

Results - 2 Stage WAC

Project: STU5875 Lanwades Park, Kentford, Newmarket

Chemtest Job No: 22-46484							Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1557565							Limits		
Sample Ref: 2							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID: HP030.402									
Sample Location: HP03									
Top Depth(m): 0.40									
Bottom Depth(m): 0.50									
Sampling Date: 21-Nov-2022									
Determinand	SOP	Accred.	Units						
Total Organic Carbon	2625	M	%	0.37			3	5	6
Loss On Ignition	2610	M	%	1.6			--	--	10
Total BTEX	2760	M	mg/kg	< 0.010			6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10			1	--	--
TPH Total WAC	2670	M	mg/kg	< 10			500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0			100	--	--
pH	2010	M		8.8			--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	< 0.0020			--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0040	0.0030	0.0079	0.030	0.5	2	25
Barium	1455	U	0.010	< 0.005	0.020	0.0074	20	100	300
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70
Copper	1455	U	0.0037	0.0020	0.0074	0.0028	2	50	100
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2
Molybdenum	1455	U	0.0042	0.0009	0.0084	0.012	0.5	10	30
Nickel	1455	U	0.0008	0.0006	0.0015	0.0057	0.4	10	40
Lead	1455	U	< 0.0005	0.0005	< 0.0005	0.0049	0.5	10	50
Antimony	1455	U	0.0062	0.0016	0.012	0.020	0.06	0.7	5
Selenium	1455	U	0.0016	0.0006	0.0031	0.0069	0.1	0.5	7
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200
Chloride	1220	U	1.5	< 1.0	< 10	< 10	800	15000	25000
Fluoride	1220	U	0.24	0.12	< 1.0	1.3	10	150	500
Sulphate	1220	U	24	3.9	48	54	1000	20000	50000
Total Dissolved Solids	1020	N	120	51	240	570	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	4.0	11	< 50	100	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	5.8

Leachate Test Information	
Leachant volume 1st extract/l	0.339
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.132

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge
650	Characterisation of Waste (Leaching WAC)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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N/E	not evaluated
<	"less than"
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SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Final Report

Report No.: 22-46501-1

Initial Date of Issue: 14-Dec-2022

Client: Soiltechnics Limited

Client Address: Cedar Barn
White Lodge
Walgrave
Northampton
Northamptonshire
NN6 9PY

Contact(s): Admin

Project: STU5875 Lanwades Park, Kentford,
Newmarket

Quotation No.: **Date Received:** 05-Dec-2022

Order No.: POR014186 **Date Instructed:** 05-Dec-2022

No. of Samples: 1

Turnaround (Wkdays): 7 **Results Due:** 13-Dec-2022

Date Approved: 14-Dec-2022

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - 2 Stage WAC

Project: STU5875 Lanwades Park, Kentford, Newmarket

Chemtest Job No: 22-46501 Chemtest Sample ID: 1557667 Sample Ref: 1 Sample ID: Sample Location: CS01 Top Depth(m): 0.00 Bottom Depth(m): 0.10 Sampling Date: 24-Nov-2022										Landfill Waste Acceptance Criteria Limits		
							Inert Waste Landfill	Stable, Non- reactive hazardous waste in non- hazardous Landfill	Hazardous Waste Landfill			
Determinand	SOP	Accred.	Units									
Total Organic Carbon	2625	M	%				1.8	3	5	6		
Loss On Ignition	2610	M	%				3.3	--	--	10		
Total BTEX	2760	M	mg/kg				< 0.010	6	--	--		
Total PCBs (7 Congeners)	2815	M	mg/kg				< 0.10	1	--	--		
TPH Total WAC	2670	M	mg/kg				< 10	500	--	--		
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--		
pH	2010	M					8.0	--	>6	--		
Acid Neutralisation Capacity	2015	N	mol/kg				0.0030	--	To evaluate	To evaluate		
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg					
Arsenic	1455	U	0.0013	0.0011	0.0026	0.011	0.5	2	25			
Barium	1455	U	0.015	< 0.005	0.029	0.011	20	100	300			
Cadmium	1455	U	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.04	1	5			
Chromium	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	70			
Copper	1455	U	0.0053	0.0021	0.011	0.0041	2	50	100			
Mercury	1455	U	< 0.00005	< 0.00005	< 0.00005	< 0.00005	0.01	0.2	2			
Molybdenum	1455	U	0.0023	0.0006	0.0045	0.0074	0.5	10	30			
Nickel	1455	U	0.0013	0.0006	0.0027	0.0063	0.4	10	40			
Lead	1455	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.5	10	50			
Antimony	1455	U	0.0009	< 0.0005	0.0018	0.0007	0.06	0.7	5			
Selenium	1455	U	0.0011	0.0005	0.0021	0.0056	0.1	0.5	7			
Zinc	1455	U	< 0.003	< 0.003	< 0.003	< 0.003	4	50	200			
Chloride	1220	U	1.8	< 1.0	< 10	< 10	800	15000	25000			
Fluoride	1220	U	0.40	0.27	< 1.0	2.8	10	150	500			
Sulphate	1220	U	< 1.0	< 1.0	< 10	< 10	1000	20000	50000			
Total Dissolved Solids	1020	N	180	76	360	840	4000	60000	100000			
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-			
Dissolved Organic Carbon	1610	U	11	7.4	< 50	77	500	800	1000			

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	15

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Leachant volume 1st extract/l	0.319
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customerservices@chemtest.com



Final Report

Report No.: 23-01923-1
Initial Date of Issue: 31-Jan-2023
Client: Soiltechnics Limited
Client Address: 1st Floor Unit 9 Westpoint Enterprise Park
Clarence Avenue
Trafford Park
Manchester
M17 1QS
Contact(s): Admin
Project: STU5875 Landwades Park, Kentford Newmarket

Quotation No.:		Date Received:	23-Jan-2023
Order No.:	POR014464	Date Instructed:	23-Jan-2023
No. of Samples:	2		
Turnaround (Wkdays):	5	Results Due:	27-Jan-2023
Date Approved:	31-Jan-2023		

Approved By:

Details: Stuart Henderson, Technical Manager

Results - Soil

Project: STU5875 Landwades Park, Kentford Newmarket

Client: Soiltechnics Limited	Chemtest Job No.:			23-01923	23-01923
Quotation No.:	Chemtest Sample ID.:			1577587	1577588
Order No.: POR014464	Client Sample Ref.:			2	3
	Client Sample ID.:			HP090.702	HP091.203
	Sample Location:			HP09	HP09
	Sample Type:			SOIL	SOIL
	Top Depth (m):			0.70	1.20
	Date Sampled:			13-Jan-2023	13-Jan-2023
	Asbestos Lab:			DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected
Moisture	N	2030	%	0.020	10
Soil Colour	N	2040		N/A	Brown
Other Material	N	2040		N/A	Stones, Roots and
Soil Texture	N	2040		N/A	Loam
pH	M	2010		4.0	8.0
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	0.42
Cyanide (Complex)	M	2300	mg/kg	0.50	< 0.50
Cyanide (Free)	M	2300	mg/kg	0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.50	< 0.50
Arsenic	M	2455	mg/kg	0.5	< 0.5
Beryllium	U	2455	mg/kg	0.5	< 0.5
Cadmium	M	2455	mg/kg	0.10	< 0.10
Chromium	M	2455	mg/kg	0.5	< 0.5
Copper	M	2455	mg/kg	0.50	0.63
Mercury	M	2455	mg/kg	0.05	< 0.05
Nickel	M	2455	mg/kg	0.50	0.55
Lead	M	2455	mg/kg	0.50	1.1
Selenium	M	2455	mg/kg	0.25	< 0.25
Vanadium	U	2455	mg/kg	0.5	1.0
Zinc	M	2455	mg/kg	0.50	4.2
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50
Organic Matter	M	2625	%	0.40	1.3
Naphthalene	M	2800	mg/kg	0.10	0.12
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	0.16
Fluorene	M	2800	mg/kg	0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	0.65
Anthracene	M	2800	mg/kg	0.10	0.19
Fluoranthene	M	2800	mg/kg	0.10	1.3
Pyrene	M	2800	mg/kg	0.10	1.1
Benzo[a]anthracene	M	2800	mg/kg	0.10	0.54
Chrysene	M	2800	mg/kg	0.10	0.40

Results - Soil

Project: STU5875 Landwades Park, Kentford Newmarket

Client: Soiltechnics Limited	Chemtest Job No.:		23-01923	23-01923		
Quotation No.:	Chemtest Sample ID.:		1577587	1577588		
Order No.: POR014464	Client Sample Ref.:		2	3		
	Client Sample ID.:		HP090.702	HP091.203		
	Sample Location:		HP09	HP09		
	Sample Type:		SOIL	SOIL		
	Top Depth (m):		0.70	1.20		
	Date Sampled:		13-Jan-2023	13-Jan-2023		
	Asbestos Lab:		DURHAM	DURHAM		
Determinand	Accred.	SOP	Units	LOD		
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	0.71	0.29
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	0.25	0.12
Benzo[a]pyrene	M	2800	mg/kg	0.10	0.52	0.18
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	0.33	0.19
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	0.38	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	6.7	2.3
Total Phenols	M	2920	mg/kg	0.10	< 0.10	< 0.10

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

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All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Appendix I Contamination Assessment Screening

GQRA Screening

Assessments	Status	Date	Created by	Reviewed By
Acute human health risk - Soils	Completed	01.02.23	SH	KB
Chronic human health risk - Soils	Completed	01.02.23	SH	KB
<i>Chronic human health risk - Groundwater vapour</i>	<i>Not undertaken</i>			
<i>Controlled waters risk - Surface water</i>	<i>Not undertaken</i>			
<i>Controlled waters risk - Drinking water</i>	<i>Not undertaken</i>			
<i>Controlled waters - Free phase indicator</i>	<i>Not undertaken</i>			
<i>Phytotoxicity</i>	<i>Not undertaken</i>			
<i>Ecotoxicity</i>	<i>Not undertaken</i>			

Key

Assessment	Abbr.	GQRA Source (in order of preference)	Last Update
All	NGA	No guideline value available	-
Acute human health risk - Soils	AGAC	Acute Generic Assessment Criteria (SoBRA)	April 2019
	sat.	Contaminant poses a low acute risk unless the soil saturation limit is exceeded and a free oil phase is present.	April 2019
Chronic human health risk - Soils	C4SL	Category 4 Screening Levels (DEFRA)	May 2021
	S4UL	Suitable 4 Use Levels (LQM)	August 2015
	ATK	Atrisk Soil Screening Values (Atkins)	June 2017
	CL:AIRE	Generic Assessment Criteria (CL:AIRE)	Jan 2010

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location		HP02	HP04	HP06	HP07	HP08	HP09	HP09	TP01	TP02	TP03
				Depth (m)	Date	0.50 - 0.60	0.30 - 0.50	0.30 - 0.50	0.20	0.50	0.70	1.20	0.00 - 0.10	0.60	0.10
Inorganics - Metals															
Arsenic	C4SL	37	51			11	13	51	11	< 0.5	13				
Beryllium	S4UL	1.7	0.9			0.6	0.6	0.6	< 0.5	< 0.5	0.9				
Boron	S4UL	290	1.1			< 0.40	< 0.40	0.72	< 0.40	0.42	0.72				
Cadmium	C4SL	22	0.3			0.26	0.14	0.3	0.11	< 0.10	0.24				
Chromium (III)	S4UL	910	25			25	19	20	15	< 0.5	24				
Chromium (VI)	C4SL	21	<LoD			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50				
Copper	S4UL	2400	25			8.8	9.3	15	7.1	0.63	14				
Cyanide - Free	ATK	34	<LoD			< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50				
Lead	C4SL	200	31			17	13	31	11	1.1	28				
Mercury	S4UL	40	0.07			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				
Nickel	S4UL	130	24			13	16	24	13	0.55	19				
Selenium	S4UL	250	0.79			0.55	0.57	0.75	0.41	< 0.25	0.79				
Vanadium	S4UL	410	45			45	41	41	31	1	41				
Zinc	S4UL	3700	66			45	37	66	26	4.2	57				
Inorganics - Asbestos															
Asbestos Type	N/A														
Asbestos Screen	N/A									No Asbestos Detected					
Inorganics - Soil Parameters															
Organic matter	N/A					0.97	0.5	1.4	< 0.40	1.3	100				
Organics - PAH & Phenol															
Acenaphthene	S4UL	210	0.18			< 0.10	< 0.10	< 0.10	< 0.050	0.16	0.18				
Acenaphthylene	S4UL	170	<LoD			< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10				
Anthracene	S4UL	2400	0.19			< 0.10	< 0.10	< 0.10	< 0.050	0.19	< 0.10				
Benzo(a)anthracene	S4UL	7.2	0.54			< 0.10	< 0.10	< 0.10	< 0.050	0.54	0.14				
Benzo(a)pyrene	C4SL	5	0.52			< 0.10	< 0.10	< 0.10	< 0.050	0.52	0.18				
Benzo(b)fluoranthene	S4UL	2.6	0.71			< 0.10	< 0.10	< 0.10	< 0.050	0.71	0.29				
Benzo(ghi)perylene	S4UL	320	0.38			< 0.10	< 0.10	< 0.10	< 0.050	0.38	< 0.10				
Benzo(k)fluoranthene	S4UL	77	0.25			< 0.10	< 0.10	< 0.10	< 0.050	0.25	0.12				
Chrysene	S4UL	15	0.4			< 0.10	< 0.10	< 0.10	< 0.050	0.4	0.12				
Dibenz(a,h)anthracene	S4UL	0.24	<LoD			< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10				
Fluoranthene	S4UL	280	1.3			0.3	< 0.10	0.22	< 0.050	1.3	0.35				
Fluorene	S4UL	170	<LoD			< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10				
Indeno(1,2,3-cd)pyrene	S4UL	27	0.33			< 0.10	< 0.10	< 0.10	< 0.050	0.33	0.19				
Naphthalene	S4UL	2.3	0.18			< 0.10	< 0.10	< 0.10	< 0.050	0.12	0.18				
Phenanthrene	S4UL	95	0.65			< 0.10	< 0.10	0.19	< 0.050	0.65	0.24				
Phenol	S4UL	120	<LoD			< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10				
Pyrene	S4UL	620	1.1			0.28	< 0.10	0.28	< 0.050	1.1	0.29				
Organics - TPH CWG and BTEX															
Benzene	C4SL	0.87	<LoD						< 0.001						
Toluene	S4UL	130	<LoD						< 0.001						
Ethylbenzene	S4UL	47	<LoD						< 0.001						
o-Xylene	S4UL	60	<LoD						< 0.001						
m & p-xylene	S4UL	56	<LoD						< 0.001						
Xylenes (sum of)	S4UL	56	<LoD						< 0.001						
EC05 - EC06 Aliphatic	S4UL	42	<LoD						< 1.0						
EC>06 - EC08 Aliphatic	S4UL	100	<LoD						< 1.0						
EC>08 - EC10 Aliphatic	S4UL	27	<LoD						< 1.0						
EC>10 - EC12 Aliphatic	S4UL	130	<LoD						< 1.0						
EC>12 - EC16 Aliphatic	S4UL	1100	<LoD						< 1.0						
EC>16 - EC21 Aliphatic	S4UL	65000	<LoD						< 1.0						
EC>21 - EC35 Aliphatic	S4UL	65000	<LoD						< 1.0						
EC5 - EC7 (benzene)	S4UL	70	<LoD						< 1.0						
EC7 - >EC8 (toluene)	S4UL	13	<LoD						< 1.0						
EC>08 - EC10 Aromatic	S4UL	34	<LoD						< 1.0						
EC>10 - EC12 Aromatic	S4UL	74	<LoD						< 1.0						
EC>12 - EC16 Aromatic	S4UL	140	<LoD						< 1.0						
EC>16 - EC21 Aromatic	S4UL	260	<LoD						< 1.0						
EC>21 - EC35 Aromatic	S4UL	1100	<LoD						< 1.0						
EC>35 - EC44 Aromatic	S4UL	1100	<LoD						< 1.0						

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP04	TP04	TP04	TP05	TP08	TP09	TP10	TP11	TP13	TP14
				Depth (m)	0.05	0.40	1.10 - 1.20	0.00 - 0.10	0.60	0.10	0.00 - 0.10	0.40	0.20	0.30
				Date	22/11/22	22/11/22	22/11/22	22/11/22	23/11/22	23/11/22	23/11/22	23/11/22	24/11/22	24/11/22
Inorganics - Metals														
Arsenic	C4SL	37	51						9.9					13
Beryllium	S4UL	1.7	0.9					< 0.5						0.5
Boron	S4UL	290	1.1					0.47						1.1
Cadmium	C4SL	22	0.3					0.14						0.2
Chromium (III)	S4UL	910	25					16						21
Chromium (VI)	C4SL	21	<LoD					< 0.50						< 0.50
Copper	S4UL	2400	25					13						25
Cyanide - Free	ATK	34	<LoD					< 0.50						< 0.50
Lead	C4SL	200	31					24						26
Mercury	S4UL	40	0.07					< 0.05						0.07
Nickel	S4UL	130	24					12						17
Selenium	S4UL	250	0.79					0.53						0.58
Vanadium	S4UL	410	45					34						45
Zinc	S4UL	3700	66					39						48
Inorganics - Asbestos														
Asbestos Type	N/A								-					-
Asbestos Screen	N/A								No Asbestos Detected					
Inorganics - Soil Parameters														
Organic matter	N/A								2.2					0.96
Organics - PAH & Phenol														
Acenaphthene	S4UL	210	0.18					< 0.10						< 0.050
Acenaphthylene	S4UL	170	<LoD					< 0.10						< 0.050
Anthracene	S4UL	2400	0.19					< 0.10						< 0.050
Benzo(a)anthracene	S4UL	7.2	0.54					< 0.10						0.15
Benzo(a)pyrene	C4SL	5	0.52					< 0.10						0.18
Benzo(b)fluoranthene	S4UL	2.6	0.71					< 0.10						0.2
Benzo(ghi)perylene	S4UL	320	0.38					< 0.10						0.11
Benzo(k)fluoranthene	S4UL	77	0.25					< 0.10						0.067
Chrysene	S4UL	15	0.4					< 0.10						0.19
Dibenz(a,h)anthracene	S4UL	0.24	<LoD					< 0.10						< 0.050
Fluoranthene	S4UL	280	1.3					< 0.10						0.44
Fluorene	S4UL	170	<LoD					< 0.10						< 0.050
Indeno(1,2,3-cd)pyrene	S4UL	27	0.33					< 0.10						0.089
Naphthalene	S4UL	2.3	0.18					< 0.10						< 0.050
Phenanthrene	S4UL	95	0.65					< 0.10						0.18
Phenol	S4UL	120	<LoD					< 0.10						< 0.050
Pyrene	S4UL	620	1.1					< 0.10						0.39
Organics - TPH CWG and BTEX														
Benzene	C4SL	0.87	<LoD											< 0.001
Toluene	S4UL	130	<LoD											< 0.001
Ethylbenzene	S4UL	47	<LoD											< 0.001
o-Xylene	S4UL	60	<LoD											< 0.001
m & p-xylene	S4UL	56	<LoD											< 0.001
Xylenes (sum of)	S4UL	56	<LoD											< 0.001
EC05 - EC06 Aliphatic	S4UL	42	<LoD											< 1.0
EC>06 - EC08 Aliphatic	S4UL	100	<LoD											< 1.0
EC>08 - EC10 Aliphatic	S4UL	27	<LoD											< 1.0
EC>10 - EC12 Aliphatic	S4UL	130	<LoD											< 1.0
EC>12 - EC16 Aliphatic	S4UL	1100	<LoD											< 1.0
EC>16 - EC21 Aliphatic	S4UL	65000	<LoD											< 1.0
EC>21 - EC35 Aliphatic	S4UL	65000	<LoD											< 1.0
EC5 - EC7 (benzene)	S4UL	70	<LoD											< 1.0
EC7 - >EC8 (toluene)	S4UL	13	<LoD											< 1.0
EC>08 - EC10 Aromatic	S4UL	34	<LoD											< 1.0
EC>10 - EC12 Aromatic	S4UL	74	<LoD											< 1.0
EC>12 - EC16 Aromatic	S4UL	140	<LoD											< 1.0
EC>16 - EC21 Aromatic	S4UL	260	<LoD											< 1.0
EC>21 - EC35 Aromatic	S4UL	1100	<LoD											< 1.0
EC>35 - EC44 Aromatic	S4UL	1100	<LoD											< 1.0

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value (mg/kg)	Max value (mg/kg)	Location	TP15	WS01	WS03	WS06	WS07	WS08	WS09	WS11
				Depth (m)	0.30	0.20 - 0.30	0.30 - 0.40	0.40	0.35	0.20	0.10	0.10
				Date	24/11/22	22/11/22	22/11/22	22/11/22	22/11/22	23/11/22	23/11/22	23/11/22
Inorganics - Metals												
Arsenic	C4SL	37	51					10	14	8.4	12	8.8
Beryllium	S4UL	1.7	0.9					0.5	0.5	<0.5	<0.5	<0.5
Boron	S4UL	290	1.1					<0.40	<0.40	<0.40	0.68	<0.40
Cadmium	C4SL	22	0.3					0.23	0.11	0.12	0.19	0.14
Chromium (III)	S4UL	910	25					12	16	20	15	19
Chromium (VI)	C4SL	21	<LoD					<0.50	<0.50	<0.50	<0.50	<0.50
Copper	S4UL	2400	25					12	6.5	8.2	5.9	10
Cyanide - Free	ATK	34	<LoD					<0.50	<0.50	<0.50	<0.50	<0.50
Lead	C4SL	200	31					31	10	13	9.6	21
Mercury	S4UL	40	0.07					<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	S4UL	130	24					17	13	16	12	16
Selenium	S4UL	250	0.79					0.59	0.47	0.6	0.45	0.64
Vanadium	S4UL	410	45					28	31	38	27	30
Zinc	S4UL	3700	66					50	27	37	31	49
Inorganics - Asbestos												
Asbestos Type		N/A										
Asbestos Screen		N/A										
Inorganics - Soil Parameters												
Organic matter		N/A										
Organics - PAH & Phenol												
Acenaphthene	S4UL	210	0.18					<0.10	<0.050	<0.050	<0.10	<0.10
Acenaphthylene	S4UL	170	<LoD					<0.10	<0.050	<0.050	<0.10	<0.10
Anthracene	S4UL	2400	0.19					<0.10	<0.050	<0.050	<0.10	<0.10
Benzo(a)anthracene	S4UL	7.2	0.54					<0.10	<0.050	<0.050	<0.10	<0.10
Benzo(a)pyrene	C4SL	5	0.52					<0.10	<0.050	<0.050	<0.10	<0.10
Benzo(b)fluoranthene	S4UL	2.6	0.71					<0.10	<0.050	<0.050	<0.10	<0.10
Benzo(ghi)perylene	S4UL	320	0.38					<0.10	<0.050	<0.050	<0.10	<0.10
Benzo(k)fluoranthene	S4UL	77	0.25					<0.10	<0.050	<0.050	<0.10	<0.10
Chrysene	S4UL	15	0.4					<0.10	<0.050	<0.050	<0.10	<0.10
Dibenz(a,h)anthracene	S4UL	0.24	<LoD					<0.10	<0.050	<0.050	<0.10	<0.10
Fluoranthene	S4UL	280	1.3					<0.10	<0.050	<0.050	<0.10	<0.10
Fluorene	S4UL	170	<LoD					<0.10	<0.050	<0.050	<0.10	<0.10
Indeno(1,2,3-cd)pyrene	S4UL	27	0.33					<0.10	<0.050	<0.050	<0.10	<0.10
Naphthalene	S4UL	2.3	0.18					<0.10	<0.050	<0.050	<0.10	<0.10
Phenanthrene	S4UL	95	0.65					<0.10	<0.050	<0.050	<0.10	<0.10
Phenol	S4UL	120	<LoD					<0.10	<0.050	<0.050	<0.10	<0.10
Pyrene	S4UL	620	1.1					<0.10	<0.050	<0.050	<0.10	<0.10
Organics - TPH CWG and BTEX												
Benzene	C4SL	0.87	<LoD					<0.001	<0.001			
Toluene	S4UL	130	<LoD					<0.001	<0.001			
Ethylbenzene	S4UL	47	<LoD					<0.001	<0.001			
o-Xylene	S4UL	60	<LoD					<0.001	<0.001			
m & p-xylene	S4UL	56	<LoD					<0.001	<0.001			
Xylenes (sum of)	S4UL	56	<LoD					<LoD	<LoD			
EC05 - EC06 Aliphatic	S4UL	42	<LoD					<1.0	<1.0			
EC>06 - EC08 Aliphatic	S4UL	100	<LoD					<1.0	<1.0			
EC>08 - EC10 Aliphatic	S4UL	27	<LoD					<1.0	<1.0			
EC>10 - EC12 Aliphatic	S4UL	130	<LoD					<1.0	<1.0			
EC>12 - EC16 Aliphatic	S4UL	1100	<LoD					<1.0	<1.0			
EC>16 - EC21 Aliphatic	S4UL	65000	<LoD					<1.0	<1.0			
EC>21 - EC35 Aliphatic	S4UL	65000	<LoD					<1.0	<1.0			
EC5 - EC7 (benzene)	S4UL	70	<LoD					<1.0	<1.0			
EC7 - >EC8 (toluene)	S4UL	13	<LoD					<1.0	<1.0			
EC>08 - EC10 Aromatic	S4UL	34	<LoD					<1.0	<1.0			
EC>10 - EC12 Aromatic	S4UL	74	<LoD					<1.0	<1.0			
EC>12 - EC16 Aromatic	S4UL	140	<LoD					<1.0	<1.0			
EC>16 - EC21 Aromatic	S4UL	260	<LoD					<1.0	<1.0			
EC>21 - EC35 Aromatic	S4UL	1100	<LoD					<1.0	<1.0			
EC>35 - EC44 Aromatic	S4UL	1100	<LoD					<1.0	<1.0			

