

Superficial Geology							
Map Colour							
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene			
	LOFT	Lowestoft Formation	Clay and Silt	Not Supplied - Anglian			
	LOFT	Lowestoft Formation	Sand and Gravel	Not Supplied - Anglian			
	LOFT	Lowestoft Formation	Diamicton	Not Supplied - Anglian			
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary			
	RTD3	River Terrace Deposits, 3	Sand and Gravel	Not Supplied - Quaternary			
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary			
	RTD4	River Terrace Deposits, 4	Sand and Gravel	Not Supplied - Quaternary			
	T2T3	River Terrace Deposits, 2 to 3	Sand and Gravel	Not Supplied - Quaternary			

Geology 1:50,000 Maps Legends

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CKR	Chalk Rock Member	Chalk	Not Supplied - Turonian
	LCCK	Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation and Culver Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Turonian
	LESE	Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Turonian
	HNCK	Holywell Nodular Chalk Formation and New Pit Chalk Formation (Undifferentiated)	Chalk	Not Supplied - Cenomanian

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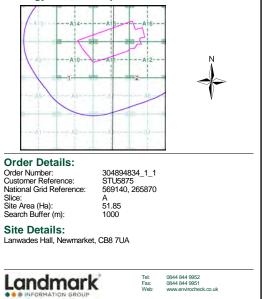
Geology 1:50,000 Maps

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.

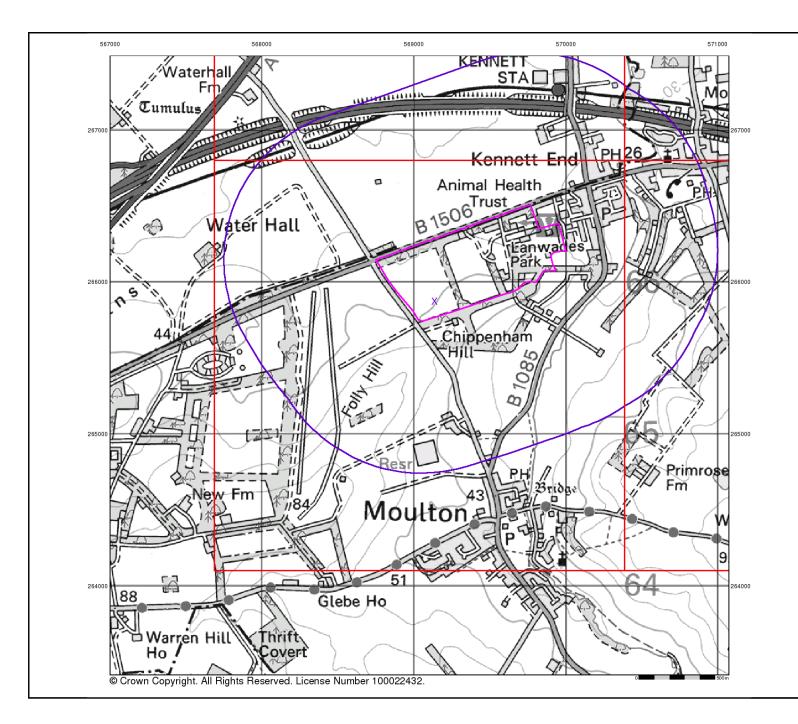
Geology 1:50,000 Maps Coverage Map ID: 2 Map ID: Map Sheet No: 189 Map Sheet No: 188 Map Name: Burv St Edmund Map Name: Cambridge 1982 1981 Map Date: Map Date: Bedrock Geology: Available Bedrock Geology: Available Superficial Geology: Available Superficial Geology: Available Artificial Geology: Available Artificial Geology: Not Available Faults: Not Supplied Faults: Not Supplied Landslip: Not Available Landslip: Not Available Rock Segments: Not Supplied Not Supplied Rock Segments

Geology 1:50,000 Maps - Slice A



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Artificial Ground and Landslip

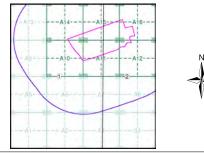
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often engineering conditions and unstable ground.

Artificial ground includes:

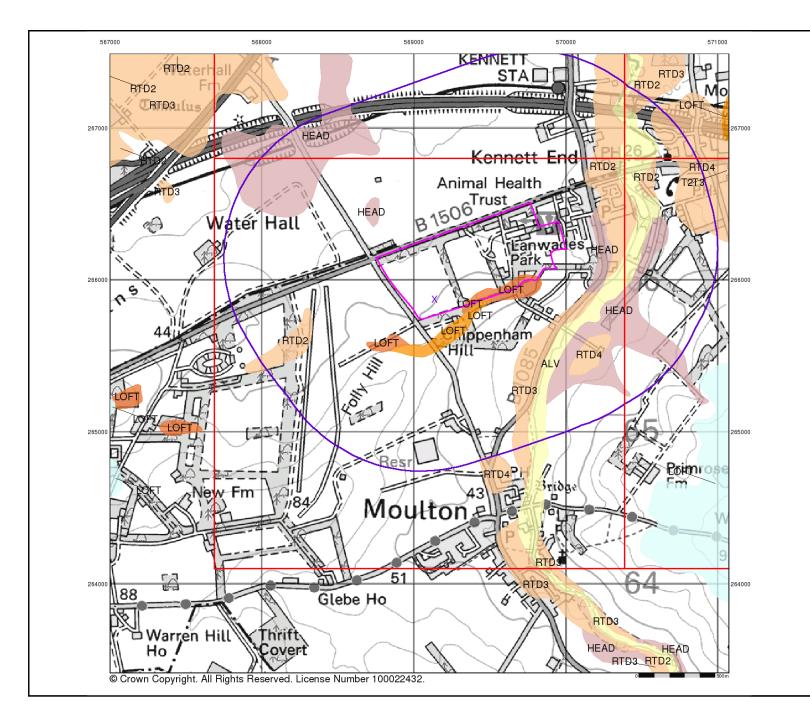
- Made ground man-made deposits such as embankments and spoil heaps on the natural ground surface. - Worked ground - areas where the ground has been cut away such as
- quarries and road cuttings.
- Infilled ground areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped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





Order Details: Order Number: Customer Reference: National Grid Reference: Slice: Site Area (Ha): Search Buffer (m):	304894834_1_1 STU5875 569140, 265870 A 51.85 1000	
Site Details: Lanwades Hall, Newmarket,	CB8 7UA	
	Tel: Fax: Web:	0844 844 9952 0844 844 9951 www.envirocheck.co.uk
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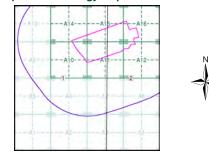
Superficial Geology

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.

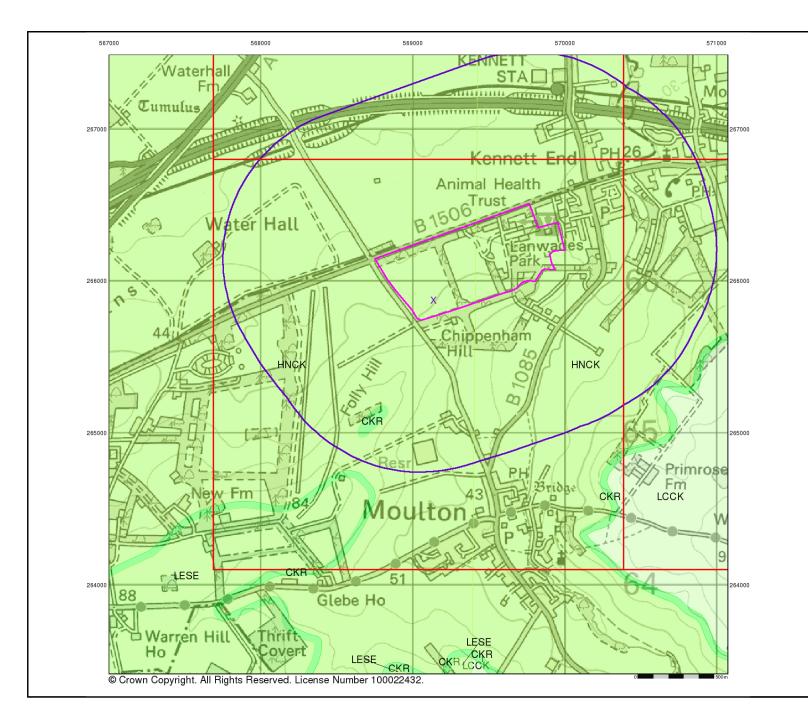
They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made 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: National Grid Reference: Silce: Site Area (Ha); Search Buffer (m):	304894834_1_1 STU5875 569140, 265870 A 51.85 1000	
Site Details: Lanwades Hall, Newmarket,	CB8 7UA	
	Tel: Fax: Web:	0844 844 9952 0844 844 9951 www.envirocheck.co.uk
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Bedrock and Faults

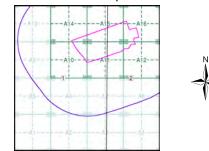
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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.

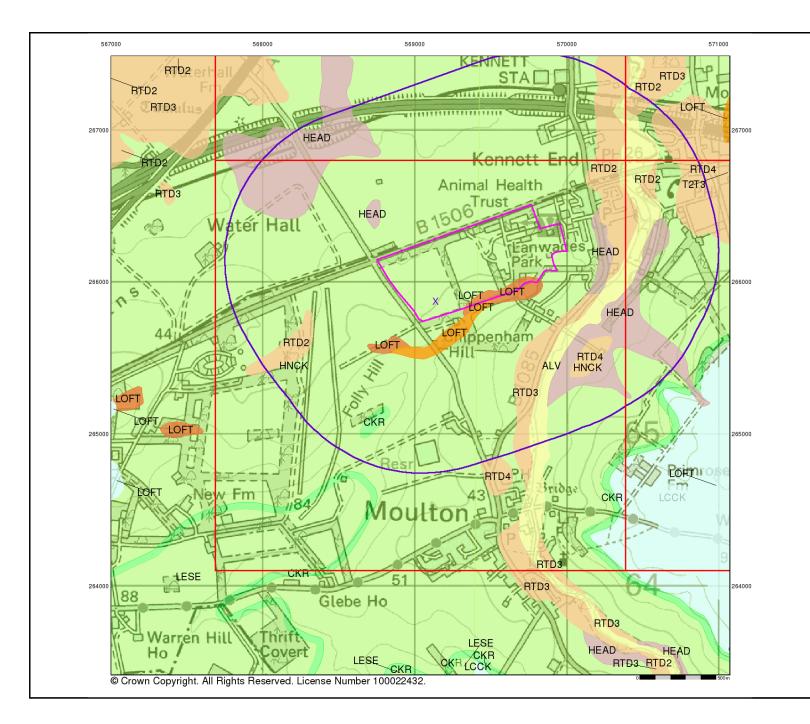
The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

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.





Order Details: Order Number: Customer Reference: National Grid Reference: Slice: Site Area (Ha): Search Buffer (m):	304894834_1_ STU5875 569140, 265870 A 51.85 1000		
Site Details: Lanwades Hall, Newmarket,	CB8 7UA		
	Tel: Fax: Web:	0844 844 9952 0844 844 9951 www.envirocheck.co	.uk
v15.0 09-Dec-2022			Page 4 of 5



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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.

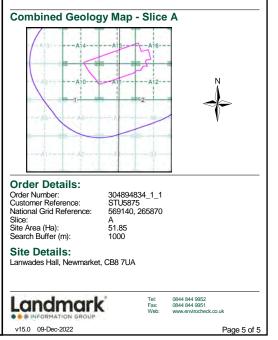
Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

