Intermodal Logistics Park North Ltd

INTERMODAL LOGISTICS PARK NORTH (ILPN)

Intermodal Logistics Park North (ILPN) Strategic Rail Freight Interchange (SRFI)

Project reference TR510001

Preliminary Environmental Information Report (PEIR)

Appendix 15.1: Phase 1 Geo-environmental Assessment (Part 04 of 04)

October 2025

Planning Act 2008

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017

This document forms a part of a Preliminary Environmental Information Report (PEIR) for the Intermodal Logistics Park North (ILPN) project.

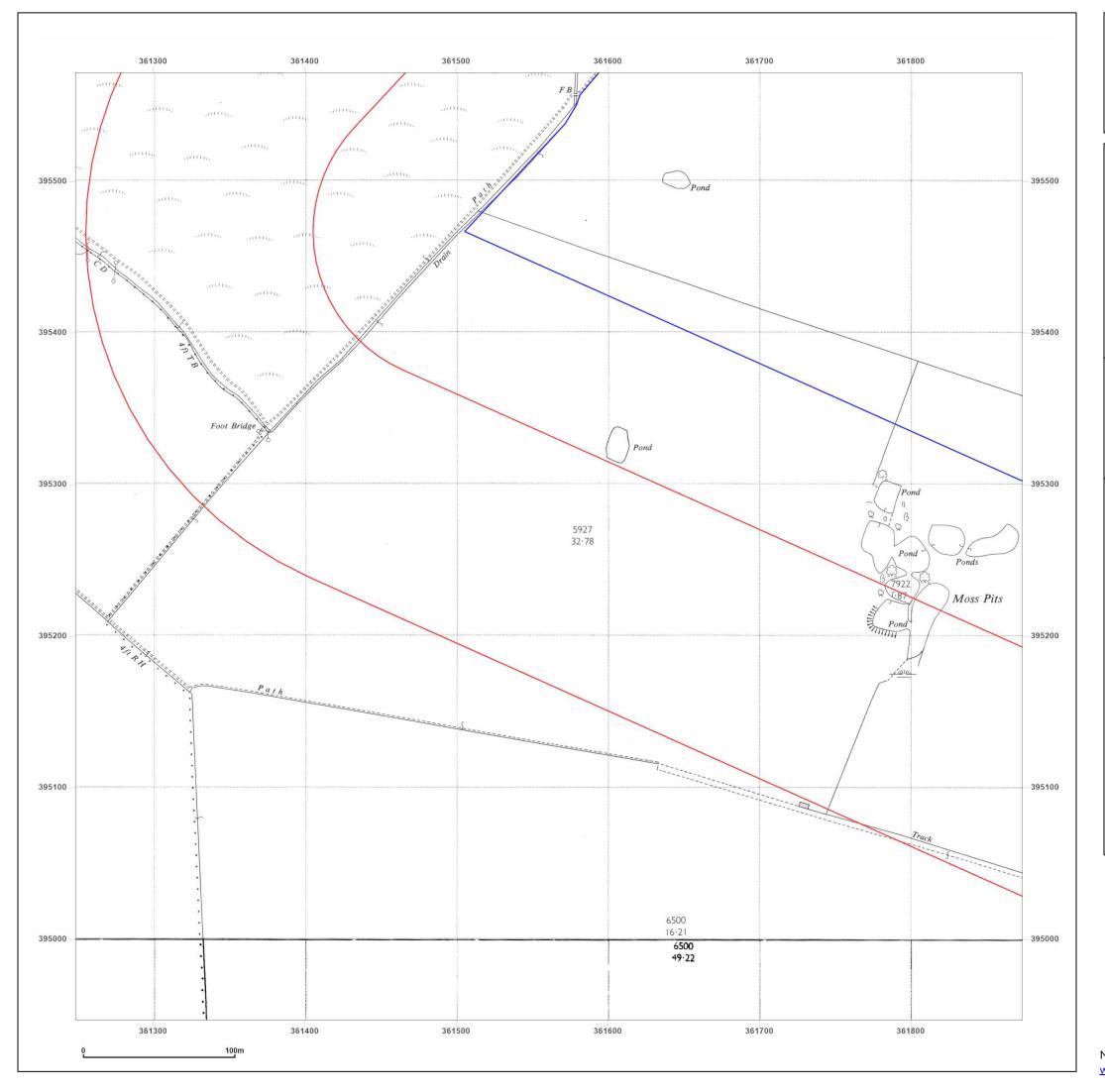
A PEIR presents environmental information to assist consultees to form an informed view of the likely significant environmental effects of a proposed development and provide feedback.

This PEIR has been prepared by the project promoter, Intermodal Logistics Park North Ltd. The Proposed Development is described in Chapter 3 of the PEIR and is the subject of a public consultation.

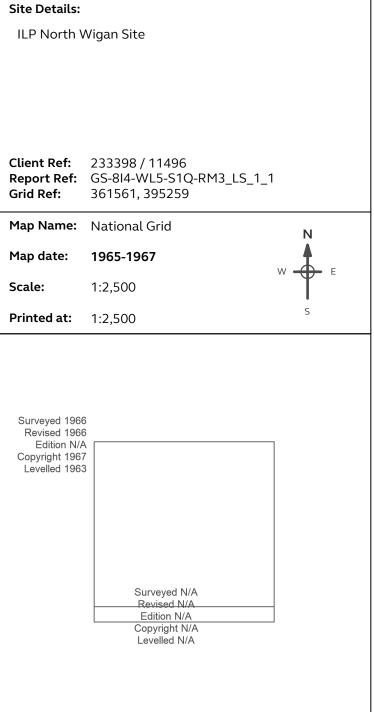
Details of how to respond to the public consultation are provided at the end of Chapter 1 of the PEIR and on the project website:

https://www.tritaxbigbox.co.uk/our-spaces/intermodal-logistics-park-north/

This feedback will be taken into account by Intermodal Logistics Park North Ltd in the preparation of its application for a Development Consent Order for the project.





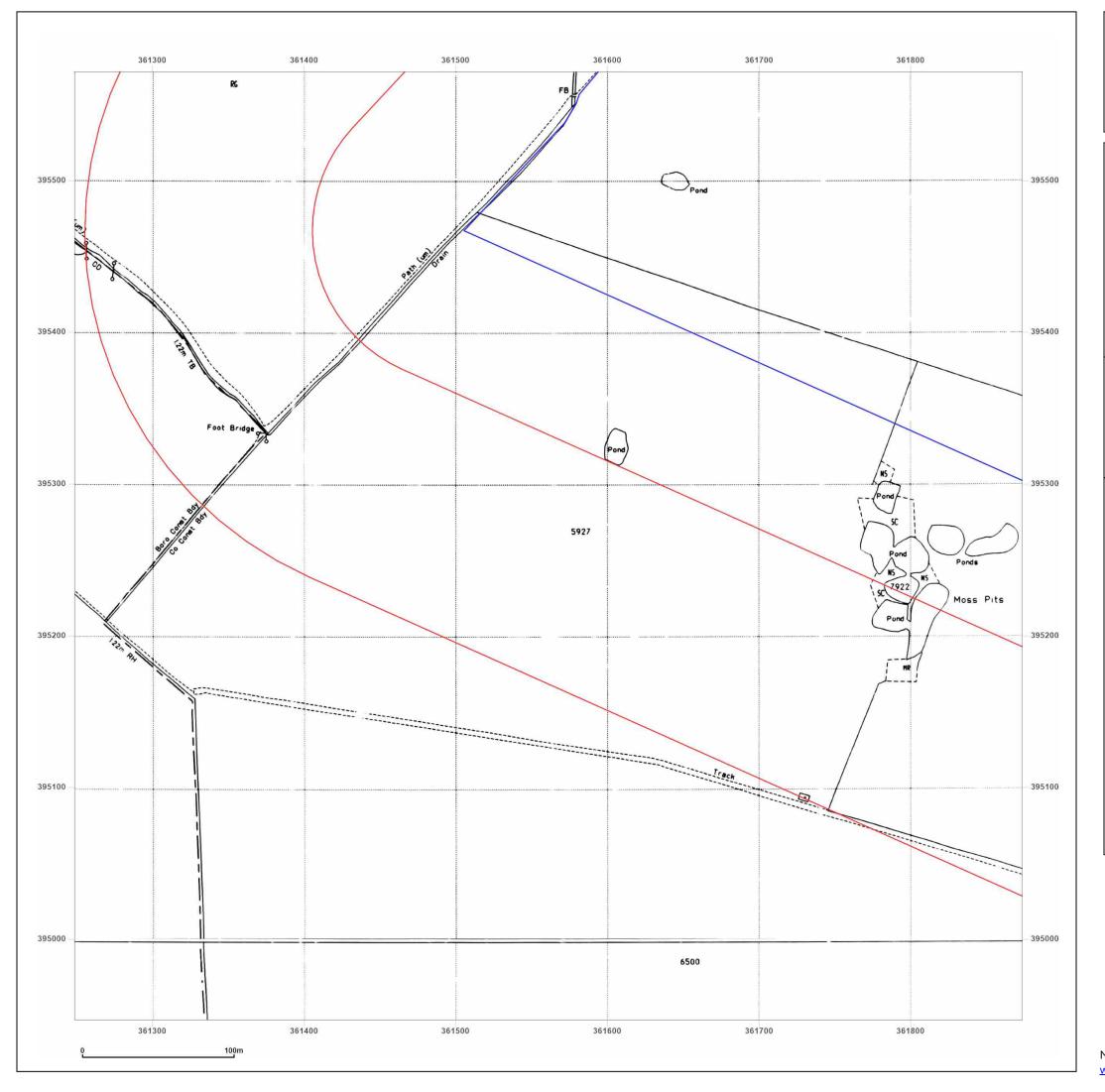




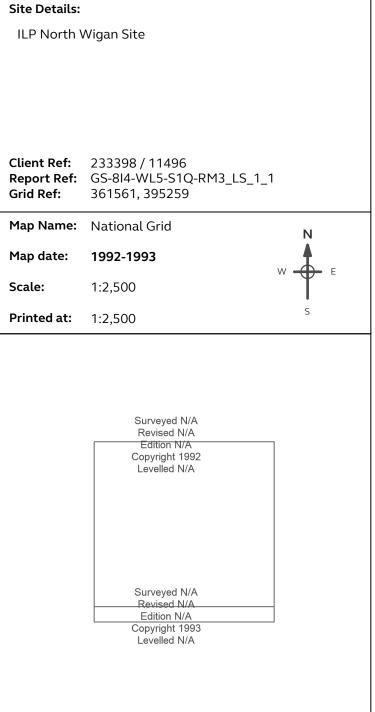
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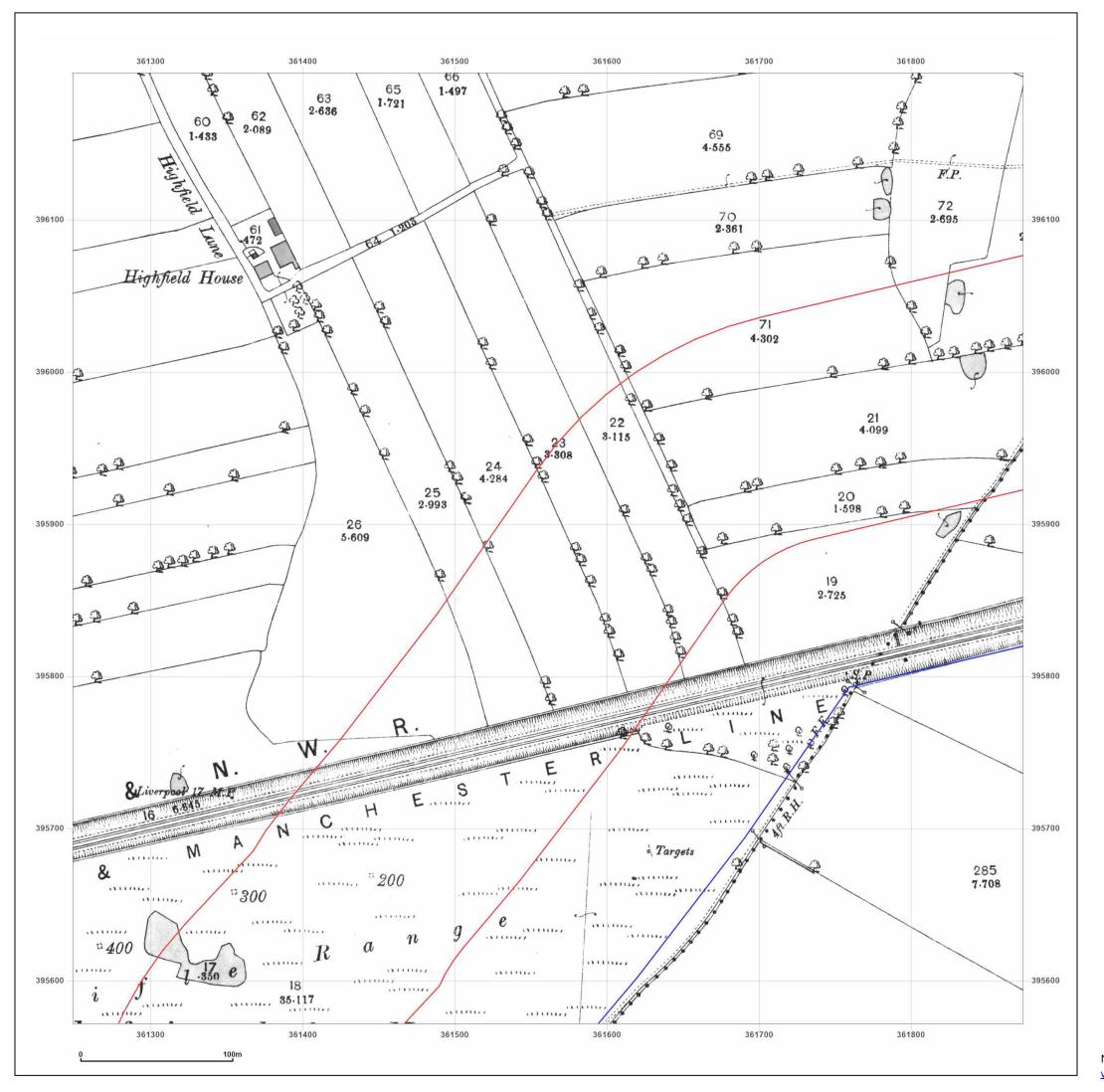




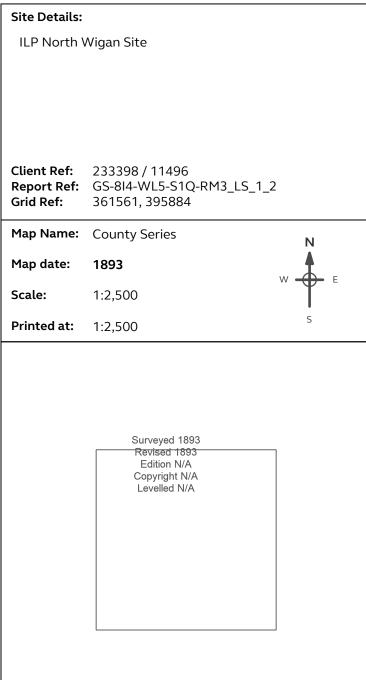
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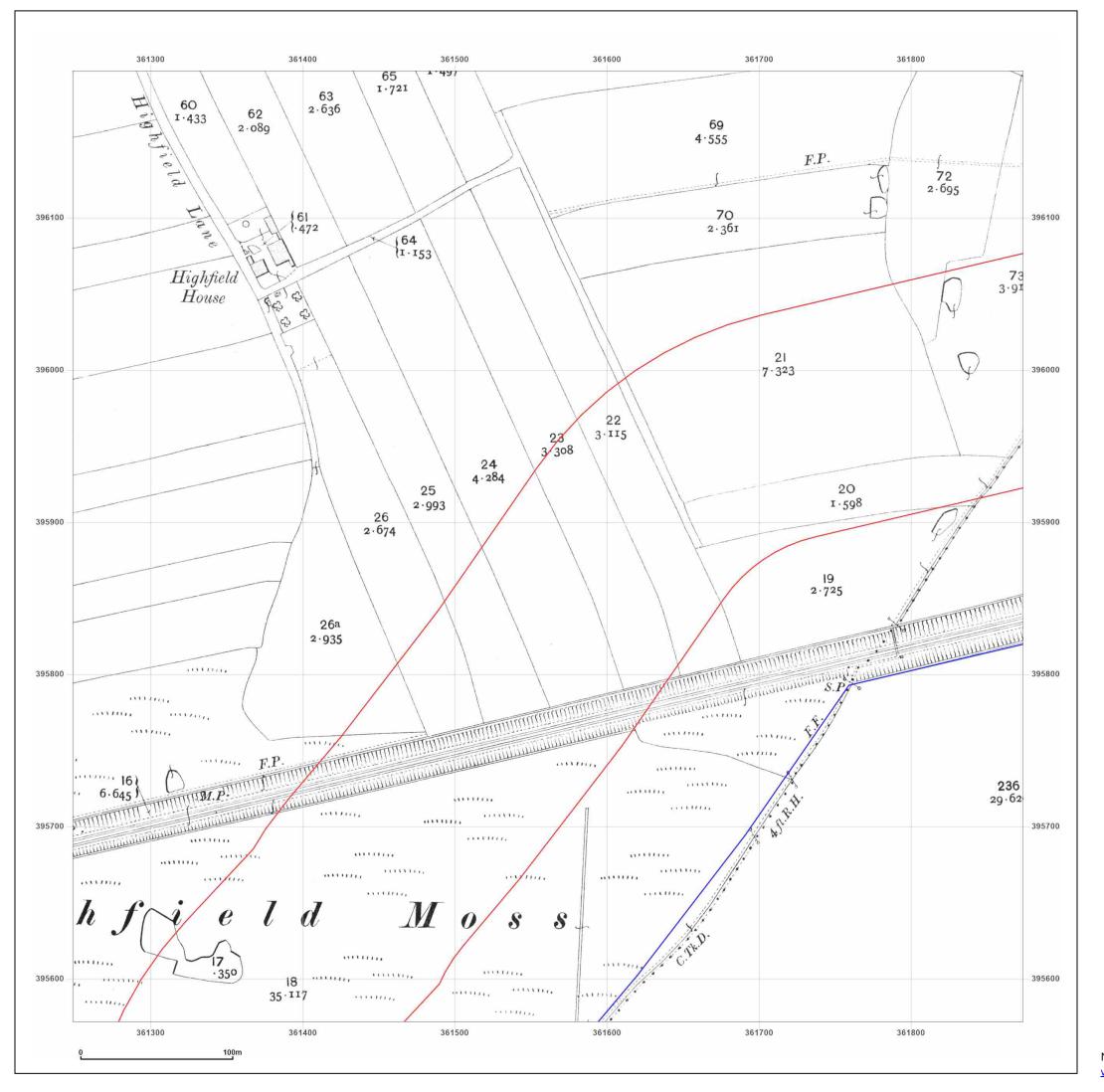