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value	Max value	Location Depth (m)	HP02	HP04	HP06	HP07	HP08	HP09	HP09	TP01	TP02	TP03
					0.50 - 0.60	0.30 - 0.50	0.30 - 0.50	0.20	0.50	0.70	1.20	0.00 - 0.10	0.60	0.10
Organics - Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	S4UL	1.2	< LoD						< 0.002					
1,1,1-Trichloroethane	S4UL	8.8	< LoD						< 0.001					
1,1,2-Trichloroethane	CL:AIRE	0.6	< LoD						< 0.01					
1,1-Dichloroethane	CL:AIRE	2.4	< LoD						< 0.001					
1,1-Dichloroethene	CL:AIRE	0.23	< LoD						< 0.001					
1,1-Dichloropropene	NGA	NGA	< LoD						< 0.001					
1,2,3-Trichloropropane	NGA	NGA	< LoD						< 0.05					
1,2,4-Trimethylbenzene	CL:AIRE	0.35	< LoD						< 0.001					
1,2-Dibromo-3-chloropropane	NGA	NGA	< LoD						< 0.05					
1,2-Dibromoethane	NGA	NGA	< LoD						< 0.005					
1,2-Dichloroethane	S4UL	0.0071	< LoD						< 0.002					
1,2-Dichloropropane	CL:AIRE	0.024	< LoD						< 0.001					
1,3,5-Trimethylbenzene	NGA	NGA	< LoD						< 0.001					
1,3-Dichloropropane	NGA	NGA	< LoD						< 0.002					
2-Chlorotoluene	NGA	NGA	< LoD						< 0.001					
4-Chlorotoluene	NGA	NGA	< LoD						< 0.001					
Bromobenzene	CL:AIRE	0.87	< LoD						< 0.001					
Bromochloromethane	NGA	NGA	< LoD						< 0.005					
Bromodichloromethane	CL:AIRE	0.016	< LoD						< 0.005					
Bromoform	CL:AIRE	2.8	< LoD						< 0.001					
Bromomethane	NGA	NGA	< LoD						< 0.02					
Carbon Tetrachloride	S4UL	0.026	< LoD						< 0.001					
Chlorobenzene	S4UL	0.46	< LoD						< 0.001					
Chloroethane	CL:AIRE	8.3	< LoD						< 0.002					
Chloroform	S4UL	0.91	< LoD						< 0.001					
Chloromethane	CL:AIRE	0.0083	< LoD						< 0.001					
cis-1,2-Dichloroethene	CL:AIRE	0.11	< LoD						< 0.001					
cis-1,3-Dichloropropene	NGA	NGA	< LoD						< 0.01					
Dibromochloromethane	ATK	0.0878	< LoD						< 0.01					
Dibromomethane	NGA	NGA	< LoD						< 0.001					
Dichlorodifluoromethane	NGA	NGA	< LoD						< 0.001					
Isopropylbenzene	CL:AIRE	11	< LoD						< 0.001					
MTBE	CL:AIRE	49	< LoD						< 0.001					
n-Butylbenzene	NGA	NGA	< LoD						< 0.001					
n-Propylbenzene	CL:AIRE	34	< LoD						< 0.001					
p-Isopropyltoluene	NGA	NGA	< LoD						< 0.001					
sec-Butylbenzene	NGA	NGA	< LoD						< 0.001					
Styrene	CL:AIRE	8.1	< LoD						< 0.001					
tert-Butylbenzene	NGA	NGA	< LoD						< 0.001					
Tetrachloroethene	C4SL	0.31	< LoD						< 0.001					
trans-1,2-Dichloroethene	CL:AIRE	0.19	< LoD						< 0.001					
trans-1,3-Dichloropropene	NGA	NGA	< LoD						< 0.01					
Trichloroethene	C4SL	0.0093	< LoD						< 0.001					
Trichlorofluoromethane	NGA	NGA	< LoD						< 0.001					
Vinyl Chloride	C4SL	0.0064	< LoD						< 0.001					

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value	Max value	Location Depth (m)	TP04	TP04	TP04	TP05	TP08	TP09	TP10	TP11	TP13	TP14
					0.05	0.40	1.10 - 1.20	0.00 - 0.10	0.60	0.10	0.00 - 0.10	0.40	0.20	0.30
Organics - Volatile Organic Compounds (VOCs)														
1,1,1,2-Tetrachloroethane	S4UL	1.2	< LoD				< 0.002							
1,1,1-Trichloroethane	S4UL	8.8	< LoD				< 0.001							
1,1,2-Trichloroethane	CL:AIRE	0.6	< LoD				< 0.01							
1,1-Dichloroethane	CL:AIRE	2.4	< LoD				< 0.001							
1,1-Dichloroethene	CL:AIRE	0.23	< LoD				< 0.001							
1,1-Dichloropropene	NGA	NGA	< LoD				< 0.001							
1,2,3-Trichloropropane	NGA	NGA	< LoD				< 0.05							
1,2,4-Trimethylbenzene	CL:AIRE	0.35	< LoD				< 0.001							
1,2-Dibromo-3-chloropropane	NGA	NGA	< LoD				< 0.05							
1,2-Dibromoethane	NGA	NGA	< LoD				< 0.005							
1,2-Dichloroethane	S4UL	0.0071	< LoD				< 0.002							
1,2-Dichloropropane	CL:AIRE	0.024	< LoD				< 0.001							
1,3,5-Trimethylbenzene	NGA	NGA	< LoD				< 0.001							
1,3-Dichloropropane	NGA	NGA	< LoD				< 0.002							
2-Chlorotoluene	NGA	NGA	< LoD				< 0.001							
4-Chlorotoluene	NGA	NGA	< LoD				< 0.001							
Bromobenzene	CL:AIRE	0.87	< LoD				< 0.001							
Bromochloromethane	NGA	NGA	< LoD				< 0.005							
Bromodichloromethane	CL:AIRE	0.016	< LoD				< 0.005							
Bromoform	CL:AIRE	2.8	< LoD				< 0.001							
Bromomethane	NGA	NGA	< LoD				< 0.02							
Carbon Tetrachloride	S4UL	0.026	< LoD				< 0.001							
Chlorobenzene	S4UL	0.46	< LoD				< 0.001							
Chloroethane	CL:AIRE	8.3	< LoD				< 0.002							
Chloroform	S4UL	0.91	< LoD				< 0.001							
Chloromethane	CL:AIRE	0.0083	< LoD				< 0.001							
cis-1,2-Dichloroethene	CL:AIRE	0.11	< LoD				< 0.001							
cis-1,3-Dichloropropene	NGA	NGA	< LoD				< 0.01							
Dibromochloromethane	ATK	0.0878	< LoD				< 0.01							
Dibromomethane	NGA	NGA	< LoD				< 0.001							
Dichlorodifluoromethane	NGA	NGA	< LoD				< 0.001							
Isopropylbenzene	CL:AIRE	11	< LoD				< 0.001							
MTBE	CL:AIRE	49	< LoD				< 0.001							
n-Butylbenzene	NGA	NGA	< LoD				< 0.001							
n-Propylbenzene	CL:AIRE	34	< LoD				< 0.001							
p-Isopropyltoluene	NGA	NGA	< LoD				< 0.001							
sec-Butylbenzene	NGA	NGA	< LoD				< 0.001							
Styrene	CL:AIRE	8.1	< LoD				< 0.001							
tert-Butylbenzene	NGA	NGA	< LoD				< 0.001							
Tetrachloroethene	C4SL	0.31	< LoD				< 0.001							
trans-1,2-Dichloroethene	CL:AIRE	0.19	< LoD				< 0.001							
trans-1,3-Dichloropropene	NGA	NGA	< LoD				< 0.01							
Trichloroethene	C4SL	0.0093	< LoD				< 0.001							
Trichlorofluoromethane	NGA	NGA	< LoD				< 0.001							
Vinyl Chloride	C4SL	0.0064	< LoD				< 0.001							

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value	Max value	Location Depth (m)	TP15	WS01	WS03	WS06	WS07	WS08	WS09	WS11
					0.30	0.20 - 0.30	0.30 - 0.40	0.40	0.35	0.20	0.10	0.10
Organics - Volatile Organic Compounds (VOCs)												
1,1,1,2-Tetrachloroethane	S4UL	1.2	< LoD					< 0.002	< 0.002			
1,1,1-Trichloroethane	S4UL	8.8	< LoD					< 0.001	< 0.001			
1,1,2-Trichloroethane	CL:AIRE	0.6	< LoD					< 0.01	< 0.01			
1,1-Dichloroethane	CL:AIRE	2.4	< LoD					< 0.001	< 0.001			
1,1-Dichloroethene	CL:AIRE	0.23	< LoD					< 0.001	< 0.001			
1,1-Dichloropropene	NGA	NGA	< LoD					< 0.001	< 0.001			
1,2,3-Trichloropropane	NGA	NGA	< LoD					< 0.05	< 0.05			
1,2,4-Trimethylbenzene	CL:AIRE	0.35	< LoD					< 0.001	< 0.001			
1,2-Dibromo-3-chloropropane	NGA	NGA	< LoD					< 0.05	< 0.05			
1,2-Dibromoethane	NGA	NGA	< LoD					< 0.005	< 0.005			
1,2-Dichloroethane	S4UL	0.0071	< LoD					< 0.002	< 0.002			
1,2-Dichloropropane	CL:AIRE	0.024	< LoD					< 0.001	< 0.001			
1,3,5-Trimethylbenzene	NGA	NGA	< LoD					< 0.001	< 0.001			
1,3-Dichloropropane	NGA	NGA	< LoD					< 0.002	< 0.002			
2-Chlorotoluene	NGA	NGA	< LoD					< 0.001	< 0.001			
4-Chlorotoluene	NGA	NGA	< LoD					< 0.001	< 0.001			
Bromobenzene	CL:AIRE	0.87	< LoD					< 0.001	< 0.001			
Bromochloromethane	NGA	NGA	< LoD					< 0.005	< 0.005			
Bromodichloromethane	CL:AIRE	0.016	< LoD					< 0.005	< 0.005			
Bromoform	CL:AIRE	2.8	< LoD					< 0.001	< 0.001			
Bromomethane	NGA	NGA	< LoD					< 0.02	< 0.02			
Carbon Tetrachloride	S4UL	0.026	< LoD					< 0.001	< 0.001			
Chlorobenzene	S4UL	0.46	< LoD					< 0.001	< 0.001			
Chloroethane	CL:AIRE	8.3	< LoD					< 0.002	< 0.002			
Chloroform	S4UL	0.91	< LoD					< 0.001	< 0.001			
Chloromethane	CL:AIRE	0.0083	< LoD					< 0.001	< 0.001			
cis-1,2-Dichloroethene	CL:AIRE	0.11	< LoD					< 0.001	< 0.001			
cis-1,3-Dichloropropene	NGA	NGA	< LoD					< 0.01	< 0.01			
Dibromochloromethane	ATK	0.0878	< LoD					< 0.01	< 0.01			
Dibromomethane	NGA	NGA	< LoD					< 0.001	< 0.001			
Dichlorodifluoromethane	NGA	NGA	< LoD					< 0.001	< 0.001			
Isopropylbenzene	CL:AIRE	11	< LoD					< 0.001	< 0.001			
MTBE	CL:AIRE	49	< LoD					< 0.001	< 0.001			
n-Butylbenzene	NGA	NGA	< LoD					< 0.001	< 0.001			
n-Propylbenzene	CL:AIRE	34	< LoD					< 0.001	< 0.001			
p-Isopropyltoluene	NGA	NGA	< LoD					< 0.001	< 0.001			
sec-Butylbenzene	NGA	NGA	< LoD					< 0.001	< 0.001			
Styrene	CL:AIRE	8.1	< LoD					< 0.001	< 0.001			
tert-Butylbenzene	NGA	NGA	< LoD					< 0.001	< 0.001			
Tetrachloroethene	C4SL	0.31	< LoD					< 0.001	< 0.001			
trans-1,2-Dichloroethene	CL:AIRE	0.19	< LoD					< 0.001	< 0.001			
trans-1,3-Dichloropropene	NGA	NGA	< LoD					< 0.01	< 0.01			
Trichloroethene	C4SL	0.0093	< LoD					< 0.001	< 0.001			
Trichlorofluoromethane	NGA	NGA	< LoD					< 0.001	< 0.001			
Vinyl Chloride	C4SL	0.0064	< LoD					< 0.001	< 0.001			

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value	Max value	Location Depth (m)	HP02	HP04	HP06	HP07	HP08	HP09	HP09	TP01	TP02	TP03
					0.50 - 0.60	0.30 - 0.50	0.30 - 0.50	0.20	0.50	0.70	1.20	0.00 - 0.10	0.60	0.10
Organics - Semi-Volatile Organic Compounds (SVOCs)														
Chlorophenols (sum of)	S4UL	0.87	< LoD						< LoD					
Cresols (sum of)	CL:AIRE	80	< LoD						< LoD					
o-Cresol	NGA	NGA	< LoD						< 0.050					
1,2,4-Trichlorobenzene	S4UL	2.6	< LoD						< 0.050					
1,2-Dichlorobenzene	S4UL	23	< LoD						< 0.001					
1,3-Dichlorobenzene	S4UL	0.4	< LoD						< 0.001					
1,4-Dichlorobenzene	S4UL	61	< LoD						< 0.001					
2,4,5-Trichlorophenol	NGA	NGA	< LoD						< 0.050					
2,4,6-Trichlorophenol	NGA	NGA	< LoD						< 0.050					
2,4-Dichlorophenol	NGA	NGA	< LoD						< 0.050					
2,4-Dimethylphenol	CL:AIRE	19	< LoD						< 0.050					
2,4-Dinitrotoluene	CL:AIRE	1.5	< LoD						< 0.050					
2,6-Dinitrotoluene	CL:AIRE	0.78	< LoD						< 0.050					
2-Chloronaphthalene	CL:AIRE	3.7	< LoD						< 0.050					
2-Chlorophenol	NGA	NGA	< LoD						< 0.050					
2-Methyl-4,6-Dinitrophenol	NGA	NGA	< LoD						< 0.050					
2-Methylnaphthalene	NGA	NGA	< LoD						< 0.050					
2-Nitroaniline	NGA	NGA	< LoD						< 0.050					
2-Nitrophenol	NGA	NGA	< LoD						< 0.050					
3-Nitroaniline	NGA	NGA	< LoD						< 0.050					
4-Bromophenyl phenyl ether	NGA	NGA	< LoD						< 0.050					
4-Chloro-3-methylphenol	NGA	NGA	< LoD						< 0.050					
4-Chloroaniline	NGA	NGA	< LoD						< 0.050					
4-Chlorophenyl phenyl ether	NGA	NGA	< LoD						< 0.050					
4-Nitroaniline	NGA	NGA	< LoD						< 0.050					
4-Nitrophenol	NGA	NGA	< LoD						< 0.050					
Azobenzene	NGA	NGA	< LoD						< 0.050					
Benzyl butyl phthalate	CL:AIRE	1400	< LoD						< 0.050					
bis[2-chloroethoxy]methane	NGA	NGA	< LoD						< 0.050					
bis[2-chloroethyl]ether	NGA	NGA	< LoD						< 0.050					
bis[2-ethylhexyl]phthalate	CL:AIRE	280	0.35						< 0.050					
Carbazole	NGA	NGA	< LoD						< 0.050					
Dibenzofuran	NGA	NGA	< LoD						< 0.050					
Dibutyl phthalate	CL:AIRE	13	< LoD						< 0.050					
Diethyl phthalate	CL:AIRE	120	< LoD						< 0.050					
Dimethyl phthalate	NGA	NGA	< LoD						< 0.050					
Di-n-octyl phthalate	CL:AIRE	2300	< LoD						< 0.050					
Hexachlorobenzene	S4UL	1.8	< LoD						< 0.050					
Hexachlorobutadiene	S4UL	0.29	< LoD						< 0.050					
Hexachlorocyclopentadiene	NGA	NGA	< LoD						< 0.050					
Hexachloroethane	CL:AIRE	0.2	< LoD						< 0.050					
Isophorone	NGA	NGA	< LoD						< 0.050					
Nitrobenzene	NGA	NGA	< LoD						< 0.050					
p-Cresol	NGA	NGA	< LoD						< 0.050					

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value	Max value	Location Depth (m)	TP04	TP04	TP04	TP05	TP08	TP09	TP10	TP11	TP13	TP14
					0.05	0.40	1.10 - 1.20	0.00 - 0.10	0.60	0.10	0.00 - 0.10	0.40	0.20	0.30
Organics - Semi-Volatile Organic Compounds (SVOCs)														
Chlorophenols (sum of)	S4UL	0.87	< LoD											
Cresols (sum of)	CL:AIRE	80	< LoD											
o-Cresol	NGA	NGA	< LoD											
1,2,4-Trichlorobenzene	S4UL	2.6	< LoD											
1,2-Dichlorobenzene	S4UL	23	< LoD											
1,3-Dichlorobenzene	S4UL	0.4	< LoD											
1,4-Dichlorobenzene	S4UL	61	< LoD											
2,4,5-Trichlorophenol	NGA	NGA	< LoD											
2,4,6-Trichlorophenol	NGA	NGA	< LoD											
2,4-Dichlorophenol	NGA	NGA	< LoD											
2,4-Dimethylphenol	CL:AIRE	19	< LoD											
2,4-Dinitrotoluene	CL:AIRE	1.5	< LoD											
2,6-Dinitrotoluene	CL:AIRE	0.78	< LoD											
2-Chloronaphthalene	CL:AIRE	3.7	< LoD											
2-Chlorophenol	NGA	NGA	< LoD											
2-Methyl-4,6-Dinitrophenol	NGA	NGA	< LoD											
2-Methylnaphthalene	NGA	NGA	< LoD											
2-Nitroaniline	NGA	NGA	< LoD											
2-Nitrophenol	NGA	NGA	< LoD											
3-Nitroaniline	NGA	NGA	< LoD											
4-Bromophenyl phenyl ether	NGA	NGA	< LoD											
4-Chloro-3-methylphenol	NGA	NGA	< LoD											
4-Chloroaniline	NGA	NGA	< LoD											
4-Chlorophenyl phenyl ether	NGA	NGA	< LoD											
4-Nitroaniline	NGA	NGA	< LoD											
4-Nitrophenol	NGA	NGA	< LoD											
Azobenzene	NGA	NGA	< LoD											
Benzyl butyl phthalate	CL:AIRE	1400	< LoD											
bis(2-chloroethoxy)methane	NGA	NGA	< LoD											
bis(2-chloroethyl)ether	NGA	NGA	< LoD											
bis(2-ethylhexyl)phthalate	CL:AIRE	280	0.35											
Carbazole	NGA	NGA	< LoD											
Dibenzofuran	NGA	NGA	< LoD											
Dibutyl phthalate	CL:AIRE	13	< LoD											
Diethyl phthalate	CL:AIRE	120	< LoD											
Dimethyl phthalate	NGA	NGA	< LoD											
Di-n-octyl phthalate	CL:AIRE	2300	< LoD											
Hexachlorobenzene	S4UL	1.8	< LoD											
Hexachlorobutadiene	S4UL	0.29	< LoD											
Hexachlorocyclopentadiene	NGA	NGA	< LoD											
Hexachloroethane	CL:AIRE	0.2	< LoD											
Isophorone	NGA	NGA	< LoD											
Nitrobenzene	NGA	NGA	< LoD											
p-Cresol	NGA	NGA	< LoD											

Chronic human health risk (soils)

Scenario	
End user	Proposed site user
Receptor	Residential with homegrown produce
SOM	1.00%
GAC Preference	C4SLs over S4ULs