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



Historical Mapping Legends

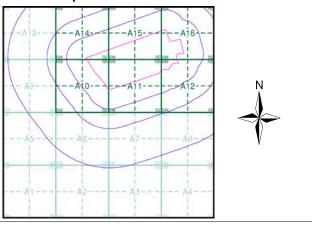
Ordnance Survey County Series 1:10,560	Ordnance Survey Plan 1:10,000	1:10,000 Raster Mapping
Gravel Sand Other Pit Pit Pits	رمینی Chalk Pit, Clay Pit در Gravel Pit در Chalk Pit, Clay Pit در کار Gravel Pit	Gravel Pit Gravel Pit or slag hea
Orchard	Sand Pit Disused Pit	Rock (scattered)
A Siers Reeds Marsh	Refuse or Lake, Loch	ີູ້້ໍ້າ Boulders Boulders (scattered)
4 4 5 1 4 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1	Dunes Boulders	Shingle Mud Mud
Mixed Wood Deciduous Brushwood	ネネ Coniferous へっつ Non-Coniferous Trees てrees	Sand Sand Sand Pit
	ሩ ሩ Orchard በስ_ Scrub \ነለ Coppice	Top of cliff
	າີ Bracken ກາງປະເທດ Heath	General detail Undergroun detail Overbead detail
Fir Furze Rough Pasture		— — — — Overhead detail — — — — Narrow gau railway Multi-track Single track
Arrow denotes Arrow denotes flow of water Station	→ <u>-</u> Marsh ٫٫٫٫Υ/٫٫, Reeds → ۲۲۰۰ Saltings	railway railway Civil, parish
 	Direction of Flow of Water Building	
Signal Post Surface Level	Glasshouse Sand	Metropolitan, Constituend London Borough boundary boundary
Sketched Instrumental Contour	Pylon ————————————————————————————————————	☆☆ Area of wooded ☆☆ Non-conifer vegetation ☆☆ trees
Main Roads Fenced Minor Roads Fenced		A Non-coniferous A trees (scattered) ★★ Coniferous ★★ trees
Un-Fenced Un-Fenced	Cutting Embankment Standard Gauge	★ Coniferous
Sunken Road Raised Road	Road [™] [™] Road Level Foot Under Over Crossing Bridge	ひつつ ひつつ ひつつ ひつつ ひつ ひつ ひつ ひつ い し ひつつ ひつ ひつ ひつ い し ひつ ひ い し ひつ ひ い し い ひ い し い し ひ い し い し ひ い し い し い
Road over Railway River	Siding, Tramway or Mineral Line	আনি Rough আমাদে Heath আনি Grassland আমাদে Heath
Railway over Road Level Crossing	Geographical County	∩o_ Scrub _⊻∠ Marsh, Salt _⊻∠ Marsh or R
Road over River or Canal	Administrative County, County Borough or County of City Municipal Borough, Urban or Rural District,	Water feature Elow arrows
Road over	Burgh or District Council Borough, Burgh or County Constituency Shown only when not coincident with other boundaries	MHW(S) Mean high MLW(S) Mean low water (springs) water (springs)
// Stream	Civil Parish Civil Parish Shown alternately when coincidence of boundaries occurs	Electricity
————— County Boundary (Geographical)		(with poles)
— — — — — County Boundary (Geographical) — · — · — · County & Civil Parish Boundary	BP, BS Boundary Post or Stone Pol Sta Police Station	
County Boundary (Geographical) County & Civil Parish Boundary Administrative County & Civil Parish Boundary County Borough Boundary (England)	Ch Church PO Post Office CH Club House PC Public Convenience	BM 123.45 m (where shown) Point feature Point feature Station, flare
County Boundary (Geographical) County & Civil Parish Boundary County & Civil Parish Boundary Administrative County & Civil Parish Boundary County Borough Boundary (England) County Burgh Boundary (Scotland)	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	BM 123.45 m (where shown) △ station Point feature Pylon, flare (e.g. Guide Post ⊠ or lighting to or Mile Stone)
County Boundary (Geographical) County & Civil Parish Boundary Administrative County & Civil Parish Boundary County Borough Boundary (England)	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	BM 123.45 m (where shown) Point feature Point feature Pylon, flare Pylon, flare Pylon

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cambridgeshire & Isle Of Ely	1:10,560	1884	2
Suffolk	1:10,560	1884	3
Cambridgeshire & Isle Of Ely	1:10,560	1903	4
Suffolk	1:10,560	1905	5
Cambridgeshire & Isle Of Ely	1:10,560	1927	6
Cambridgeshire & Isle Of Ely	1:10,560	1938 - 1952	7
Suffolk	1:10,560	1952	8
Cambridgeshire & Isle Of Ely	1:10,560	1952	9
Ordnance Survey Plan	1:10,000	1958	10
Ordnance Survey Plan	1:10,000	1972 - 1975	11
Ordnance Survey Plan	1:10,000	1982 - 1983	12
Ordnance Survey Plan	1:10,000	1990	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2022	16

Historical Map - Slice A



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 304894834_1_1

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 STU5875

 National Grid Reference:
 569140, 265870
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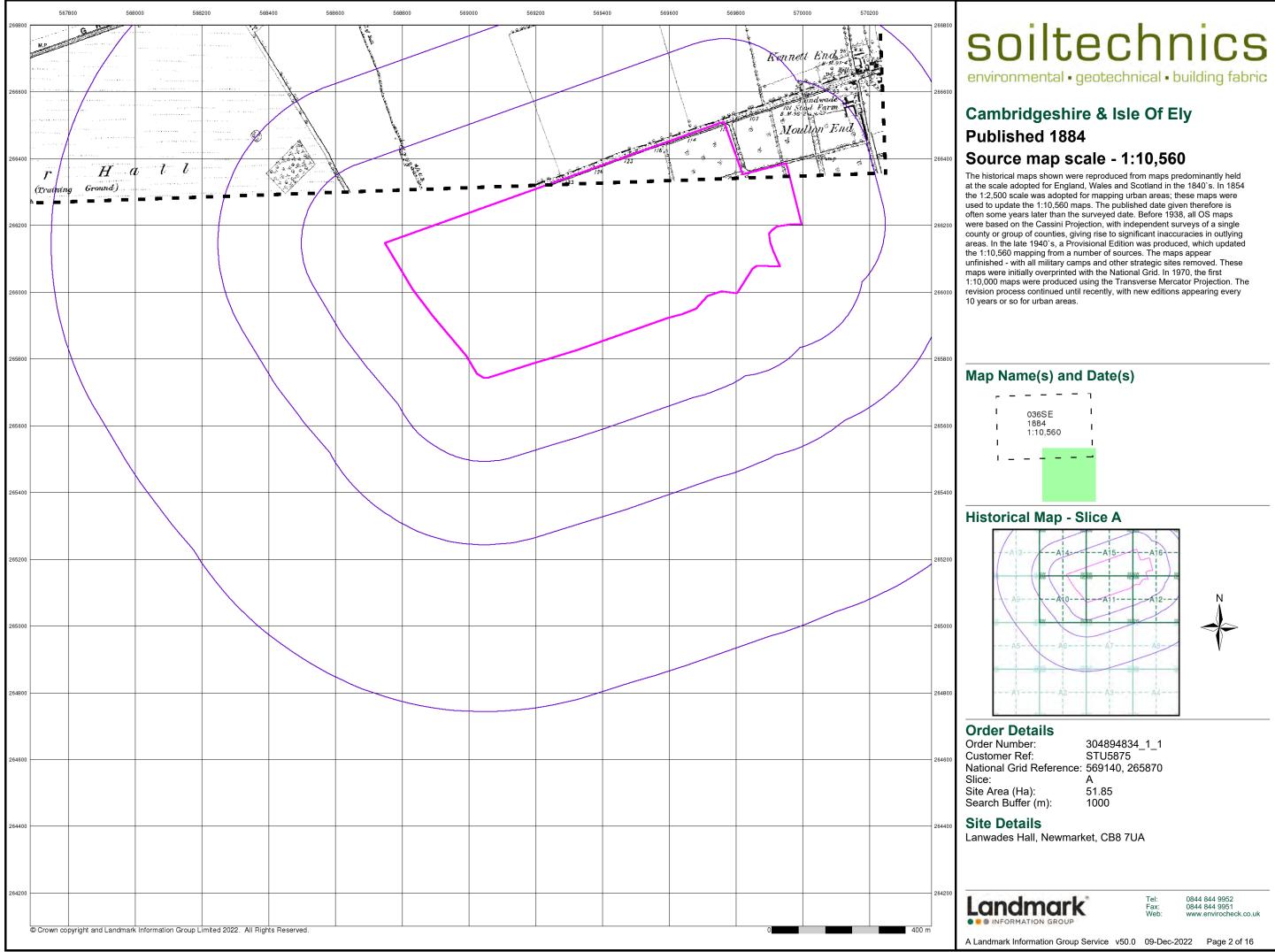
Α 51.85 1000

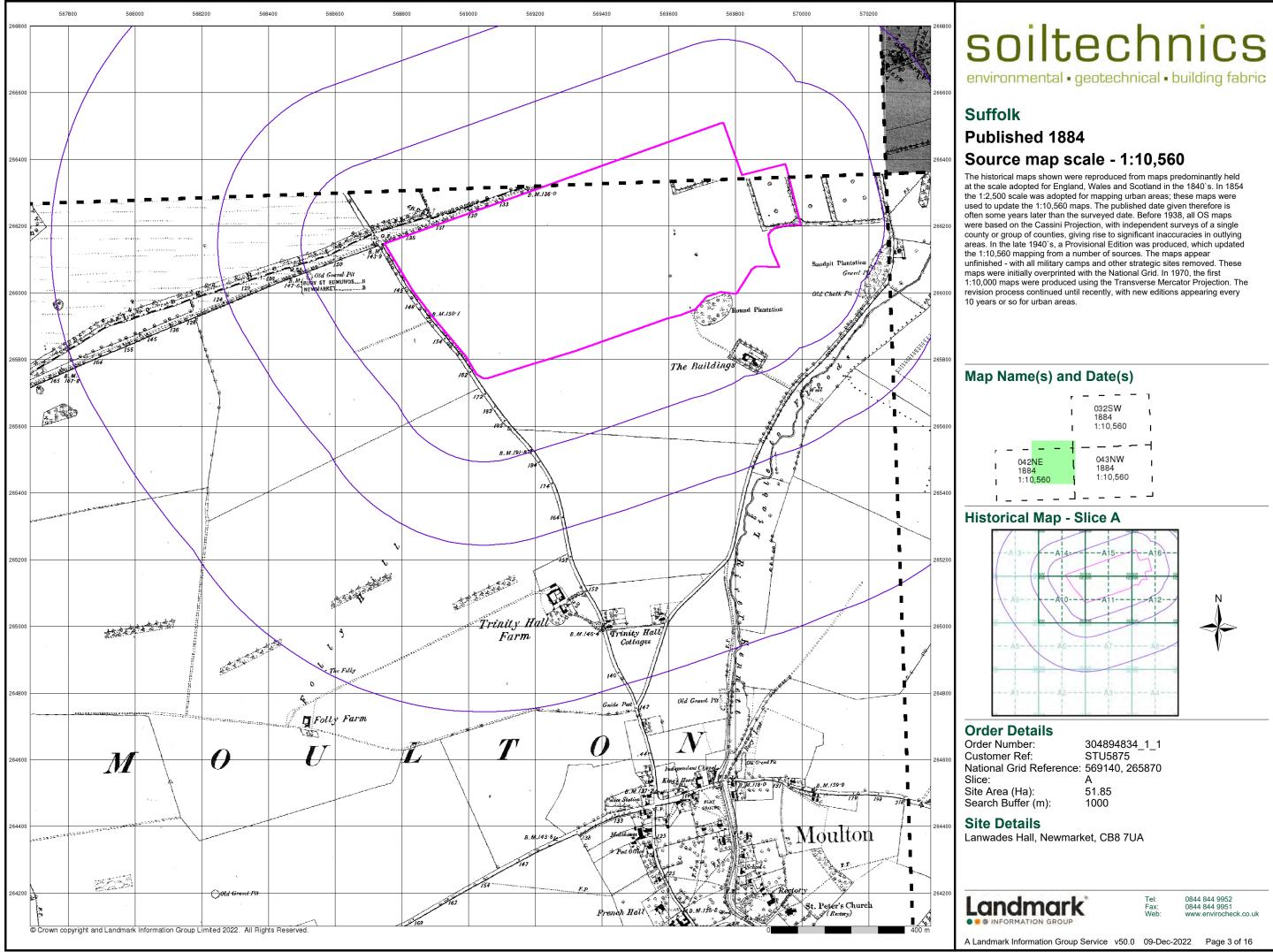
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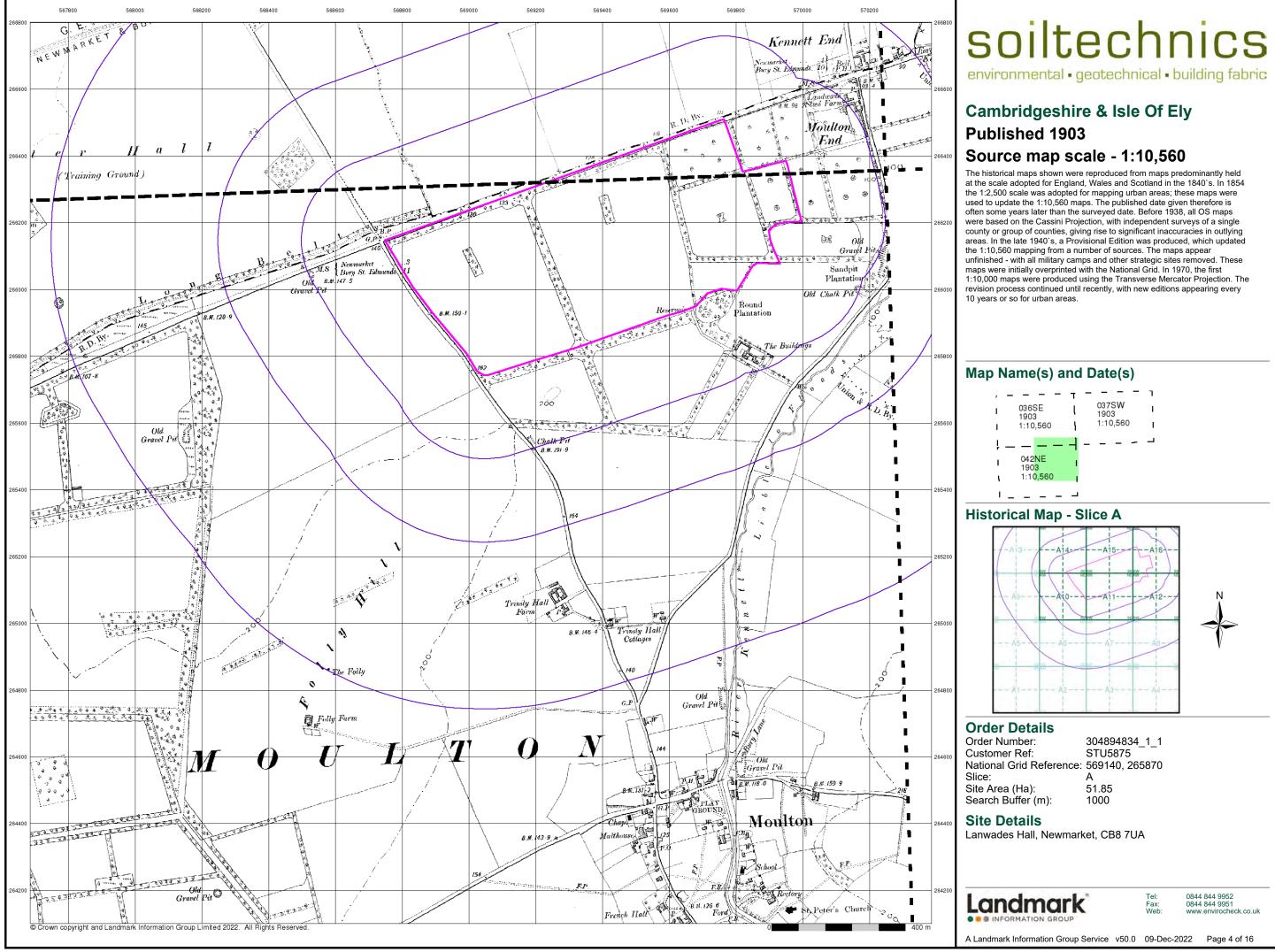
Lanwades Hall, Newmarket, CB8 7UA