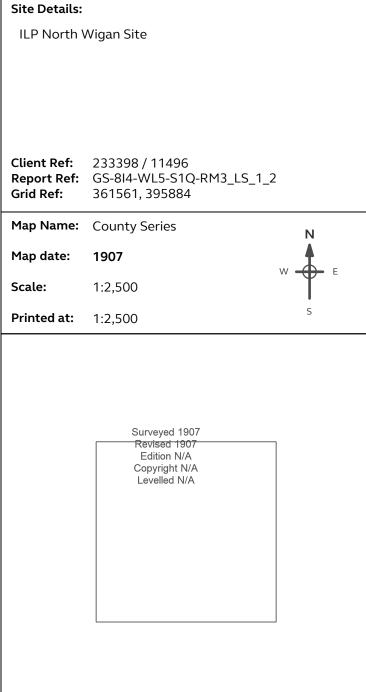
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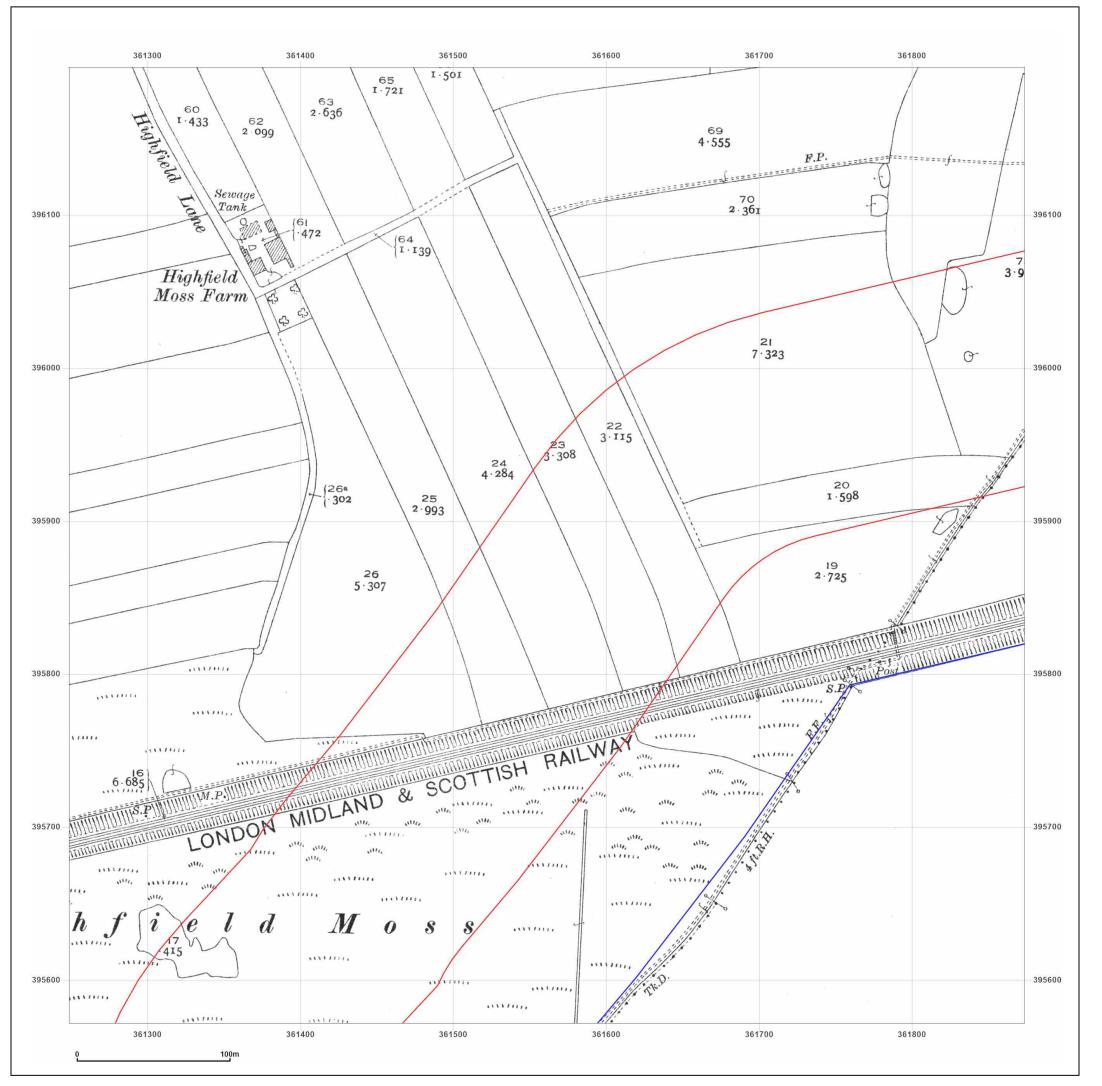




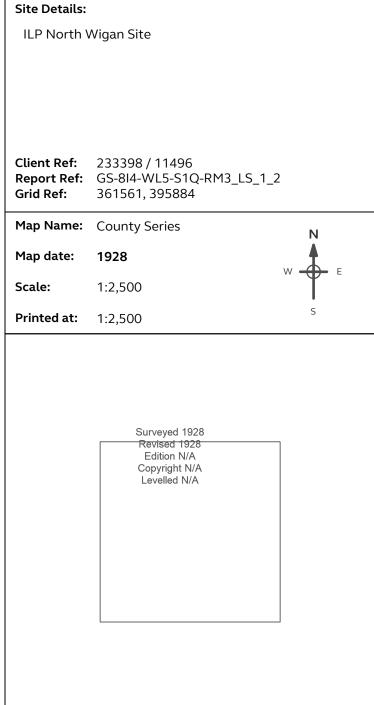
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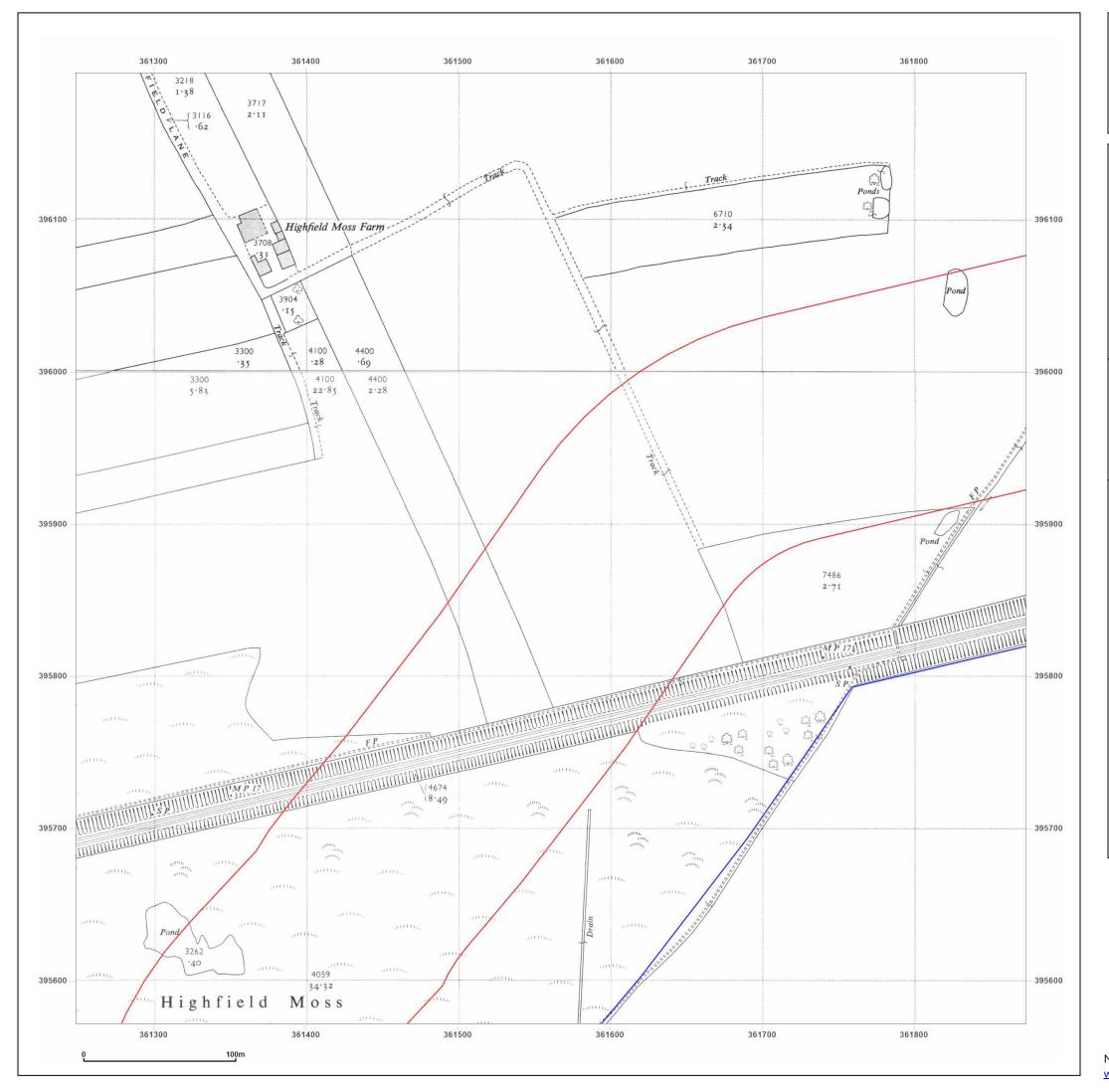




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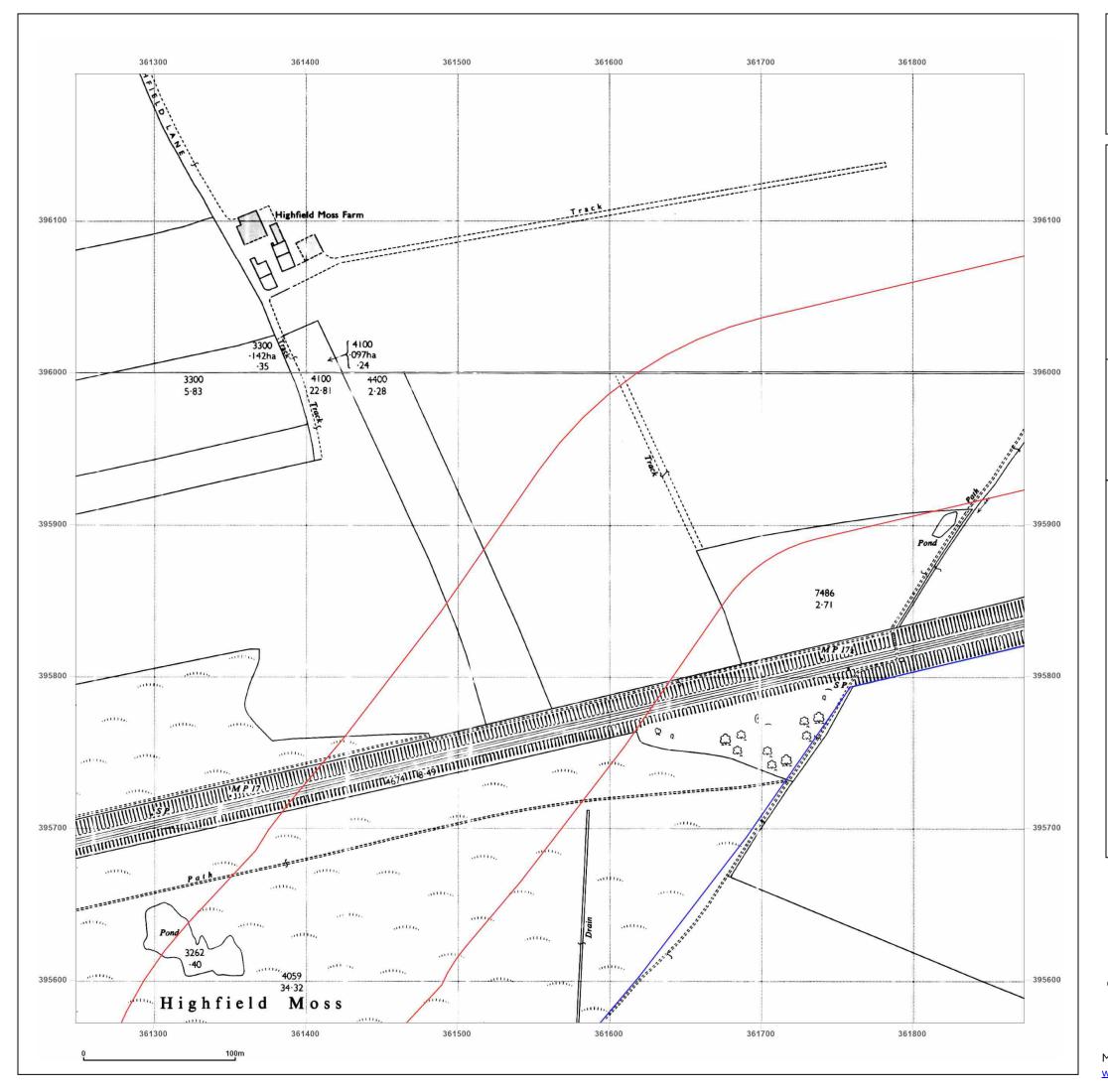
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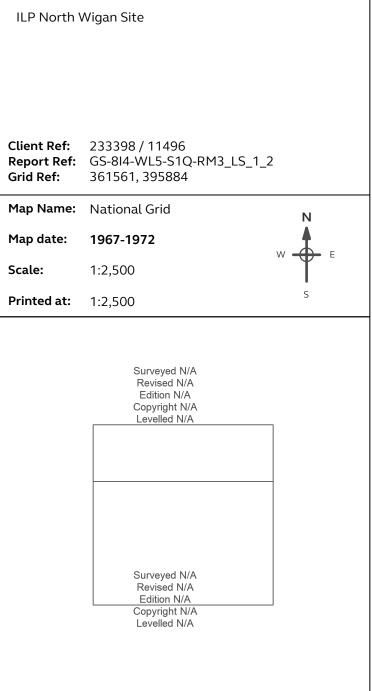
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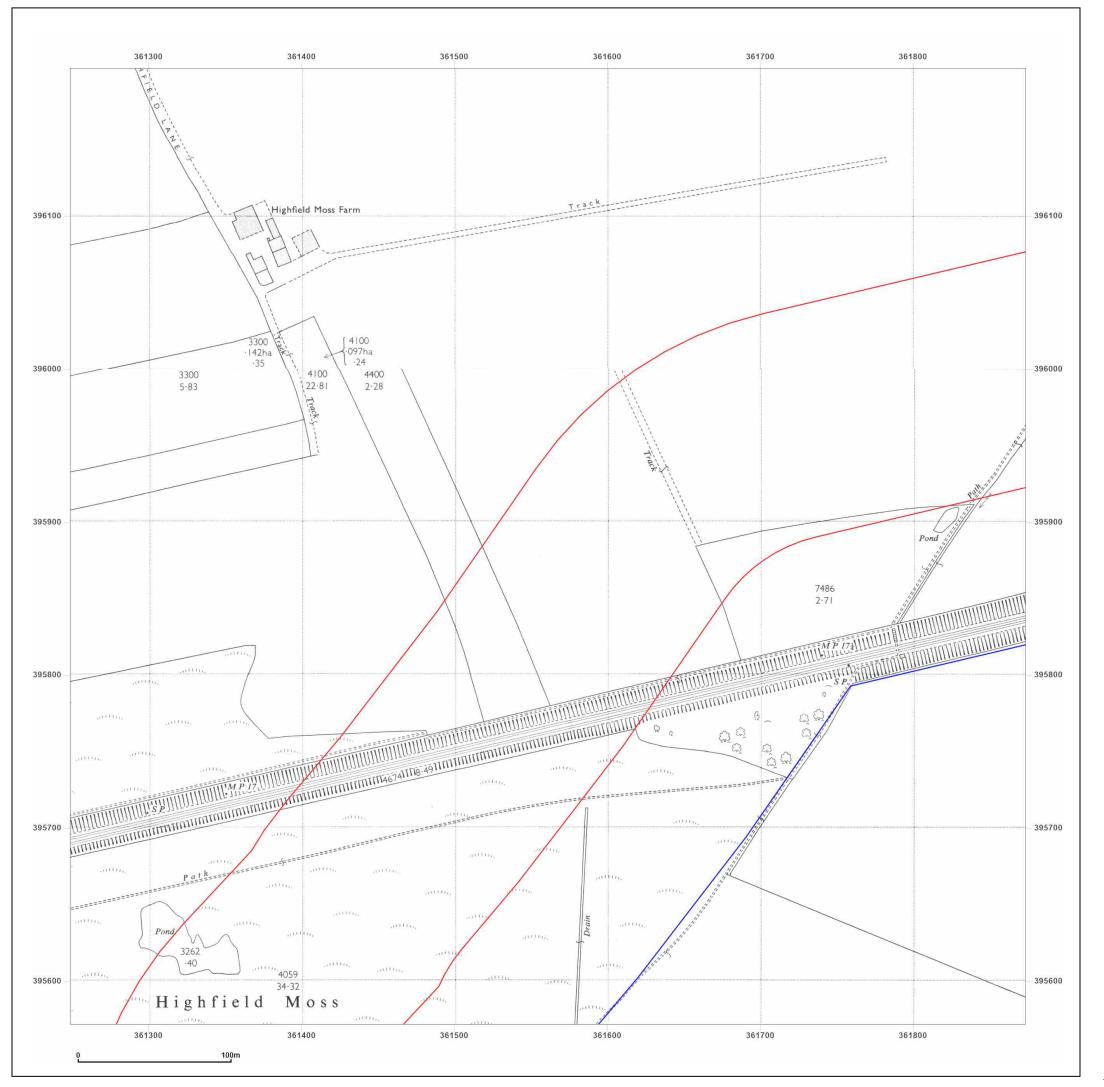