Contaminant	Guideline source	Guideline value	Max value	Location	TP15	WS01	WS03	WS06	WS07	WS08	WS09	WS11
				Depth (m)	0.30	0.20 - 0.30	0.30 - 0.40	0.40	0.35	0.20	0.10	0.10
Organics - Semi-Volatile Organic Compounds (SVOCs)												
Chlorophenols (sum of)	S4UL	0.87	< LoD					< LoD	< LoD			
Cresols (sum of)	CL:AIRE	80	< LoD					< LoD	< LoD			
o-Cresol	NGA	NGA	< LoD					< 0.050	< 0.050			
1,2,4-Trichlorobenzene	S4UL	2.6	< LoD					< 0.001	< 0.001			
1,2-Dichlorobenzene	S4UL	23	< LoD					< 0.050	< 0.001			
1,3-Dichlorobenzene	S4UL	0.4	< LoD					< 0.001	< 0.001			
1,4-Dichlorobenzene	S4UL	61	< LoD					< 0.001	< 0.050			
2,4,5-Trichlorophenol	NGA	NGA	< LoD					< 0.050	< 0.050			
2,4,6-Trichlorophenol	NGA	NGA	< LoD					< 0.050	< 0.050			
2,4-Dichlorophenol	NGA	NGA	< LoD					< 0.050	< 0.050			
2,4-Dimethylphenol	CL:AIRE	19	< LoD					< 0.050	< 0.050			
2,4-Dinitrotoluene	CL:AIRE	1.5	< LoD					< 0.050	< 0.050			
2,6-Dinitrotoluene	CL:AIRE	0.78	< LoD					< 0.050	< 0.050			
2-Chloronaphthalene	CL:AIRE	3.7	< LoD					< 0.050	< 0.050			
2-Chlorophenol	NGA	NGA	< LoD					< 0.050	< 0.050			
2-Methyl-4,6-Dinitrophenol	NGA	NGA	< LoD					< 0.050	< 0.050			
2-Methylnaphthalene	NGA	NGA	< LoD					< 0.050	< 0.050			
2-Nitroaniline	NGA	NGA	< LoD					< 0.050	< 0.050			
2-Nitrophenol	NGA	NGA	< LoD					< 0.050	< 0.050			
3-Nitroaniline	NGA	NGA	< LoD					< 0.050	< 0.050			
4-Bromophenyl phenyl ether	NGA	NGA	< LoD					< 0.050	< 0.050			
4-Chloro-3-methylphenol	NGA	NGA	< LoD					< 0.050	< 0.050			
4-Chloroaniline	NGA	NGA	< LoD					< 0.050	< 0.050			
4-Chlorophenyl phenyl ether	NGA	NGA	< LoD					< 0.050	< 0.050			
4-Nitroaniline	NGA	NGA	< LoD					< 0.050	< 0.050			
4-Nitrophenol	NGA	NGA	< LoD					< 0.050	< 0.050			
Azobenzene	NGA	NGA	< LoD					< 0.050	< 0.050			
Benzyl butyl phthalate	CL:AIRE	1400	< LoD					< 0.050	< 0.050			
bis[2-chloroethoxy]methane	NGA	NGA	< LoD					< 0.050	< 0.050			
bis[2-chloroethyl]ether	NGA	NGA	< LoD					< 0.050	< 0.050			
bis[2-ethylhexyl]phthalate	CL:AIRE	280	0.35					< 0.050	< 0.050			
Carbazole	NGA	NGA	< LoD					< 0.050	< 0.050			
Dibenzofuran	NGA	NGA	< LoD					< 0.050	< 0.050			
Dibutyl phthalate	CL:AIRE	13	< LoD					< 0.050	< 0.050			
Diethyl phthalate	CL:AIRE	120	< LoD					< 0.050	< 0.050			
Dimethyl phthalate	NGA	NGA	< LoD					< 0.050	< 0.050			
Di-n-octyl phthalate	CL:AIRE	2300	< LoD					< 0.050	< 0.050			
Hexachlorobenzene	S4UL	1.8	< LoD					< 0.050	< 0.050			
Hexachlorobutadiene	S4UL	0.29	< LoD					< 0.050	< 0.050			
Hexachlorocyclopentadiene	NGA	NGA	< LoD					< 0.050	< 0.050			
Hexachloroethane	CL:AIRE	0.2	< LoD					< 0.050	< 0.050			
Isophorone	NGA	NGA	< LoD					< 0.050	< 0.050			
Nitrobenzene	NGA	NGA	< LoD					< 0.050	< 0.050			
p-Cresol	NGA	NGA	< LoD					< 0.050	< 0.050			

Acute human health risk (soils)

Scenario	Off-site public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	N/A
Demal exposure	N/A
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	HP02	HP04	HP07	HP08	HP09	HP09	TP04	TP04	WS01	WS06	WS07
					Depth (m)	0.50 - 0.60	0.30 - 0.50	0.20	0.50	0.70	1.20	0.40	1.10 - 1.20	0.20 - 0.30	0.40	0.35
					Date	21/11/22	21/11/22	24/11/22	25/11/22	13/01/23	13/01/23	22/11/22	22/11/22	22/11/22	22/11/22	22/11/22
Inorganics																
Arsenic	AGAC	Inhalation	7,000,000	51		11	13	51	11	< 0.5	13	9.9	13	36	10	14
Cadmium	AGAC	Inhalation	1,800,000	0.3		0.26	0.14	0.3	0.11	< 0.10	0.24	0.14	0.2	0.23	0.11	0.12
Cyanide - Free	AGAC	Inhalation	380	<LoD		< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organics																
Benzene	AGAC	Inhalation	120	<LoD					< 0.001				< 0.001		< 0.001	< 0.001
Phenol	AGAC	**sat.**	**sat.**	<LoD		< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.10	< 0.10	< 0.050	< 0.10	< 0.050	< 0.050
Trichloroethene	AGAC	Inhalation	8,000	<LoD					< 0.001				< 0.001		< 0.001	< 0.001
Vinyl Chloride	AGAC	Inhalation	98	<LoD					< 0.001				< 0.001		< 0.001	< 0.001

Acute human health risk (soils)

Scenario	Off-site public exposure
Critical receptor	Young female child (1 to 2 years old)
Oral exposure	N/A
Demal exposure	N/A
Inhalation exposure	30 mins exposure to a child off-site, from dusts and vapours generated during excavation

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	WS08	WS09	WS11
					Depth (m)	0.20	0.10	0.10
					Date	23/11/22	23/11/22	23/11/22
Inorganics								
Arsenic	AGAC	Inhalation	7,000,000	51		8.4	12	8.8
Cadmium	AGAC	Inhalation	1,800,000	0.3		0.12	0.19	0.14
Cyanide - Free	AGAC	Inhalation	380	<LoD		< 0.50	< 0.50	< 0.50
Organics								
Benzene	AGAC	Inhalation	120	<LoD				
Phenol	AGAC	**sat.**	**sat.**	<LoD		< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	8,000	<LoD				
Vinyl Chloride	AGAC	Inhalation	98	<LoD				

Acute human health risk (soils)

Scenario	Occupational exposure (construction worker)
Critical receptor	Adult female worker
Oral exposure	Ingestion of soil and dusts over a single working day
Demal exposure	Soil being left on the skin for several hours, assumed no PPE worn
Inhalation exposure	30 mins exposure - worker standing adjacent to active excavation (assumed no RPE)

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	HP02	HP04	HP07	HP08	HP09	HP09	TP04	TP04	WS01	WS06	WS07
					Depth (m)	0.50 - 0.60	0.30 - 0.50	0.20	0.50	0.70	1.20	0.40	1.10 - 1.20	0.20 - 0.30	0.40	0.35
					Date	21/11/22	21/11/22	24/11/22	25/11/22	13/01/23	13/01/23	22/11/22	22/11/22	22/11/22	22/11/22	22/11/22
Inorganics																
Arsenic	AGAC	Oral	7,000	51		11	13	51	11	<0.5	13	9.9	13	36	10	14
Cadmium	AGAC	Oral	12,000	0.3		0.26	0.14	0.3	0.11	<0.10	0.24	0.14	0.2	0.23	0.11	0.12
Cyanide - Free	AGAC	Oral & Inhalation	1,400	<LoD		<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Organics																
Benzene	AGAC	Inhalation	240	<LoD					<0.001				<0.001		<0.001	<0.001
Phenol	AGAC	**sat.**	**sat.**	<LoD		<0.10	<0.10	<0.10	<0.050	<0.10	<0.10	<0.10	<0.050	<0.10	<0.050	<0.050
Trichloroethene	AGAC	Inhalation	16,000	<LoD					<0.001				<0.001		<0.001	<0.001
Vinyl Chloride	AGAC	Inhalation	220	<LoD					<0.001				<0.001		<0.001	<0.001

Acute human health risk (soils)

Scenario	Occupational exposure (construction worker)
Critical receptor	Adult female worker
Oral exposure	Ingestion of soil and dusts over a single working day
Demal exposure	Soil being left on the skin for several hours, assumed no PPE worn
Inhalation exposure	30 mins exposure - worker standing adjacent to active excavation (assumed no RPE)

Contaminant	Guideline source	Principal pathway	Guideline value (mg/kg)	Max value (mg/kg)	Location	WS08	WS09	WS11
					Depth (m)	0.20	0.10	0.10
					Date	23/11/22	23/11/22	23/11/22
Inorganics								
Arsenic	AGAC	Oral	7,000	51		8.4	12	8.8
Cadmium	AGAC	Oral	12,000	0.3		0.12	0.19	0.14
Cyanide - Free	AGAC	Oral & Inhalation	1,400	<LoD		< 0.50	< 0.50	< 0.50
Organics								
Benzene	AGAC	Inhalation	240	<LoD				
Phenol	AGAC	**sat.**	**sat.**	<LoD		< 0.10	< 0.10	< 0.10
Trichloroethene	AGAC	Inhalation	16,000	<LoD				
Vinyl Chloride	AGAC	Inhalation	220	<LoD				

Appendix J Waste Characterisation Analysis

Waste Classification Assessment Summary

Waste population	Made Ground
Hazard assessment	Non-hazardous waste
List of waste code	17-05-04
List of waste description	Soil and stones other than those mentioned in 17-05-03

Hazard property	Assessment
HP1 - Explosive	Not hazardous by HP1
HP2 - Oxidising	Not hazardous by HP2
HP3 - Flammable	Not hazardous by HP3
HP4 - Irritant	Not hazardous by HP4
HP5 - STOT & aspiration toxicity	Not hazardous by HP5
HP6 - Acute toxicity	Not hazardous by HP6
HP7 - Carcinogenic	Not hazardous by HP7
HP8 - Corrosive	Not hazardous by HP8
HP9 - Infectious	Not hazardous by HP9
HP10 - Toxic for reproduction	Not hazardous by HP10
HP11 - Mutagenic	Not hazardous by HP11
HP12 - Release of an acute toxic gas	Not hazardous by HP12
HP13 - Sensitising	Not hazardous by HP13
HP14 - Ecotoxic	Not hazardous by HP14

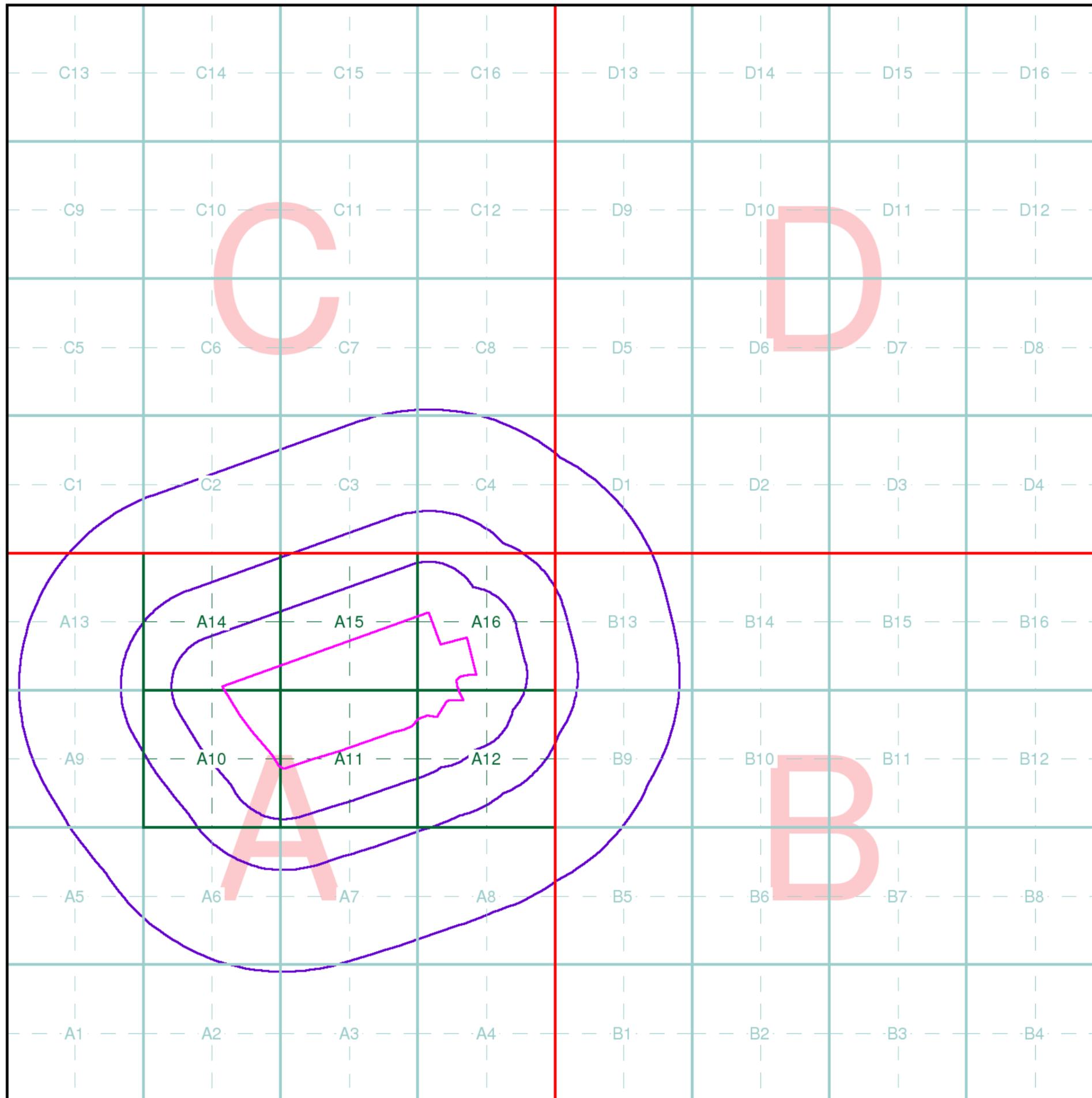
Waste acceptance

Parameter	Inert waste landfill	Stable non-reactive hazardous waste in a non-hazardous landfill cell (SNRHW)	Hazardous waste landfill	Location	
				Depth (m)	
				Date	
Parameters determined on the waste				CS01	HP03
				0.00 - 0.10	0.40 - 0.50
				24/11/22	21/11/22
Total organic carbon	3	5	6	1.8	0.37
Loss on ignition			10	3.3	1.6
BTEX	6			< 0.010	< 0.010
PCBs (7 congeners)	1			< 0.10	< 0.10
Mineral oil	500			< 10	< 10
PAH (17 congeners)	100			< 2.0	< 2.0
pH		6		8	8.8
Acid neutralisation capacity (pH 6)		To be evaluated	To be evaluated	0.003	< 0.0020
Limit values (mg kg⁻¹) for compliance test using BN 12457-3 at L/S 10 l					
Arsenic	0.5	2	25	0.011	0.03
Barium	20	100	300	0.011	0.0074
Cadmium	0.04	1	5	< 0.00011	< 0.00011
Chromium (III)	0.5	10	70	< 0.0005	< 0.0005
Copper	2	50	100	0.0041	0.0028
Mercury	0.01	0.2	2	< 0.00005	< 0.00005
Molybdenum	0.5	10	30	0.0074	0.012
Nickel	0.4	10	40	0.0063	0.0057
Lead	0.5	10	50	< 0.0005	0.0049
Antimony	0.06	0.7	5	0.0007	0.02
Selenium	0.1	0.5	7	0.0056	0.0069
Zinc	4	50	200	< 0.003	< 0.003
Chloride	800	15,000	25,000	< 10	< 10
Fluoride	10	150	500	2.8	1.3
Sulphate	1,000	20,000	50,000	< 10	54
Total dissolved solids	4,000	60,000	100,000	840	570
Phenol	1			< 0.50	< 0.50
Dissolved organic carbon	500	800	1000	77	100
Classifications					
Waste classification				Non-hazardous	Non-hazardous
Landfill type				Inert	Inert

Key Notes:

- 1) The values for total dissolved solids (TDS) can be used alternatively to the values for sulphate and chloride.
- 2) Soils with TOC values over the limit value may still be accepted provided the DOC value falls are below it's respective limit value.
- 3) In a hazardous waste, either the TOC or LOI must be used.

Appendix K Envirocheck Report



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:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Ms S Ltd, Soiltechnics, Cedar Barn, White Lodge, Walgrave, Northampton, NN6 9PY

Order Details

Order Number: 304894834_1_1
 Customer Ref: STU5875
 National Grid Reference: 569390, 266120
 Site Area (Ha): 51.85
 Search Buffer (m): 1000

Site Details

Lanwades Hall, Newmarket, CB8 7UA

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

304894834_1_1

Customer Reference:

STU5875

National Grid Reference:

569140, 265870

Slice:

A

Site Area (Ha):

51.85

Search Buffer (m):

1000

Site Details:

Lanwades Hall

Newmarket

CB8 7UA

Client Details:

Ms S Ltd

Soiltechnics

Cedar Barn

White Lodge

Walgrave

Northampton

NN6 9PY

Report Section	Page Number
Summary	-
Agency & Hydrological	1
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Sensitive Land Use	25
Data Currency	26
Data Suppliers	32
Useful Contacts	33

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

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 2		2	3	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 3			Yes	
Pollution Incidents to Controlled Waters	pg 4			1	
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 4	10	1		
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6	4		1	(*18)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 11	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 13	4	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Source Protection Zones	pg 13	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 14			1	1

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 15	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 15	1	2	1	2
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					

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 16	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 16	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 17	1	2	2	2
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	pg 18	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 21	2	21	6	
Fuel Station Entries					
Points of Interest - Commercial Services	pg 23			2	
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 23	1	3	1	
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas	pg 25				1
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 25	2			
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: Limited Potential for Groundwater Flooding to Occur	A11NW (SE)	0	1	569135 265875
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (E)	3	1	570000 266000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SW (NE)	82	1	570000 266450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (E)	103	1	570000 265900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16NW (NE)	115	1	569950 266500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (E)	138	1	569900 265875
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (E)	148	1	569800 265850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (E)	148	1	569700 265800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	173	1	570050 265900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NW (E)	177	1	569900 265850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	181	1	569650 265750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	185	1	570100 265950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NW (E)	190	1	570000 265875
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NW (E)	193	1	569800 265800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (E)	194	1	569700 265750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (SE)	204	1	569650 265650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NW (E)	209	1	569950 265850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NW (E)	211	1	570000 265850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	211	1	569600 265700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (E)	228	1	569650 265700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	231	1	570150 265950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (SE)	242	1	569450 265550

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	A11SE (SE)	247	1	569700 265550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (E)	254	1	570200 266000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	259	1	570250 266000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (SE)	259	1	569600 265650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (SE)	336	1	569550 265550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16NW (NE)	337	1	570000 266750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (E)	385	1	570350 266000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NE (N)	437	1	569000 266700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	488	1	570500 266000
1	Discharge Consents Operator: The Animal Health Trust Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Small Animal Centre, Kennett Authority: Environment Agency, Anglian Region Catchment Area: River Kennett (Chippenham) Reference: Pr1nf429 Permit Version: 1 Effective Date: 20th August 1963 Issued Date: 20th August 1963 Revocation Date: 19th February 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unknown Trib Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A16NE (NE)	189	2	570100 266500
2	Discharge Consents Operator: Mr Gem Bandaranaike Property Type: Domestic Property (Single) Location: Pentlands, Moulton Road, Newmarket, Suffolk, Cb8 8qt Authority: Environment Agency, Anglian Region Catchment Area: River Kennett (Chippenham) Reference: Npswqd003017 Permit Version: 1 Effective Date: 1st September 2008 Issued Date: 1st September 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A16SE (NE)	227	2	570199 266327

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Alastair Watson Property Type: Not Supplied Location: Lanwades Stud Moulton, Newmarket, Suffolk, Cb8 8qs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prclf03144 Permit Version: 1 Effective Date: 12th July 1990 Issued Date: 12th July 1990 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m</p>	A12SW (E)	348	2	569920 265670
4	<p>Discharge Consents</p> <p>Operator: Baker Alec & Emma Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: New Dwelling Adj Kennet End Cottage Bury Road, Kennet, Cambs, Cb8 7pp Authority: Environment Agency, Anglian Region Catchment Area: River Kennett (Chippenham) Reference: Prclf17336 Permit Version: 1 Effective Date: 27th August 2004 Issued Date: 27th August 2004 Revocation Date: 27th August 2016 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Not Supplied Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A16NE (NE)	471	2	570260 266740
5	<p>Discharge Consents</p> <p>Operator: Rossdale & Partners Property Type: Not Supplied Location: The Equine Hospital Becklyn, Bury Road, Kennet End, Cambs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prclf02949 Permit Version: 1 Effective Date: 7th June 1990 Issued Date: 7th June 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Onto Land Environment: Receiving Water: Land Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m</p>	A16NE (NE)	486	2	570320 266700
6	<p>Discharge Consents</p> <p>Operator: E F Saltmarsh & Sons Property Type: Arable Farming Location: Trinity Hall Farm Chippenham Road, Moulton, Suffolk, Cb8 8sn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Gwclf30273 Permit Version: 1 Effective Date: 31st March 1999 Issued Date: 1st February 2001 Revocation Date: 8th April 2004 Discharge Type: Trade Discharge - Agricultural And Surface Discharge: Onto Land Environment: Receiving Water: Groundwater Status: Deemed Groundwater Regulations Authorisation Positional Accuracy: Located by supplier to within 10m</p>	A7SW (S)	672	2	569250 265100
	<p>Nearest Surface Water Feature</p>	A12NE (E)	295	-	570132 265846