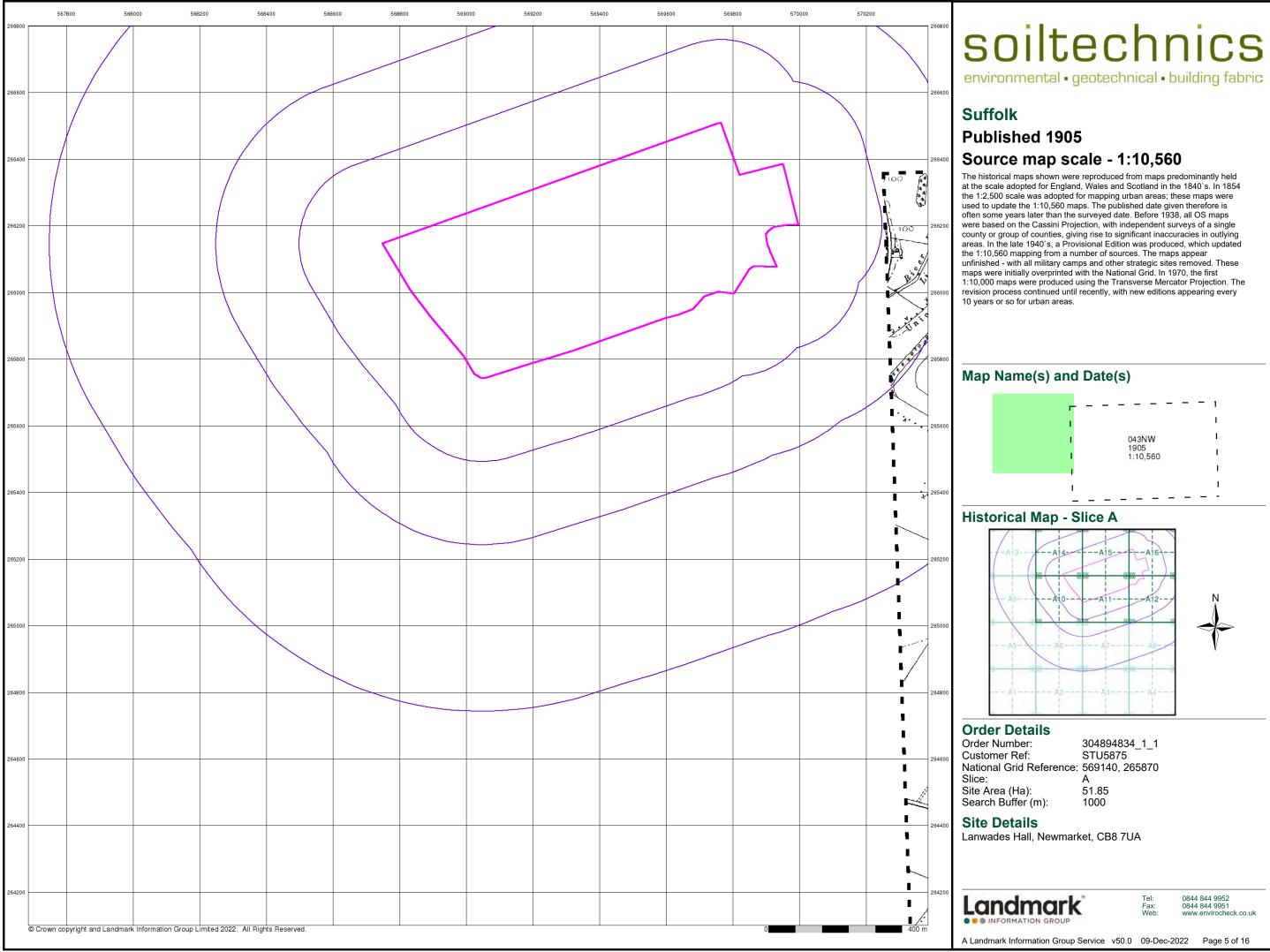


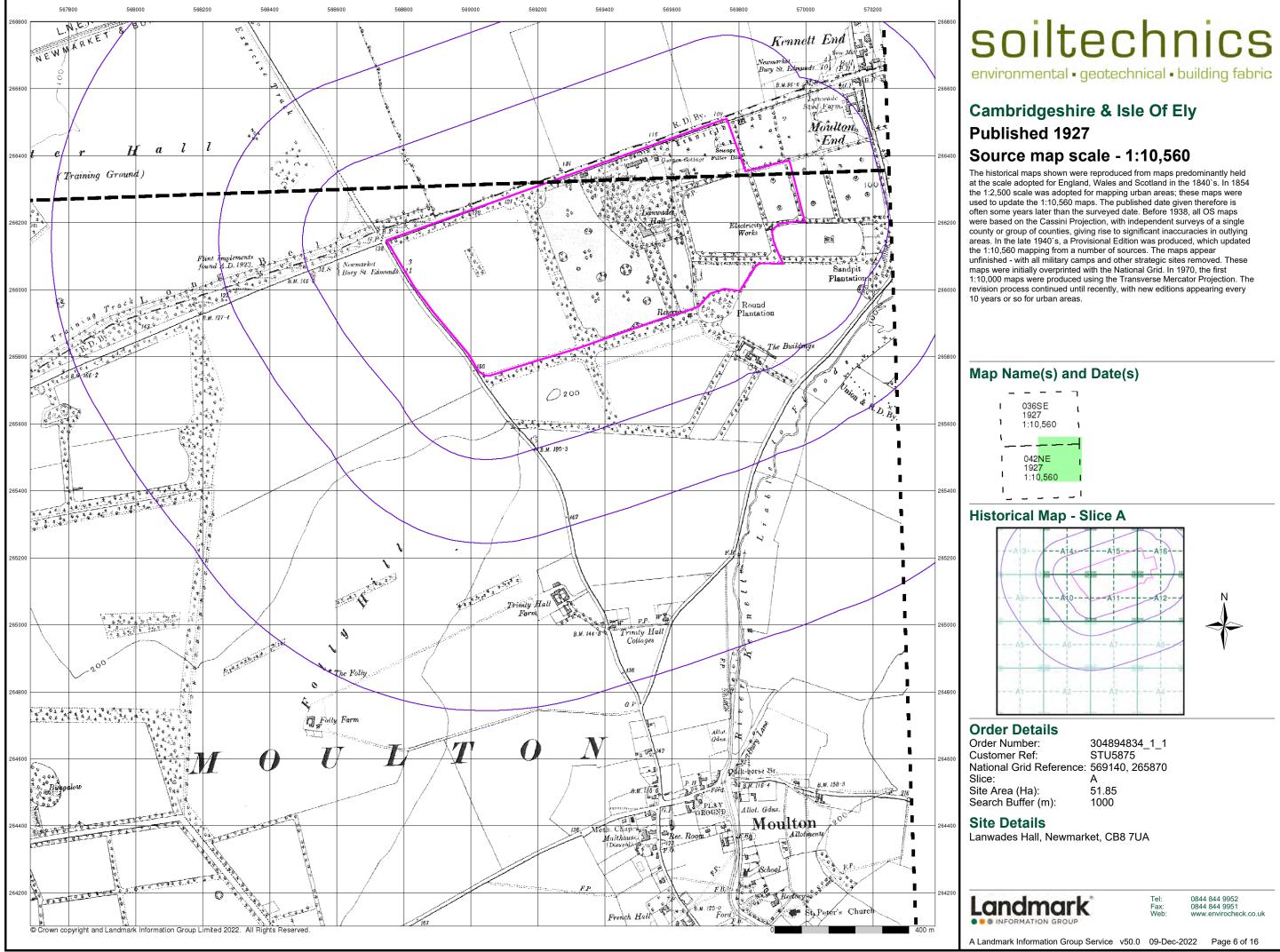


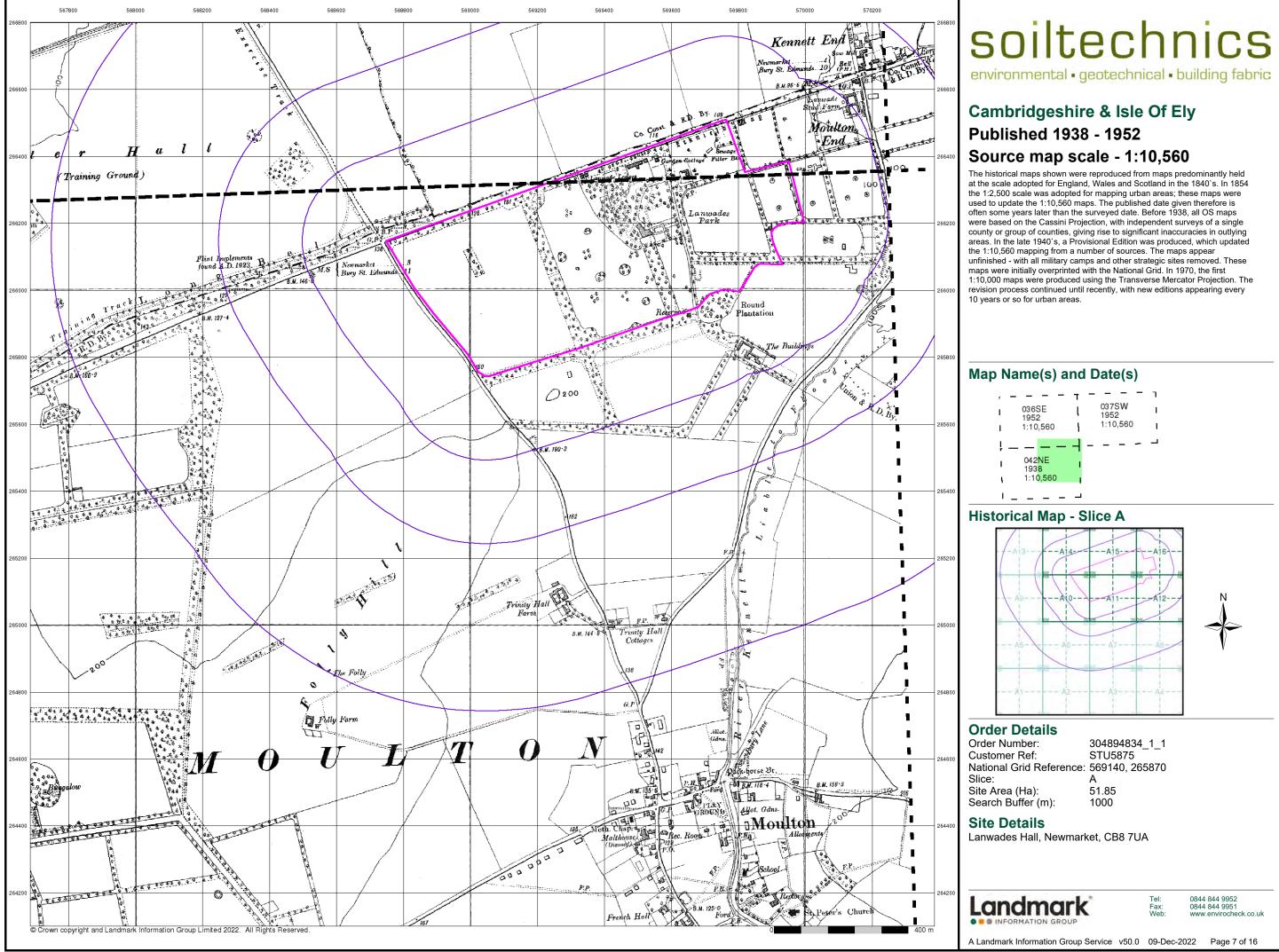


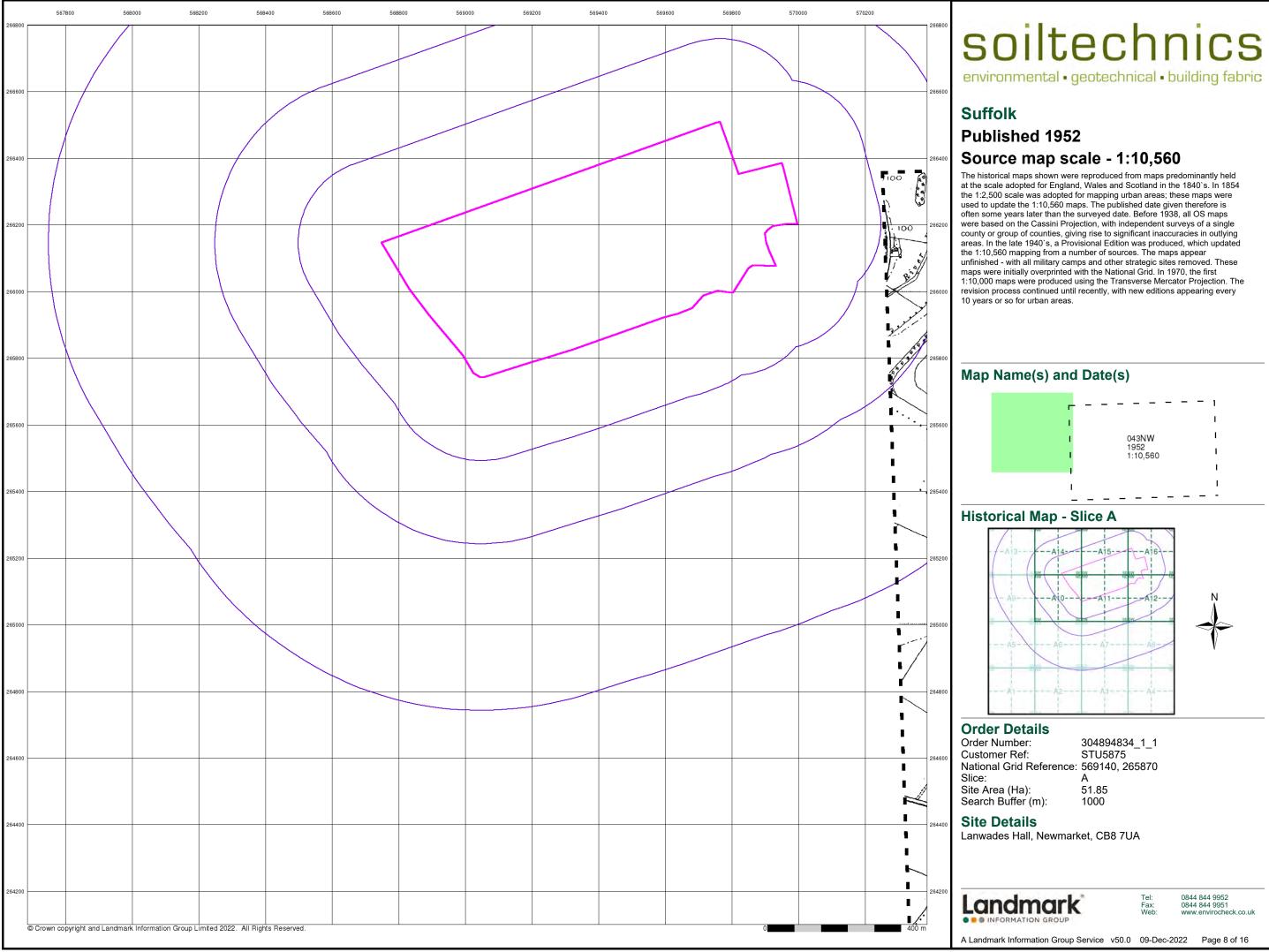


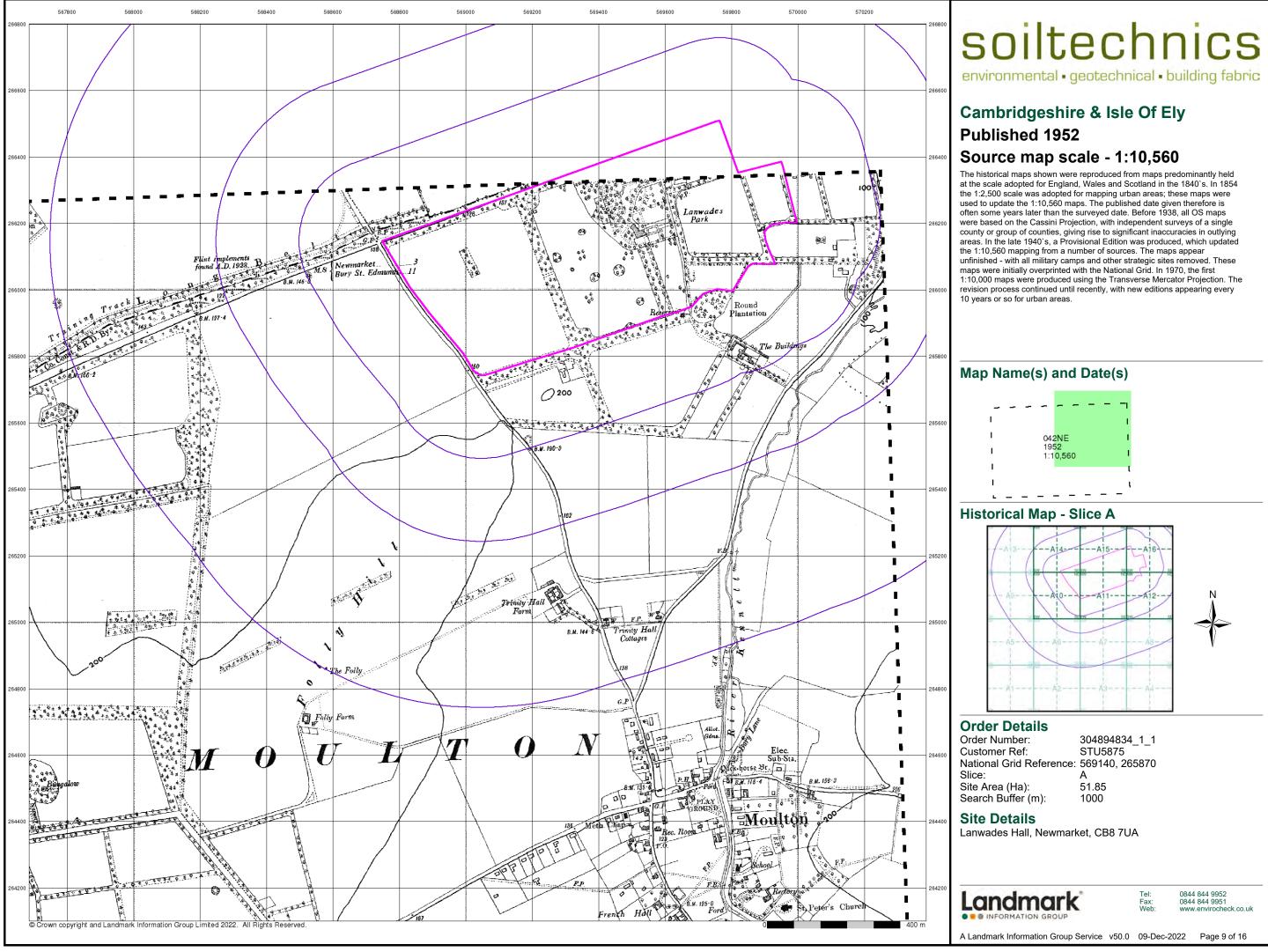


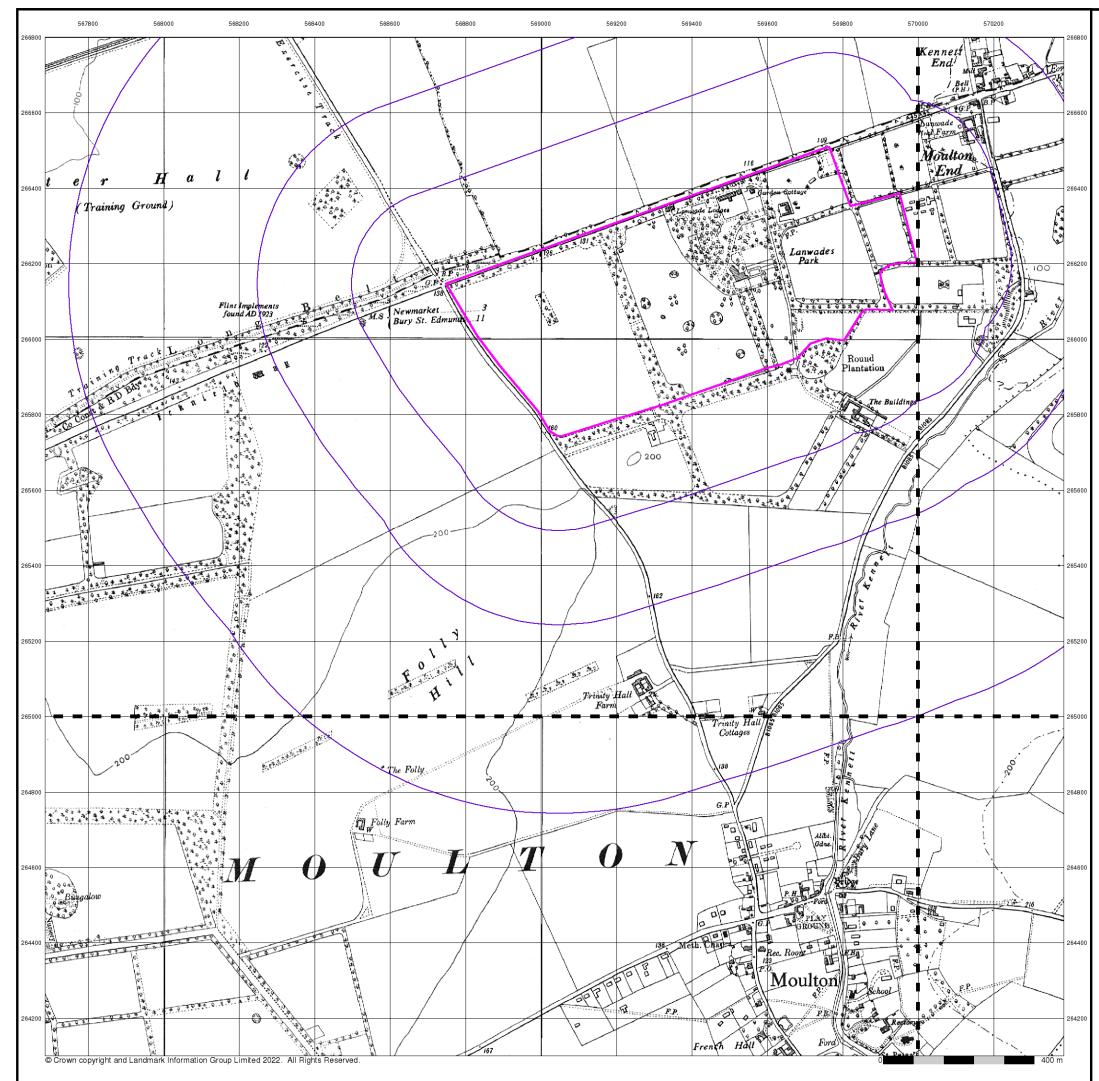












Ordnance Survey Plan Published 1958

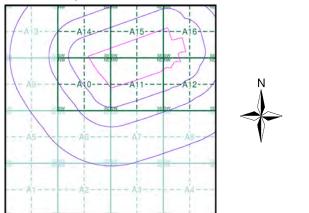
Source map scale - 1:10,000

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)

_	-	_		_	-	_
		NE	Т		6NW	I
	958 :10,	560	Т	1958	3 1,560	I
1			1			Т
	_	_		_	—	_
— . I т	_ L66	– SE	-	— TL7	– 6SW	-,
i i	958			195		- 1 1

Historical Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 569140, 265870 Slice: Site Area (Ha): Search Buffer (m):

