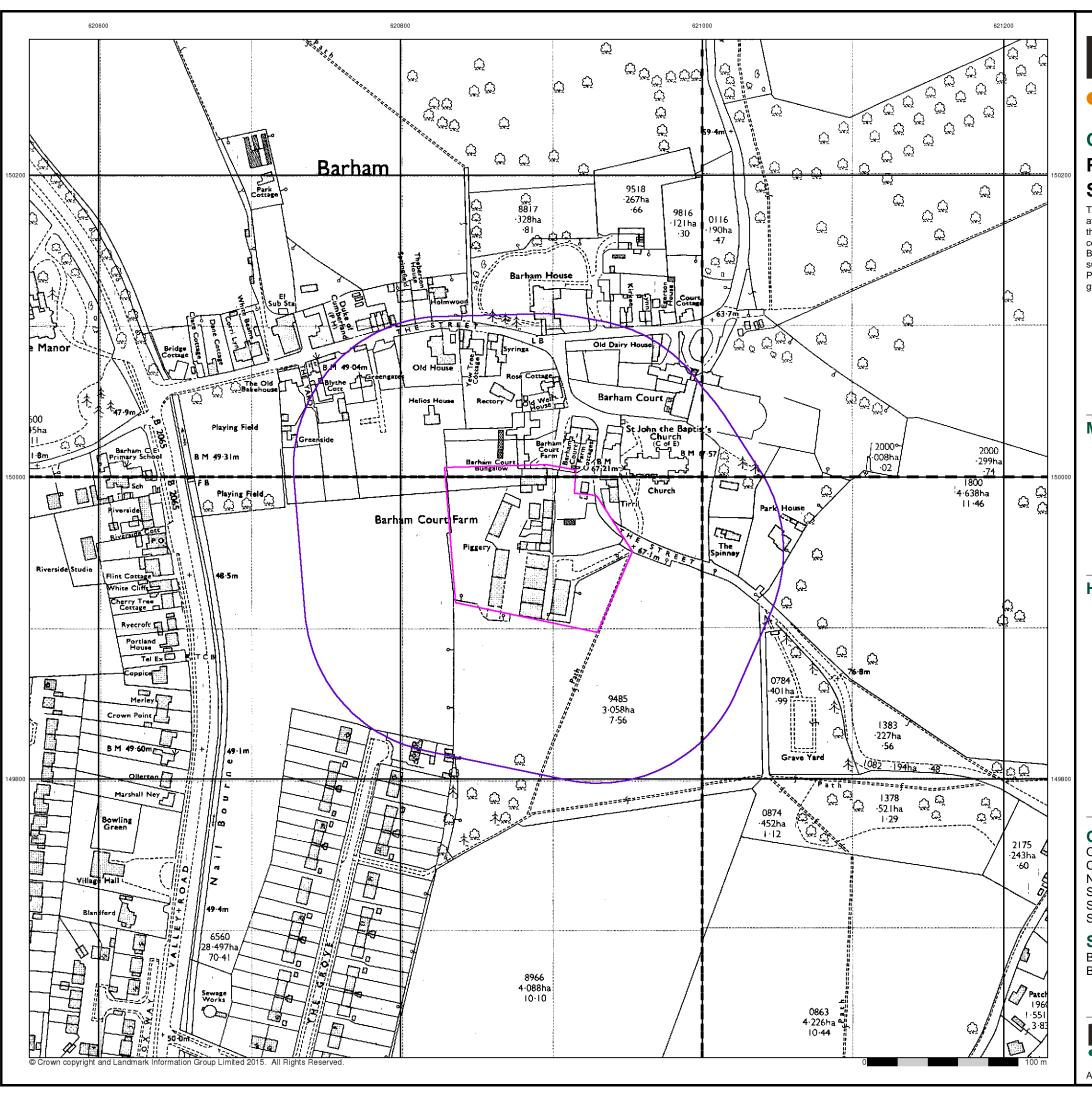
Site Details

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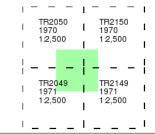
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Ordnance Survey Plan Published 1970 - 1971

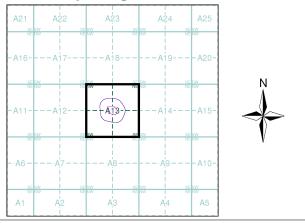
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 145426731_1_1 Customer Ref: National Grid Reference: 620890, 149960 Slice: Α