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Private Sewage (Non-PLC): Other Location: Ely District Authority: Environment Agency, Anglian Region Pollutant: Crude Sewage Note: Groundwater Incident Date: 11th January 1996 Incident Reference: 3334 Catchment Area: Not Given Receiving Water: Groundwater Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A16NE (NE)	471	2	570300 266700
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: CB6089 Dated: 17th August 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Automatically positioned to the address</p>	A15SE (NE)	0	2	569521 266169
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: Bt4273 Dated: 20th December 2002 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: Bt4575 Dated: 20th December 2002 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: AZ8455 Dated: 4th November 1997 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: AZ8447 Dated: 4th November 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: AH9243 Dated: 25th August 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Substantial variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: AF5042 Dated: 30th July 1992 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: AC9661 Dated: 31st March 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1)</p> <p>Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
8	<p>Registered Radioactive Substances</p> <p>Name: MI Lovegrove Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: AC9645 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
8	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Authority: Environment Agency, Anglian Region Permit Reference: AM0465 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location</p>	A15SE (NE)	0	2	569520 266169
9	<p>Registered Radioactive Substances</p> <p>Name: Animal Health Trust Location: Lanwades Park, Newmarket, Cb8 7uu Authority: Environment Agency, Anglian Region Permit Reference: WB3639DF Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied Status: Application has been determined by the EA Positional Accuracy: Located by supplier to within 100m</p>	A15SW (N)	53	2	569300 266400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p>Water Abstractions</p> <p>Operator: Spillers Ltd Licence Number: 6/33/38/*G/0029 Permit Version: 100 Location: Borehole S Of Moulton End Authority: Environment Agency, Anglian Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 8; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 1975 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A16SW (NE)	0	2	569900 266200
10	<p>Water Abstractions</p> <p>Operator: Spillers Ltd Licence Number: 6/33/38/*G/0029 Permit Version: 100 Location: Borehole S Of Moulton End 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: C Chalk 8; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st October 1975 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A16SW (NE)	0	2	569900 266200
10	<p>Water Abstractions</p> <p>Operator: Animal Health Trust Licence Number: 6/33/38/*G/0017 Permit Version: 100 Location: Well At Lanwades 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: C Chalk 8; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A16SW (NE)	0	2	569900 266200
10	<p>Water Abstractions</p> <p>Operator: Animal Health Trust Licence Number: 6/33/38/*G/0017 Permit Version: 100 Location: Well At Lanwades 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: C Chalk 8; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A16SW (NE)	0	2	569900 266200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p>Water Abstractions</p> <p>Operator: G Collin And Sons Ltd Licence Number: 6/33/38/*g/022 Permit Version: Not Supplied Location: Well At Kennett End, KENNETT Authority: Environment Agency, Anglian Region Abstraction: Industrial Processing (Miscellaneous) Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 0 Yearly Rate (m3): 460 Details: C Chalk 8; 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 10m</p>	A16NE (NE)	349	2	570100 266700
	<p>Water Abstractions</p> <p>Operator: Godolphin Management Co Ltd Licence Number: 6/33/38/*S/0069 Permit Version: 4 Location: River Kennett At Moulton Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 30 April Permit Start Date: 21st May 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A8SW (SE)	1138	2	569788 264784
	<p>Water Abstractions</p> <p>Operator: Godolphin Management Company Ltd Licence Number: 6/33/38/*S/0069 Permit Version: 3 Location: River Kennett At Moulton Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 30 April Permit Start Date: 21st June 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A8SW (SE)	1138	2	569788 264784
	<p>Water Abstractions</p> <p>Operator: Godolphin Management Company Ltd Licence Number: 6/33/38/*S/0069 Permit Version: 2 Location: River Kennett At Moulton Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 7th February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A4NW (SE)	1316	2	569800 264600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Anglian Water Services Ltd Licence Number: 6/33/38/*G/0028 Permit Version: 100 Location: Three Bores At Moulton 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: C Chalk 8; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A4NW (SE)	1382	2	570000 264600
	<p>Water Abstractions</p> <p>Operator: Anglian Water Services Ltd Licence Number: 6/33/38/*g/006 Permit Version: Not Supplied Location: Two Bores At, MOULTON Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 432 Yearly Rate (m3): 1364000 Details: C Chalk 8; 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 10m</p>	A4NW (SE)	1386	2	570001 264596
	<p>Water Abstractions</p> <p>Operator: Anglian Water Services Ltd Licence Number: 6/33/38/*G/0028 Permit Version: 103 Location: Three Bores At Moulton 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: 6th November 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A4NW (SE)	1443	2	569900 264500
	<p>Water Abstractions</p> <p>Operator: Anglian Water Services Limited Licence Number: 6/33/38/*G/0028 Permit Version: 102 Location: Three Bores At Moulton 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: 2nd September 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A4NW (SE)	1443	2	569900 264500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Anglian Water Services Limited Licence Number: 6/33/38/*G/0028 Permit Version: 101 Location: Three Bores At Moulton 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: 10th July 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A4NW (SE)	1443	2	569900 264500
	<p>Water Abstractions</p> <p>Operator: Environment Agency Licence Number: 6/33/28/*G/0049/R02 Permit Version: 1 Location: Abstraction Point 6 (Chippenham) Authority: Environment Agency, Anglian Region Abstraction: Other Environmental Improvements: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(NW)	1580	2	567310 266800
	<p>Water Abstractions</p> <p>Operator: Environment Agency Licence Number: 6/33/28/*G/0049/R01 Permit Version: 1 Location: Abstraction Point 6 (Chippenham) Authority: Environment Agency, Anglian Region Abstraction: Environmental: 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th June 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(NW)	1580	2	567310 266800
	<p>Water Abstractions</p> <p>Operator: Anglian Water Services Ltd Licence Number: 6/33/38/*g/047 Permit Version: Not Supplied Location: Borehole At, CHIPPENHAM Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 100 Yearly Rate (m3): 3000000 Details: C Chalk 8; 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 10m</p>	(NW)	1583	2	567305 266795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Anglian Water Services Ltd Licence Number: 6/33/38/*g/004 Permit Version: Not Supplied Location: Bore At, CHIPPENHAM Authority: Environment Agency, Anglian Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Well And Borehole Daily Rate (m3): 1136 Yearly Rate (m3): 3273000 Details: C Chalk 8; 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 10m</p>	(NW)	1587	2	567300 266795
	<p>Water Abstractions</p> <p>Operator: Environment Agency Licence Number: 6/33/28/*G/0049 Permit Version: 101 Location: Bore No 6 Chippenham Authority: Environment Agency, Anglian Region Abstraction: Environmental: 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th May 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(NW)	1589	2	567300 266800
	<p>Water Abstractions</p> <p>Operator: Environment Agency Licence Number: 6/33/28/*G/0049 Permit Version: 100 Location: Bore No 6 Chippenham Authority: Environment Agency, Anglian Region Abstraction: Environmental: 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: C Chalk 8; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(NW)	1589	2	567300 266800
	<p>Water Abstractions</p> <p>Operator: Godolphin Management Co Limited Licence Number: 6/33/38/*G/0070/R02 Permit Version: 2 Location: Borehole At Moulton 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: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 5th December 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A1SE (SW)	1608	2	568205 264372

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Godolphin Management Company Ltd Licence Number: 6/33/38/*G/0070/R02 Permit Version: 1 Location: Borehole At Moulton 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: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A1SE (SW)	1608	2	568205 264372
	<p>Water Abstractions</p> <p>Operator: Godolphin Management Company Ltd Licence Number: 6/33/38/*G/0070/R01 Permit Version: 1 Location: Borehole At Moulton 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: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A1SE (SW)	1608	2	568205 264372
	<p>Water Abstractions</p> <p>Operator: Godolphin Management Company Ltd Licence Number: 6/33/38/*G/0070 Permit Version: 2 Location: Borehole At Moulton 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: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 22nd May 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A1SE (SW)	1608	2	568205 264372
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial: <90% Patchiness: Superficial Thickness: <3m Superficial Recharge: No Data</p>	A11NW (E)	0	3	569322 265820

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Superficial Aquifer - High Vulnerability</p> <p>Combined Vulnerability: High</p> <p>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer</p> <p>Pollutant Speed: Intermediate</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: >70%</p> <p>Superficial Patchiness: <90%</p> <p>Superficial Thickness: <3m</p> <p>Superficial Recharge: No Data</p>	A11SW (SE)	0	3	569249 265715
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Secondary Superficial Aquifer - High Vulnerability</p> <p>Combined Vulnerability: High</p> <p>Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer</p> <p>Pollutant Speed: High</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: >70%</p> <p>Superficial Patchiness: <90%</p> <p>Superficial Thickness: <3m</p> <p>Superficial Recharge: No Data</p>	A11NE (E)	0	3	569651 266000
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Principle Bedrock Aquifer - High Vulnerability</p> <p>Combined Vulnerability: High</p> <p>Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer</p> <p>Pollutant Speed: Intermediate</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: >70%</p> <p>Superficial Patchiness: <90%</p> <p>Superficial Thickness: <3m</p> <p>Superficial Recharge: No Data</p>	A10NE (NW)	0	3	569000 266000
	<p>Groundwater Vulnerability Map</p> <p>Combined Classification: Principle Bedrock Aquifer - High Vulnerability</p> <p>Combined Vulnerability: High</p> <p>Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer</p> <p>Pollutant Speed: High</p> <p>Bedrock Flow: Well Connected Fractures</p> <p>Dilution: <300 mm/year</p> <p>Baseflow Index: >70%</p> <p>Superficial Patchiness: <90%</p> <p>Superficial Thickness: <3m</p> <p>Superficial Recharge: No Data</p>	A11NW (N)	0	3	569135 266000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A10NE (W)	0	3	569000 265875
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NW (SE)	0	3	569135 265875
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A10NE (NW)	0	3	569000 266000
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A10NE (W)	0	3	569000 265875
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A11NW (SE)	0	3	569135 265875
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A11NW (N)	0	3	569135 266000
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A11NW (SE)	0	3	569135 265875
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11NW (E)	0	3	569322 265820
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A11SW (SE)	0	3	569249 265715
12	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.	A12NW (E)	0	2	569970 265986
13	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A12NW (E)	0	2	569976 266047
14	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.	A11NW (SE)	0	2	569135 265875
	Extreme Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2192.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennett Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A12SW (SE)	298	4	569918 265543
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1079.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Kennett Catchment Name: Cam Ely Ouse and South Level Primacy: 1	A16NE (NE)	514	4	570380 266668

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	569135 265875
	Local Authority Landfill Coverage Name: Forest Heath District Council - Has supplied landfill data		0	6	569135 265875
	Local Authority Landfill Coverage Name: East Cambridgeshire District Council - Has supplied landfill data		17	8	568996 266255
	Local Authority Landfill Coverage Name: Cambridgeshire County Council - Has not been able to supply Landfill data		17	7	568996 266255
17	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A11NE (E)	0	-	569684 266047
18	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A11SW (S)	225	-	569185 265549
19	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A10NW (W)	250	-	568522 266041
20	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A12NE (E)	253	-	570229 266044
21	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A9SE (W)	786	-	568161 265599
22	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A9NW (W)	995	-	567772 265954

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A11NW (SE)	0	1	569135 265875
	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	A11NW (E)	0	1	569322 265820
	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 mg/kg	A11NW (SE)	0	1	569135 265875
	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	A11SE (SE)	3	1	569703 265542
	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	A10SE (SW)	176	1	568937 265602
	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 mg/kg	A12NE (E)	202	1	570110 265903
	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 mg/kg	A12SW (SE)	396	1	569970 265508

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (SE)	505	1	570037 265456
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SE (W)	547	1	568325 265763
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (S)	992	1	569438 264824
23	BGS Recorded Mineral Sites Site Name: Round Plantation Pit Location: Kentford, Bury St Edmunds, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 211637 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A11NE (E)	0	1	569683 266033
24	BGS Recorded Mineral Sites Site Name: Trinity Hall Farm Chalk Pit Location: Moulton, Newmarket, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 145348 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A11SW (S)	226	1	569186 265548
25	BGS Recorded Mineral Sites Site Name: Long Belt Chalk Pit Location: Moulton, Newmarket, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 145347 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A10NW (W)	244	1	568527 266044

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	BGS Recorded Mineral Sites Site Name: Sandpit Plantation Chalk Pit Location: Kentford, Newmarket, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 145350 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A12NE (E)	251	1	570170 265998
27	BGS Recorded Mineral Sites Site Name: Sandpit Plantation Gravel Pit Location: Kentford, Newmarket, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 145351 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A12NE (E)	270	1	570247 266102
28	BGS Recorded Mineral Sites Site Name: Wellbottom Farm Gravel Pit Location: Moulton, Newmarket, Suffolk Source: British Geological Survey, National Geoscience Information Service Reference: 145346 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits, 2 Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A9SE (W)	817	1	568151 265556
29	BGS Recorded Mineral Sites Site Name: Square Plantation Pit Location: Moulton, Bury St Edmunds, Cambridgeshire Source: British Geological Survey, National Geoscience Information Service Reference: 211632 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A9NW (W)	996	1	567770 265961
	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 Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	569135 265875
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	3	1	570000 265875
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	569135 265875
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	3	1	570000 265875
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	569135 265875

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	3	1	570000 265875
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	569135 265875
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	1	569322 265820
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	3	1	570000 265875
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	198	1	568743 266358
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	202	1	570000 265801
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	1	569322 265820
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	569135 265875
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	3	1	570000 265875
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	198	1	568743 266358
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	202	1	570000 265801
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	569135 265875
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	1	569322 265820
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	3	1	570000 265875
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	176	1	568937 265602
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	198	1	568743 266358
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	202	1	570000 265801
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	569135 265875
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	569249 265715
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	3	1	570000 265875
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A14SE (NW)	198	1	568743 266358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Potential for Shrinking or Swelling Clay Ground Stability Hazards</p> <p>Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service</p>	A12SW (E)	202	1	570000 265714
	<p>Radon Potential - Radon Affected Areas</p> <p>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</p>	A11NW (SE)	0	1	569135 265875
	<p>Radon Potential - Radon Protection Measures</p> <p>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service</p>	A11NW (SE)	0	1	569135 265875

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	<p>Contemporary Trade Directory Entries</p> <p>Name: Elite Stationery Location: Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address</p>	A16SW (NE)	0	-	569763 266430
31	<p>Contemporary Trade Directory Entries</p> <p>Name: J M Rose Farriers Location: Lanwades Park, Kentford, Newmarket, Suffolk, CB8 7UU Classification: Farriers Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A16SW (NE)	0	-	569729 266270
32	<p>Contemporary Trade Directory Entries</p> <p>Name: Eastern Business Systems Ltd Location: Chippenham Hill, Moulton, NEWMARKET, Suffolk, CB8 7PL Classification: Photocopiers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A11SW (SE)	65	-	569292 265749
32	<p>Contemporary Trade Directory Entries</p> <p>Name: B S A S Telecoms Ltd Location: Systems House, Moulton, Newmarket, Suffolk, CB8 7PL Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A11SW (SE)	65	-	569293 265750
33	<p>Contemporary Trade Directory Entries</p> <p>Name: Enhance Air & Electrical Ltd Location: Unit 1, 7, Lanwades Business Park, Moulton, CB8 7PN Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16NE (NE)	168	-	570092 266474
33	<p>Contemporary Trade Directory Entries</p> <p>Name: Astral Location: Unit 6e, Lanwades Business Park, Kennett, Newmarket, CB8 7PN Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16NE (NE)	175	-	570087 266493
33	<p>Contemporary Trade Directory Entries</p> <p>Name: Wicked Uncle Location: Unit 6g, Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Toys, Games & Sporting Goods - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A16NE (NE)	175	-	570087 266493
33	<p>Contemporary Trade Directory Entries</p> <p>Name: Astral Blinds Location: Unit 6e, Lanwades Business Pk, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A16NE (NE)	175	-	570087 266493
33	<p>Contemporary Trade Directory Entries</p> <p>Name: C & T Harnesses Location: Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A16NE (NE)	203	-	570123 266491
33	<p>Contemporary Trade Directory Entries</p> <p>Name: Anglia Oil Tanks Location: Unit 3, Lanwades Business Park, Kennett, Newmarket, CB8 7PN Classification: Tanks, Vats & Cisterns Status: Active Positional Accuracy: Automatically positioned to the address</p>	A16NE (NE)	219	-	570153 266465
33	<p>Contemporary Trade Directory Entries</p> <p>Name: Sionics Location: Unit6B, Lanwades Business Pk, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A16NE (NE)	219	-	570130 266510
34	<p>Contemporary Trade Directory Entries</p> <p>Name: Valentina Jewellery Location: 3A, Lanwades Business Pk, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Jewellery Manufacturers & Repairers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A16NE (NE)	172	-	570066 266512

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Contemporary Trade Directory Entries Name: Production Print & Design Location: Unit, 4a-4b, Lanwades Business Park, Kennett, Newmarket, CB8 7PN Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A16NE (NE)	188	-	570076 266525
34	Contemporary Trade Directory Entries Name: 1st For Print Ltd Location: Unit 4a-4b, Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A16NE (NE)	188	-	570076 266525
34	Contemporary Trade Directory Entries Name: Corporate Tiger Ltd Location: Unit 4, Lanwades Business Park, Kennett, Newmarket, CB8 7PN Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A16NE (NE)	188	-	570076 266525
34	Contemporary Trade Directory Entries Name: Luxury Vending Location: Unit CW, Lanwades Business Pk, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Vending Machine Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A16NE (NE)	197	-	570072 266540
35	Contemporary Trade Directory Entries Name: Astral Awnings & Blinds Location: 1, Kennett Park Close, Kentford, Newmarket, Suffolk, CB8 8QU Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A16SE (NE)	225	-	570171 266430
35	Contemporary Trade Directory Entries Name: Astral Awnings, Blinds & Canopies Location: 1, Kennett Park Close, Kentford, Newmarket, Suffolk, CB8 8QU Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A16SE (NE)	225	-	570171 266430
35	Contemporary Trade Directory Entries Name: Astral Location: 1, Kennett Park Close, Kentford, Newmarket, Suffolk, CB8 8QU Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A16SE (NE)	225	-	570171 266430
35	Contemporary Trade Directory Entries Name: Astral Awnings & Blinds Location: 1, Kennett Park Close, Kentford, NEWMARKET, Suffolk, CB8 8QU Classification: Blinds, Awnings & Canopies Status: Active Positional Accuracy: Automatically positioned to the address	A16SE (NE)	225	-	570171 266430
35	Contemporary Trade Directory Entries Name: Astral Location: 1, Kennett Park Close, Kentford, Newmarket, Suffolk, CB8 8QU Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A16SE (NE)	225	-	570171 266430
36	Contemporary Trade Directory Entries Name: Lab 21 Health Care Ltd Location: 1, The Court, Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A16NE (NE)	244	-	570132 266547
36	Contemporary Trade Directory Entries Name: Fluestax Location: 1 THE COURT, LANWADES BUSINESS PARK, KENNETT, NEWMARKET, CB8 7PN Classification: Exhaust System Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A16NE (NE)	245	-	570131 266549

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Contemporary Trade Directory Entries Name: Tagg-N P D Ltd Location: Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PW Classification: Food Colouring, Flavouring & Additive Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A16NE (NE)	251	-	570121 266569
36	Contemporary Trade Directory Entries Name: Oil Tank Change Ltd Location: 4b, Rosemary House, Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Tanks, Vats & Cisterns Status: Active Positional Accuracy: Automatically positioned to the address	A16NE (NE)	251	-	570121 266569
36	Contemporary Trade Directory Entries Name: Anglian Precision Ltd Location: Unit 4, Lanwades Business Park, Kennett, Newmarket, Suffolk, CB8 7PN Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A16NE (NE)	288	-	570150 266591
37	Contemporary Trade Directory Entries Name: Thurlow Nunn Standen Ltd Location: Moulton Road, Kennett, NEWMARKET, Suffolk, CB8 8QT Classification: Agricultural Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A16NE (NE)	331	-	570207 266593
38	Contemporary Trade Directory Entries Name: Integral Blinds Direct Location: 14, Moulton Avenue, Kentford, Newmarket, CB8 8QX Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A16NE (NE)	384	-	570252 266622
39	Contemporary Trade Directory Entries Name: Gardner Location: 13, Edgeborough Close, Kentford, Newmarket, Suffolk, CB8 8QY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A16NE (NE)	428	-	570371 266468
40	Points of Interest - Commercial Services Name: Gardner Location: 13 Edgeborough Close, Kentford, Newmarket, CB8 8QY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A16NE (NE)	428	9	570371 266468
40	Points of Interest - Commercial Services Name: Gardner Jack Ltd Location: 13 Edgeborough Close, Kentford, Newmarket, CB8 8QY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A16NE (NE)	428	9	570371 266468
41	Points of Interest - Manufacturing and Production Name: Tank Location: CB8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A16SW (NE)	0	9	569838 266247
42	Points of Interest - Manufacturing and Production Name: Works Location: CB8 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A16SW (NE)	75	9	570035 266356
43	Points of Interest - Manufacturing and Production Name: Business Park Location: CB8 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A16NW (NE)	195	9	570042 266557
43	Points of Interest - Manufacturing and Production Name: Business Park Location: CB8 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A16NW (NE)	209	9	570027 266579

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	Points of Interest - Manufacturing and Production Name: Tank Location: CB8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A16NE (NE)	328	9	570262 266484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	Environmentally Sensitive Areas Name: Breckland (decommissioned) Multiple Areas: N Total Area (m2): 945352881.45 Source: Natural England	(NE)	809	10	570063 267261
46	Nitrate Vulnerable Zones Name: Ely Ouse And Cut-Off Channel Nvz Description: Surface Water Source: Environment Agency, Head Office	A11NW (SE)	0	3	569135 265875
47	Nitrate Vulnerable Zones Name: Anglian Chalk Description: Groundwater Source: Environment Agency, Head Office	A11NW (SE)	0	3	569135 265875

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office West Suffolk Council East Cambridgeshire District Council - Environmental Health Department Forest Heath District Council (now part of West Suffolk Council) - Environmental Health Department	June 2020 March 2014 October 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	October 2022	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	
Integrated Pollution Controls Environment Agency - Anglian Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	July 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control Forest Heath District Council (now part of West Suffolk Council) - Environmental Health Department West Suffolk Council East Cambridgeshire District Council - Environmental Health Department	August 2015 August 2015 October 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Forest Heath District Council (now part of West Suffolk Council) - Environmental Health Department West Suffolk Council East Cambridgeshire District Council - Environmental Health Department	August 2015 August 2015 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Forest Heath District Council (now part of West Suffolk Council) - Environmental Health Department East Cambridgeshire District Council - Environmental Health Department	August 2015 October 2014	Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2022	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	March 2013	
Registered Radioactive Substances Environment Agency - Anglian Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Central Area	July 2022	Quarterly
Water Abstractions Environment Agency - Anglian Region	October 2022	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
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	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2022	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	October 2022	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	November 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Central Area	October 2022	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Central Area	July 2022	Quarterly
Local Authority Landfill Coverage Cambridgeshire County Council East Cambridgeshire District Council - Environmental Health Department Forest Heath District Council (now part of West Suffolk Council) - Environmental Health Department Suffolk County Council West Suffolk Council	February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cambridgeshire County Council East Cambridgeshire District Council - Environmental Health Department Forest Heath District Council (now part of West Suffolk Council) - Environmental Health Department Suffolk County Council West Suffolk Council	October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Anglian Region - Central Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Central Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Central Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Suffolk County Council - Environment and Transport Cambridgeshire County Council East Cambridgeshire District Council - Planning Department Forest Heath District Council (now part of West Suffolk Council) West Suffolk Council	February 2006 February 2016 February 2016 February 2016 June 2016	Annual Rolling Update Variable Variable Variable Variable
Planning Hazardous Substance Consents Suffolk County Council - Environment and Transport Cambridgeshire County Council East Cambridgeshire District Council - Planning Department Forest Heath District Council (now part of West Suffolk Council) West Suffolk Council	February 2006 February 2016 February 2016 February 2016 February 2016	Annual Rolling Update Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	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	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2022	Quarterly
Points of Interest - Education and Health PointX	December 2022	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2022	Quarterly
Points of Interest - Public Infrastructure PointX	December 2022	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2022	Quarterly
Underground Electrical Cables National Grid	May 2021	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt East Cambridgeshire District Council - Planning Department Forest Heath District Council (now part of West Suffolk Council) West Suffolk Council	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt East Cambridgeshire District Council - Planning Department Forest Heath District Council (now part of West Suffolk Council) West Suffolk Council	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	August 2022	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually

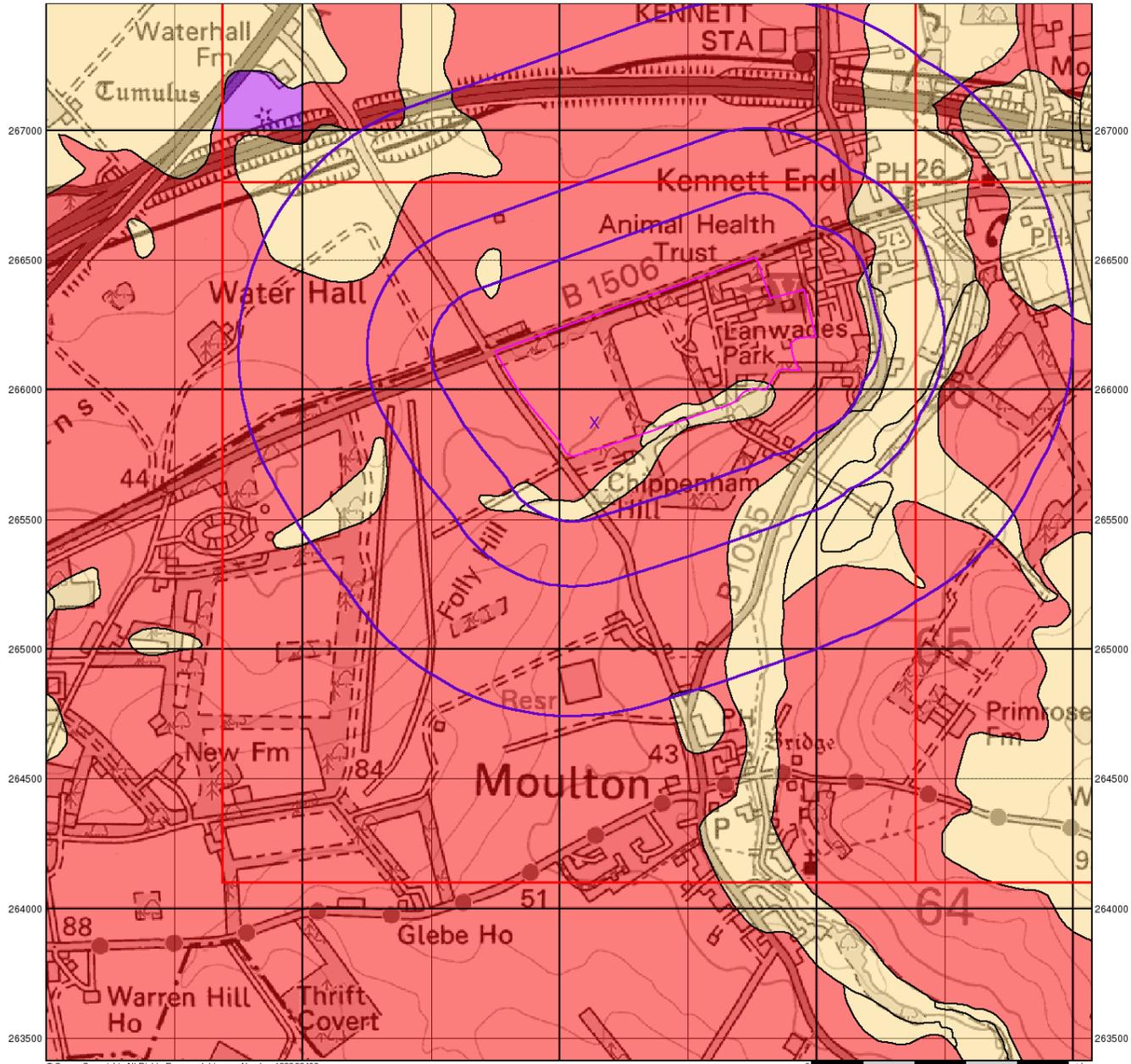
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

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	Forest Heath District Council (now part of West Suffolk Council) - Environmental Health Department District Offices, College Heath Road, Mildenhall, Bury St Edmunds, Suffolk, IP28 7EY	Telephone: 01638 719000 Fax: 01638 716493 Website: www.forest-heath.gov.uk
7	Cambridgeshire County Council Shire Hall, Castle Hill, Cambridge, Cambridgeshire, CB3 0AP	Telephone: 01223 717111 Fax: 01223 717201 Website: www.camcnty.gov.uk
8	East Cambridgeshire District Council - Environmental Health Department The Grange, Nutholt Lane, Ely, Cambridgeshire, CB7 4PL	Telephone: 01353 665555 extn 284 Website: www.eastcambs.gov.uk
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	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.