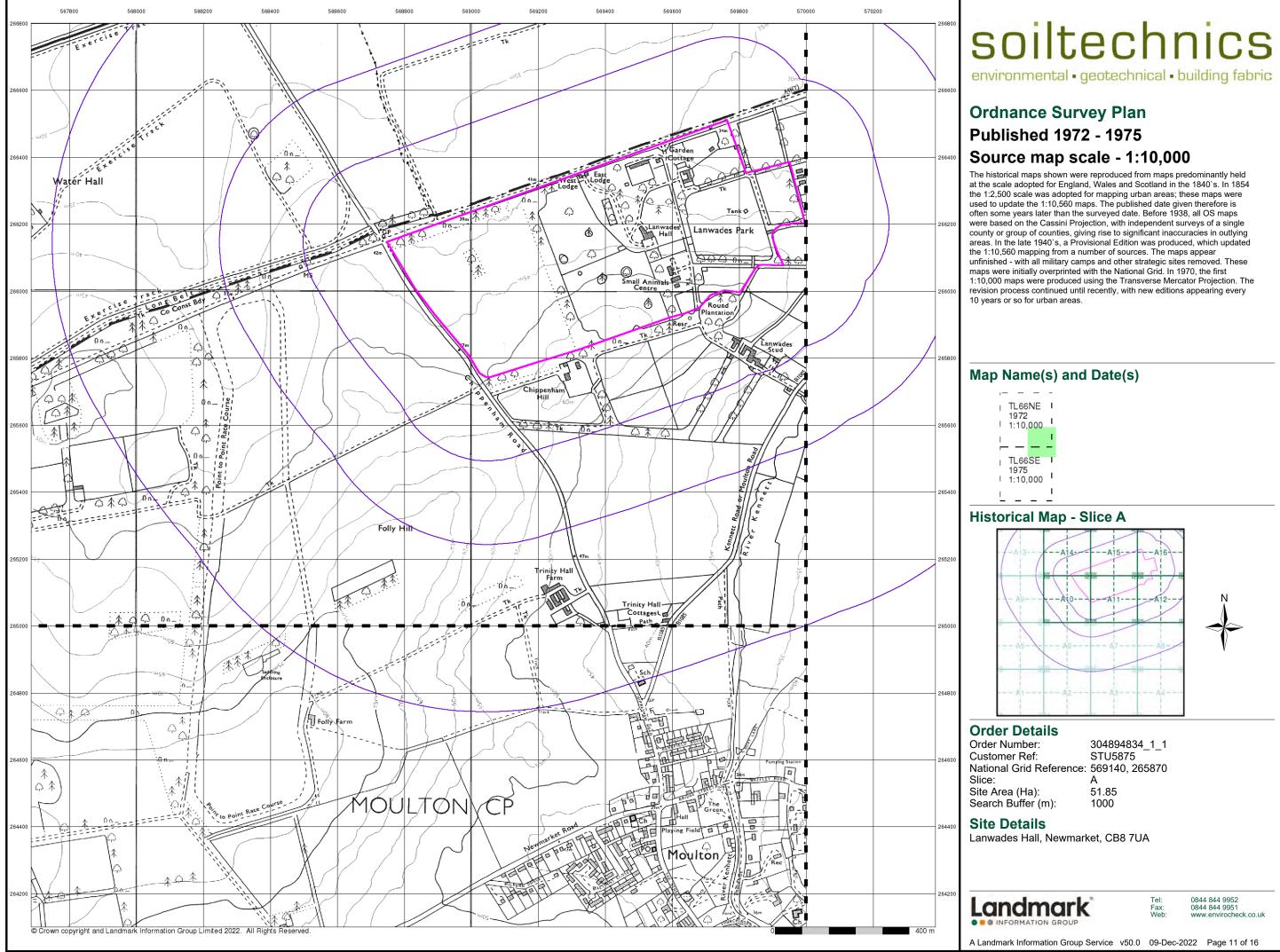
304894834_1_1 STU5875 А 51.85 1000

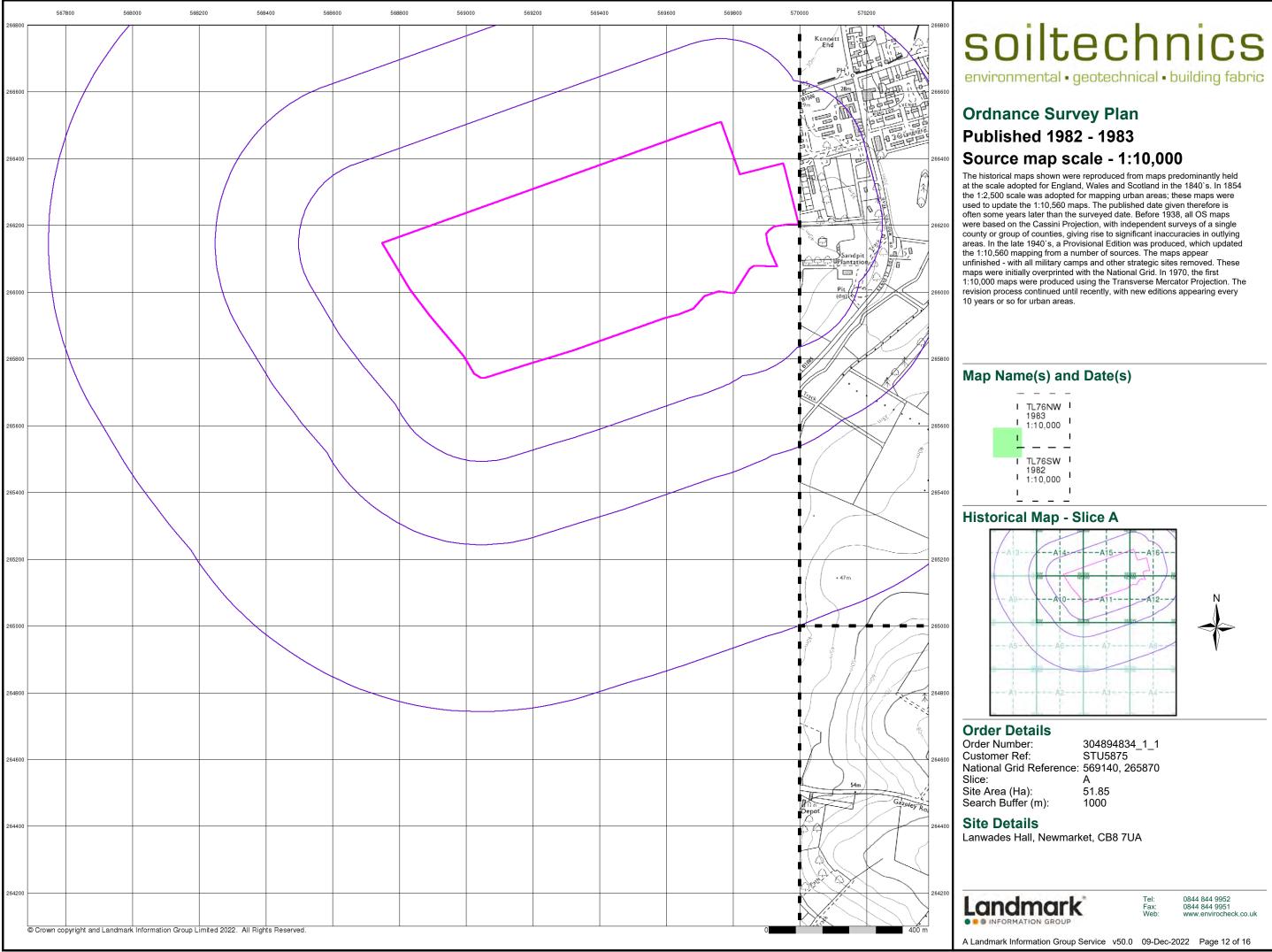
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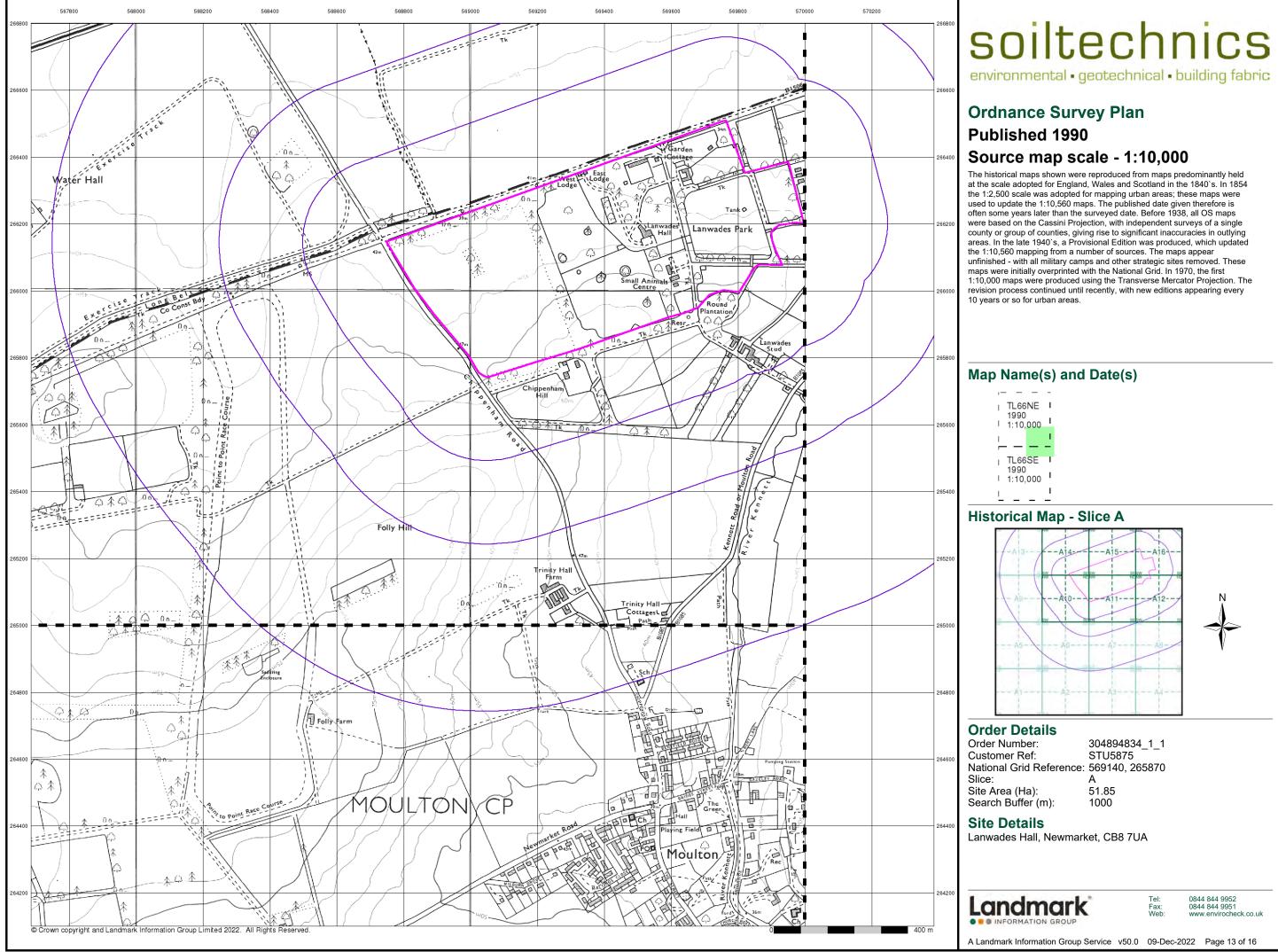
Lanwades Hall, Newmarket, CB8 7UA

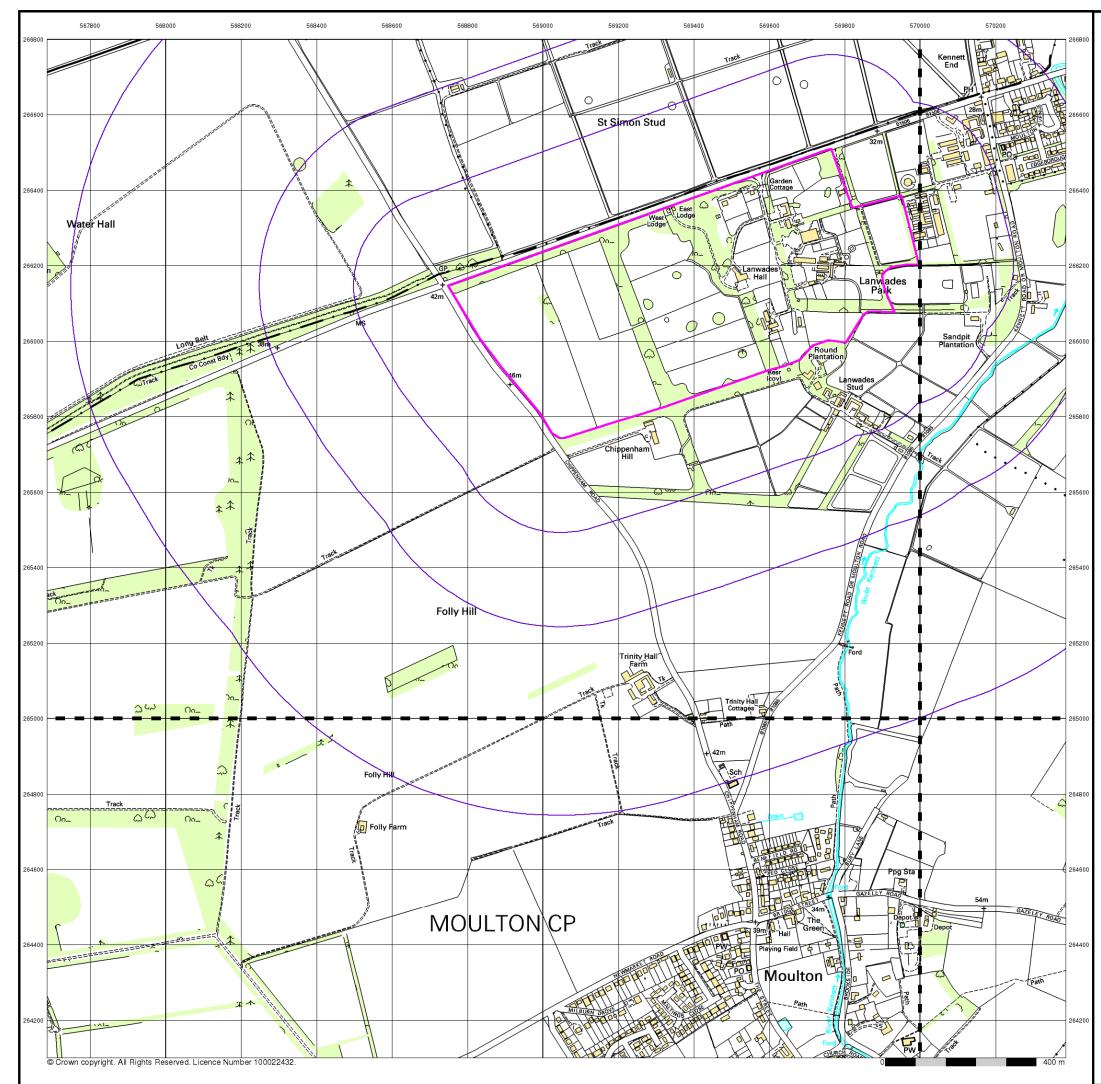


Tel: Fax: Web







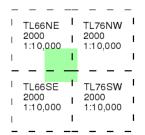


10k Raster Mapping Published 2000

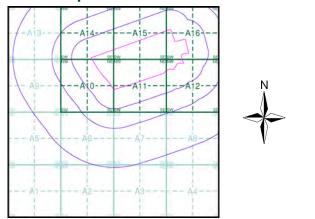
Source map scale - 1:10,000

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 A



Order Details

Order Number: Customer Ref: National Grid Reference: 569140, 265870 Slice: Site Area (Ha): Search Buffer (m):