Site Area (Ha): Search Buffer (m): 100

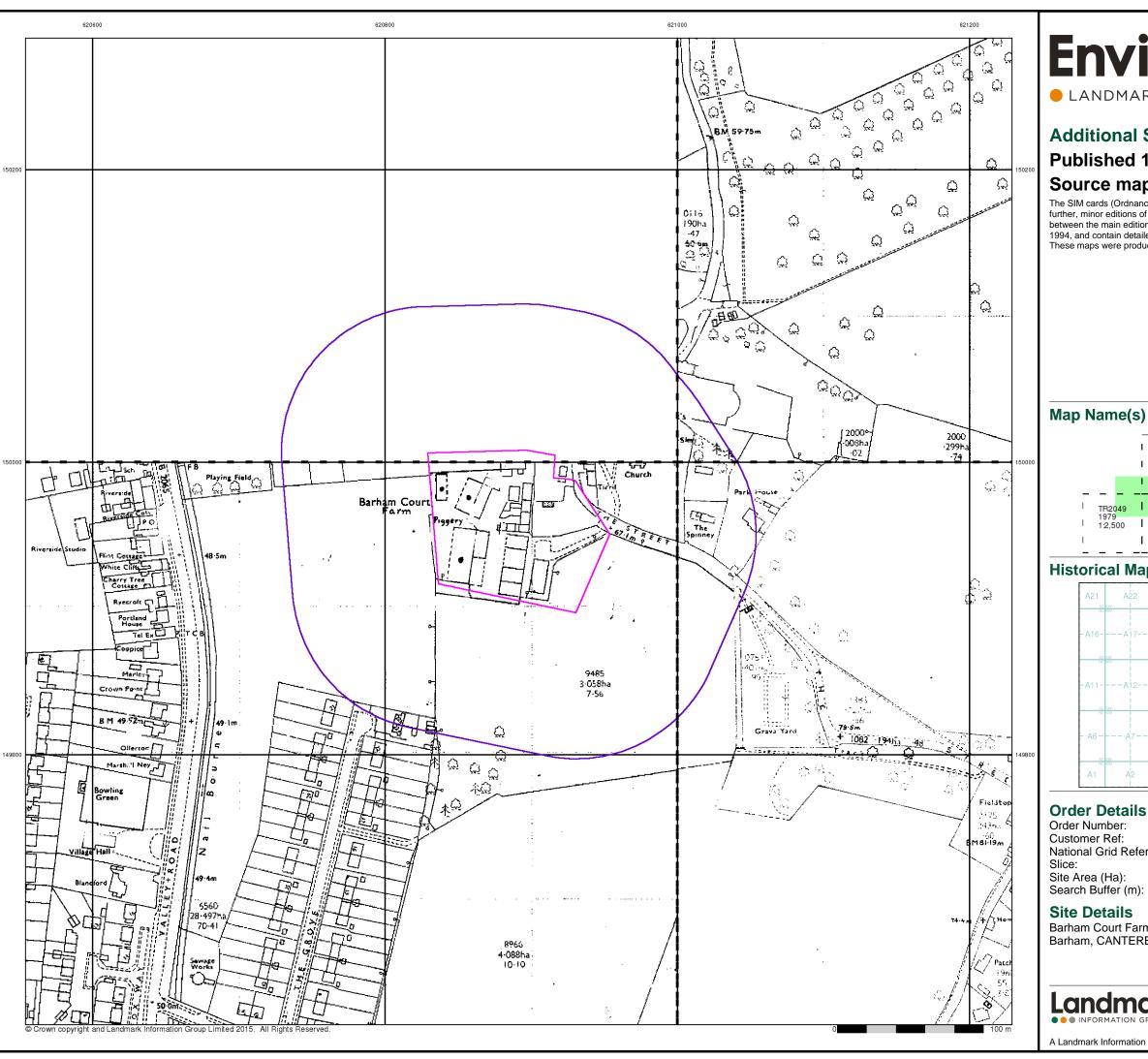
Site Details

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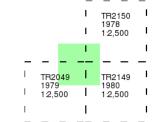
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Additional SIMs

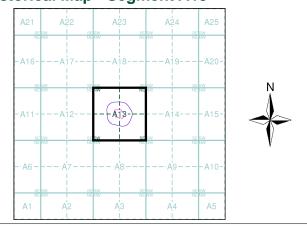
Published 1978 - 1980 Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 145426731_1_1 Customer Ref: National Grid Reference: 620890, 149960 Slice: Α Site Area (Ha): 1.06 100