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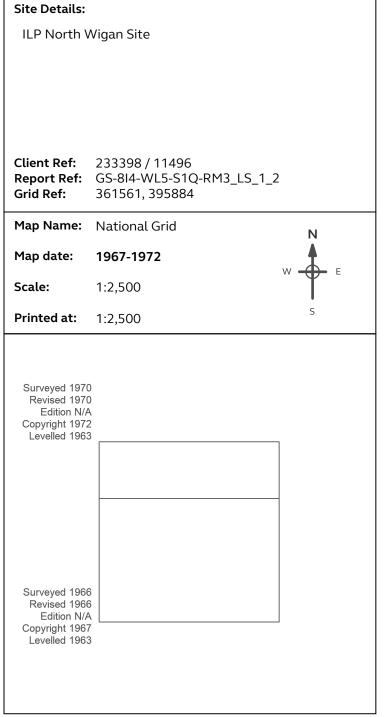
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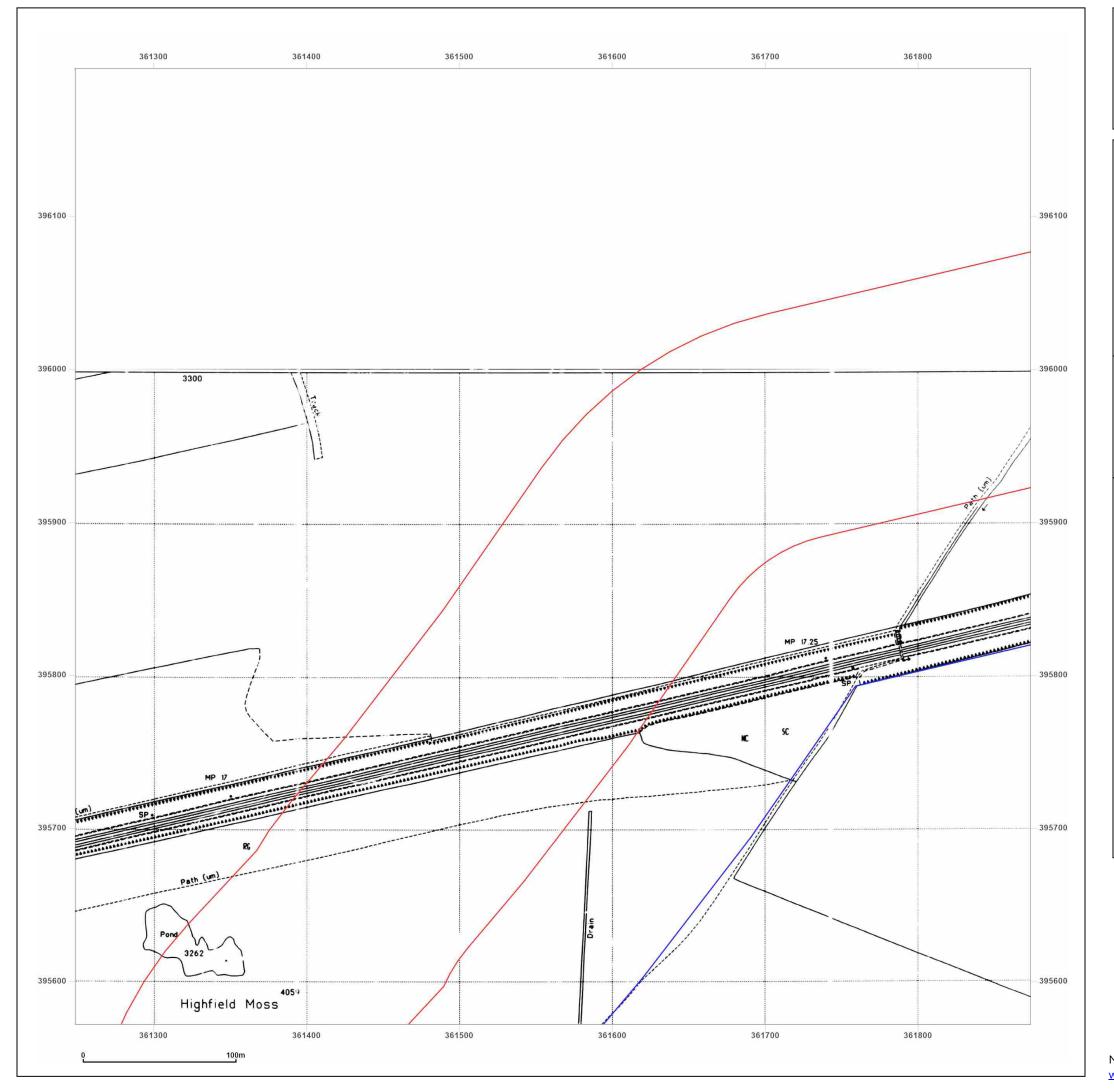




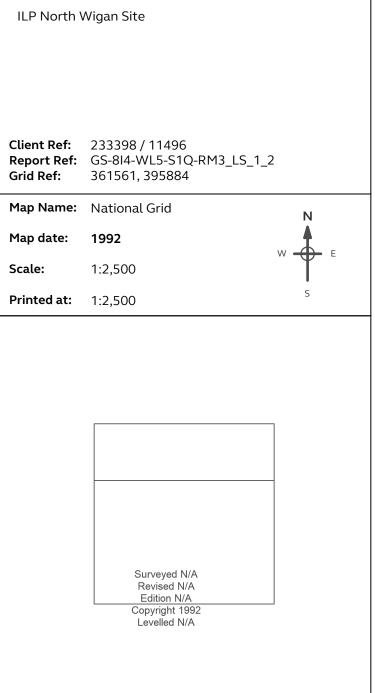
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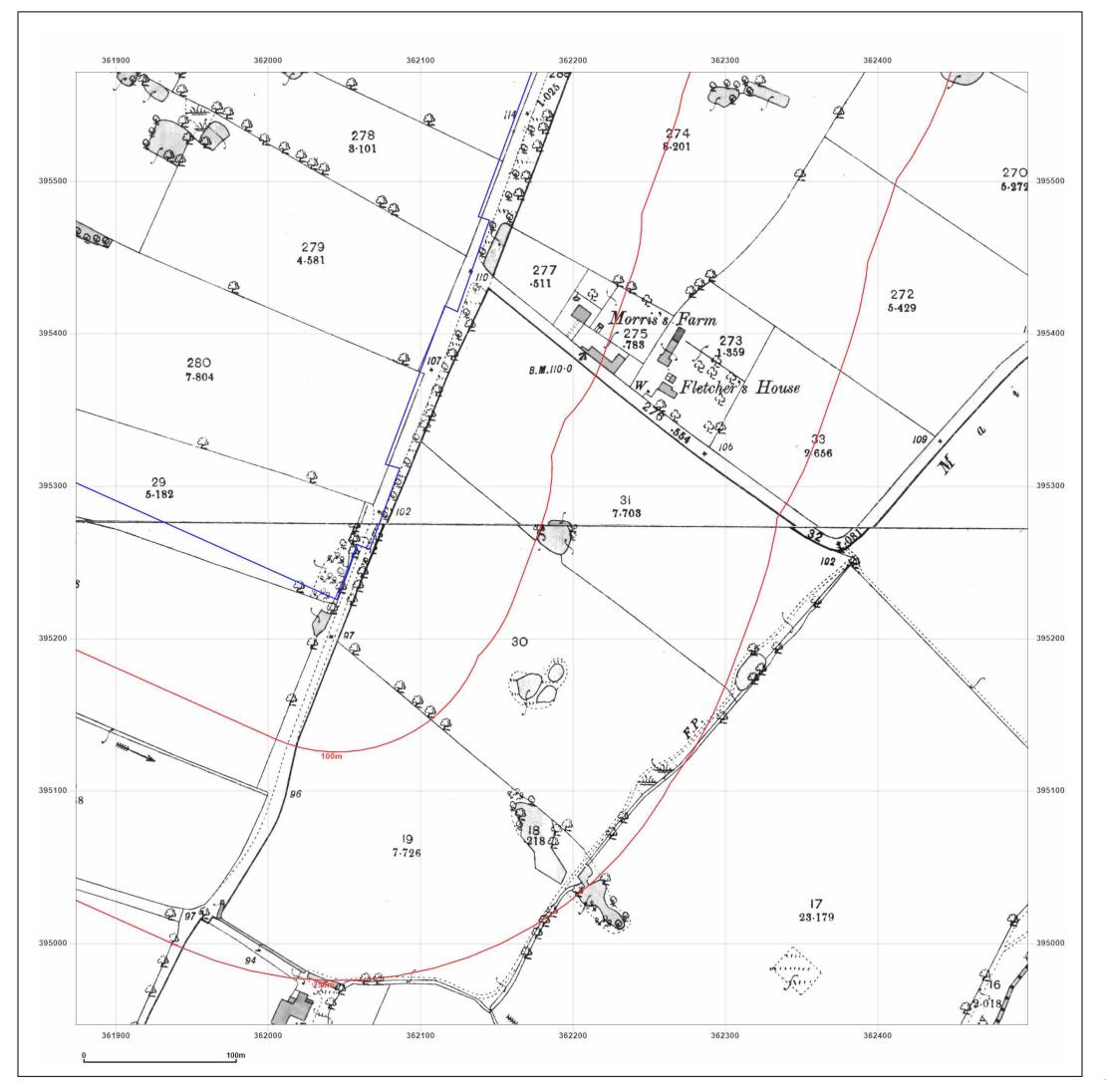