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Groundwater Vulnerability

General

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

Agency and Hydrological

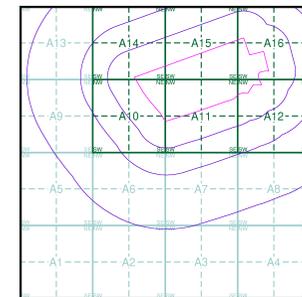
Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- Unproductive Aquifer
- Soluble Rock

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Site Sensitivity Context Map - Slice A



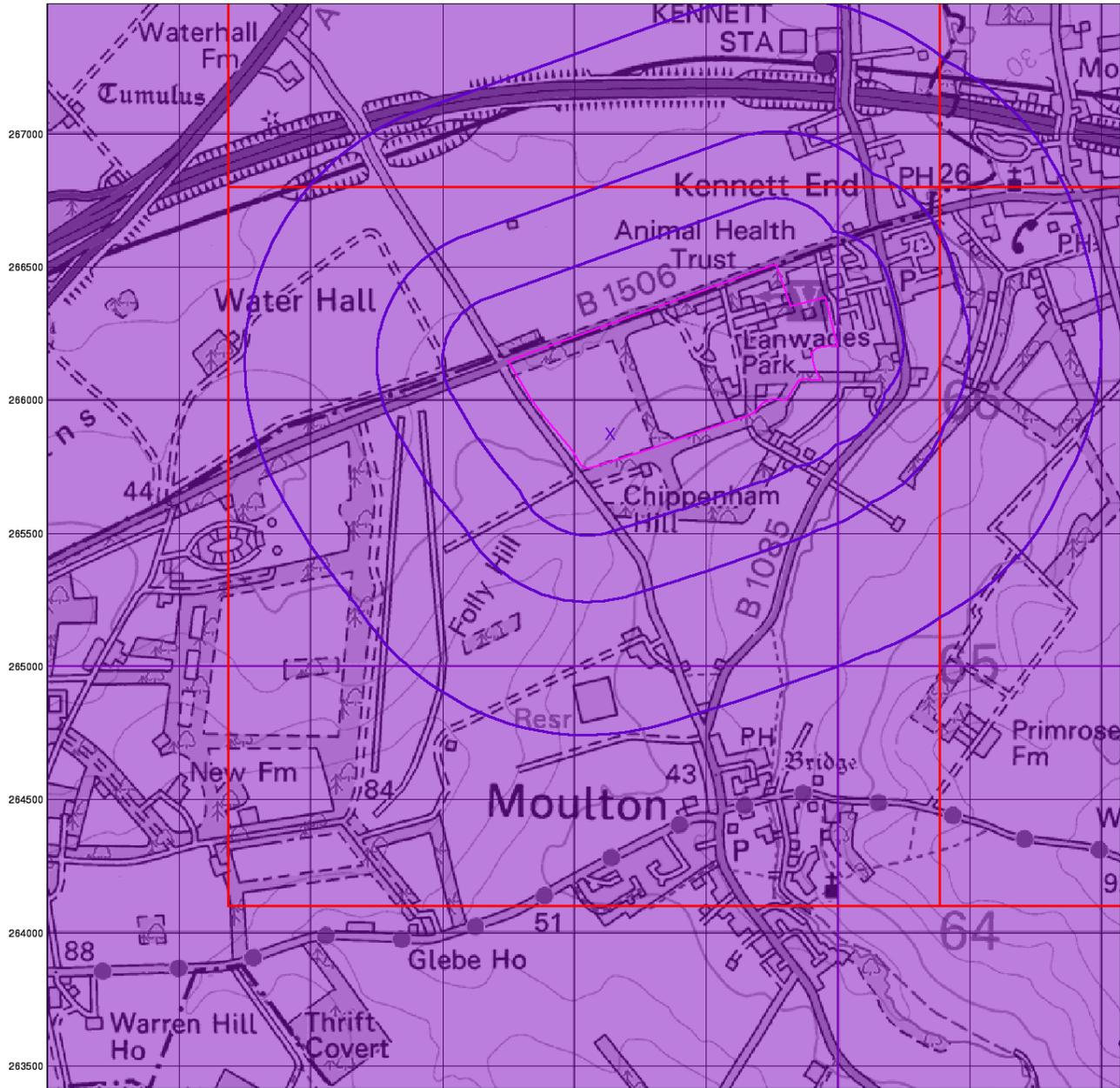
Order Details

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

Site Details

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Bedrock Aquifer Designation

General

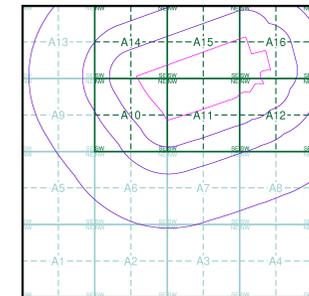
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



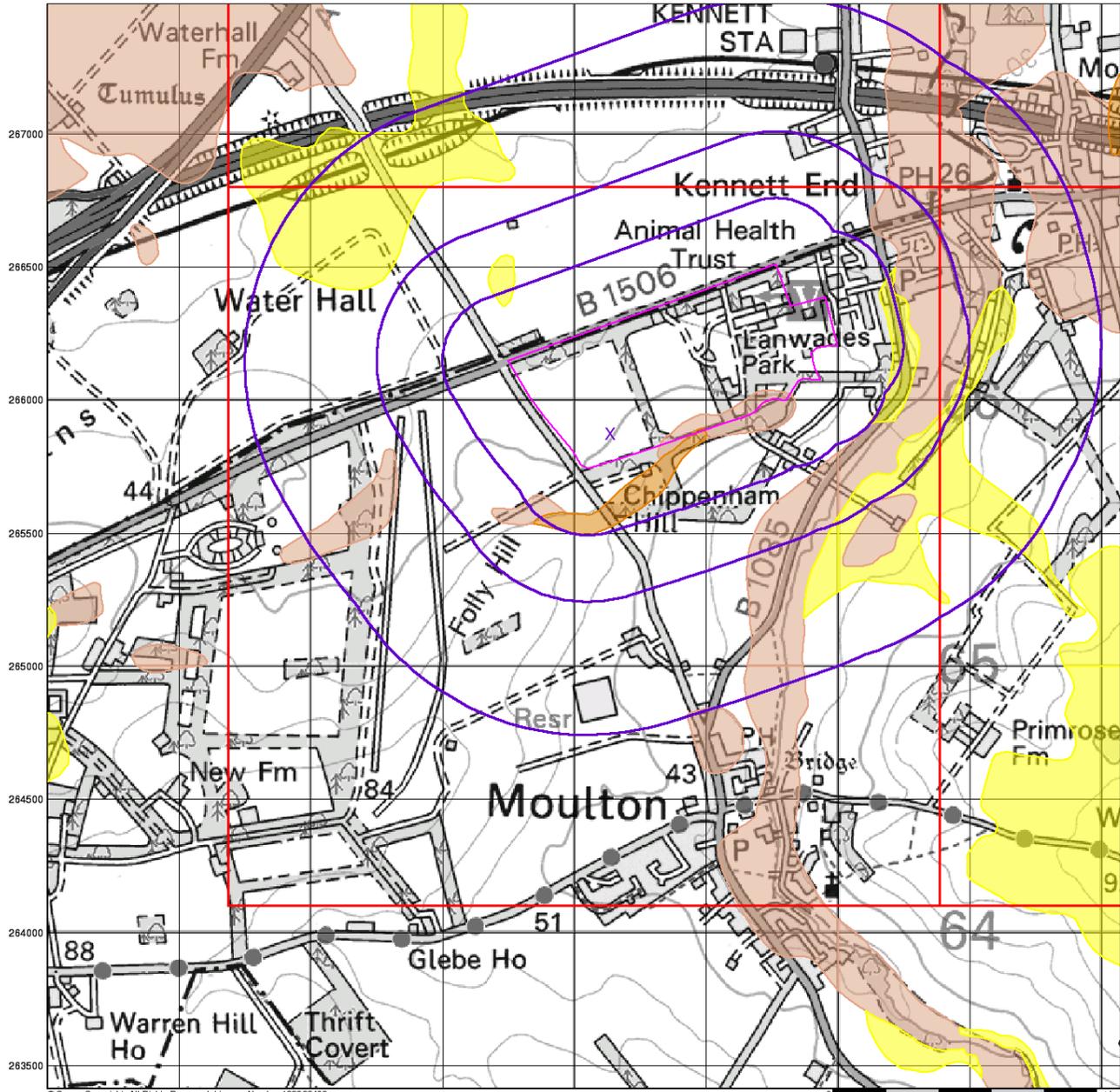
Order Details

Order Number: 304894834_1_1
 Customer Ref: STU5875
 National Grid Reference: 569140, 265870
 Slice: A
 Site Area (Ha): 51.85
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Superficial Aquifer Designation

General

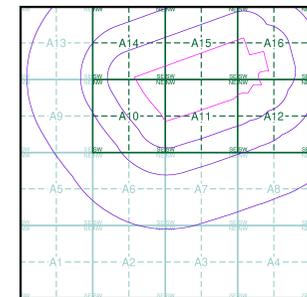
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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 A



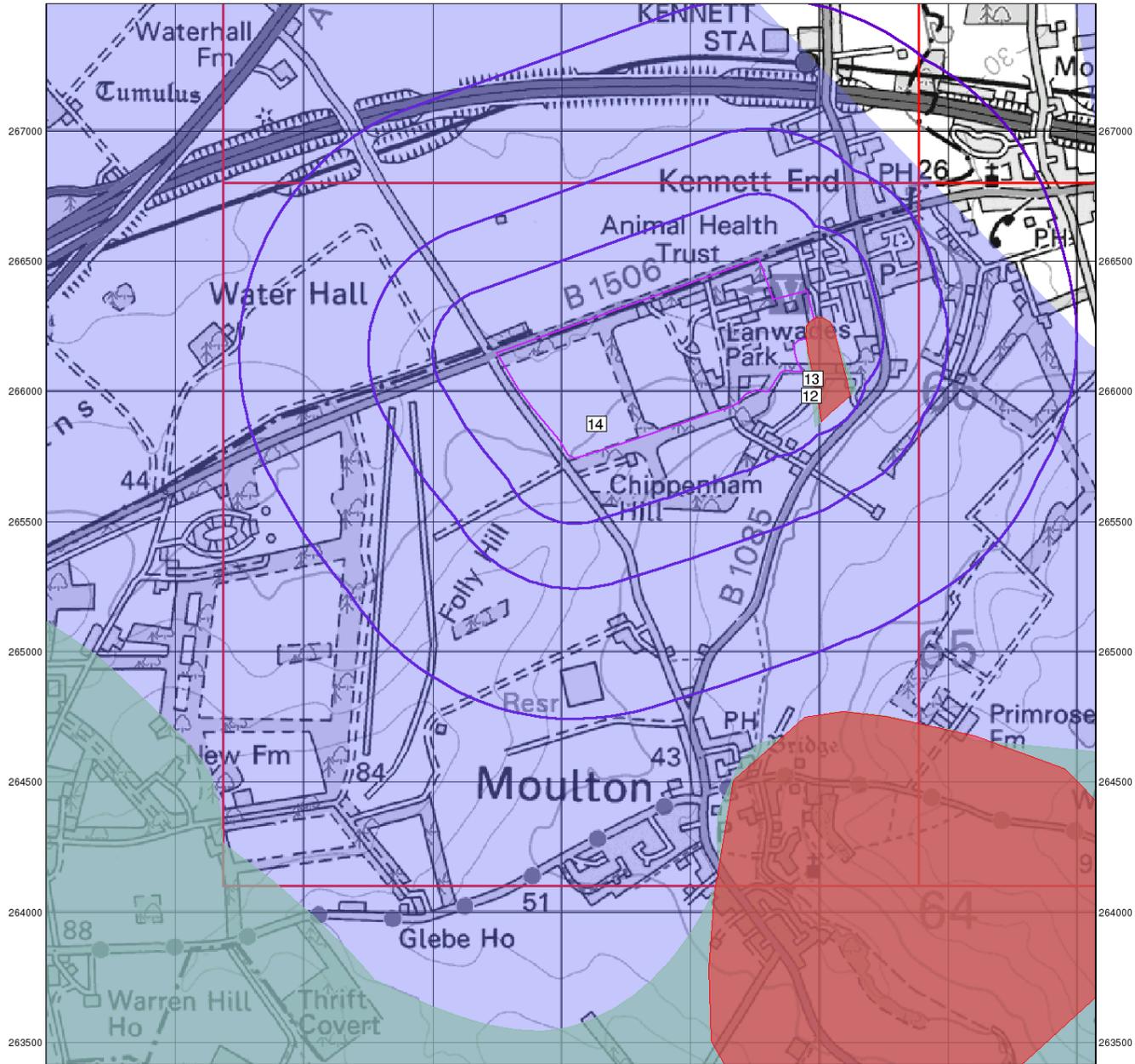
Order Details

Order Number: 304894834_1_1
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Source Protection Zones

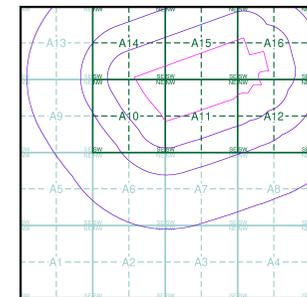
General

- 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 A



Order Details

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

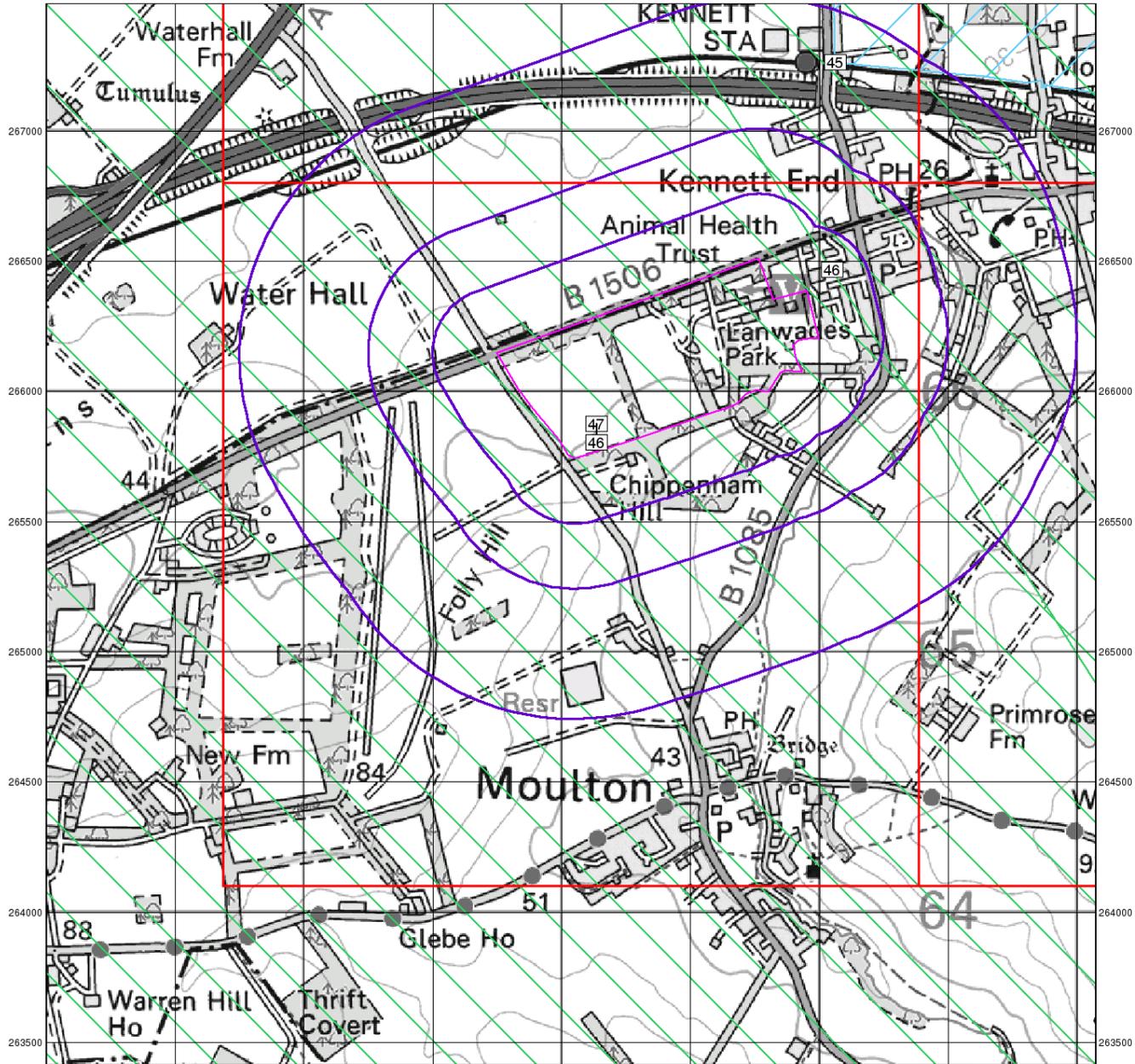
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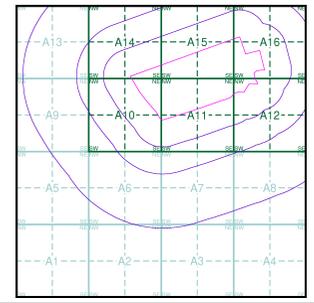


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Sensitive Land Uses

- 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 A



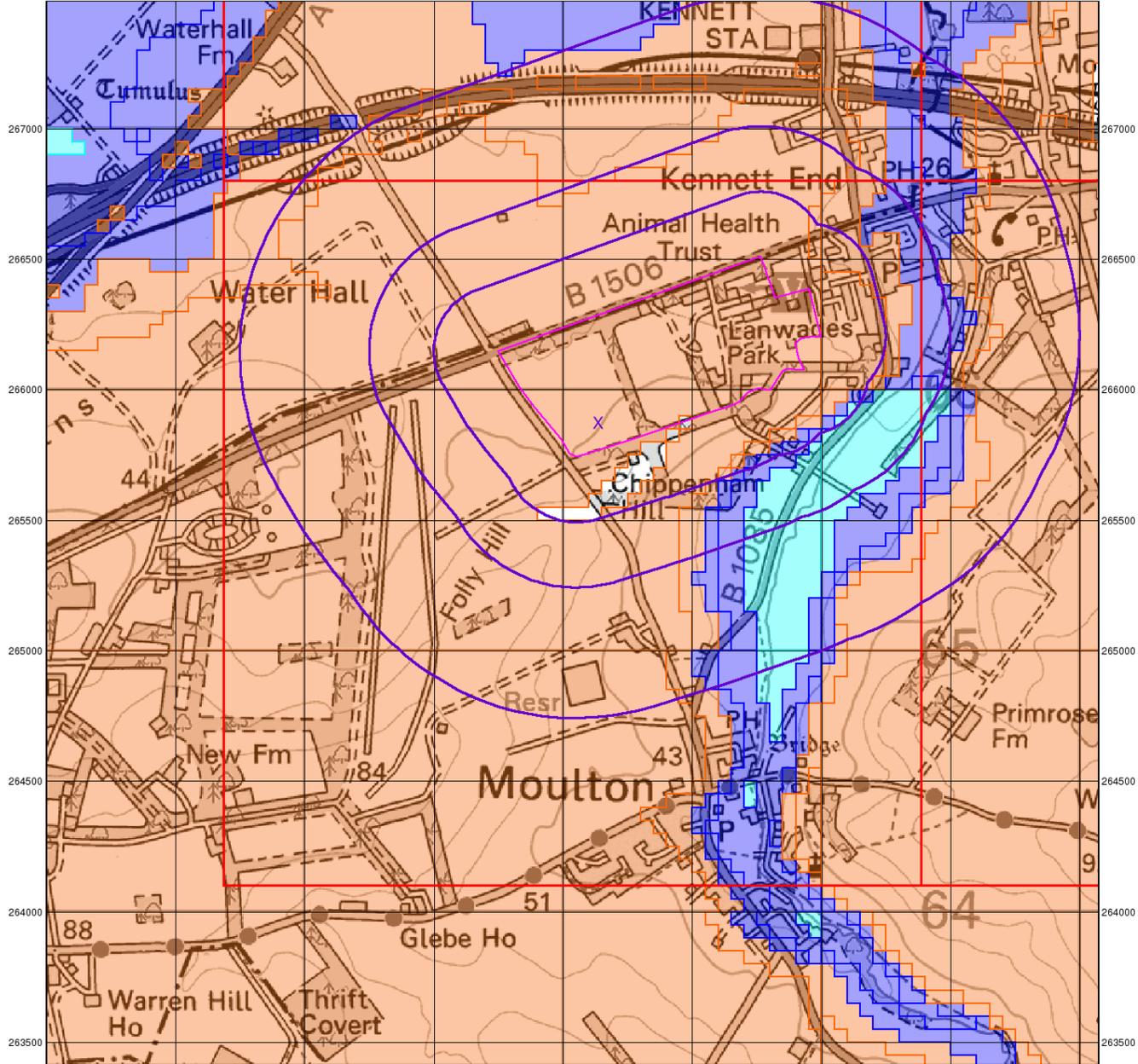
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BGS Flood GFS Data

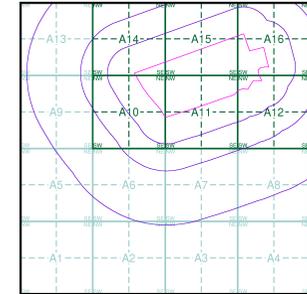
General

- 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 A



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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	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

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

Geology 1:50,000 Maps

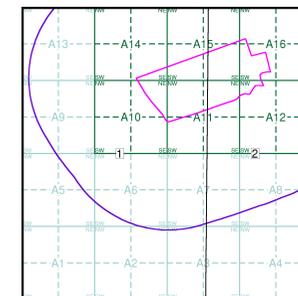
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	1
Map Sheet No:	189	Map Sheet No:	188
Map Name:	Bury St Edmund	Map Name:	Cambridge
Map Date:	1982	Map Date:	1981
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	Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