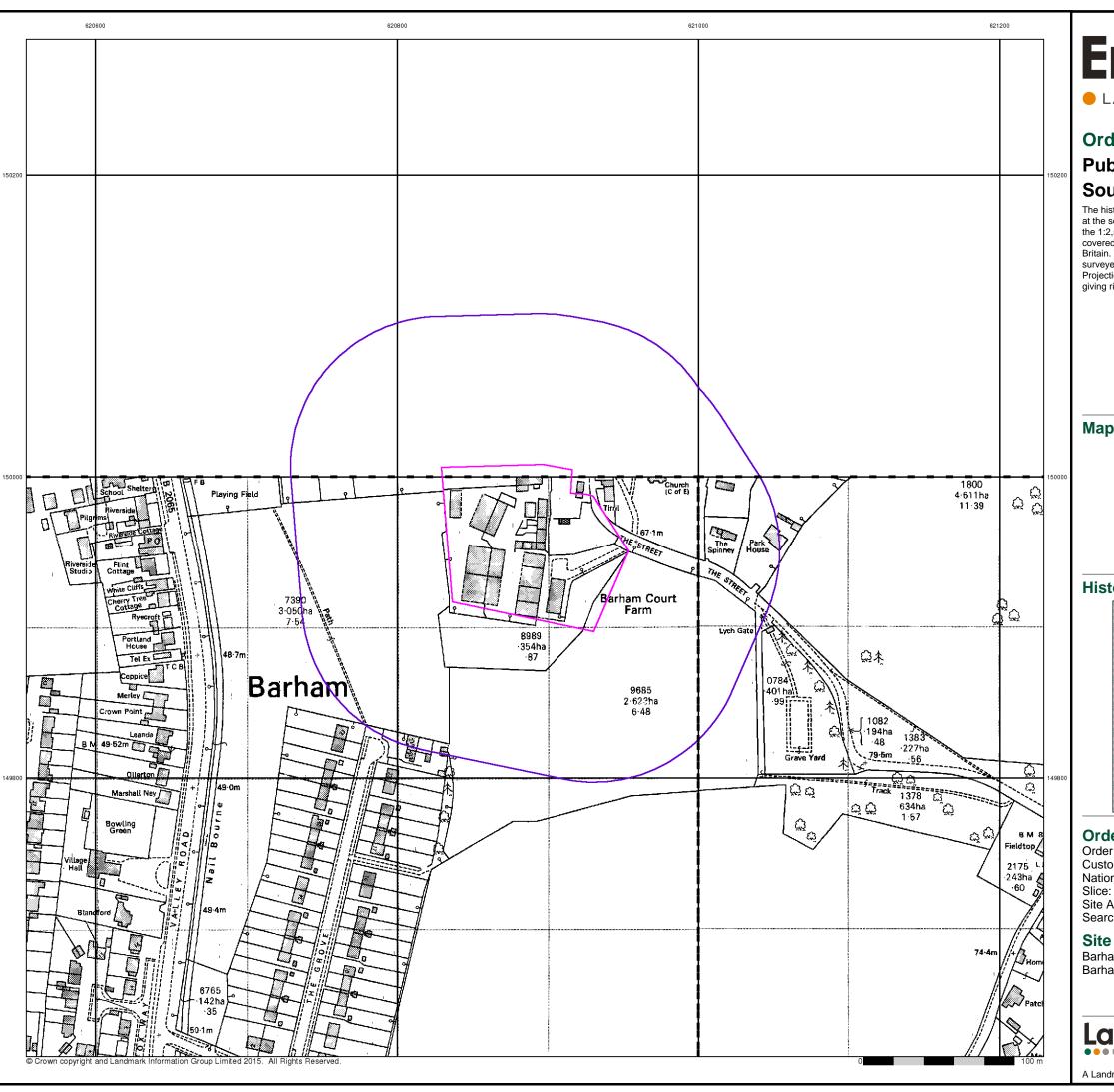
Site Details

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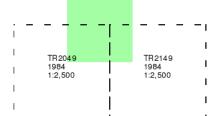
Ordnance Survey Plan

Published 1984

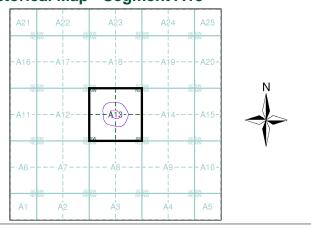
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 145426731_1_1 Customer Ref: National Grid Reference: 620890, 149960 Α