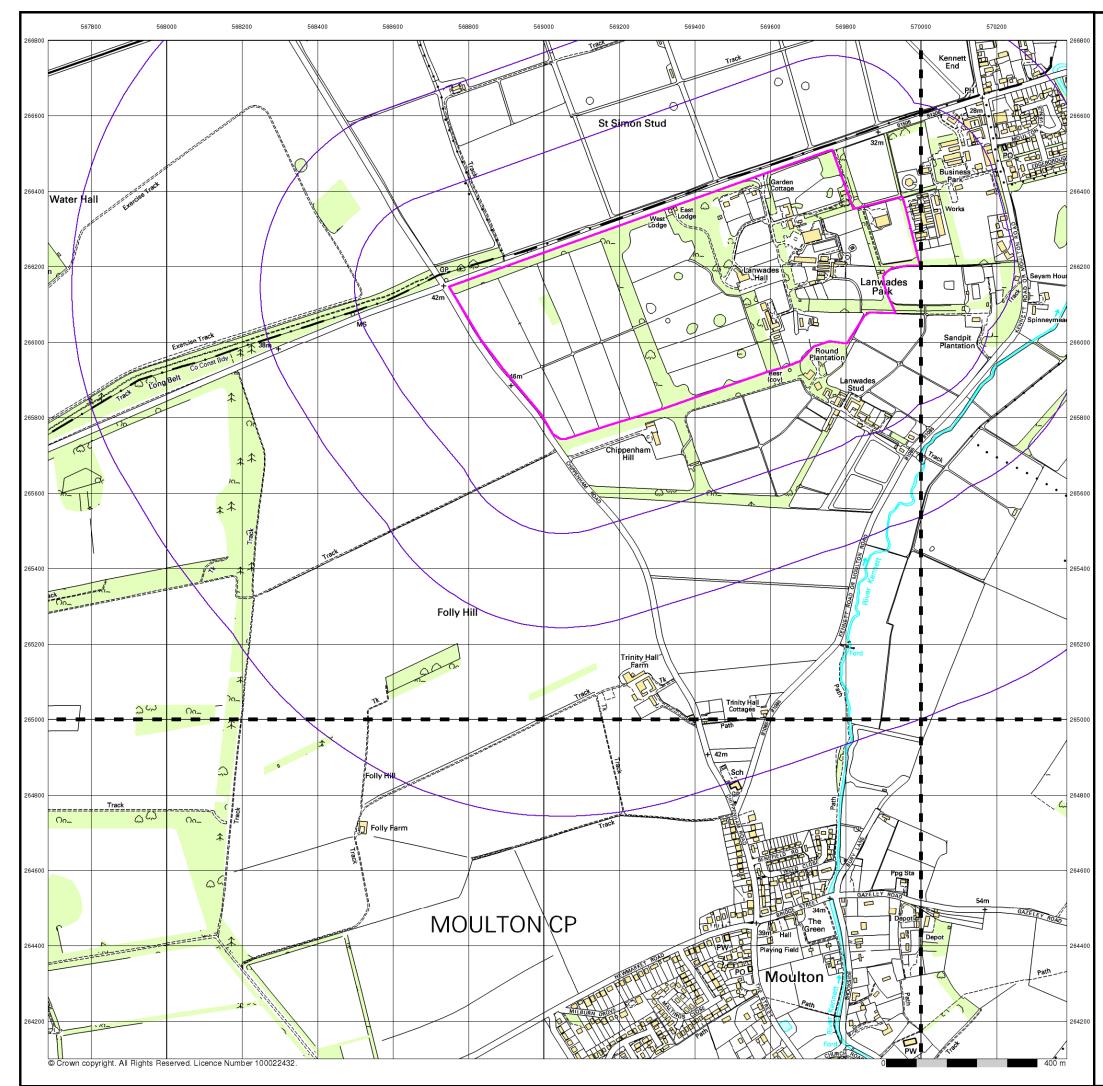
304894834_1_1 STU5875 Α 51.85 1000

Site Details

Lanwades Hall, Newmarket, CB8 7UA



Tel: Fax: Web:

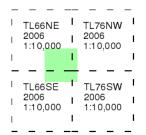


10k Raster Mapping Published 2006

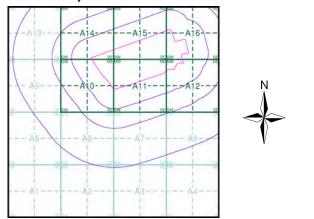
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 569140, 265870 Slice: Site Area (Ha): Search Buffer (m):

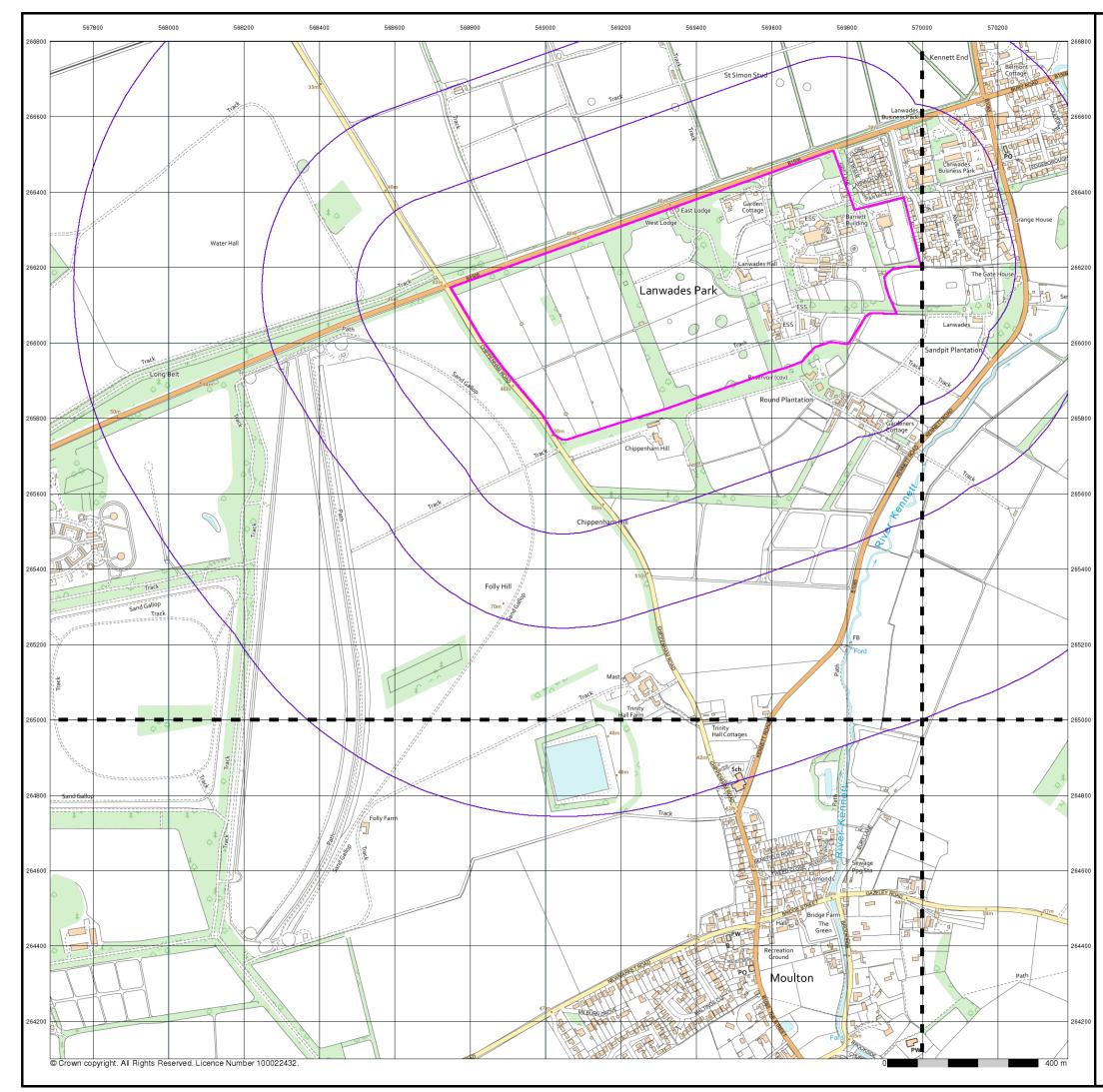
304894834_1_1 STU5875 Α 51.85 1000

Site Details

Lanwades Hall, Newmarket, CB8 7UA



Tel: Fax: Web:

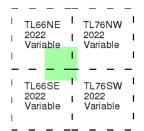


VectorMap Local Published 2022

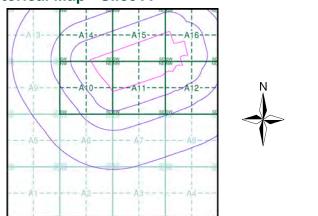
Source map scale - 1:10,000

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 others) river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: Customer Ref: National Grid Reference: 569140, 265870 Slice: Site Area (Ha): Search Buffer (m):

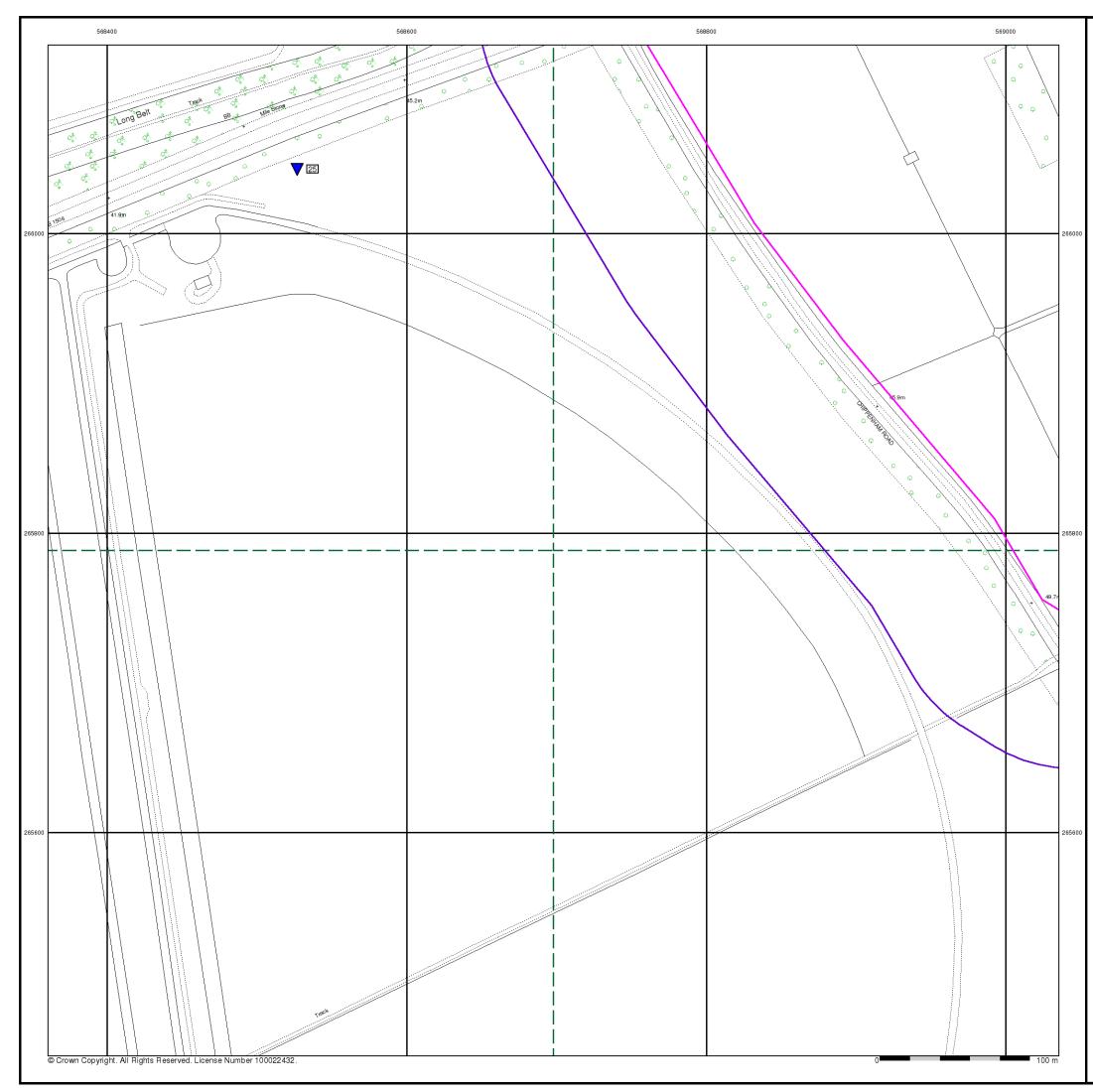
304894834_1_1 STU5875 Α 51.85 1000

Site Details

Lanwades Hall, Newmarket, CB8 7UA



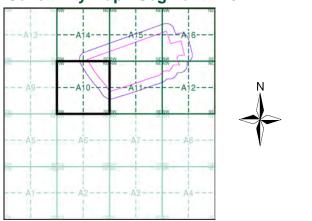
Tel: Fax: Web:



General



Site Sensitivity Map - Segment A10



Order Details

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National Grid Reference
Slice:
Site Area (Ha):
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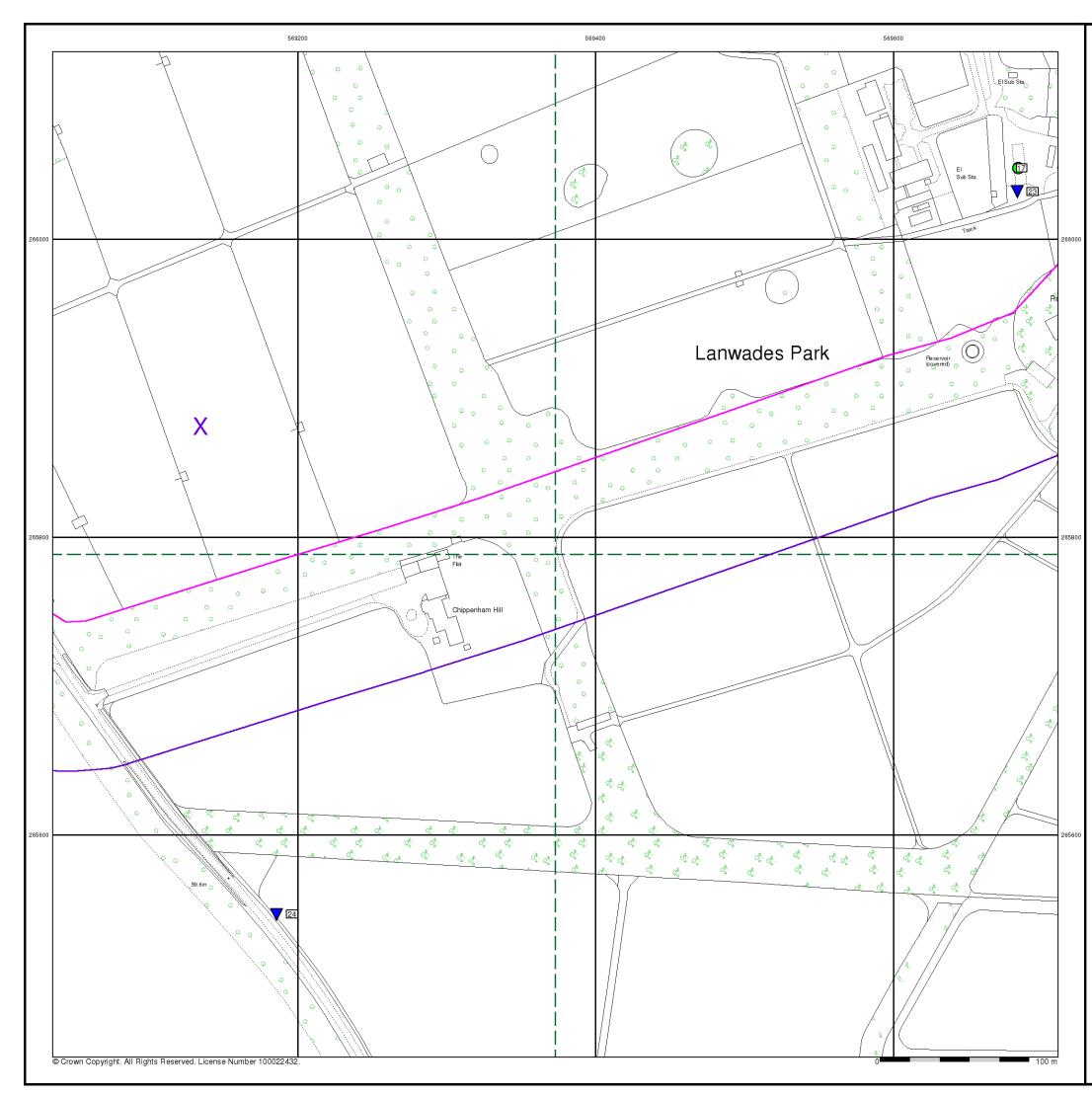
304894834_1_1 STU5875 ce: 569140, 265870 A 51.85 100

Site Details

Lanwades Hall, Newmarket, CB8 7UA



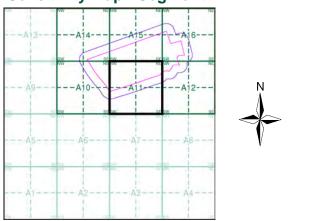
Tel: 0844 Fax: 0844 Web: www



General



Site Sensitivity Map - Segment A11



Order Details

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Customer Ref:
National Grid Reference
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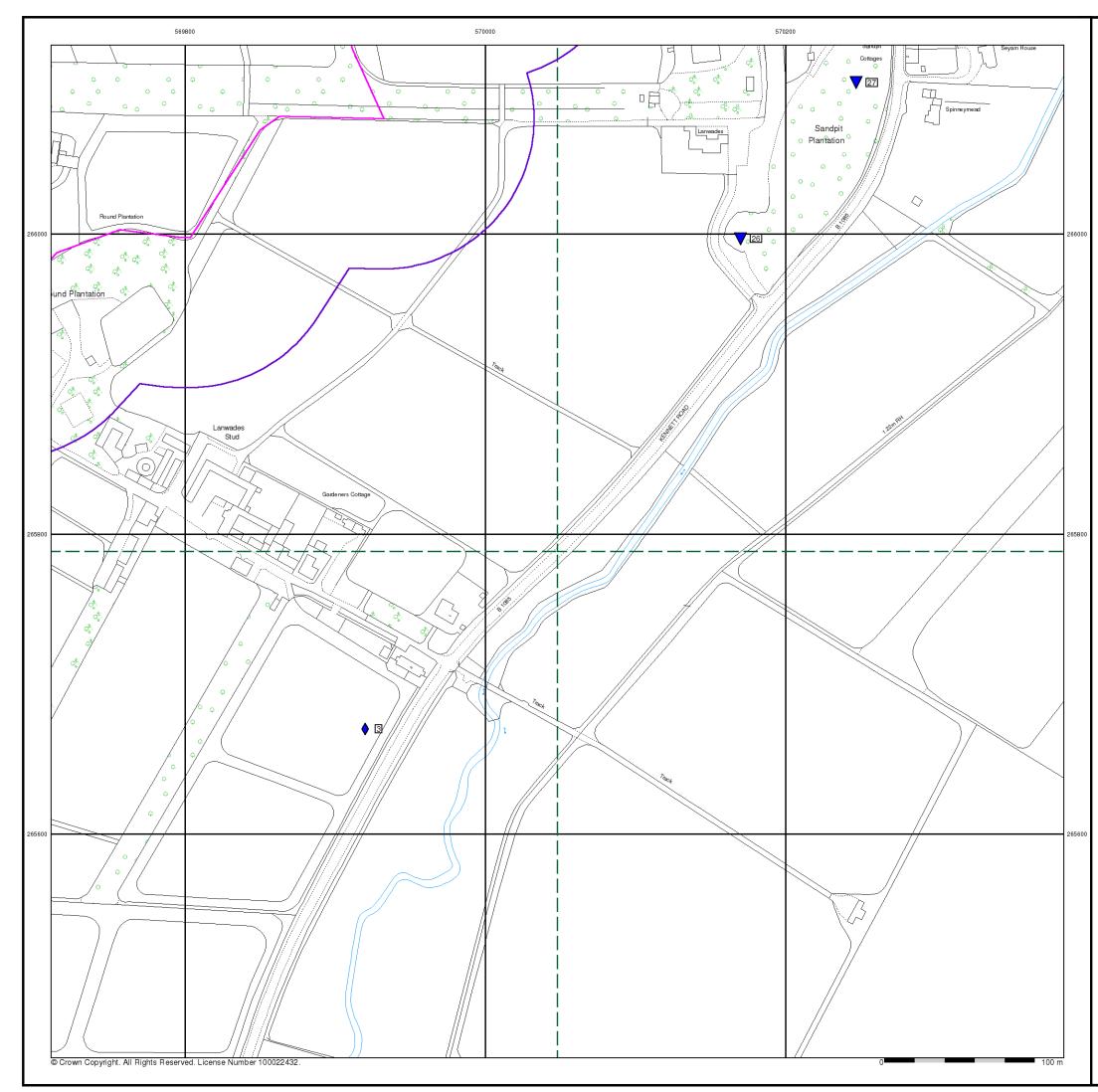
304894834_1_1 STU5875 e: 569140, 265870 A 51.85 100

Site Details

Lanwades Hall, Newmarket, CB8 7UA



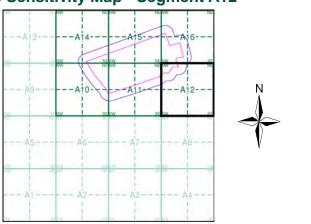
Tel: 0844 Fax: 0844 Web: www.



General



Site Sensitivity Map - Segment A12



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Plot Buffer (m):

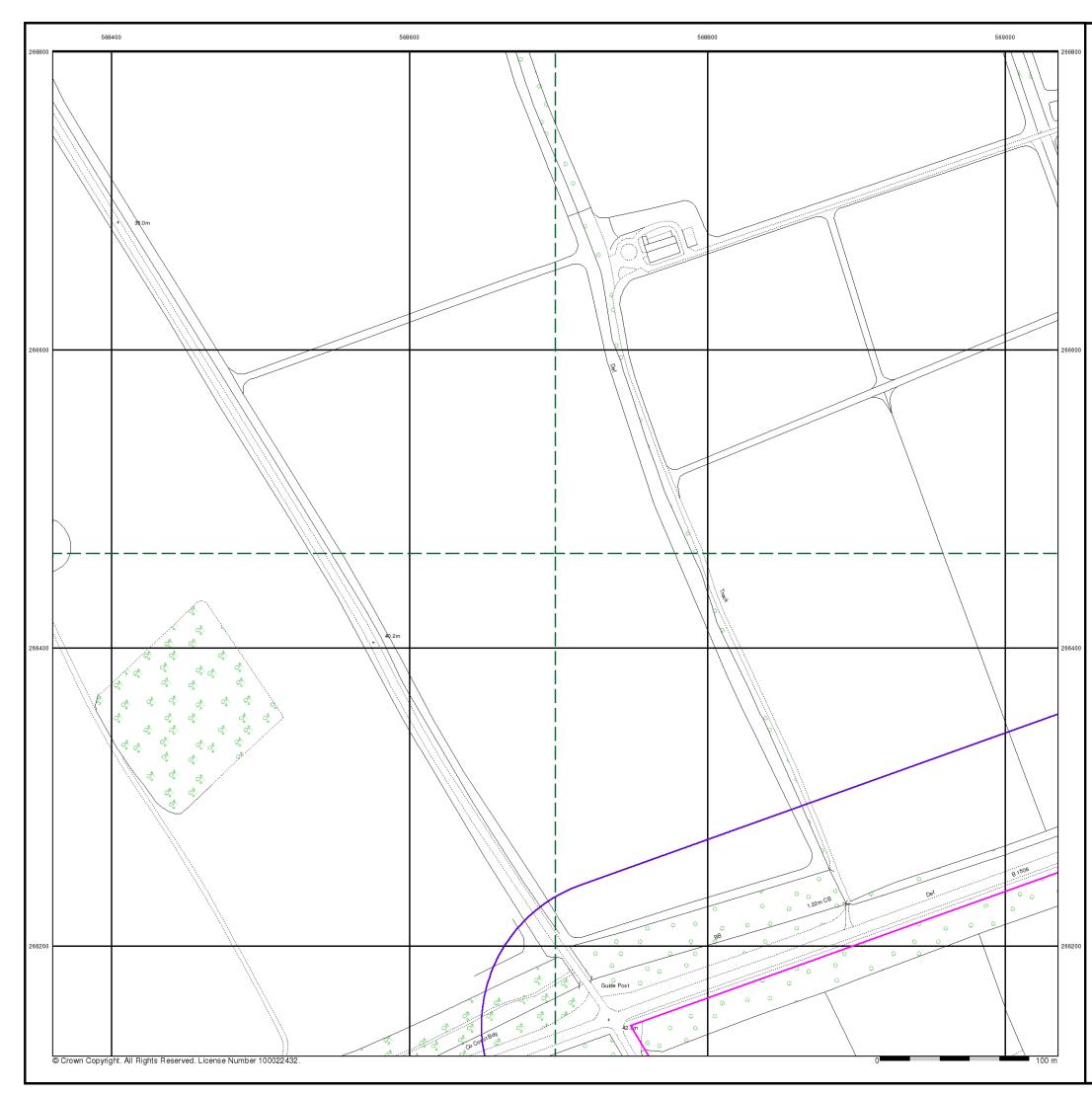
304894834_1_1 STU5875 : 569140, 265870 Α 51.85 100