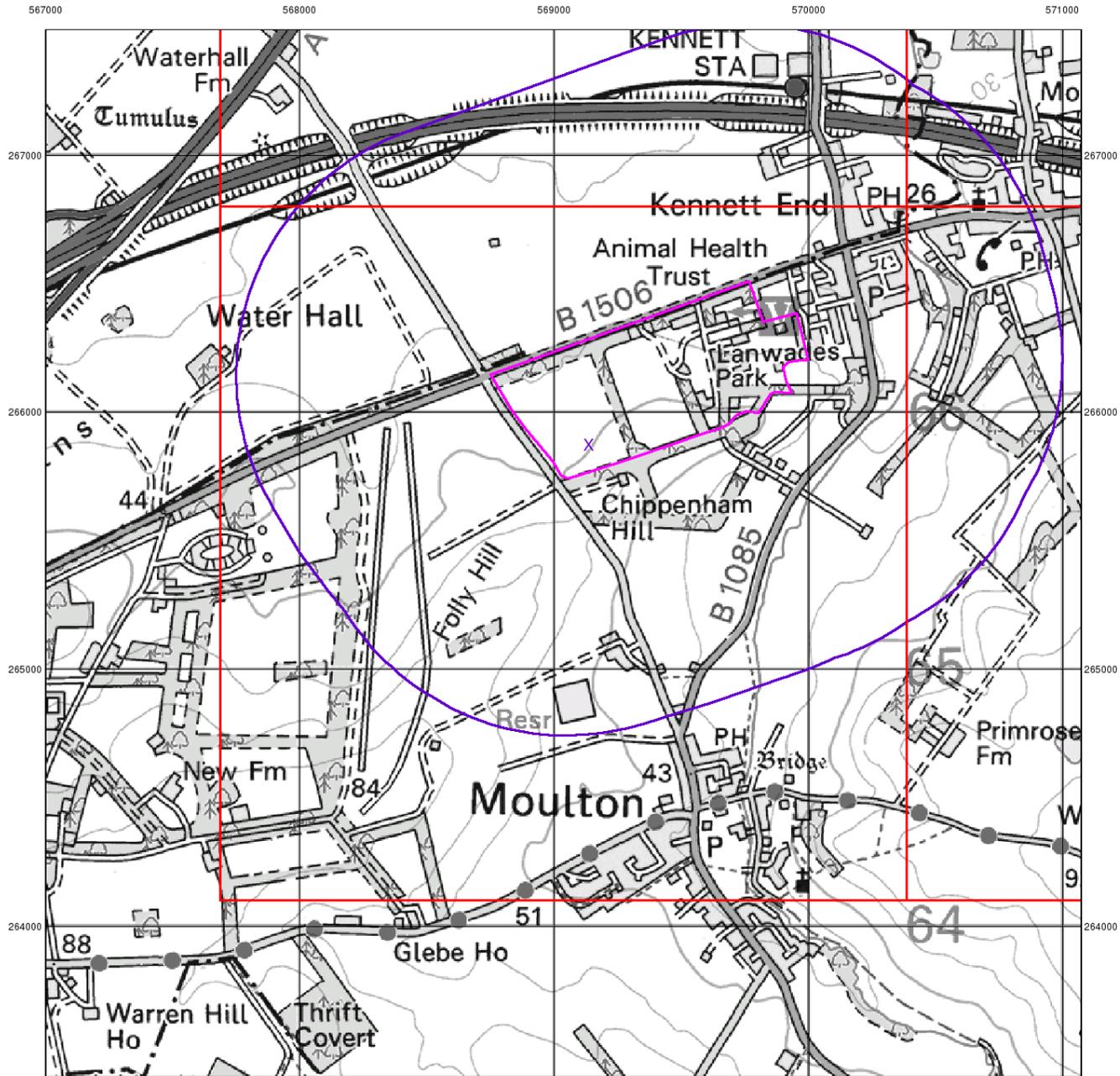


Order Details:

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

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Artificial Ground and Landslip

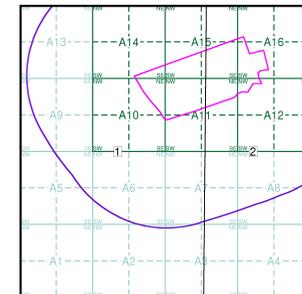
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial Ground and Landslip Map - Slice A



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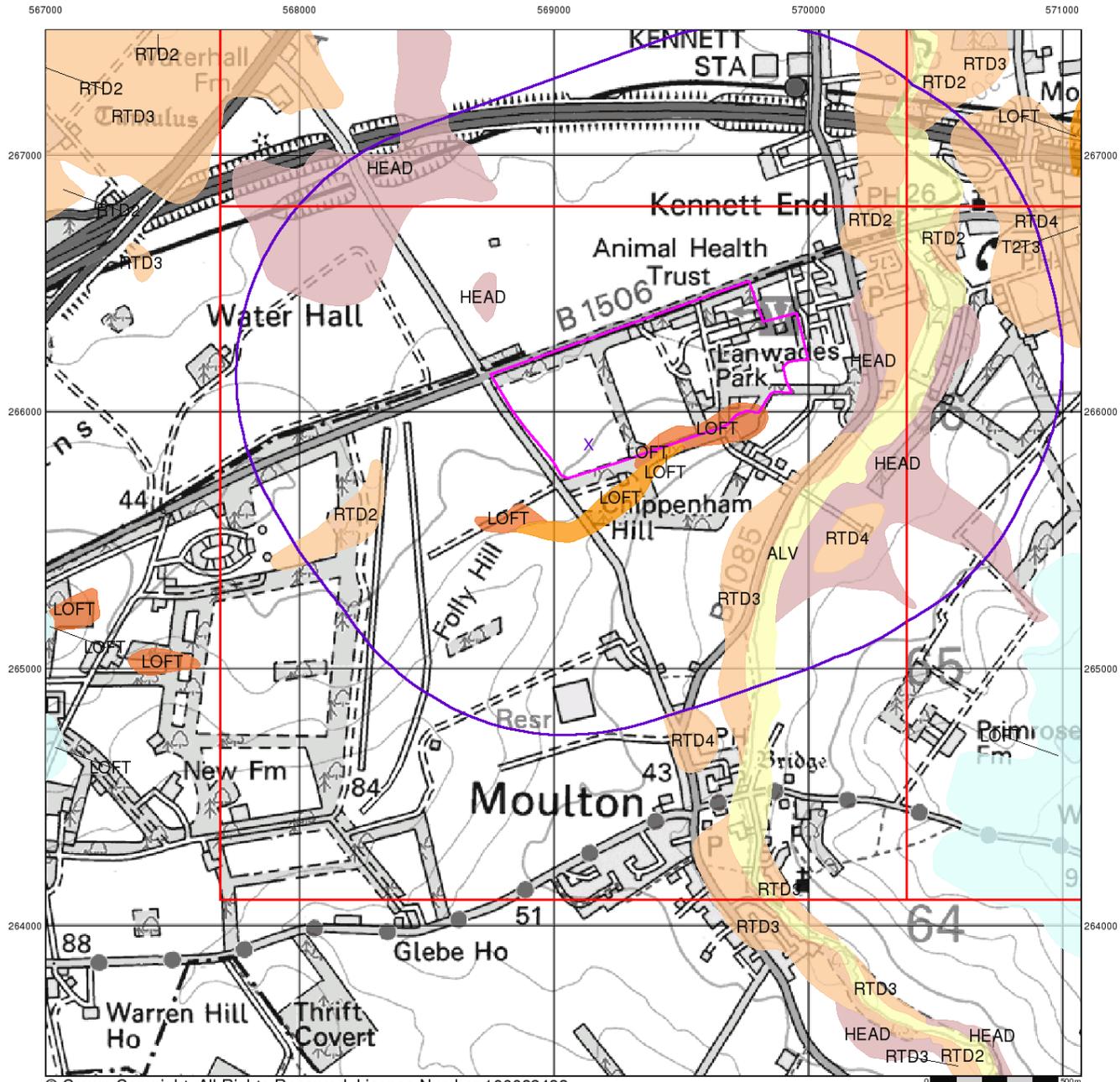
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 National Grid Reference: 569140, 265870
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 Site Area (Ha): 51.85
 Search Buffer (m): 1000

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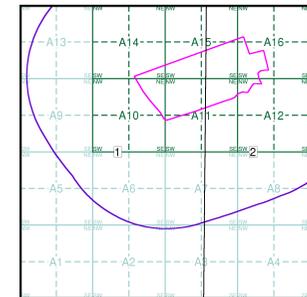
Superficial Geology

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



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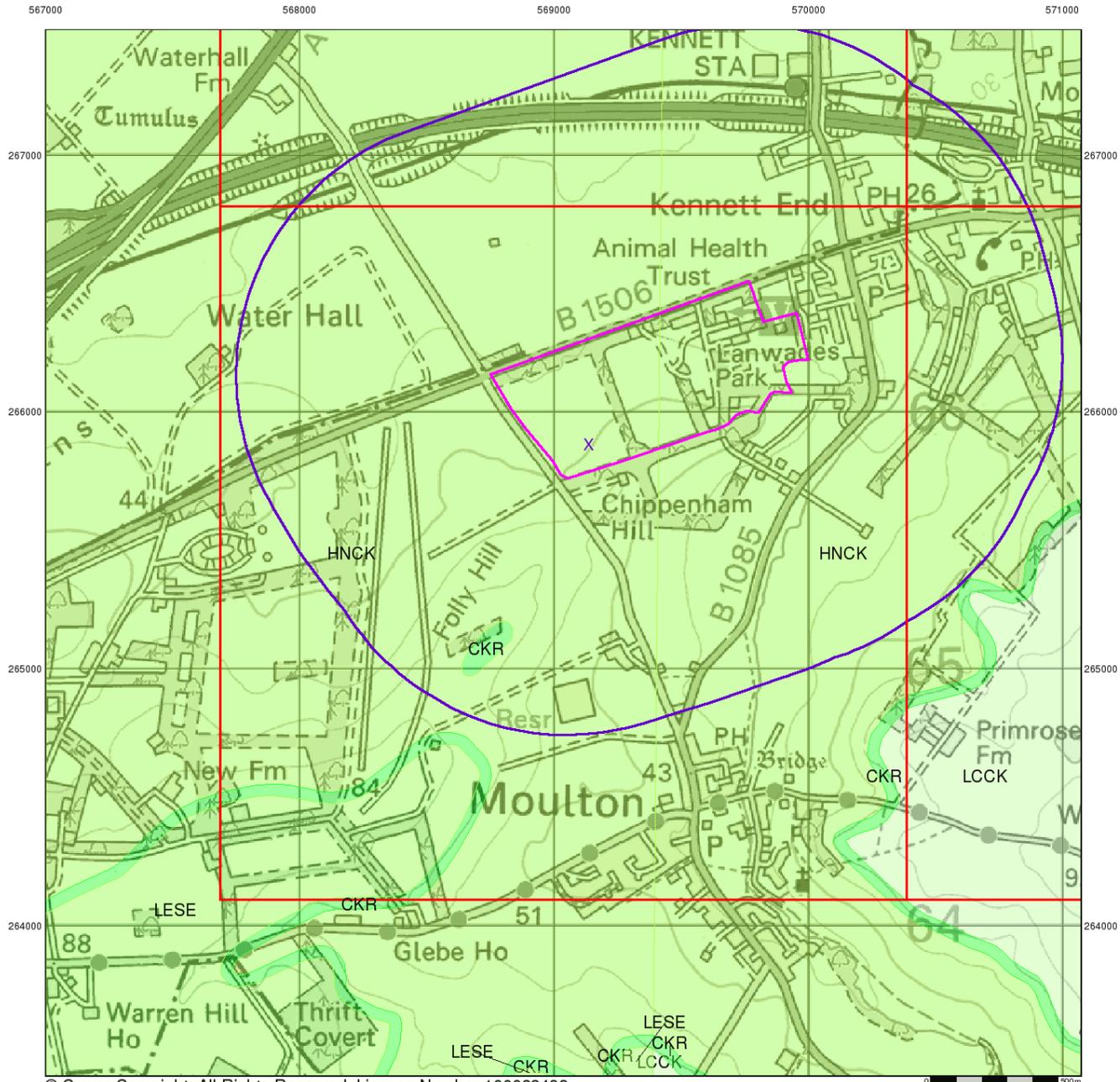
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 Customer Reference: STU5875
 National Grid Reference: 569140, 265870
 Slice: A
 Site Area (Ha): 51.85
 Search Buffer (m): 1000

Site Details:

Lanwades Hall, Newmarket, CB8 7UA

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Bedrock and Faults

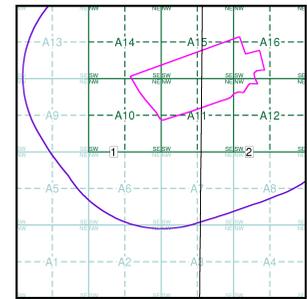
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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:

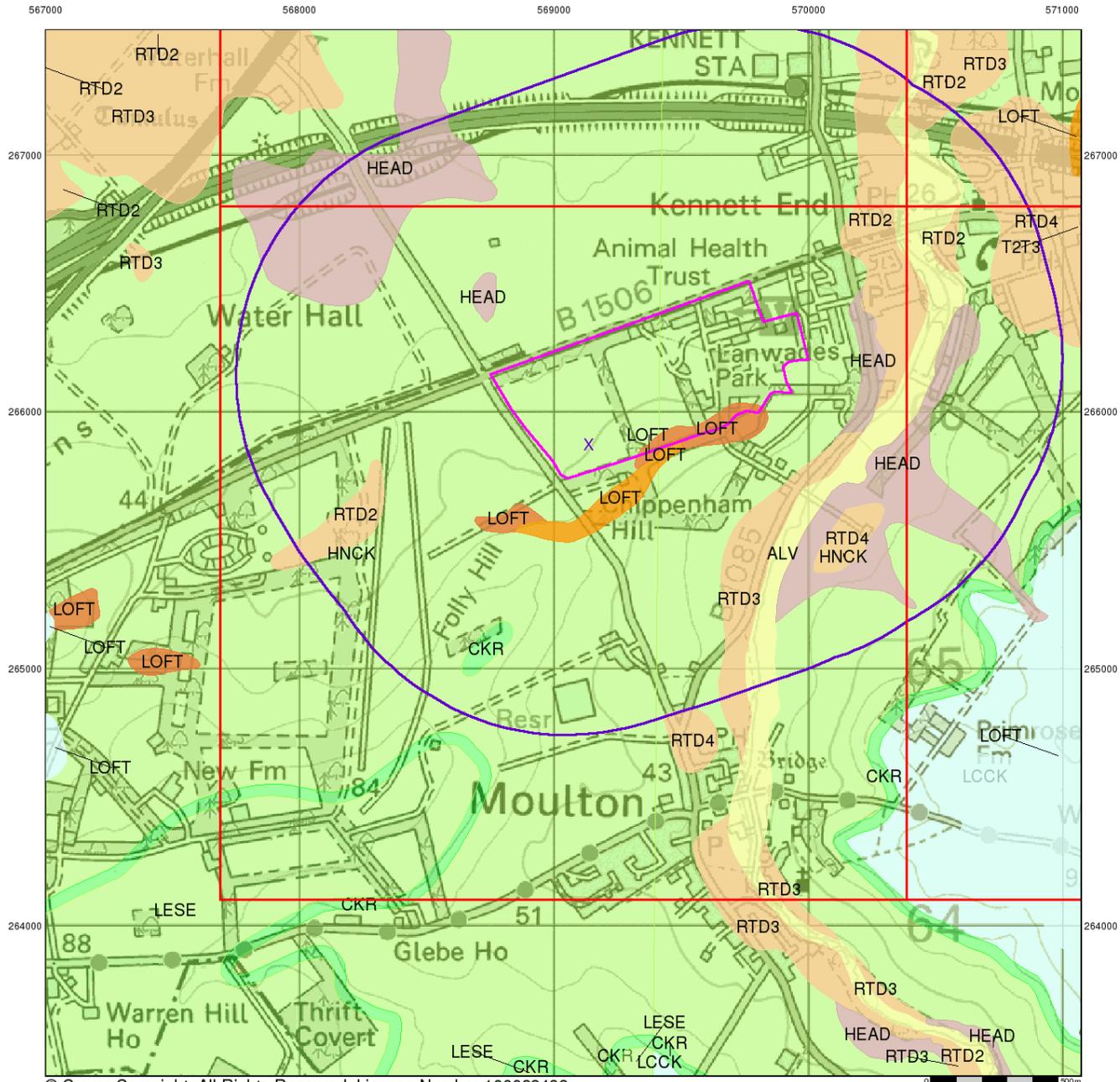
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Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



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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.

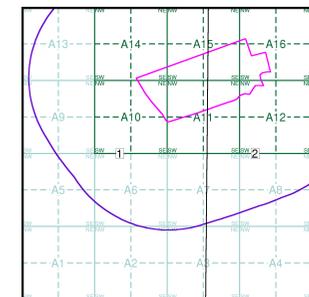
Additional Information

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

Site Details:

Lanwades Hall, Newmarket, CB8 7UA



Tel: 0844 844 9952
 Fax: 0844 844 9951
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

- Gravel Pit
- Sand Pit
- Other Pits
- Quarry
- Shingle
- Orchard
- Osiers
- Reeds
- Marsh
- Mixed Wood
- Deciduous
- Brushwood
- Fir
- Furze
- Rough Pasture
- Arrow denotes flow of water
- Trigonometrical Station
- Site of Antiquities
- Bench Mark
- Pump, Guide Post, Signal Post
- Well, Spring, Boundary Post
- 285** Surface Level
- Sketched Contour
- Instrumental Contour
- Main Roads
- Minor Roads
- Sunken Road
- Raised Road
- Road over Railway
- Railway over River
- Railway over Road
- Level Crossing
- Road over River or Canal
- Road over Stream
- Road over Stream
- County Boundary (Geographical)
- County & Civil Parish Boundary
- Administrative County & Civil Parish Boundary
- County Borough Boundary (England)
- County Burgh Boundary (Scotland)
- Rural District Boundary
- Civil Parish Boundary

Ordnance Survey Plan 1:10,000

- Chalk Pit, Clay Pit or Quarry
- Gravel Pit
- Sand Pit
- Disused Pit or Quarry
- Refuse or Slag Heap
- Lake, Loch or Pond
- Dunes
- Boulders
- Coniferous Trees
- Non-Coniferous Trees
- Orchard
- Scrub
- Coppice
- Bracken
- Heath
- Rough Grassland
- Marsh
- Reeds
- Saltings
- Building
- Glasshouse
- Sloping Masonry
- Pylon
- Electricity Transmission Line
- Pole
- Cutting
- Embankment
- Standard Gauge Multiple Track
- Standard Gauge Single Track
- Siding, Tramway or Mineral Line
- Narrow Gauge
- Geographical County
- Administrative County, County Borough or County of City
- Municipal Borough, Urban or Rural District, Burgh or District Council
- Borough, Burgh or County Constituency
- Civil Parish
- BP, BS Boundary Post or Stone
- Ch Church
- CH Club House
- F E Sta Fire Engine Station
- FB Foot Bridge
- Fn Fountain
- GP Guide Post
- MP Mile Post
- MS Mile Stone
- Pol Sta Police Station
- PO Post Office
- PC Public Convenience
- PH Public House
- SB Signal Box
- Spr Spring
- TCB Telephone Call Box
- TCP Telephone Call Post
- W Well

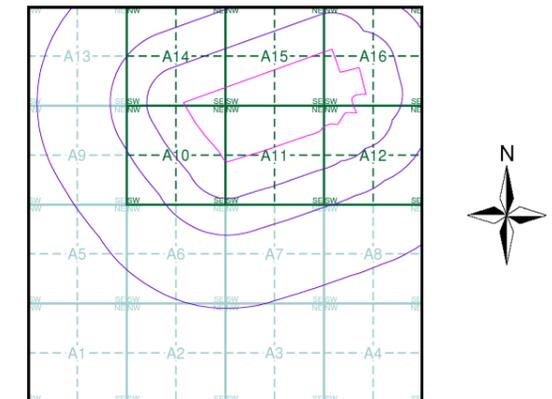
1:10,000 Raster Mapping

- Gravel Pit
- Rock
- Boulders
- Shingle
- Sand
- Slopes
- Refuse tip or slag heap
- Rock (scattered)
- Boulders (scattered)
- Mud
- Sand Pit
- Top of cliff
- General detail
- Overhead detail
- Multi-track railway
- County boundary (England only)
- District, Unitary, Metropolitan, London Borough boundary
- Underground detail
- Narrow gauge railway
- Single track railway
- Civil, parish or community boundary
- Constituency boundary
- Area of wooded vegetation
- Non-coniferous trees
- Coniferous trees
- Positioned tree
- Coppice or Osiers
- Orchard
- Rough Grassland
- Scrub
- Water feature
- Flow arrows
- Mean high water (springs)
- Mean low water (springs)
- Telephone line (where shown)
- Bench mark (where shown)
- Point feature (e.g. Guide Post or Mile Stone)
- Site of (antiquity)
- General Building
- Important Building

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



Order Details

Order Number: 304894834_1_1
 Customer Ref: STU5875
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 Slice: A
 Site Area (Ha): 51.85
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Site Details

Lanwades Hall, Newmarket, CB8 7UA

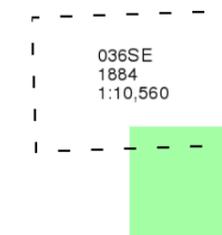
Cambridgeshire & Isle Of Ely

Published 1884

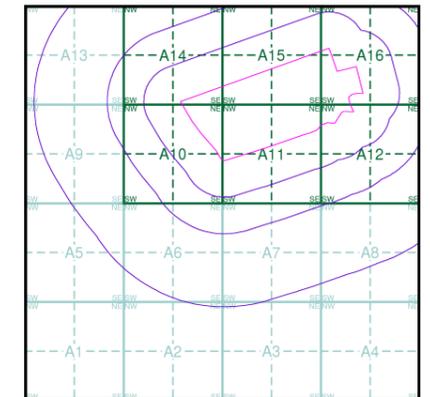
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