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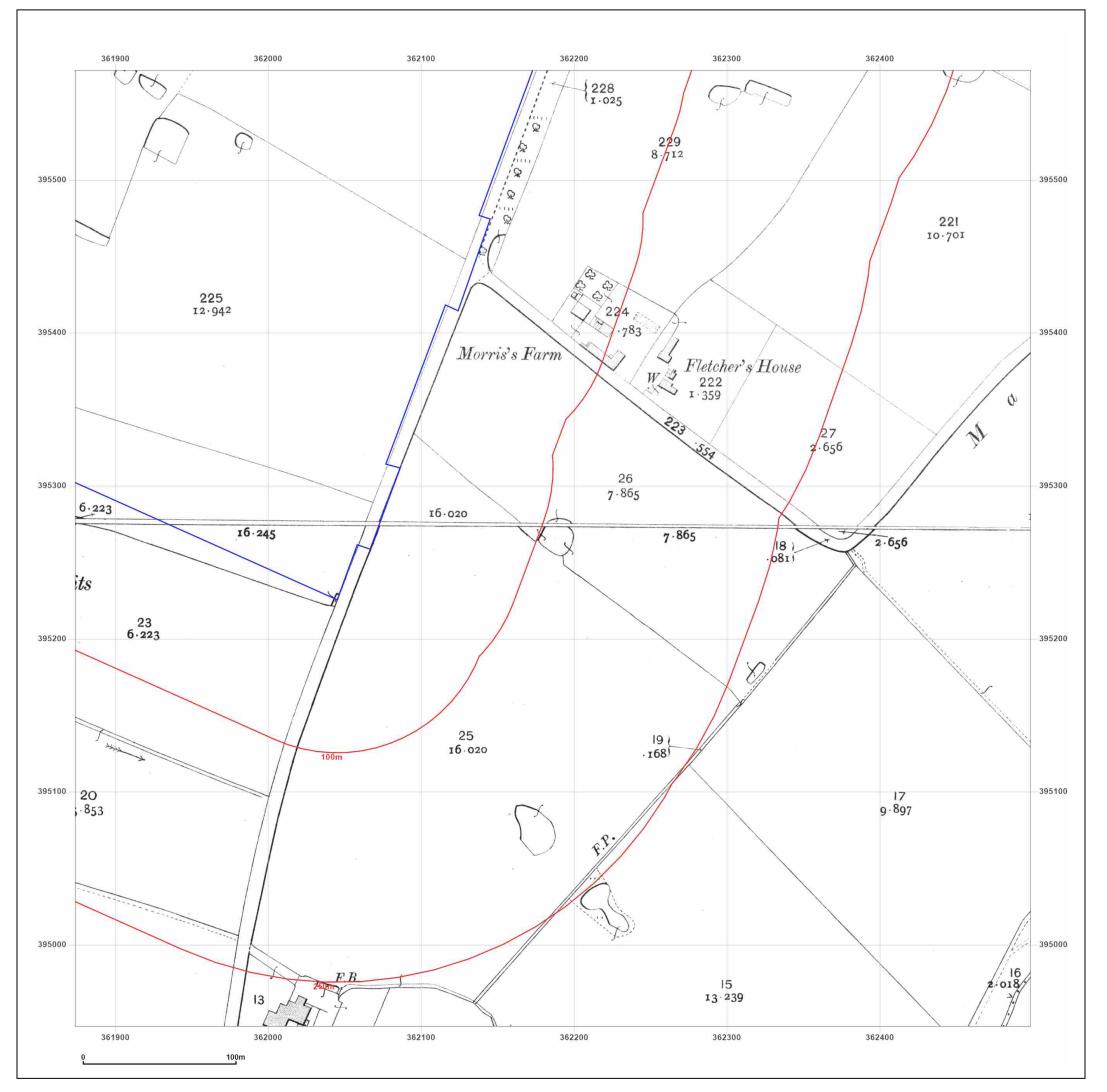
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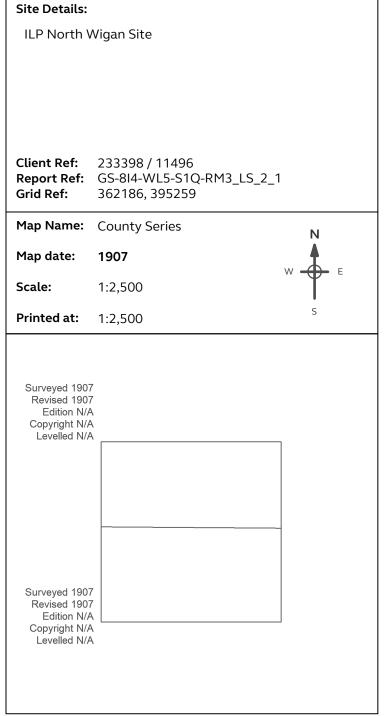
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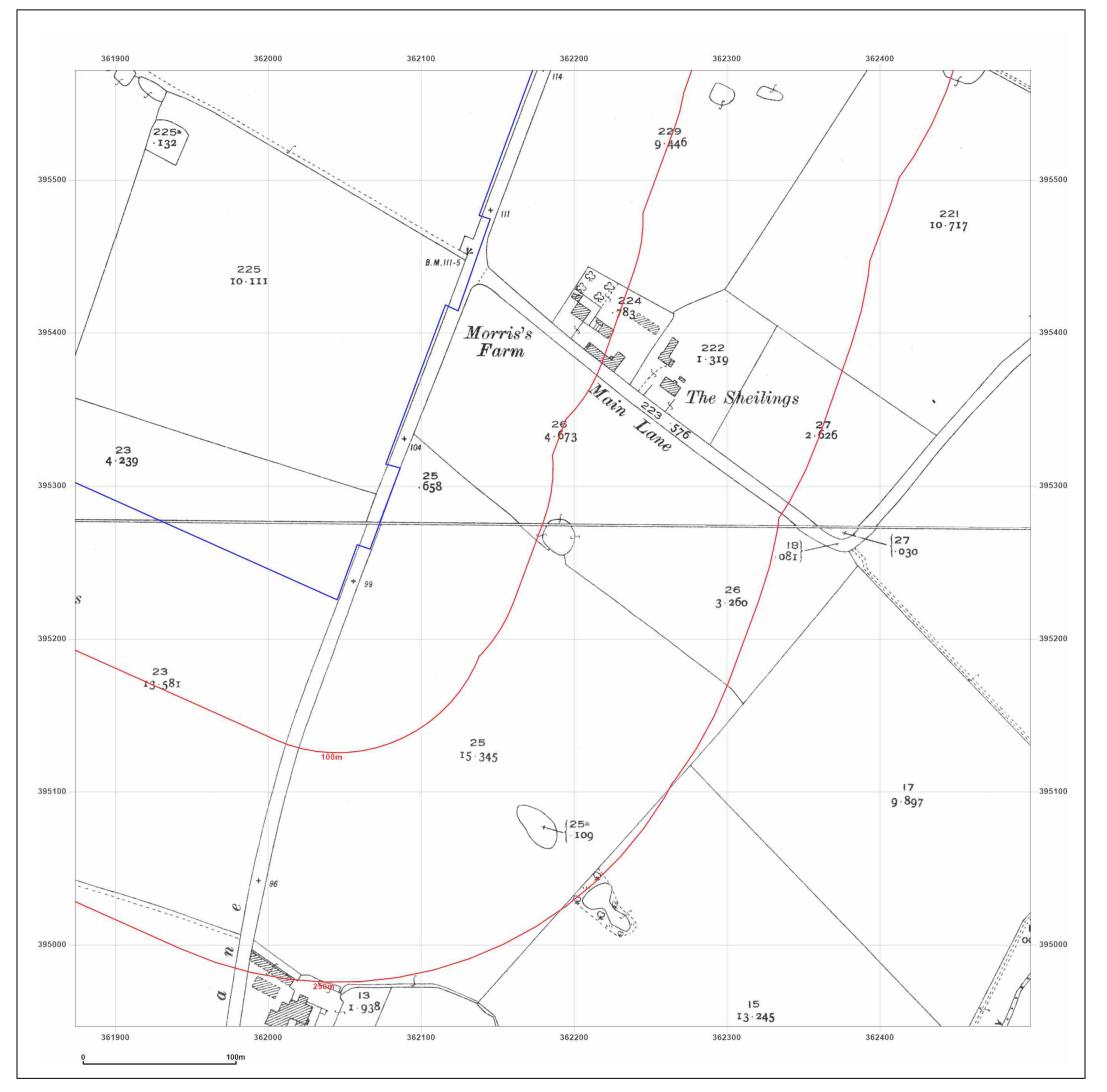




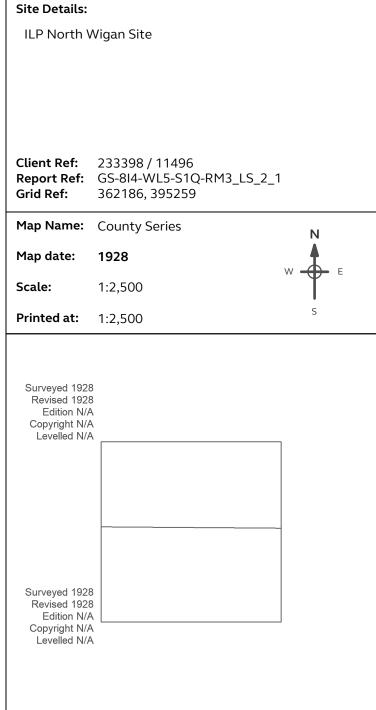
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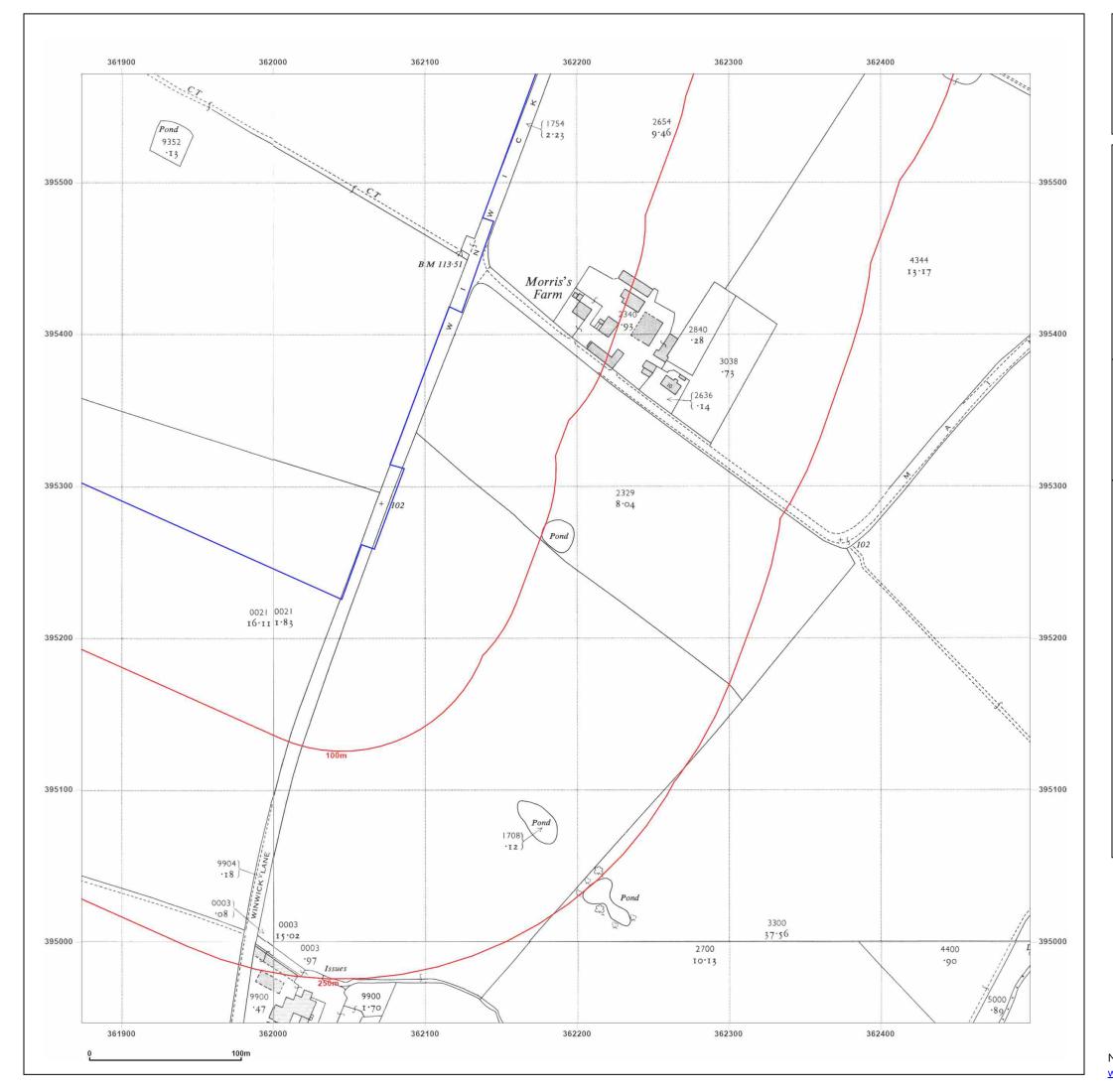




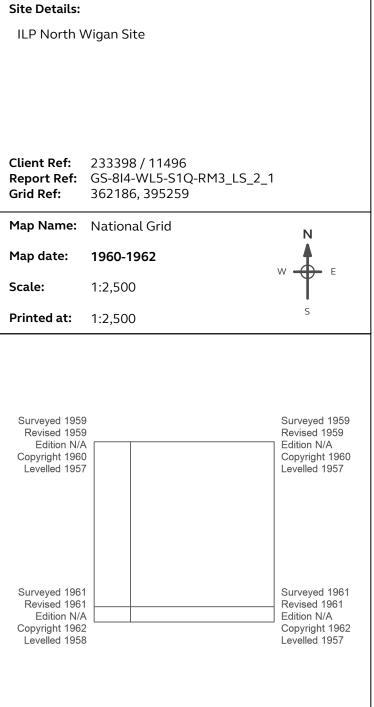
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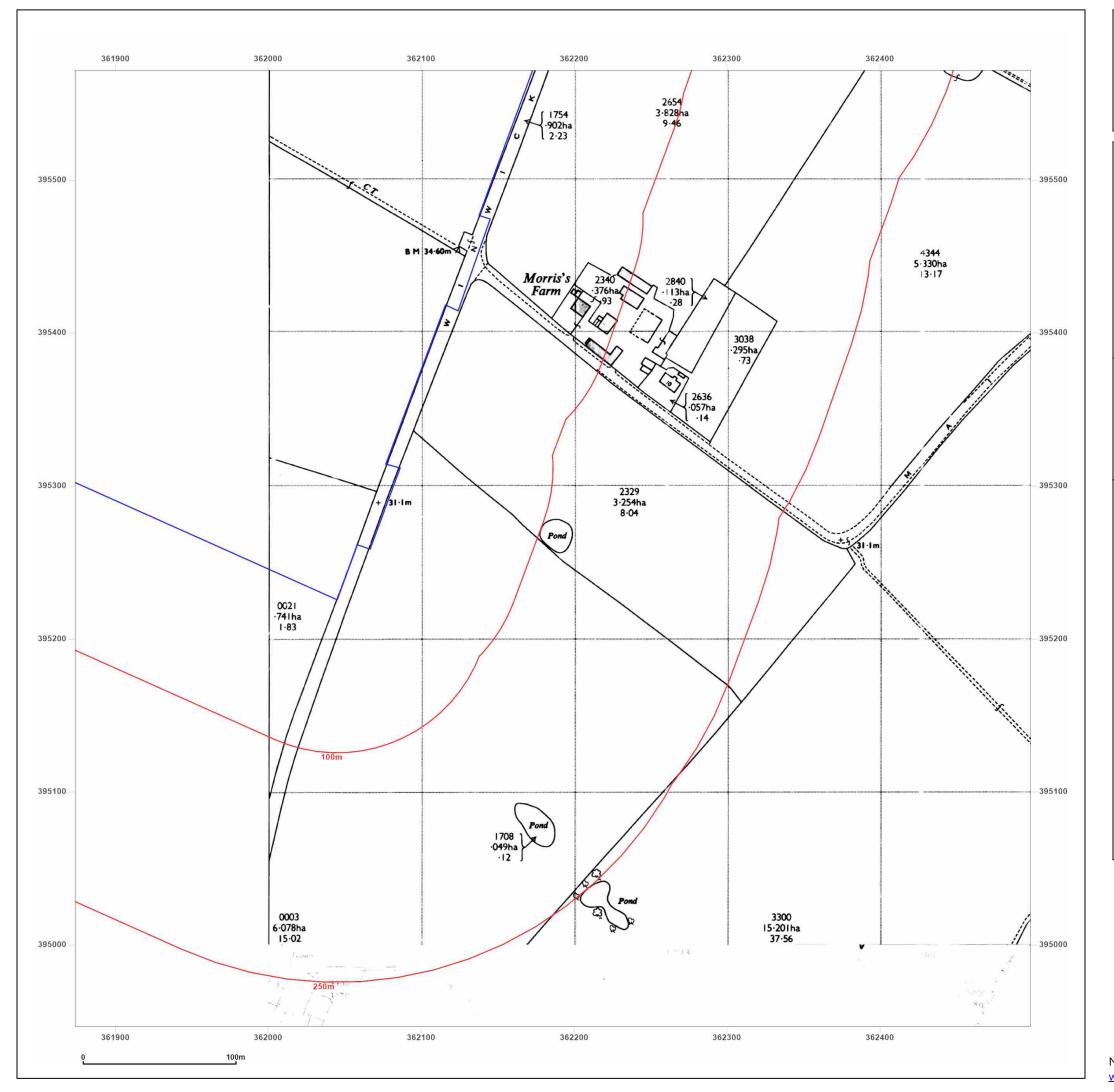




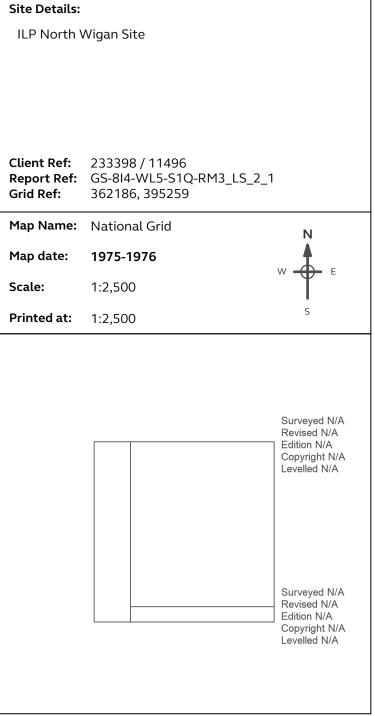
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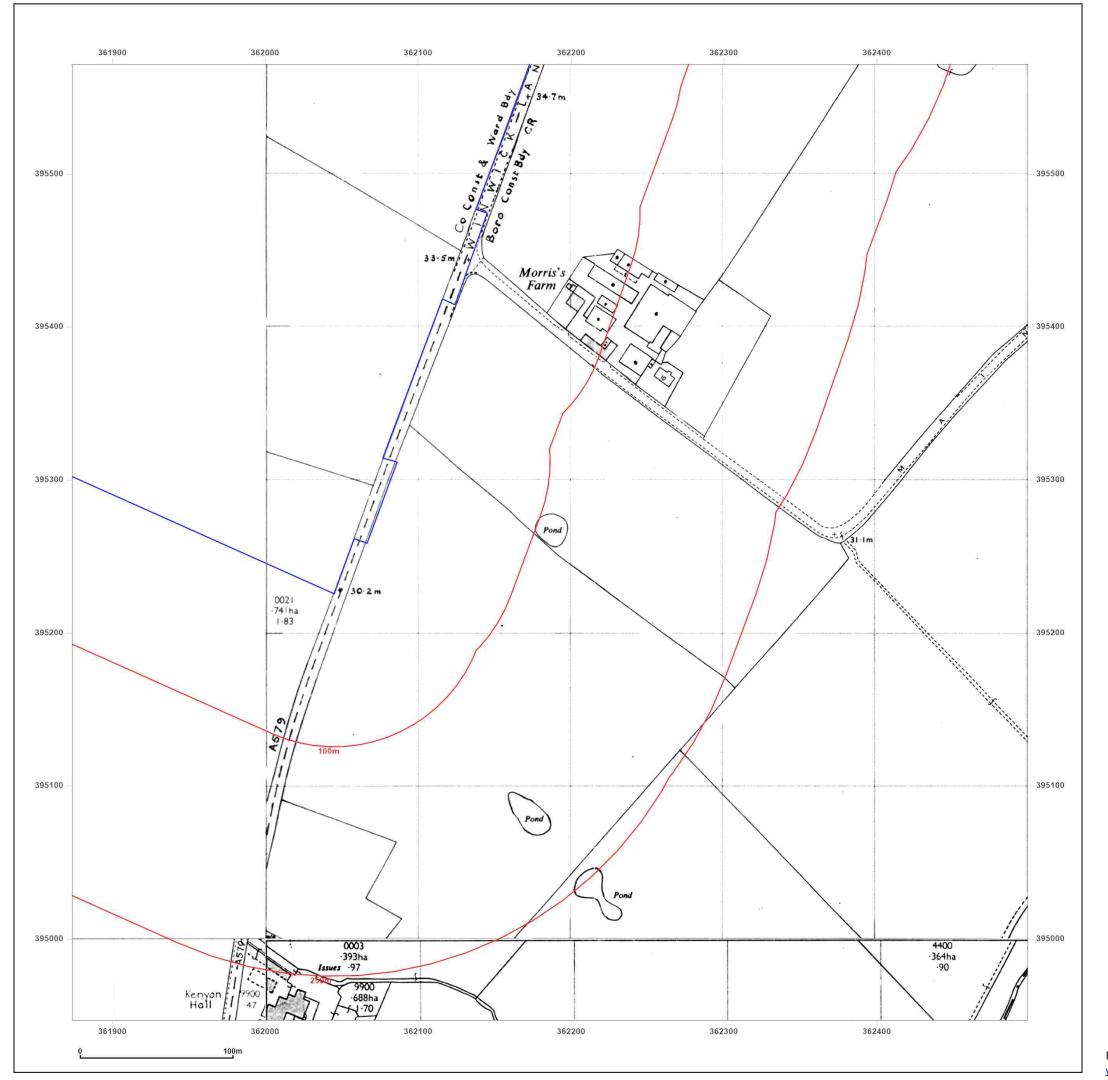