Site Area (Ha): Search Buffer (m): 100

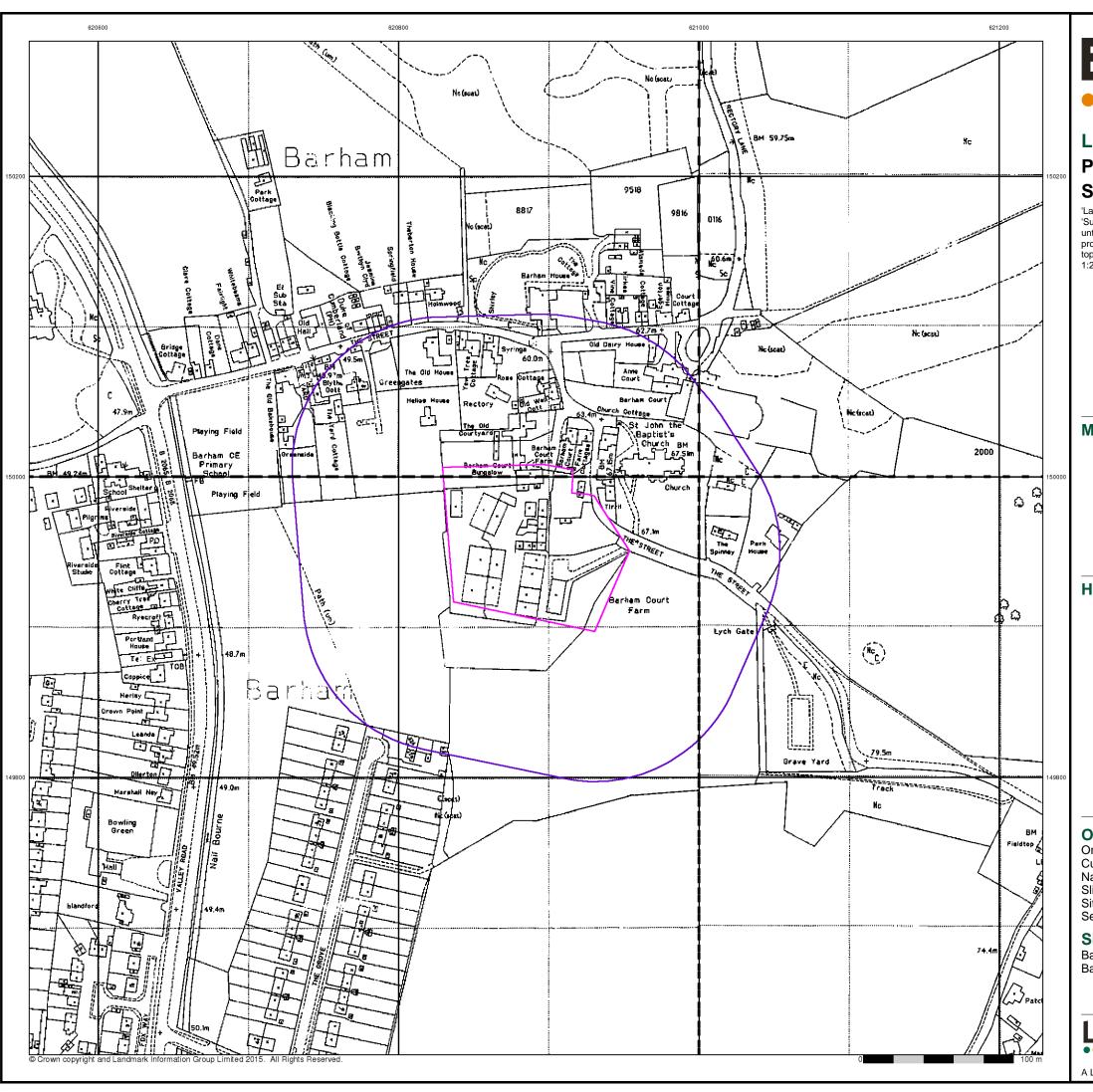
Site Details

Barham Court Farms, Barham Court Farm, Church Lane, Barham, CANTERBURY, CT4 6PB



0844 844 9952

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Large-Scale National Grid Data

Published 1993

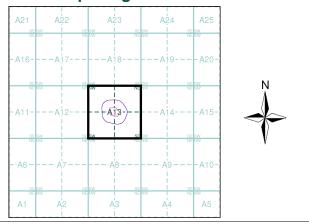
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

I	TR2		-1	TR2150	
I	1993 1:2,5		I	1993 1:2,500	
1			- 1		
_	_	_			_
<u> </u>	TR2		T	TR2149	
 	TR26	3	I I	TR2149 1993 1:2,500	

Historical Map - Segment A13



Order Details

Order Number: 145426731_1_1 Customer Ref: National Grid Reference: 620890, 149960 Slice:

Site Area (Ha): Search Buffer (m): 100

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