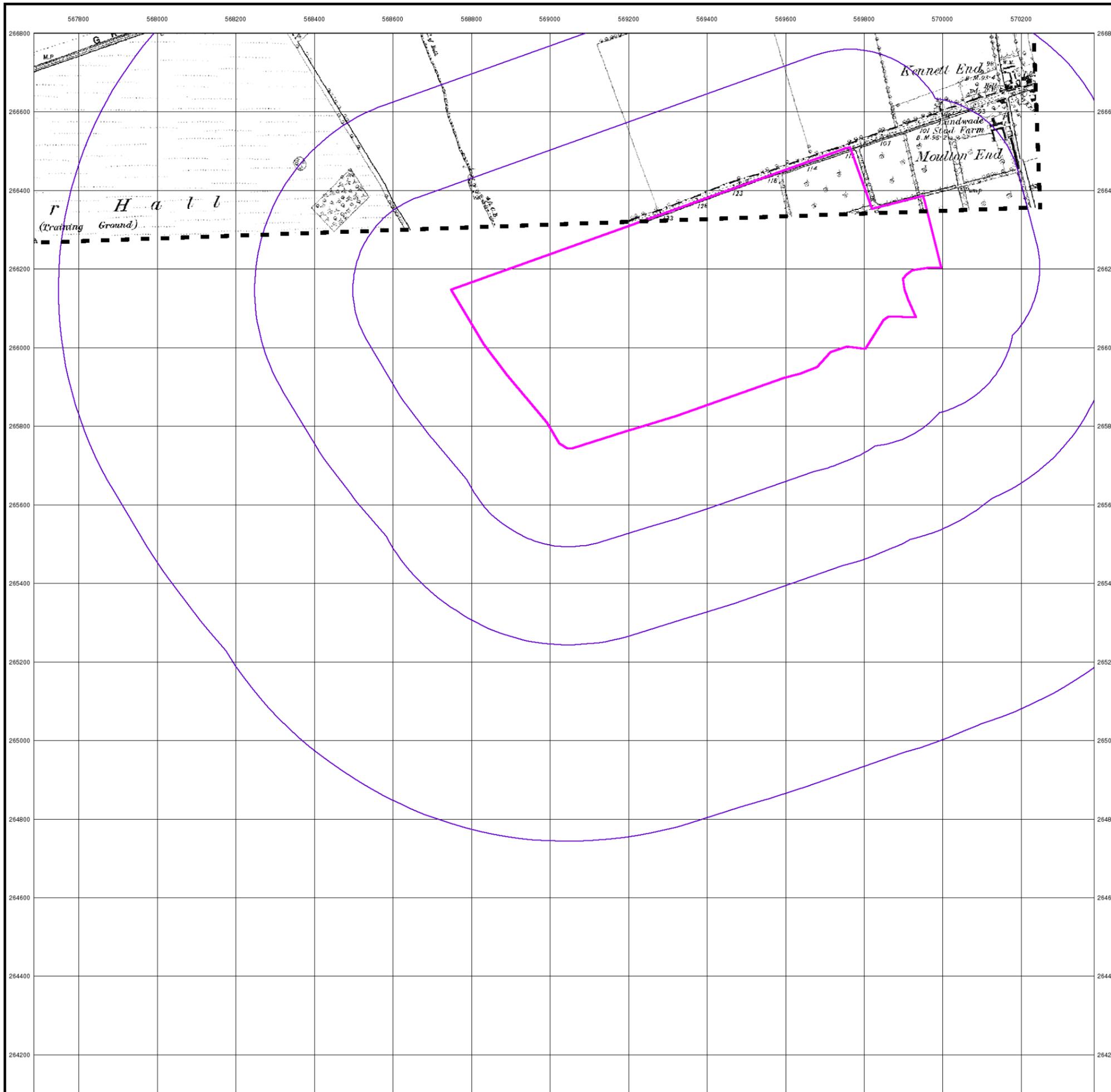


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Order Number: 304894834_1_1
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Site Details

Lanwades Hall, Newmarket, CB8 7UA



Suffolk

Published 1884

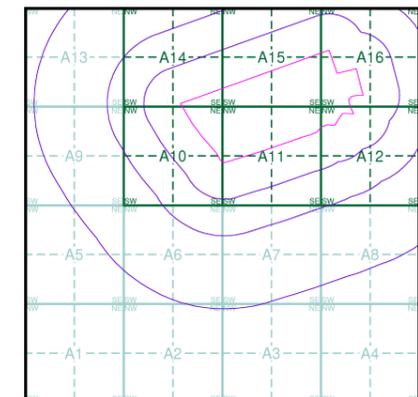
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

	032SW 1884 1:10,560	
042NE 1884 1:10,560		043NW 1884 1:10,560

Historical Map - Slice A



Order Details

Order Number: 304894834_1_1
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 Slice: A
 Site Area (Ha): 51.85
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Site Details

Lanwades Hall, Newmarket, CB8 7UA



Cambridgeshire & Isle Of Ely

Published 1903

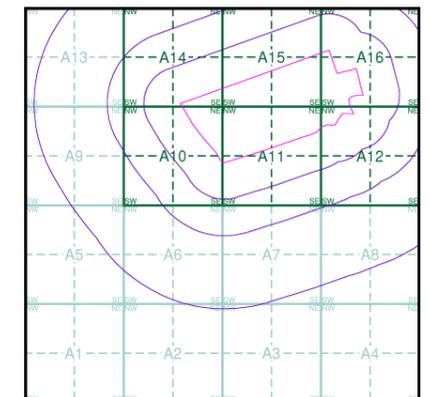
Source map scale - 1:10,560

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)

036SE 1903 1:10,560	037SW 1903 1:10,560
042NE 1903 1:10,560	

Historical Map - Slice A

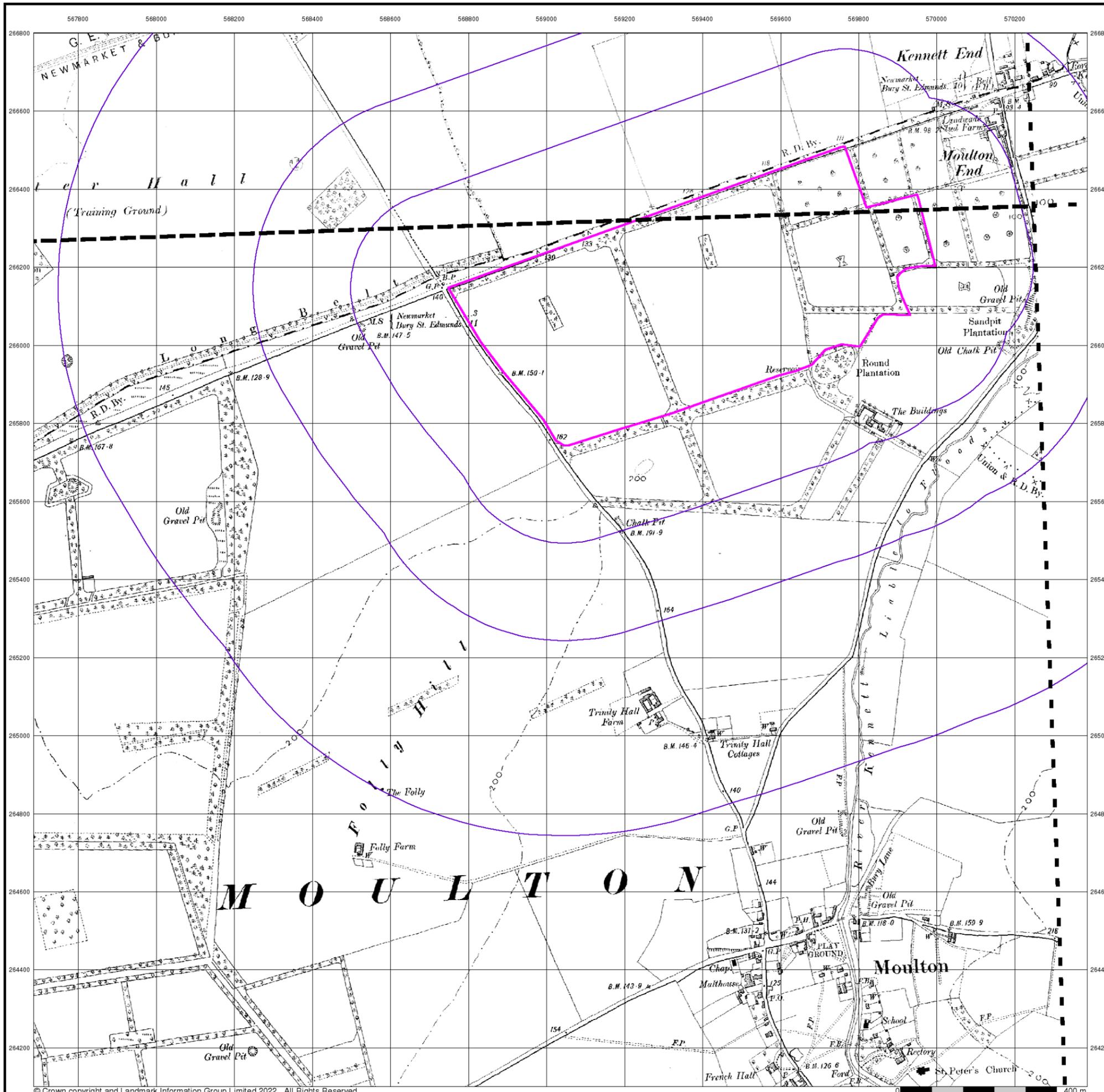


Order Details

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Site Details

Lanwades Hall, Newmarket, CB8 7UA



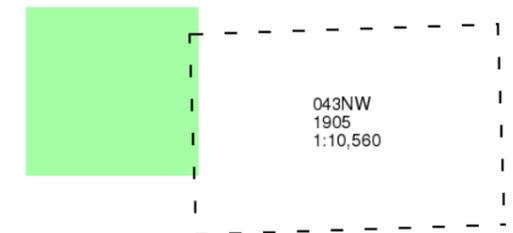
Suffolk

Published 1905

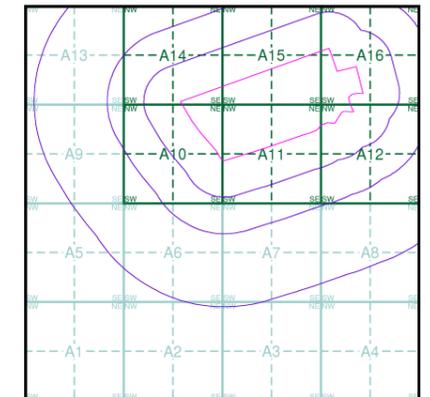
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

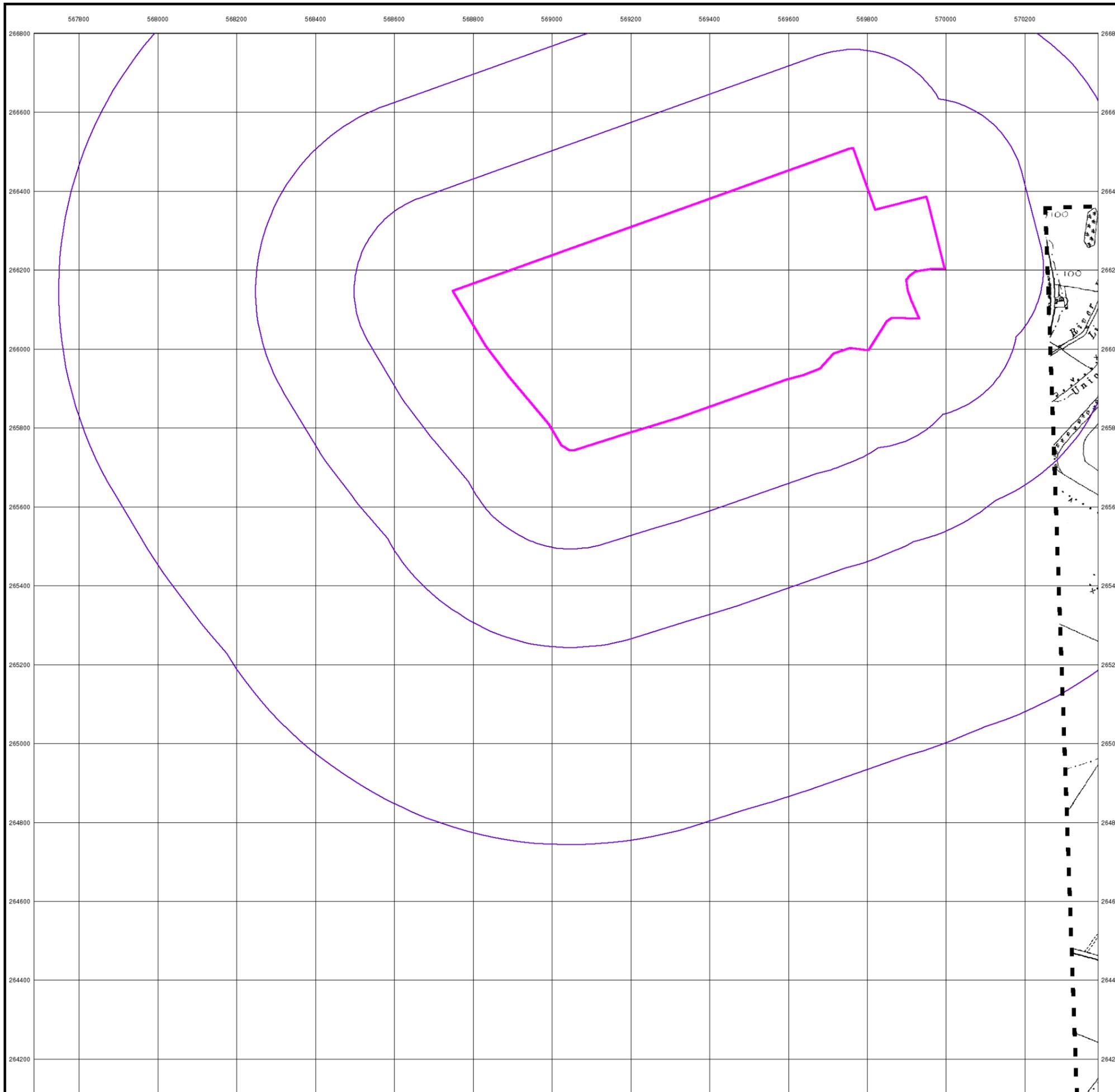


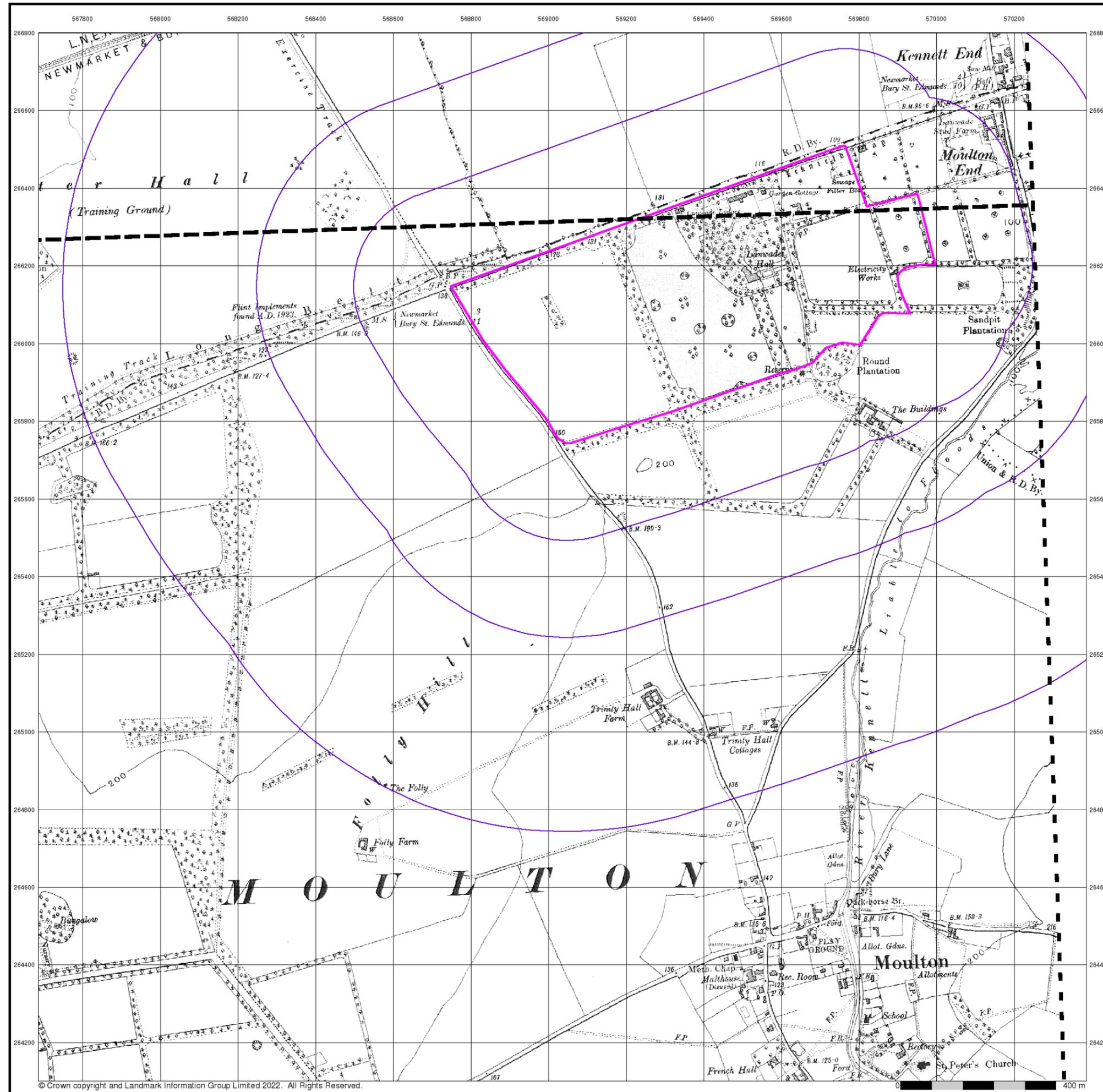
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Site Details

Lanwades Hall, Newmarket, CB8 7UA





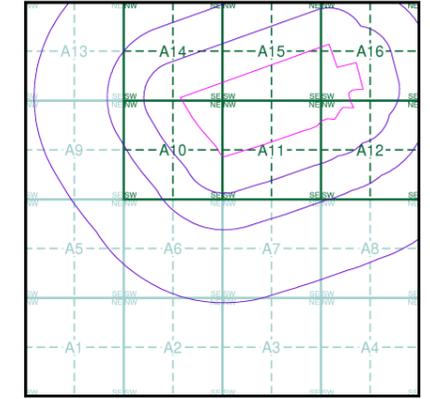
Cambridgeshire & Isle Of Ely Published 1927 Source map scale - 1:10,560

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)

036SE	1927	1:10,560
042NE	1927	1:10,560

Historical Map - Slice A



Order Details

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

Site Details

Lanwades Hall, Newmarket, CB8 7UA

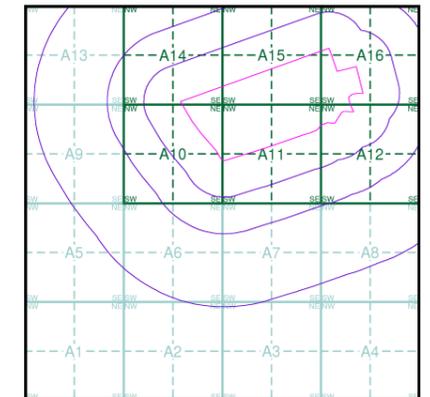
Cambridgeshire & Isle Of Ely Published 1938 - 1952 Source map scale - 1:10,560

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)

036SE 1952 1:10,560	037SW 1952 1:10,560
042NE 1938 1:10,560	

Historical Map - Slice A

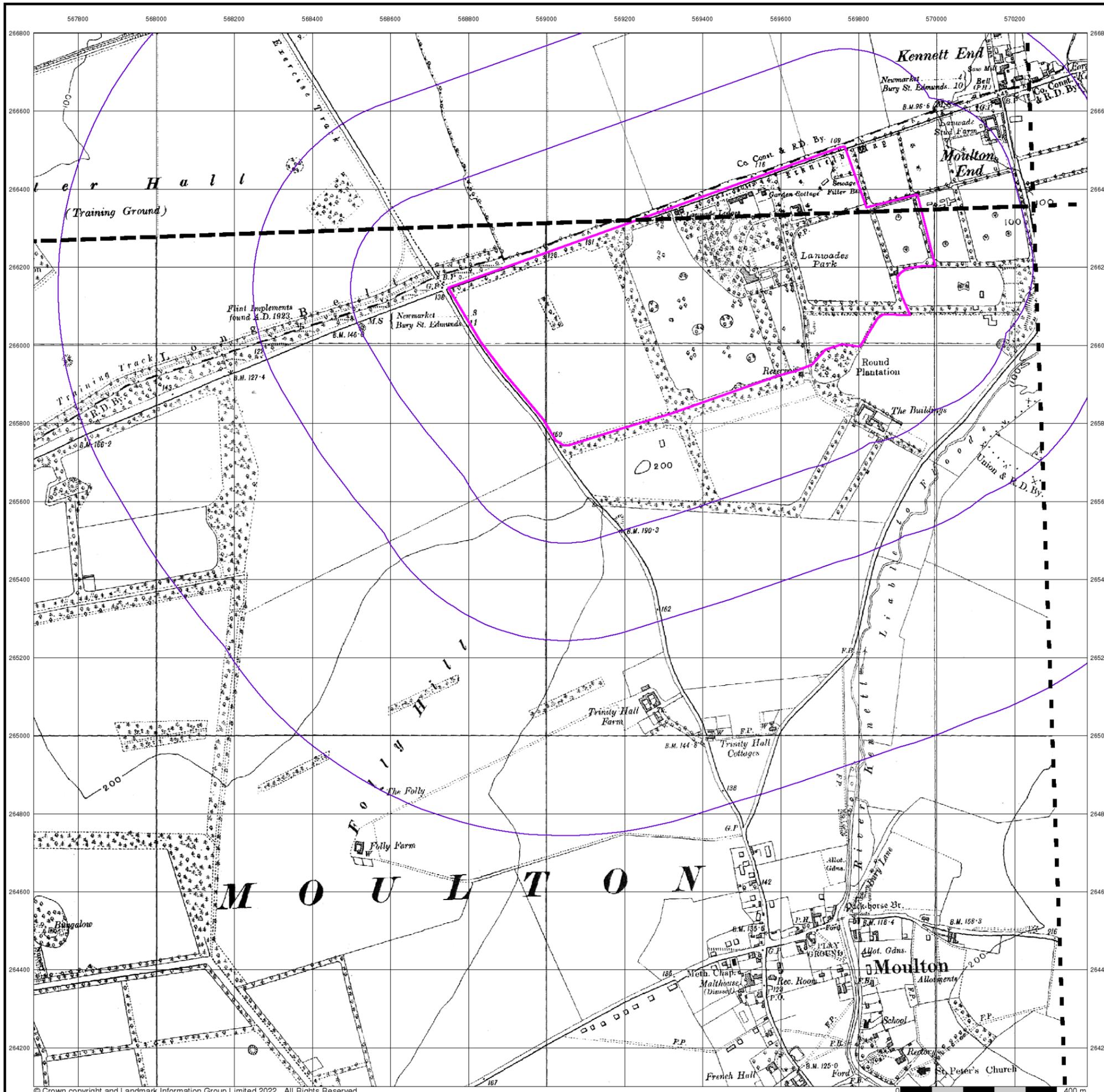


Order Details

Order Number: 304894834_1_1
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Site Details

Lanwades Hall, Newmarket, CB8 7UA



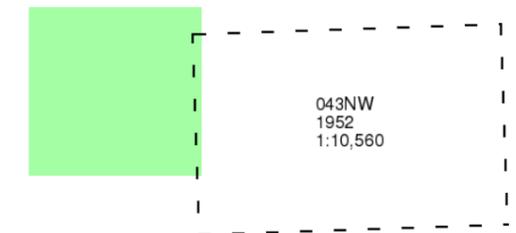
Suffolk

Published 1952

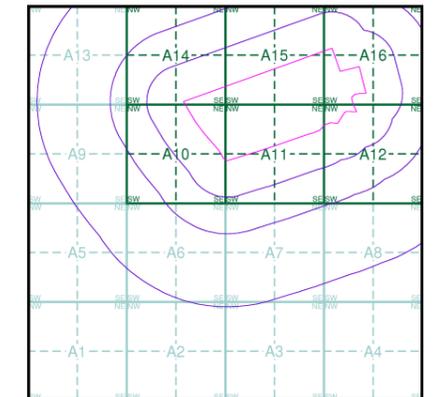
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A