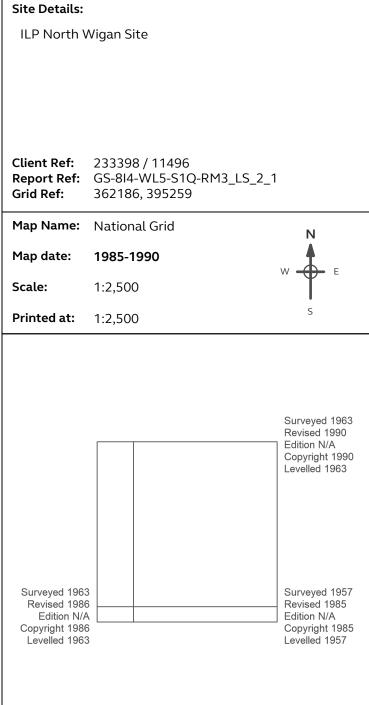
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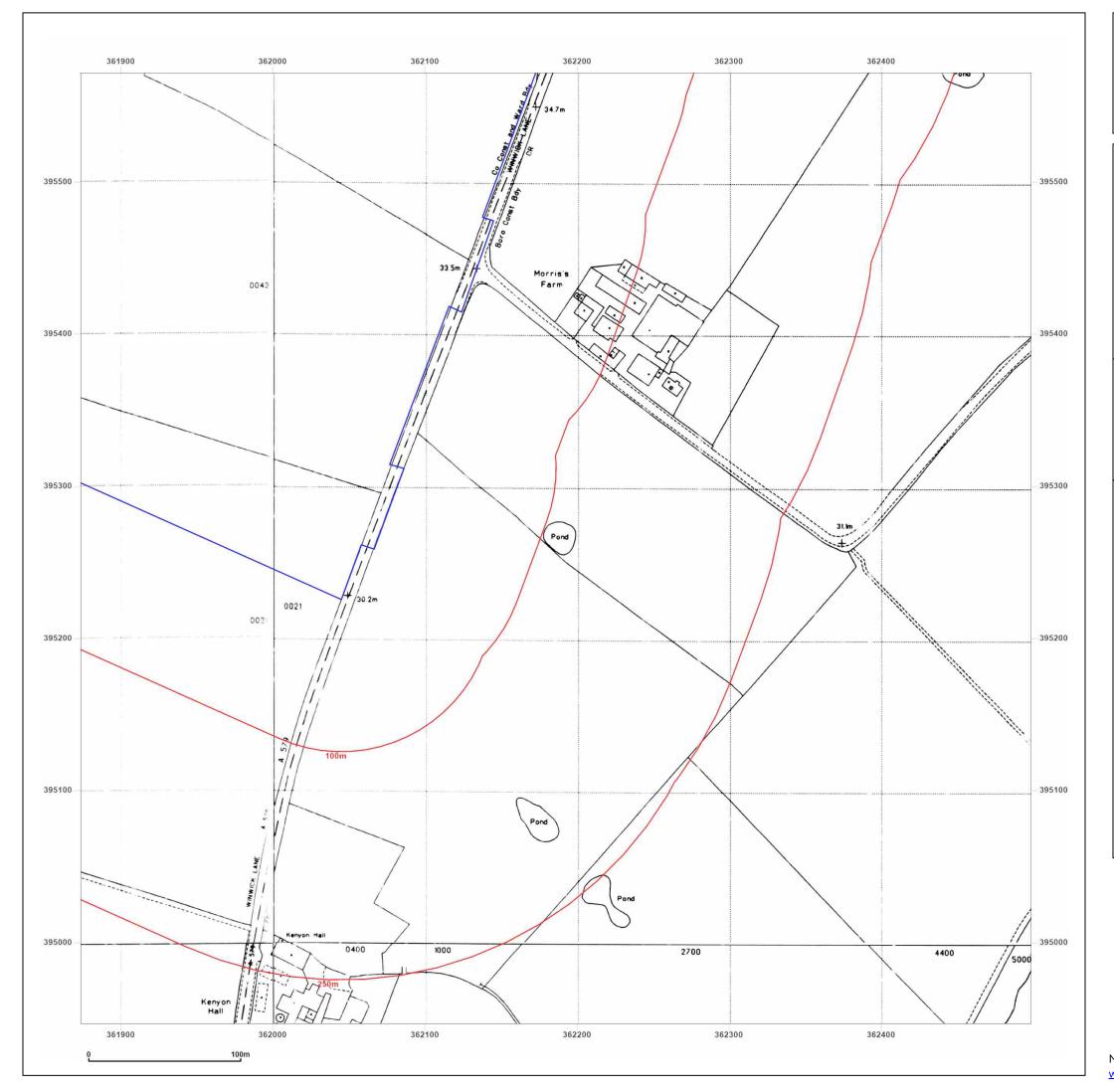




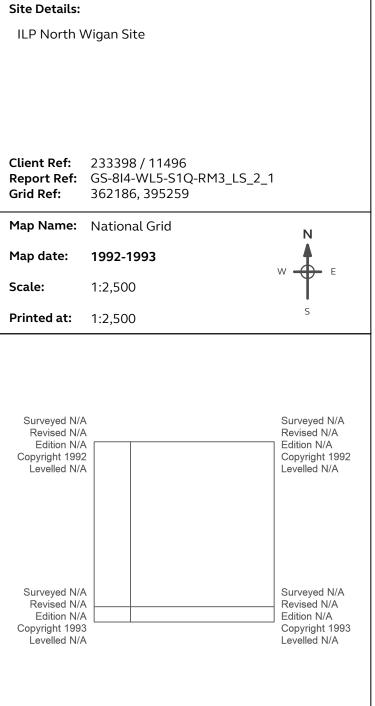
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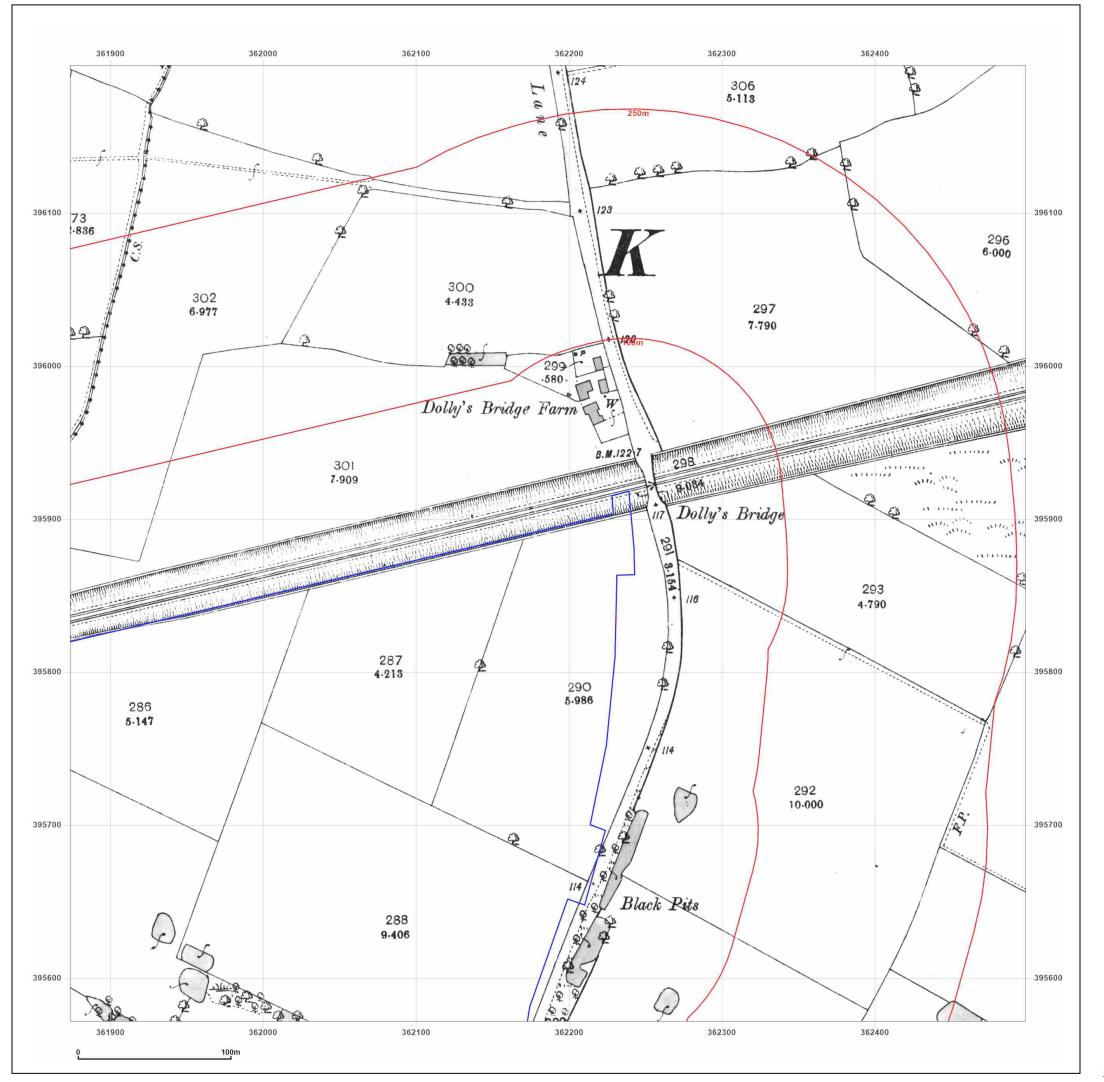




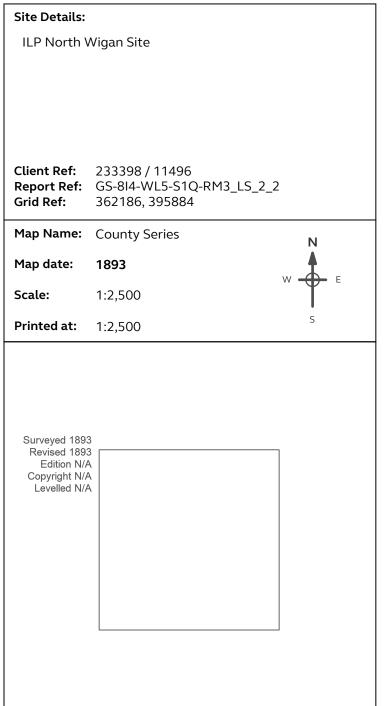
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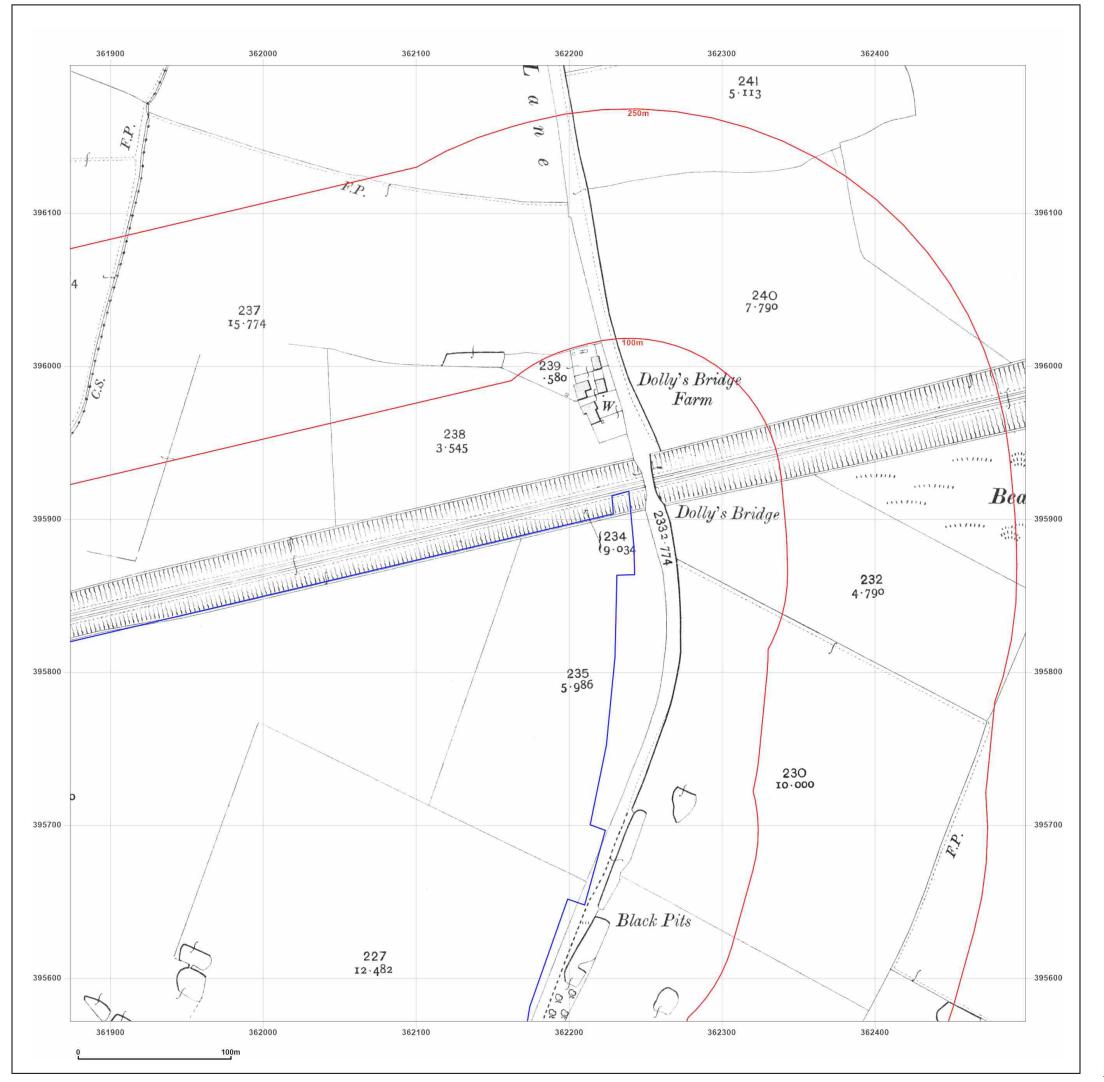