Site Details

Lanwades Hall, Newmarket, CB8 7UA



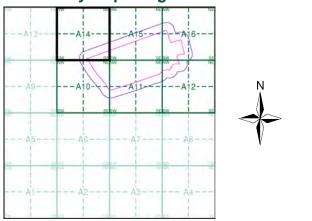
Tel: Fax: Web:



General



Site Sensitivity Map - Segment A14



Order Details

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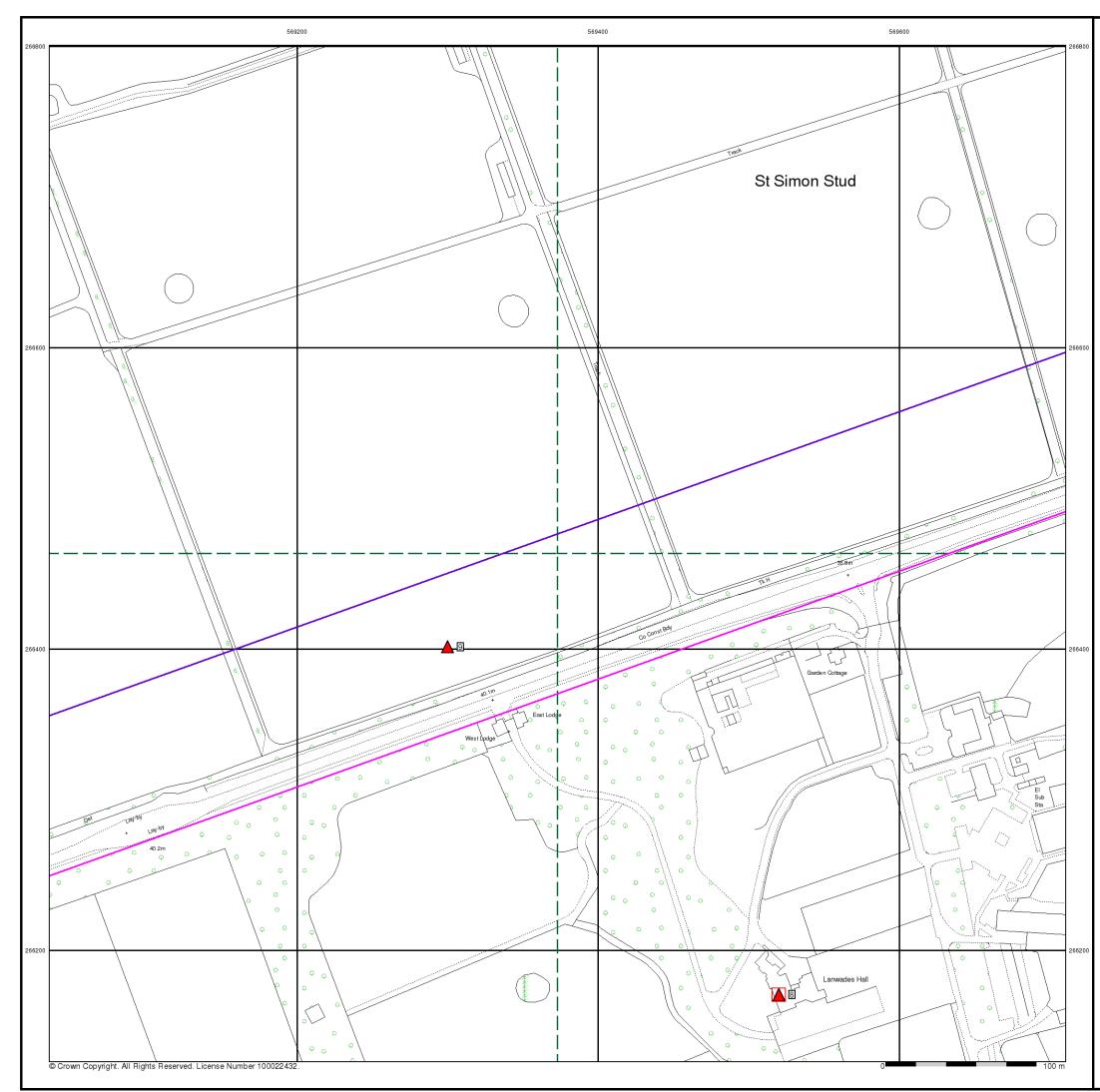
304894834_1_1 STU5875 e: 569140, 265870 A 51.85 100

Site Details

Lanwades Hall, Newmarket, CB8 7UA



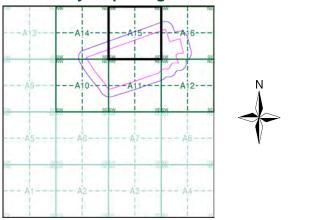
Tel: 0844 Fax: 0844 Web: www



General



Site Sensitivity Map - Segment A15



Order Details

••••••
Order Number:
Customer Ref:
National Grid Reference
Slice:
Site Area (Ha):
Plot Buffer (m):

304894834_1_1 STU5875 e: 569140, 265870 A 51.85 100

Site Details

Lanwades Hall, Newmarket, CB8 7UA



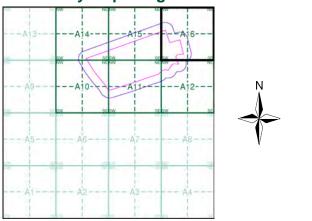
Tel: 0844 Fax: 0844 Web: www



General



Site Sensitivity Map - Segment A16



Order Details

Order Number:
Customer Ref:
National Grid Reference
Slice:
Site Area (Ha):
Plot Buffer (m):

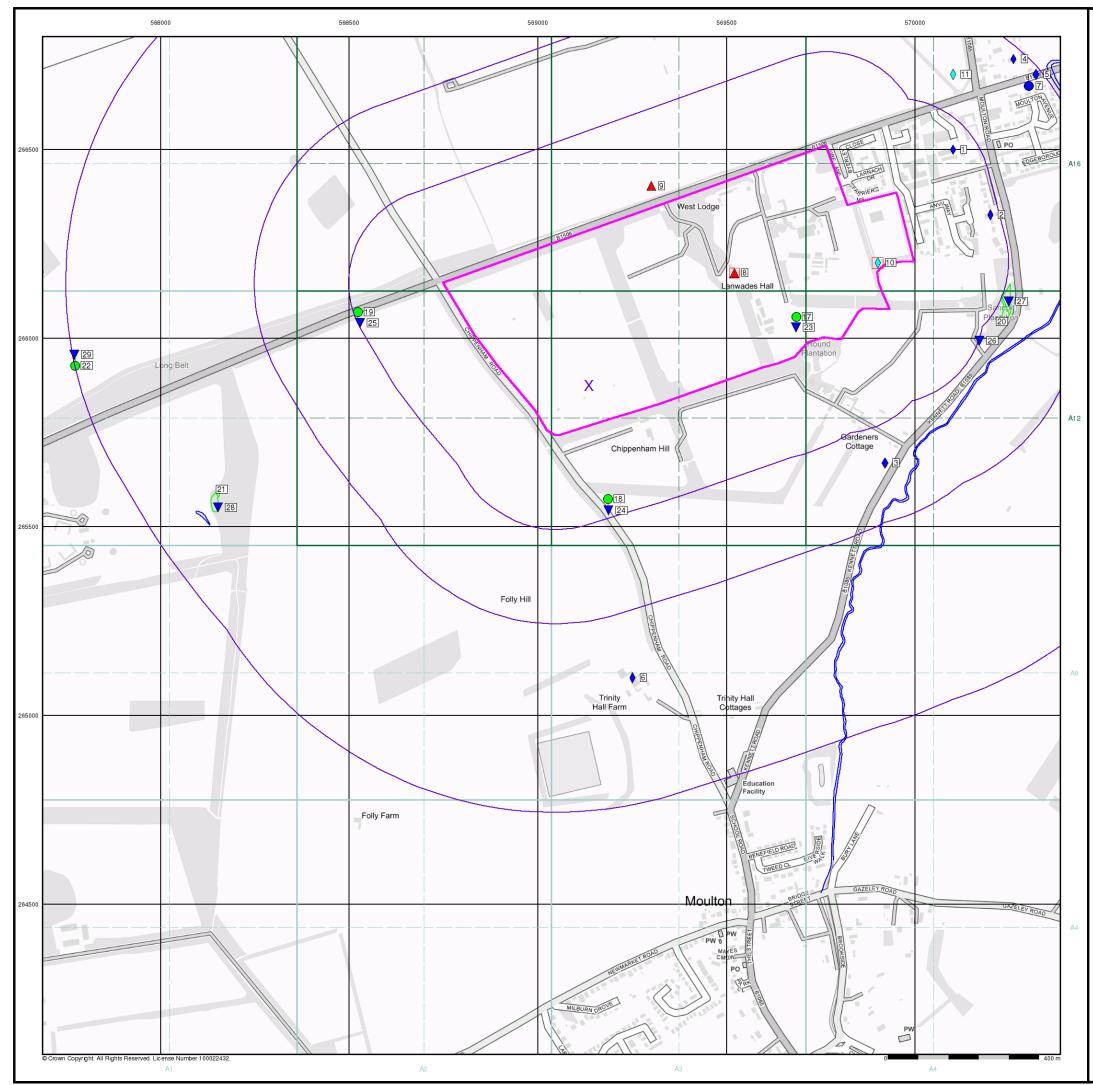
304894834_1_1 STU5875 e: 569140, 265870 Α 51.85 100

Site Details

Lanwades Hall, Newmarket, CB8 7UA



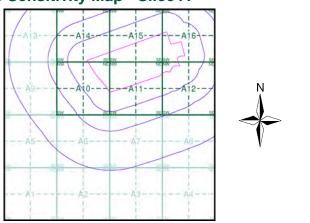
Tel: Fax: Web:



General

🔼 Specified Site 🛛 💍 Specified Buffer(s)	X Bearing Reference Point 🛛 8 Map ID
Several of Type at Location	
Agency and Hydrological	Waste
Contaminated Land Register Entry or Notice (Location)	BGS Recorded Landfill Site (Location)
Contaminated Land Register Entry or Notice	🔀 BGS Recorded Landfill Site
🔶 Discharge Consent	🔴 EA Historic Landfill (Buffered Point)
Enforcement or Prohibition Notice	EA Historic Landfill (Polygon)
A Integrated Pollution Control	Integrated Pollution Control Registered Waste Site
Integrated Pollution Prevention Control	Licensed Waste Management Facility (Landfill Boundary)
Local Authority Integrated Pollution Prevention and Control	Licensed Waste Management Facility (Location)
A Local Authority Pollution Prevention and Control	Local Authority Recorded Landfill Site (Location)
Control Enforcement	III Local Authority Recorded Landfill Site
Pollution Incident to Controlled Waters	😑 Potentially Infilled Land (Non-water)
Prosecution Relating to Authorised Processes	≻ Potentially Infilled Land (Non-water)
Prosecution Relating to Controlled Waters	Potentially Infilled Land (Non-water)
🛕 Registered Radioactive Substance	Potentially Infilled Land (Water)
🥆 River Network or Water Feature	Y Potentially Infilled Land (Water)
📫 River Quality Sampling Point	Potentially Infilled Land (Water)
合 Substantiated Pollution Incident Register	🚫 Registered Landfill Site
🔶 Water Abstraction	Registered Landfill Site (Location)
🔶 Water Industry Act Referral	Registered Landfill Site (Point Buffered to 100m)
Hazardous Substances	Registered Landfill Site (Point Buffered to 250m)
🌠 COMAH Site 🛛 🥻 Explosive Site	👚 Registered Waste Transfer Site (Location)
🙀 NIHHS Site	IIII Registered Waste Transfer Site
🗱 Planning Hazardous Substance Consent	Registered Waste Treatment or Disposal Site (Location)
Planning Hazardous Substance Enforcement	Registered Waste Treatment or Disposal Site
Geological	
BGS Recorded Mineral Site	

Site Sensitivity Map - Slice A



Order Details

Order Number: 304894834_1_1 Customer Ref: STU5875 National Grid Reference: 569140, 265870 Slice: Site Area (Ha): Search Buffer (m):

А 51.85 1000

Site Details

Lanwades Hall, Newmarket, CB8 7UA



Tel: Fax: Web:



Industrial Land Use Map

General

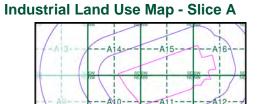


8 Map ID

Specified Site
Specified Buffer(s)
Specified Buffer(s)

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





Order Details

304894834_1_1 STU5875 Order Number: Customer Ref: National Grid Reference: 569140, 265870 Slice: Α Site Area (Ha): Search Buffer (m): 51.85 1000

Site Details

Lanwades Hall, Newmarket, CB8 7UA



Tel: Fax: Web:

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

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