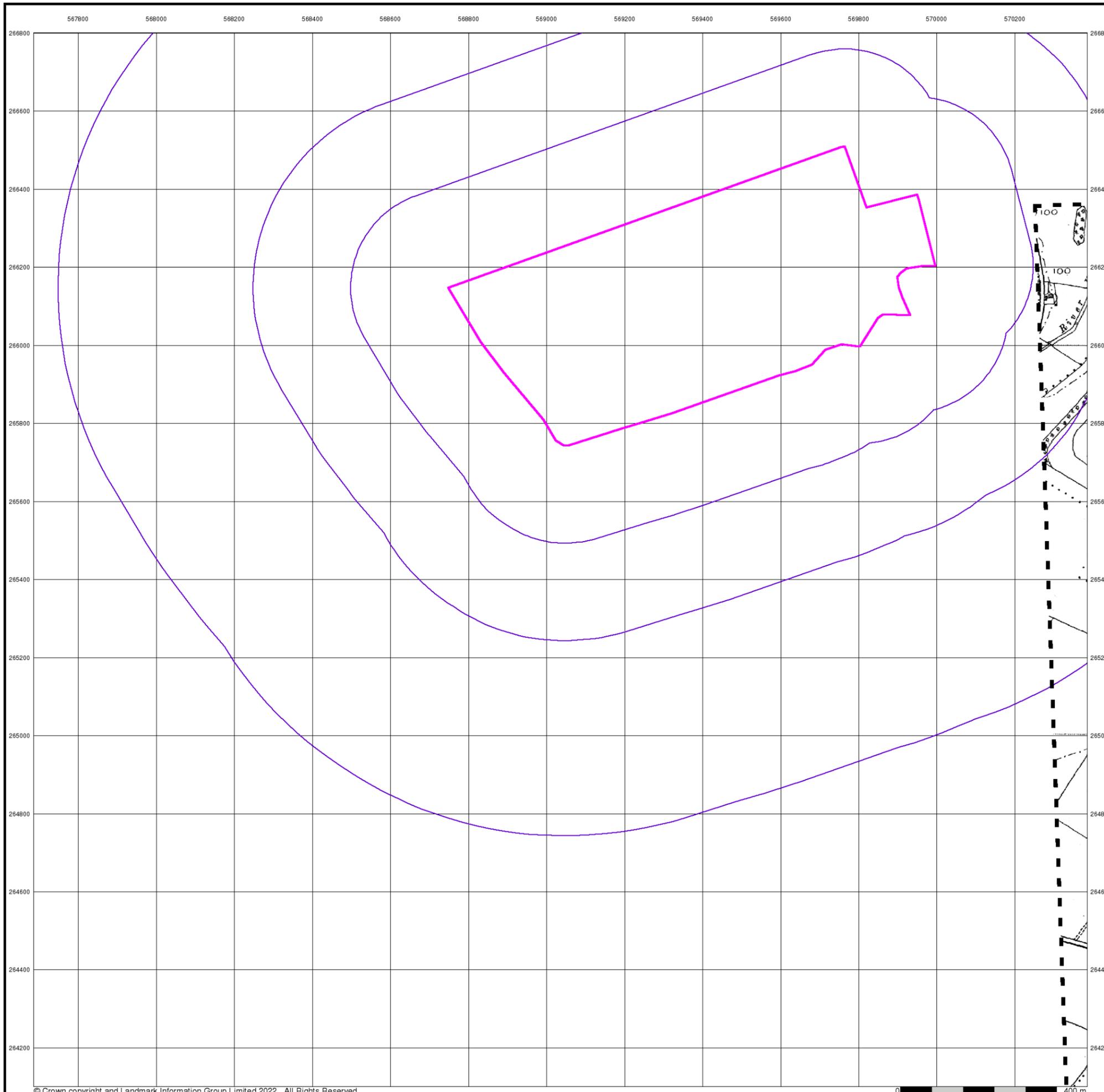


Order Details

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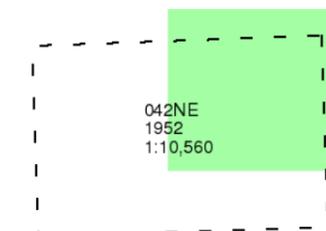
Cambridgeshire & Isle Of Ely

Published 1952

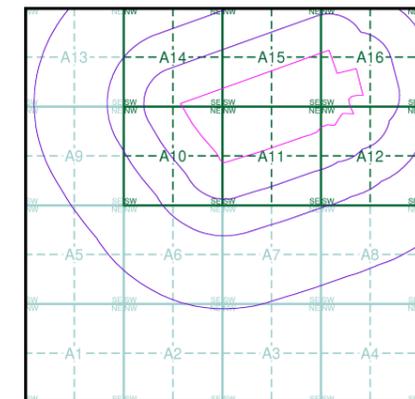
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A

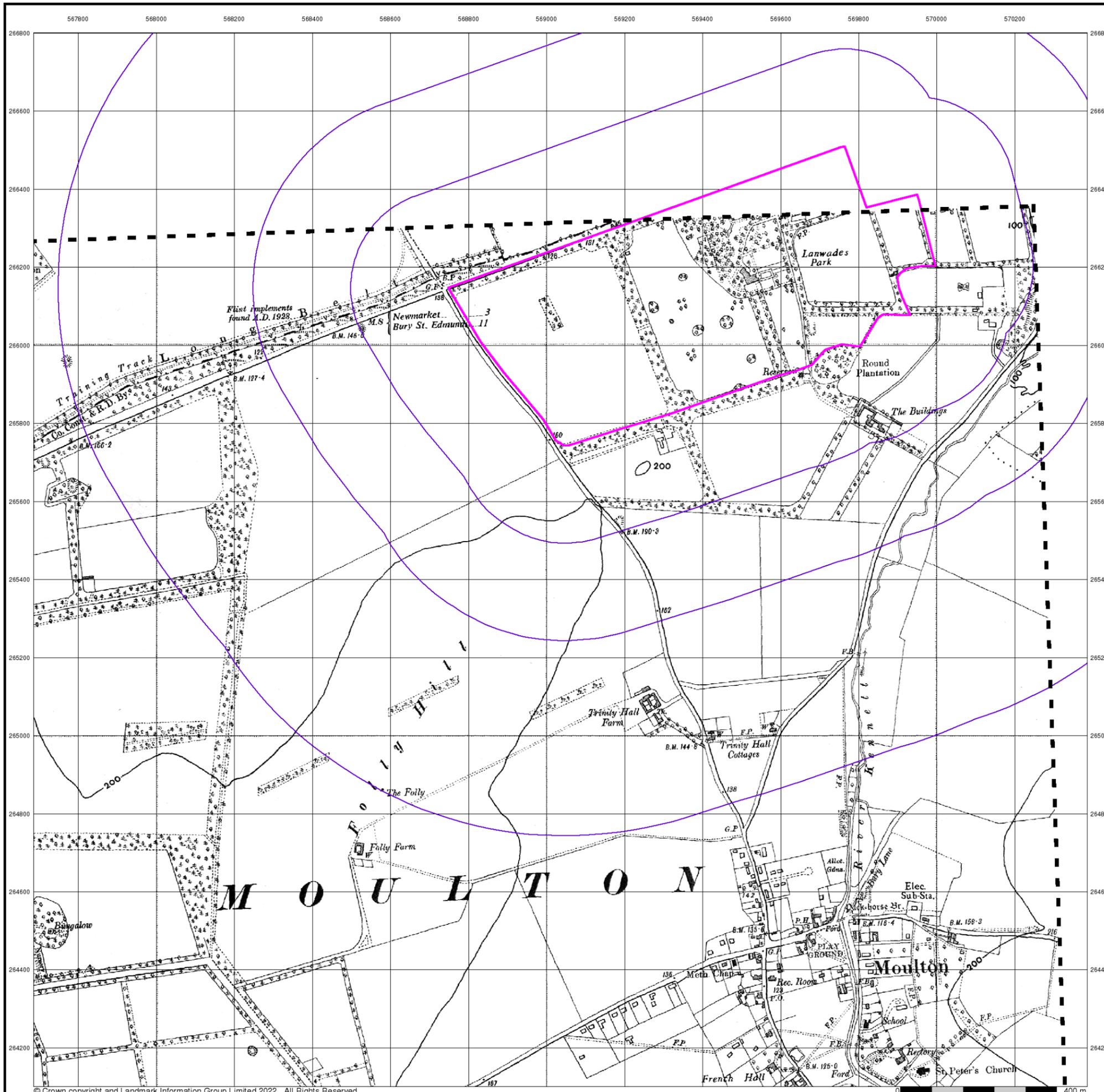


Order Details

Order Number: 304894834_1_1
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 Slice: A
 Site Area (Ha): 51.85
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Site Details

Lanwades Hall, Newmarket, CB8 7UA



Ordnance Survey Plan

Published 1958

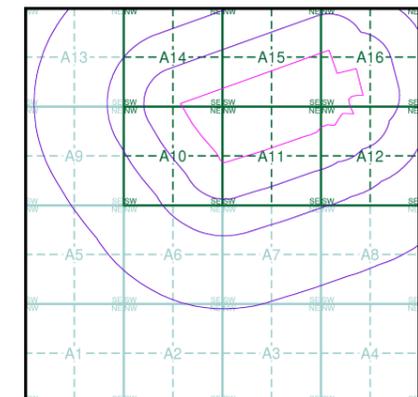
Source map scale - 1:10,000

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)

TL66NE	TL76NW
1958	1958
1:10,560	1:10,560
TL66SE	TL76SW
1958	1958
1:10,560	1:10,560

Historical Map - Slice A

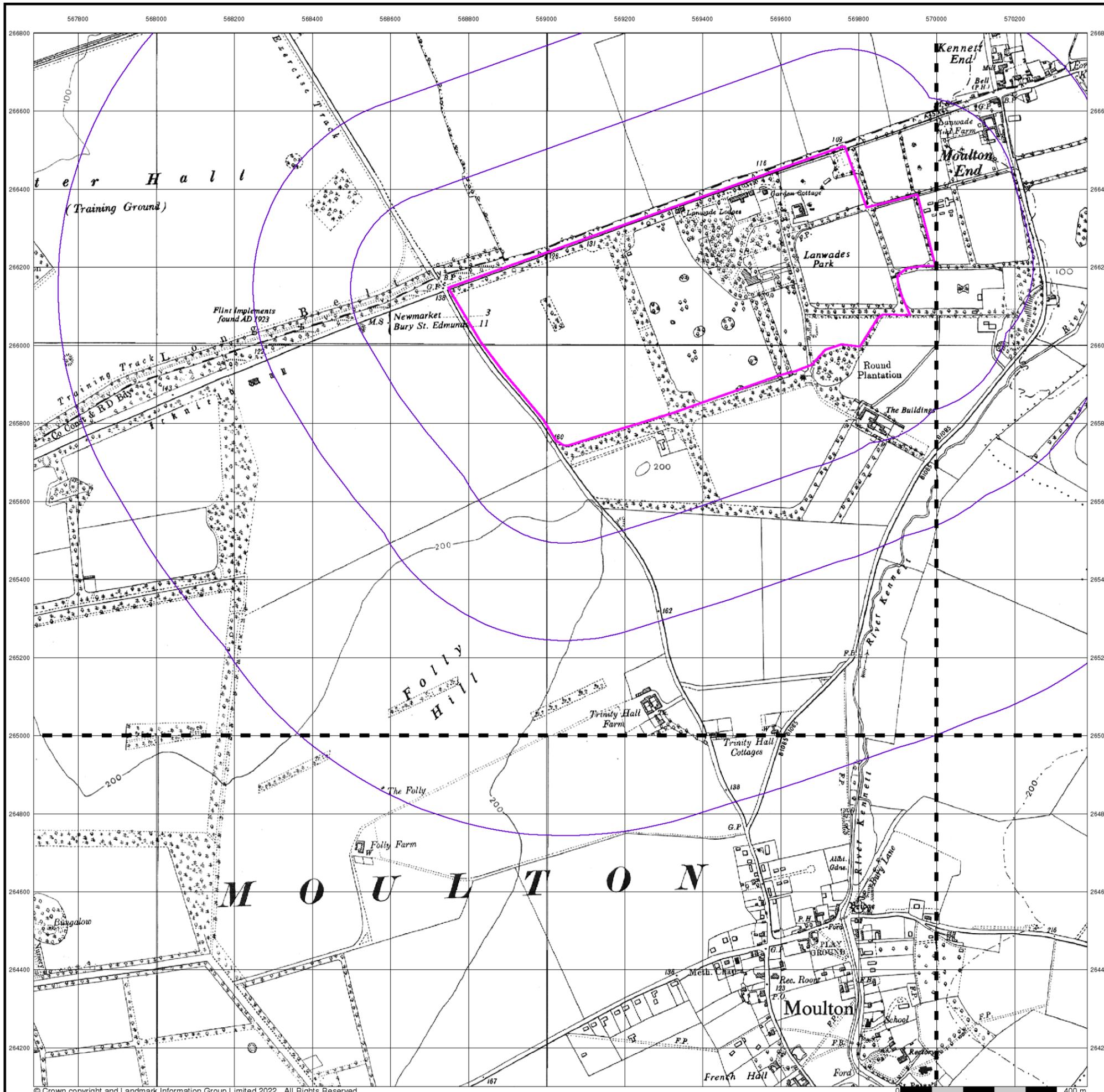


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Site Details

Lanwades Hall, Newmarket, CB8 7UA



Ordnance Survey Plan

Published 1972 - 1975

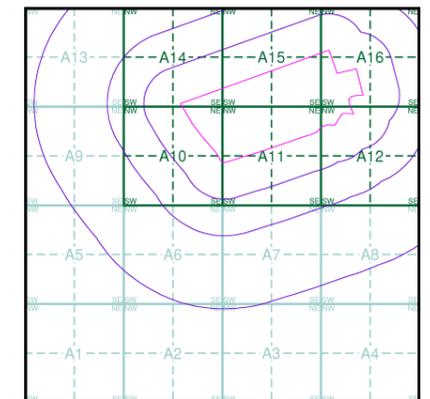
Source map scale - 1:10,000

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)

TL66NE	1972	1:10,000
TL66SE	1975	1:10,000

Historical Map - Slice A

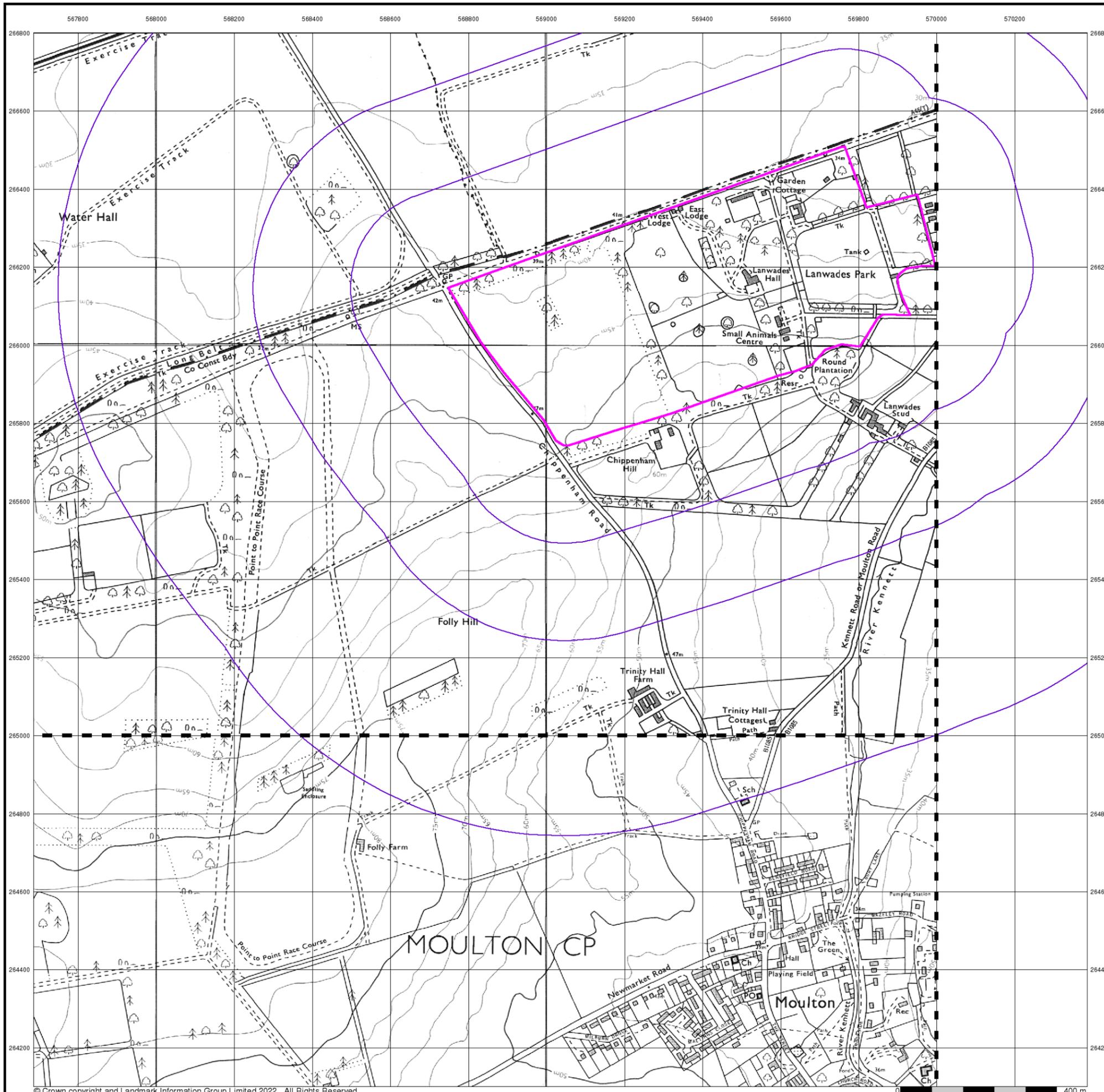


Order Details

Order Number: 304894834_1_1
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 Slice: A
 Site Area (Ha): 51.85
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Site Details

Lanwades Hall, Newmarket, CB8 7UA



Ordnance Survey Plan

Published 1982 - 1983

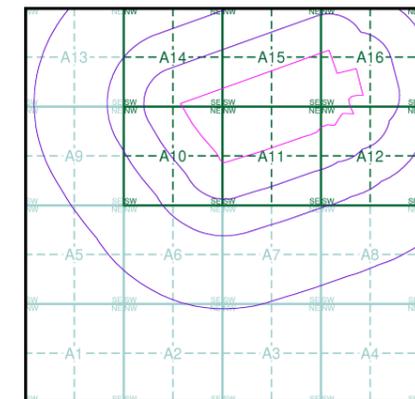
Source map scale - 1:10,000

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)

TL76NW	1983	1:10,000
TL76SW	1982	1:10,000

Historical Map - Slice A



Order Details

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Site Details

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Ordnance Survey Plan

Published 1990

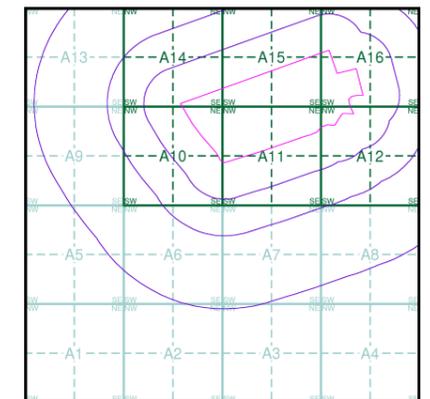
Source map scale - 1:10,000

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.

Map Name(s) and Date(s)

TL66NE	1990	1:10,000
TL66SE	1990	1:10,000

Historical Map - Slice A

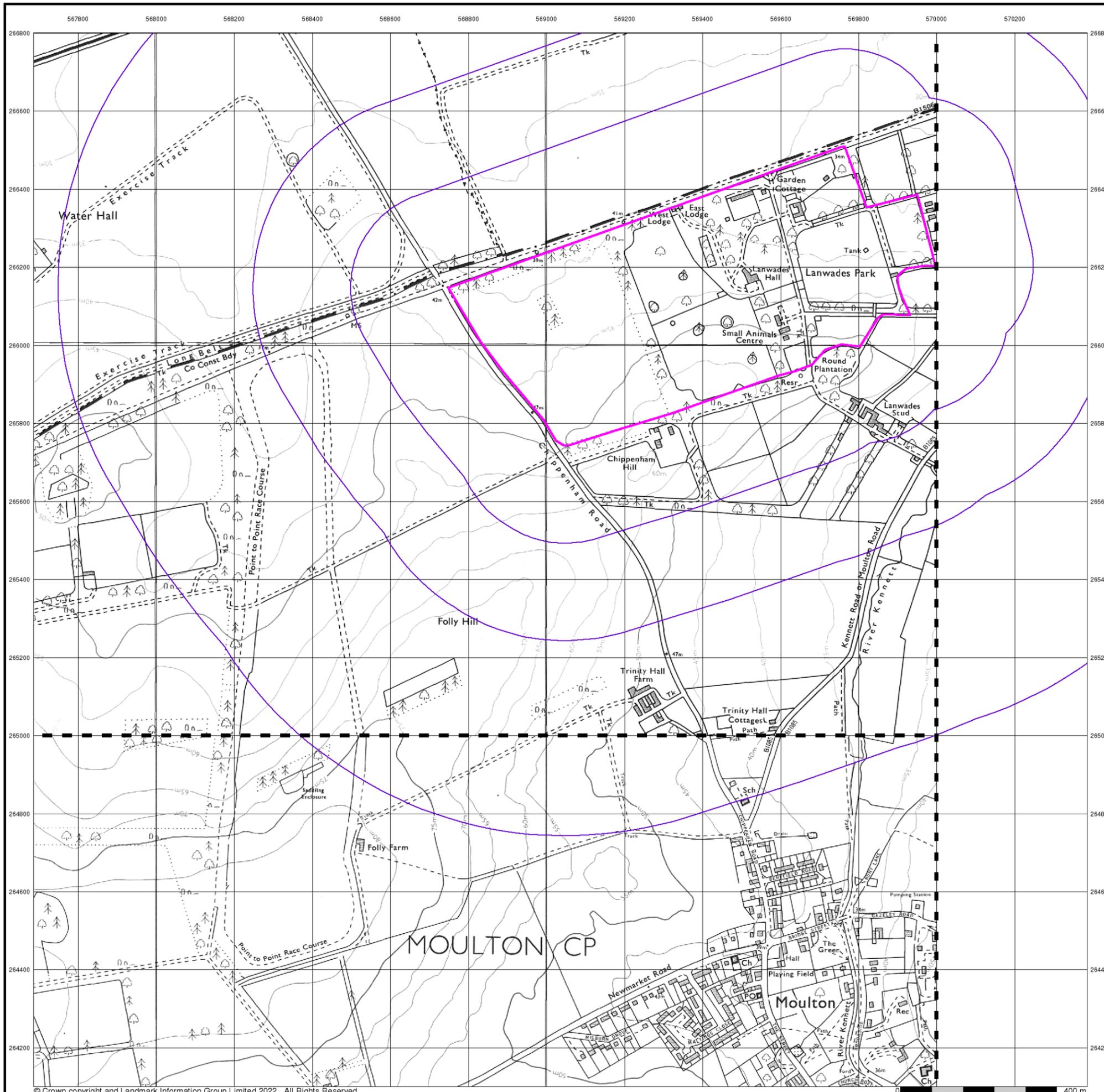


Order Details

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

Site Details

Lanwades Hall, Newmarket, CB8 7UA



10k Raster Mapping

Published 2000

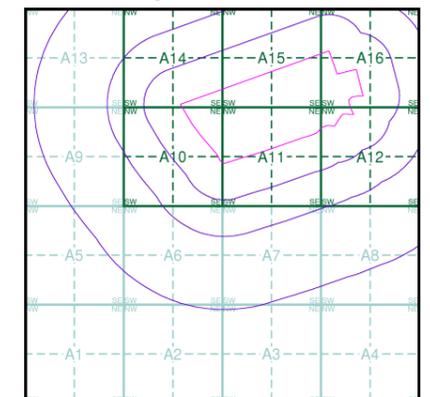
Source map scale - 1:10,000

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)

TL66NE 2000 1:10,000	TL76NW 2000 1:10,000
TL66SE 2000 1:10,000	TL76SW 2000 1:10,000

Historical Map - Slice A



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