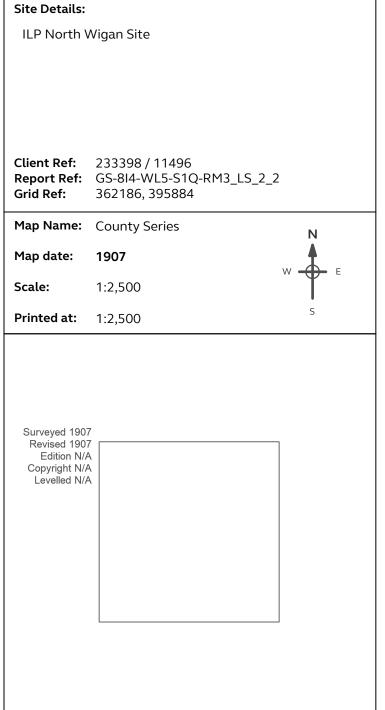
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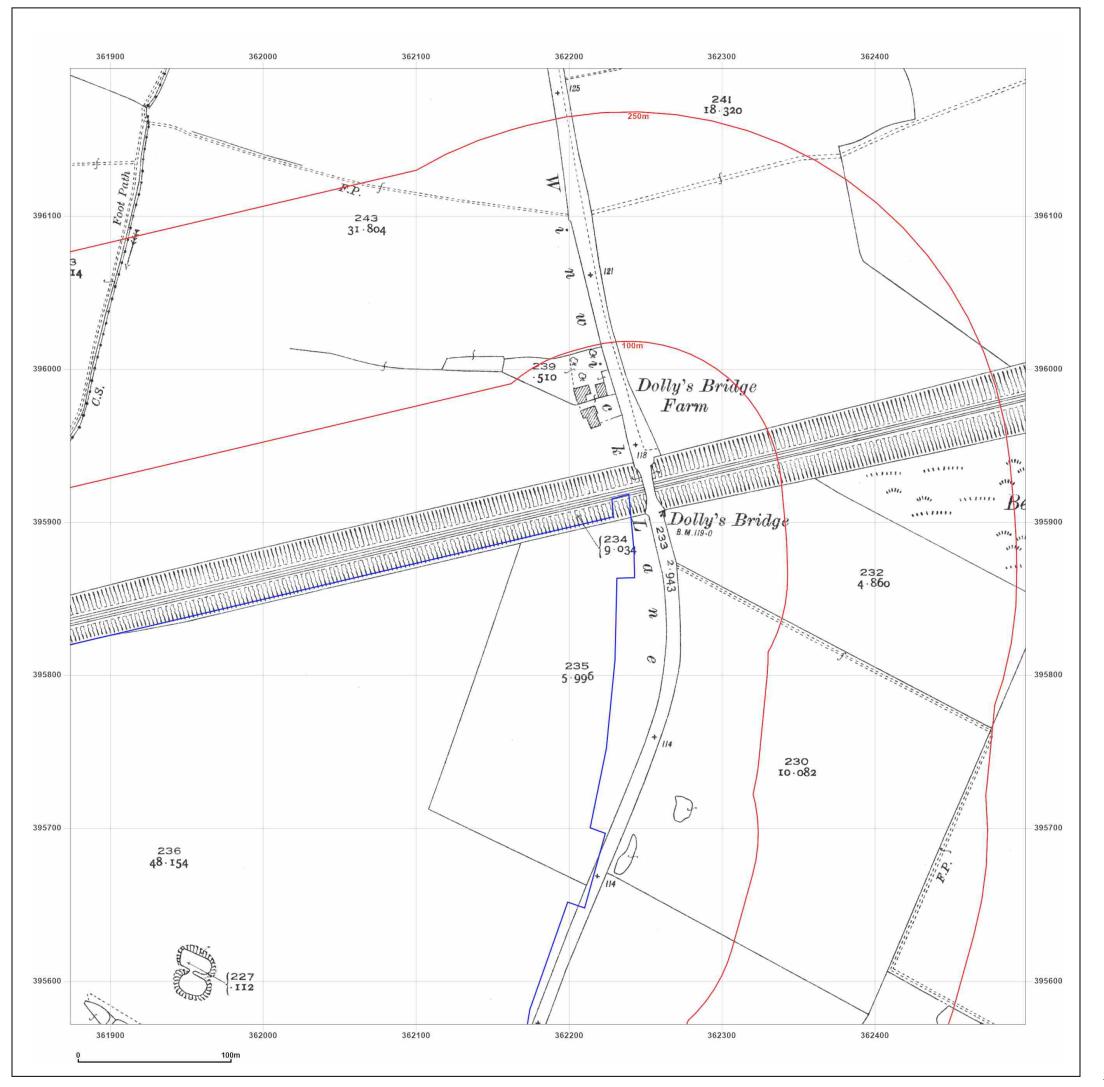




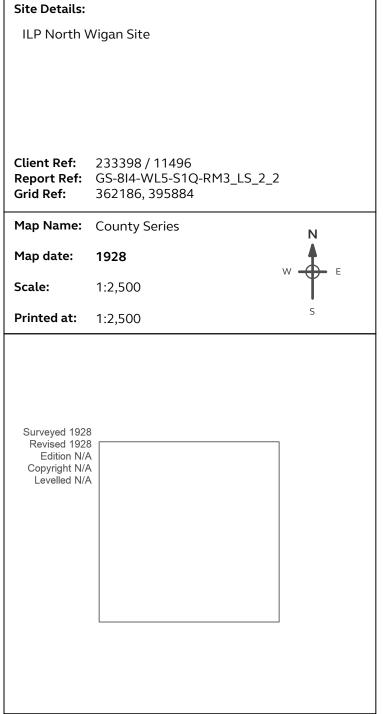
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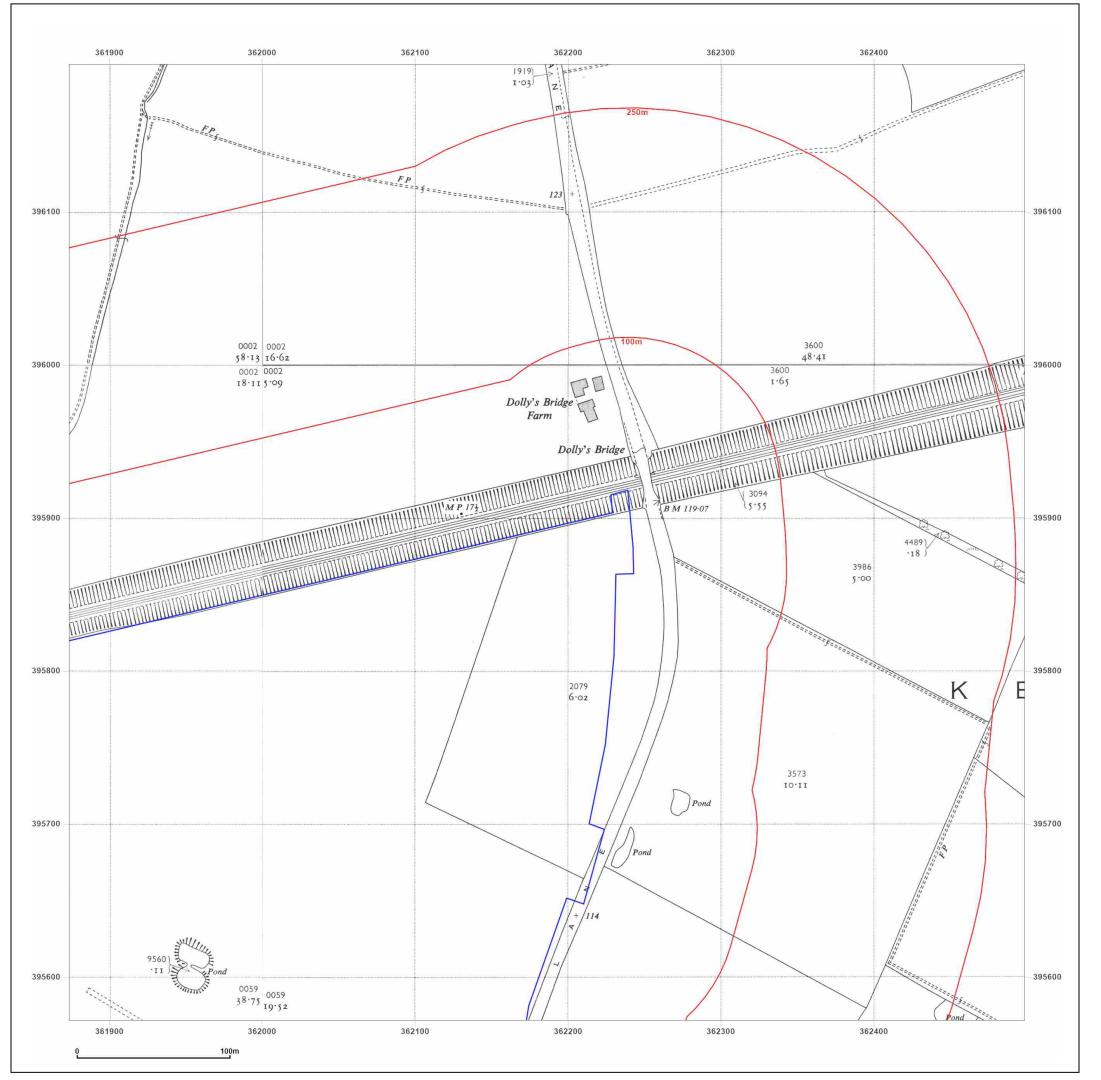




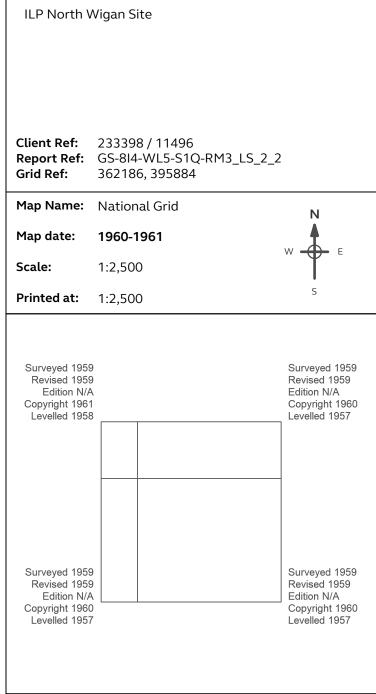
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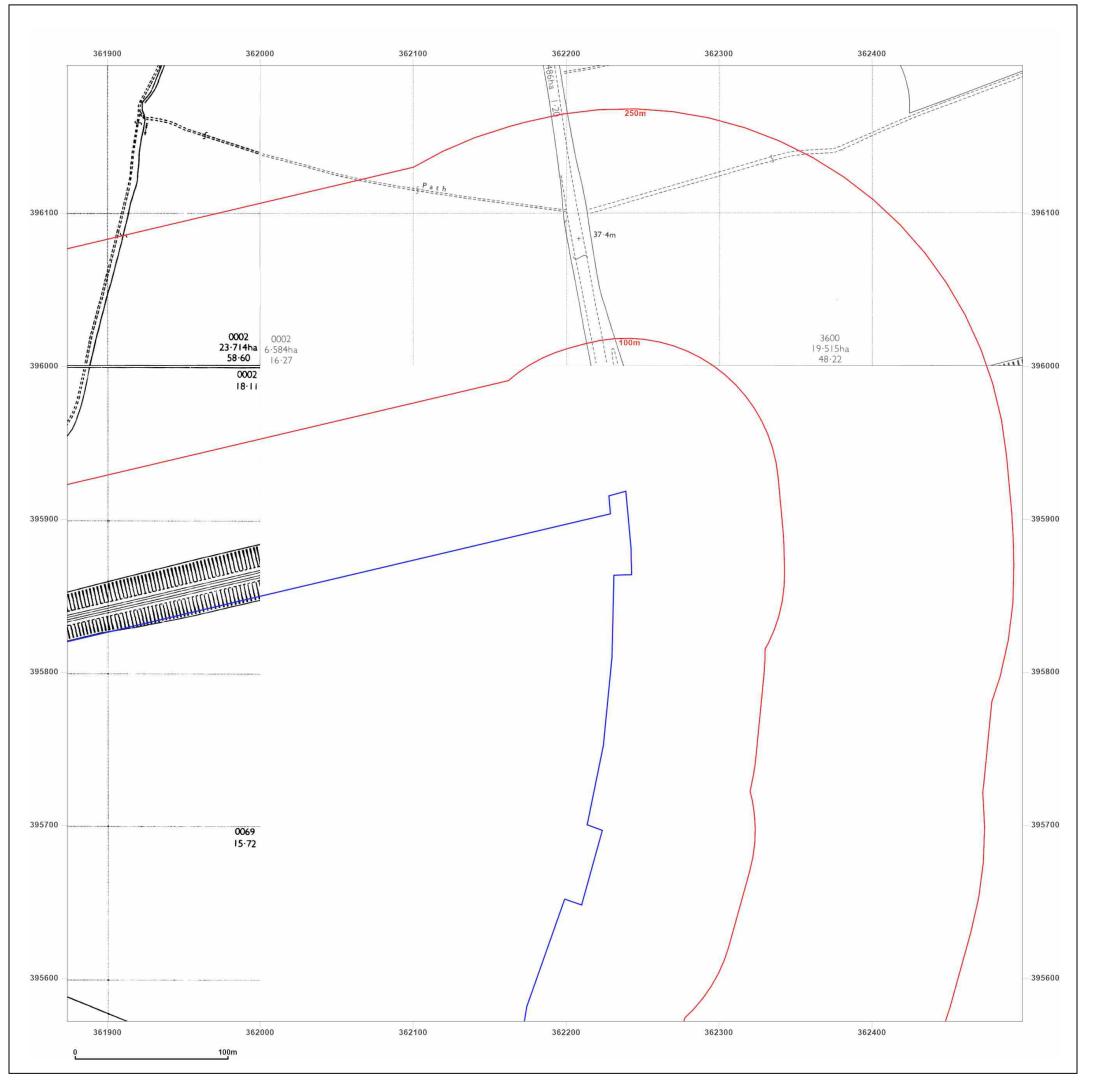


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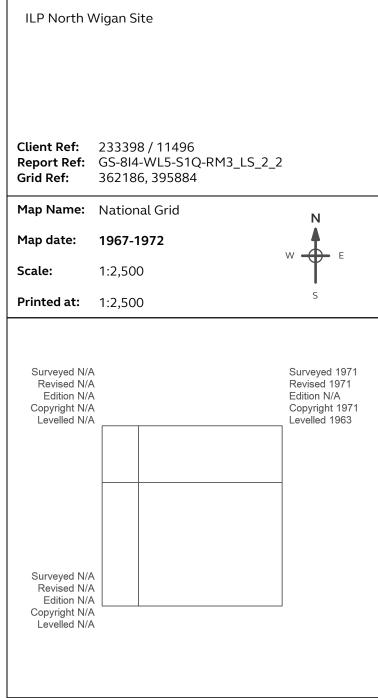
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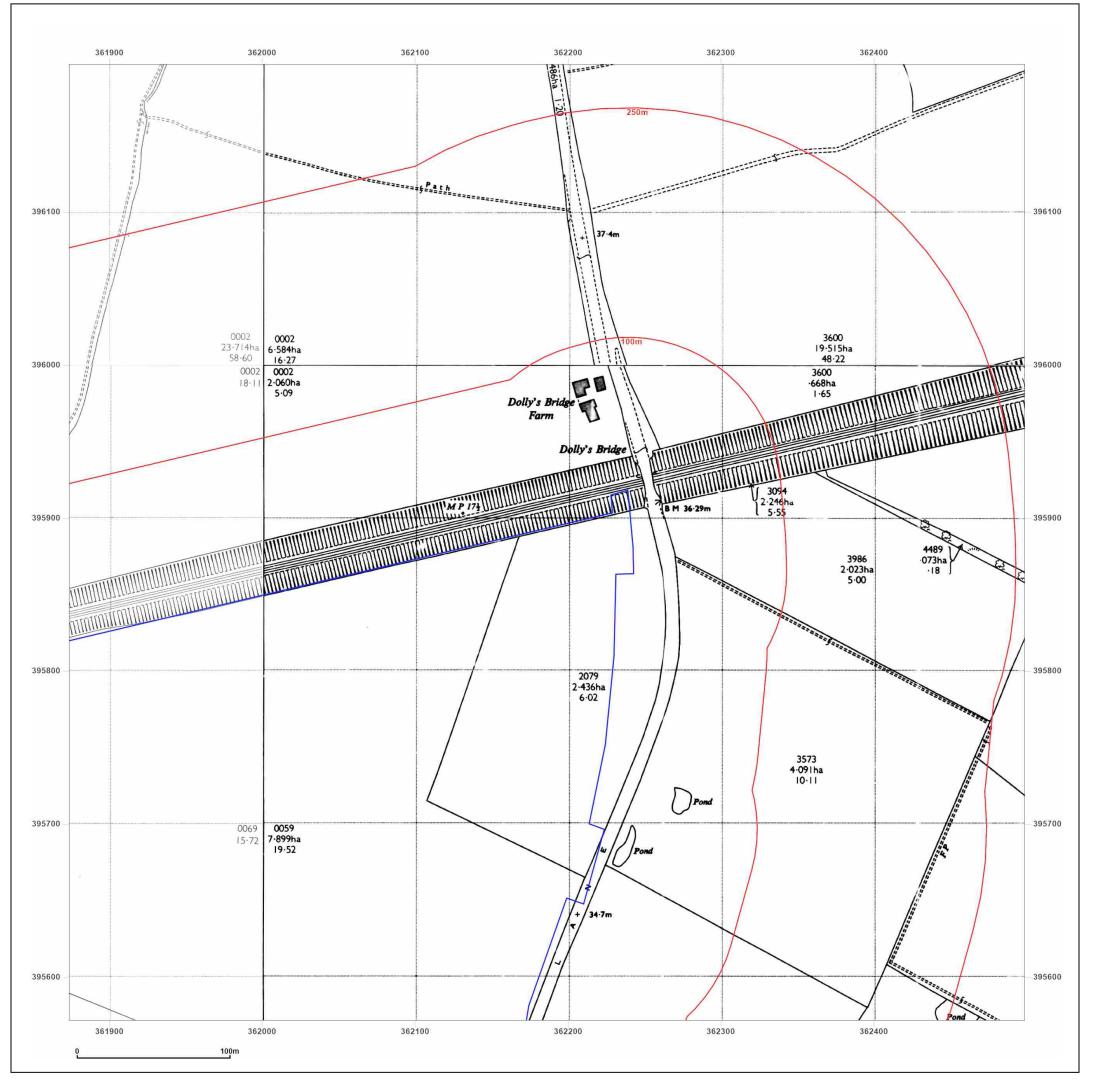


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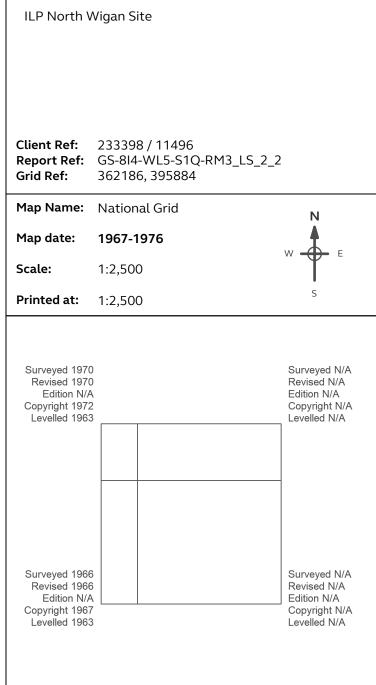
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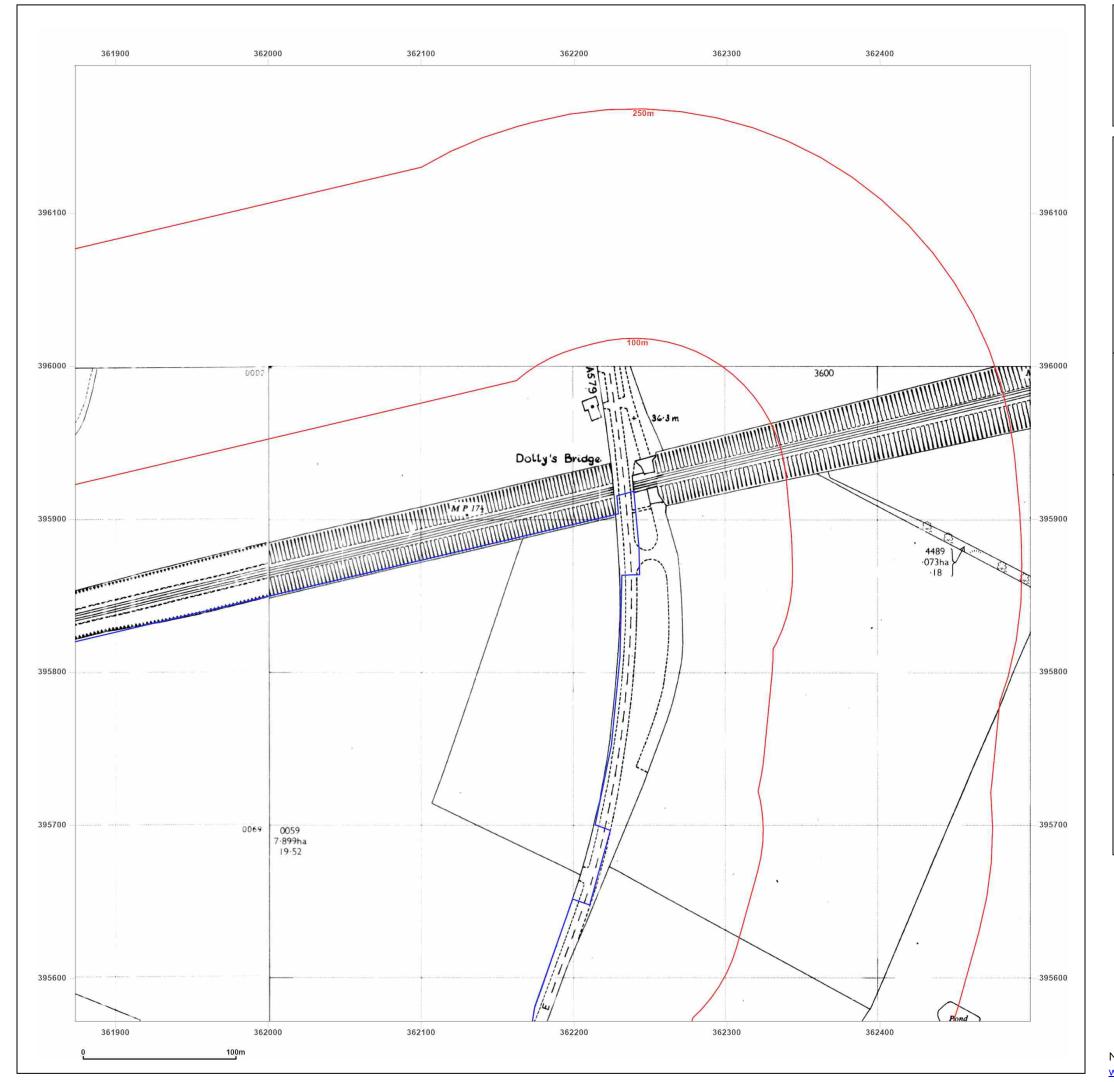


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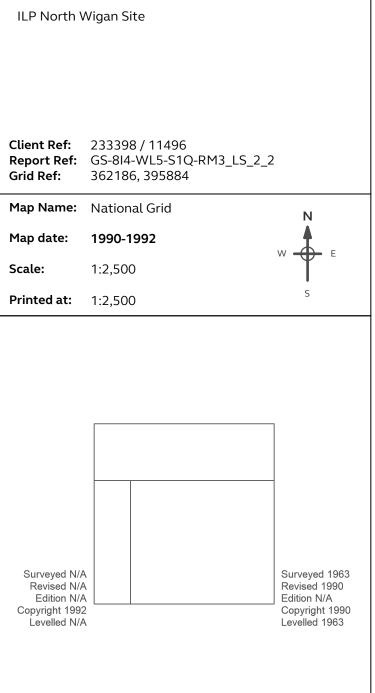
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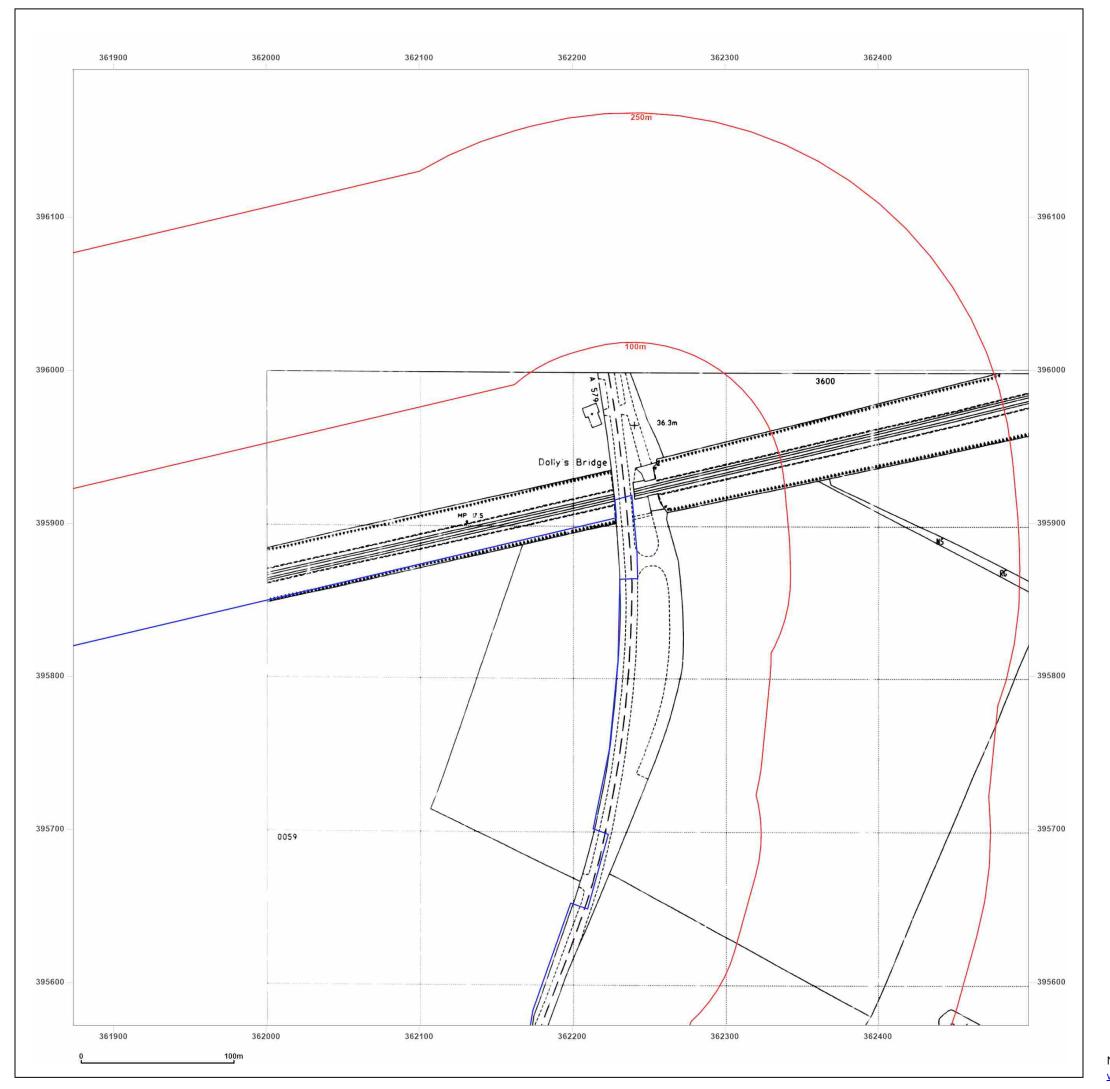


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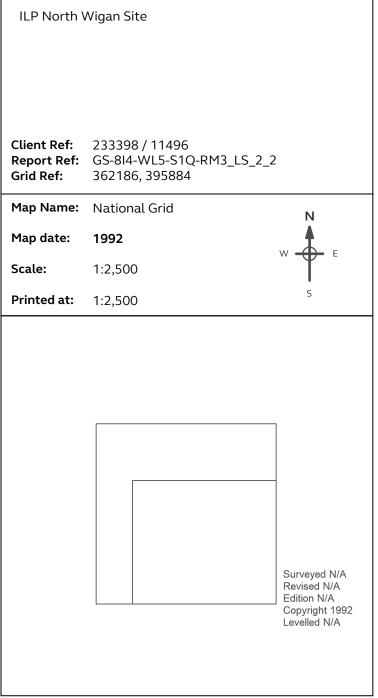
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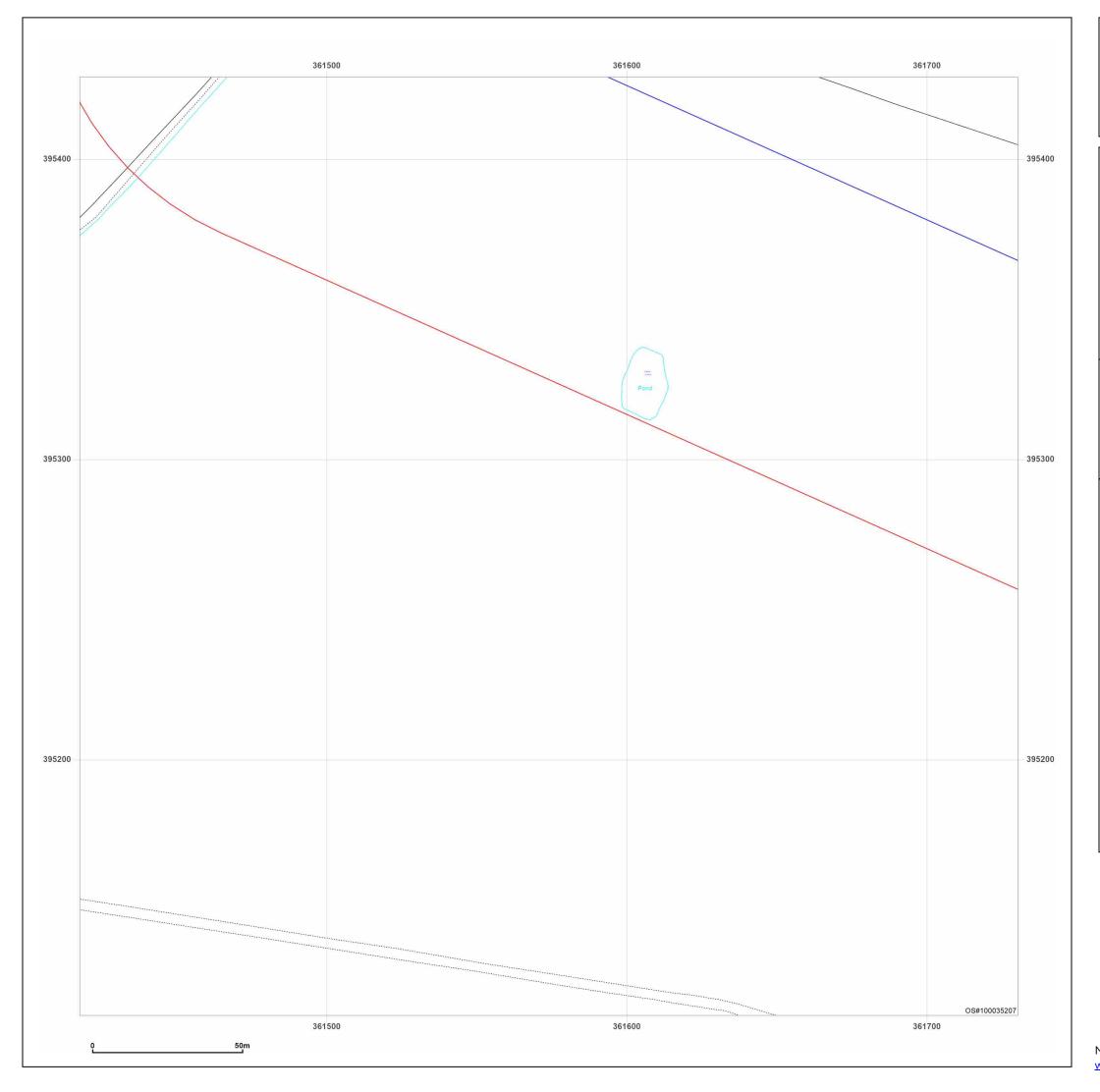


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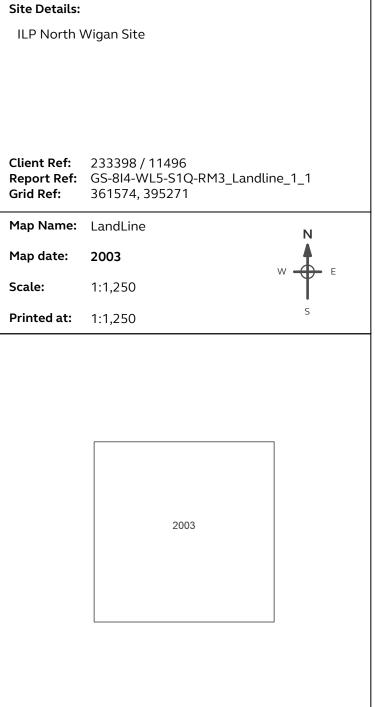
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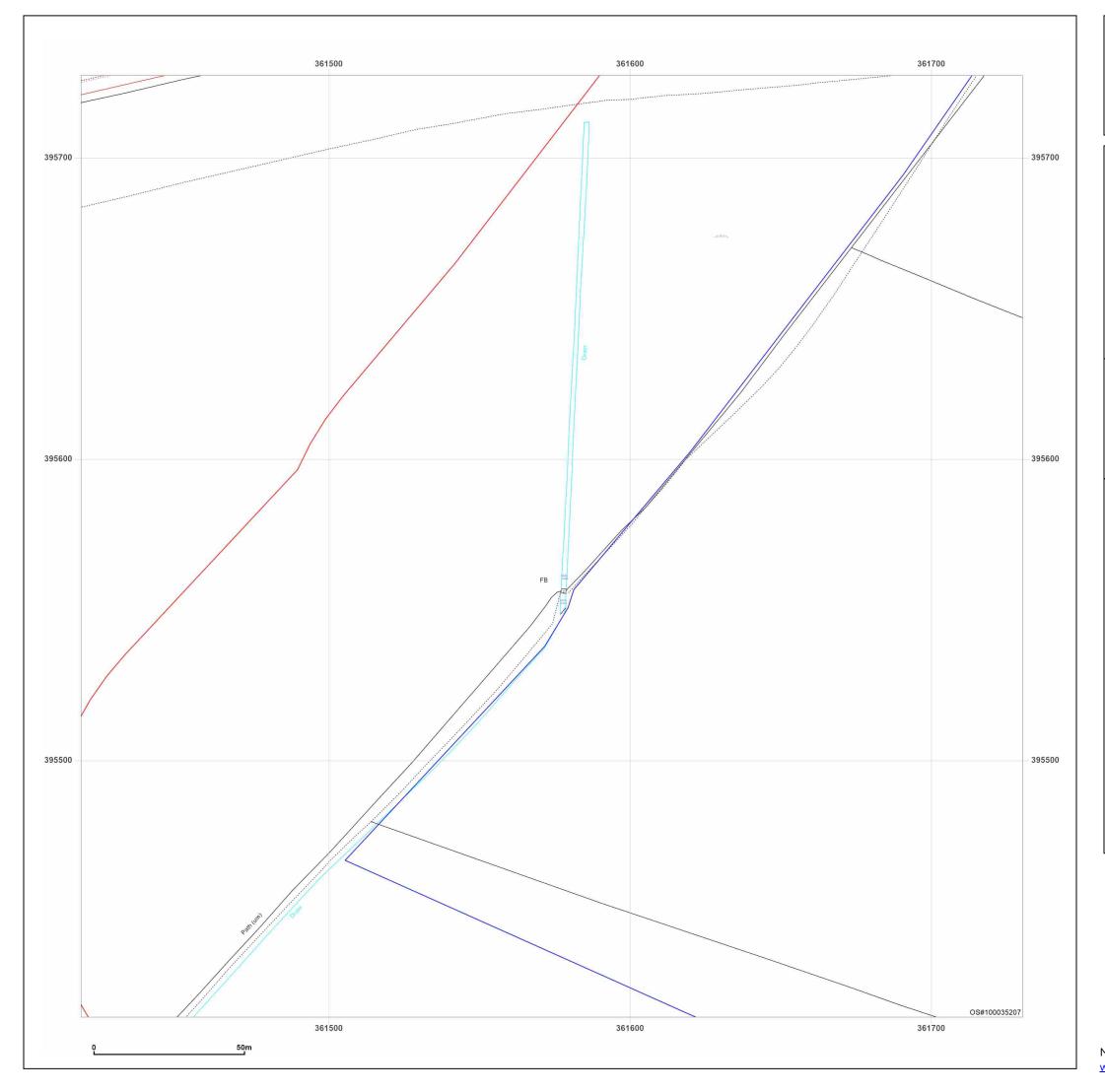




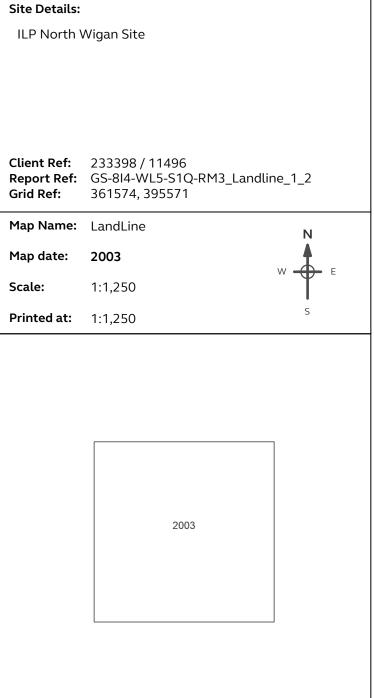
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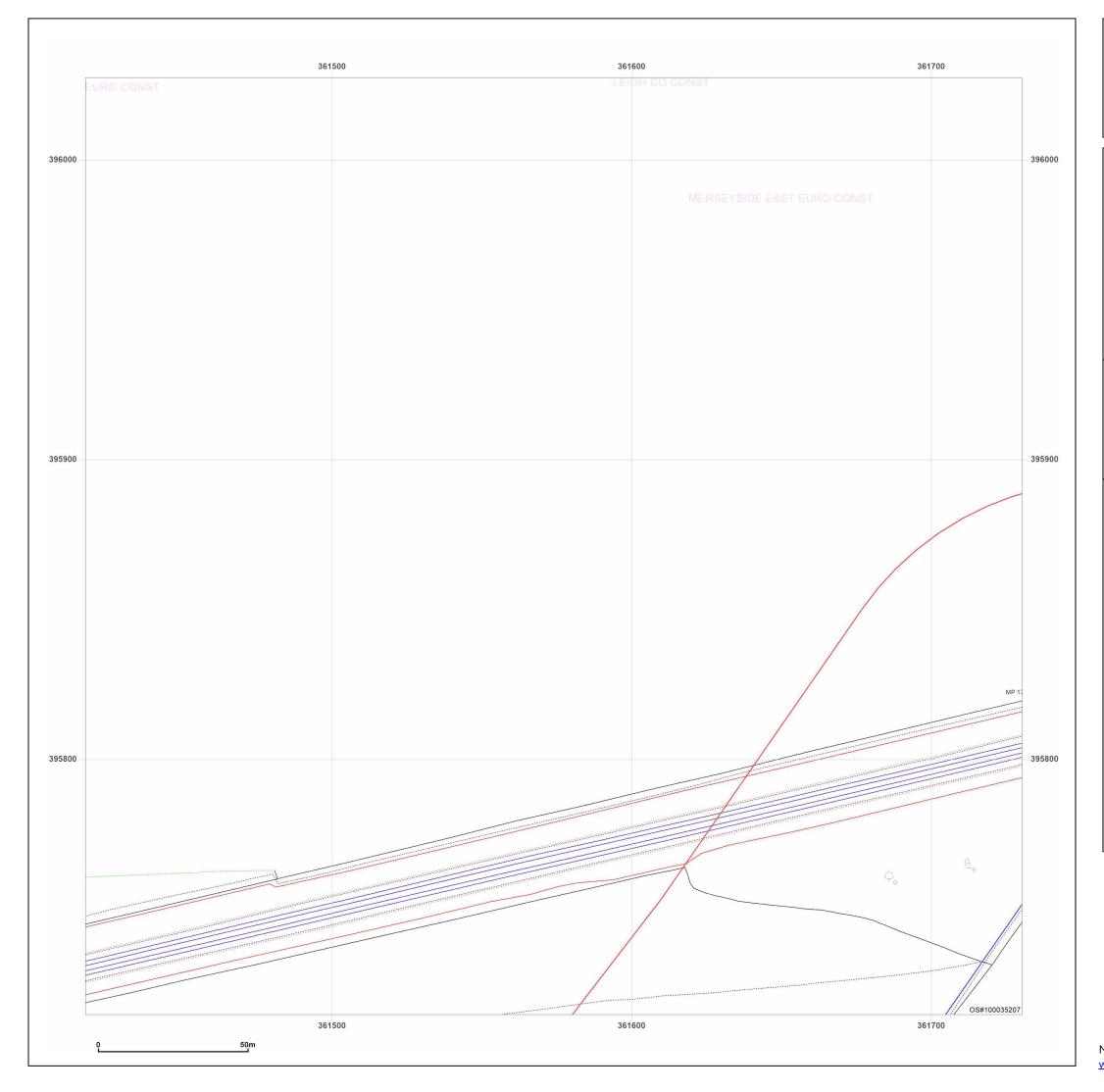




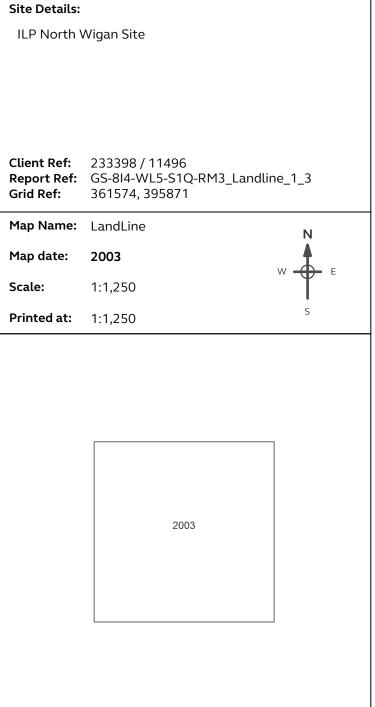
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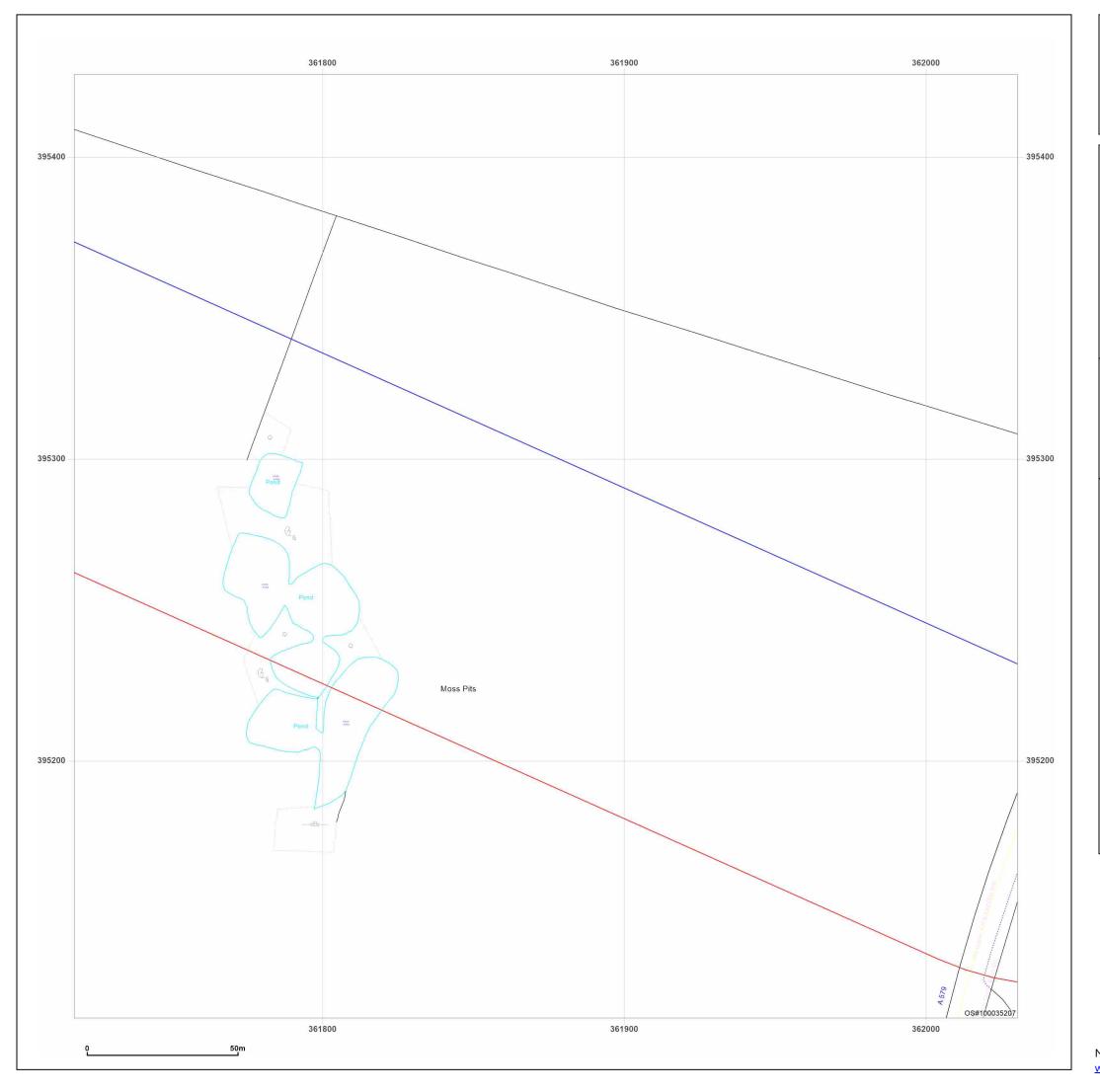




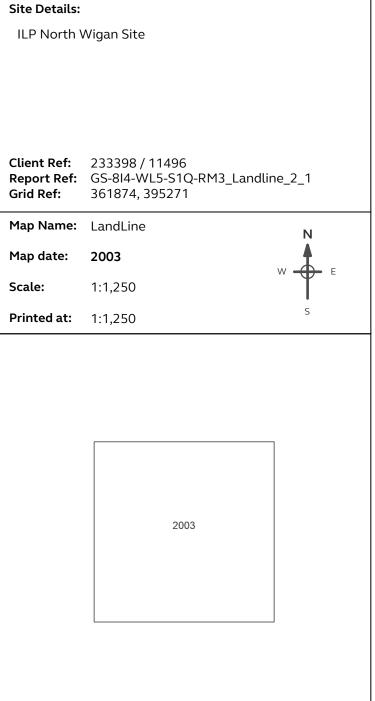
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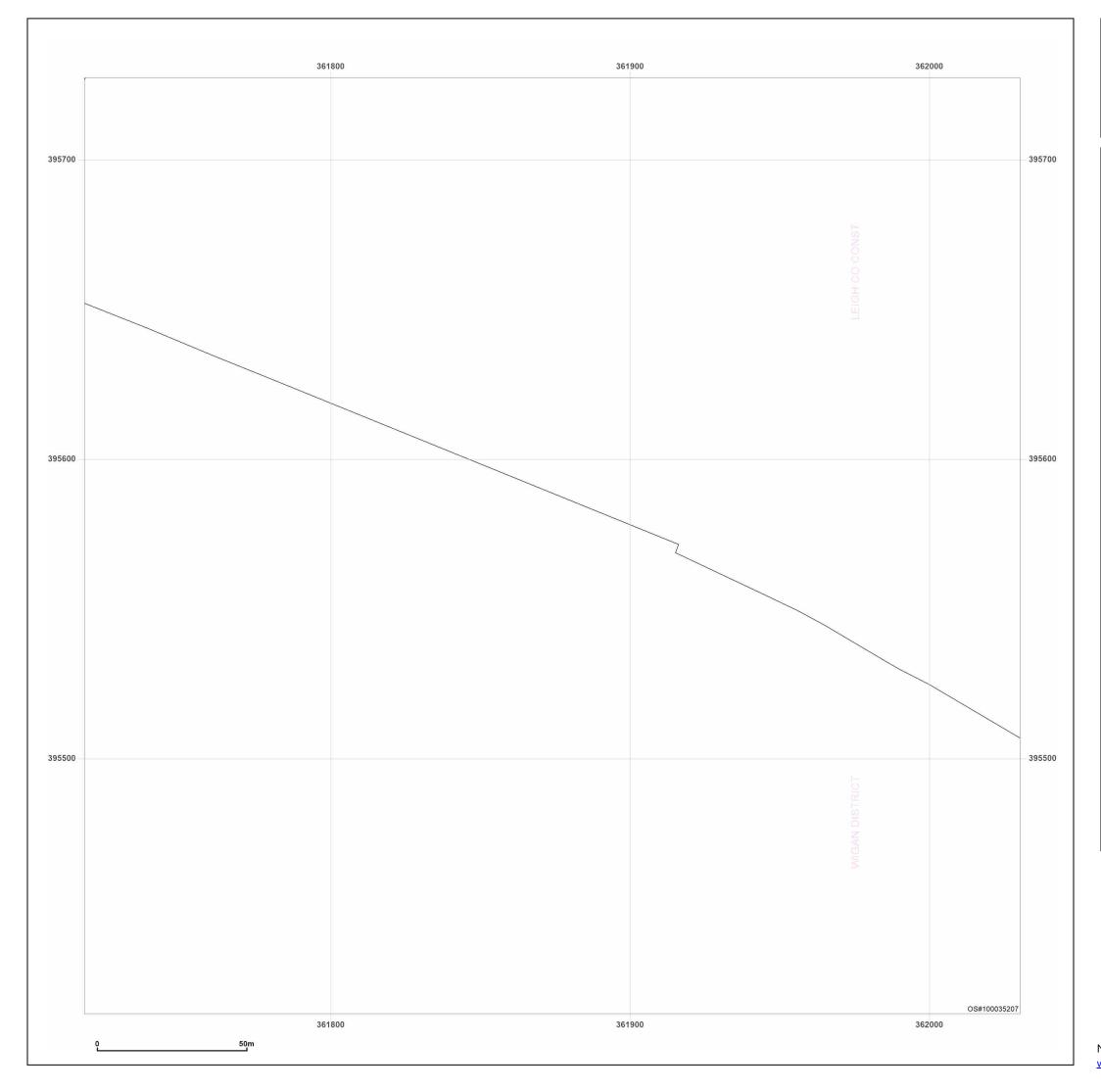




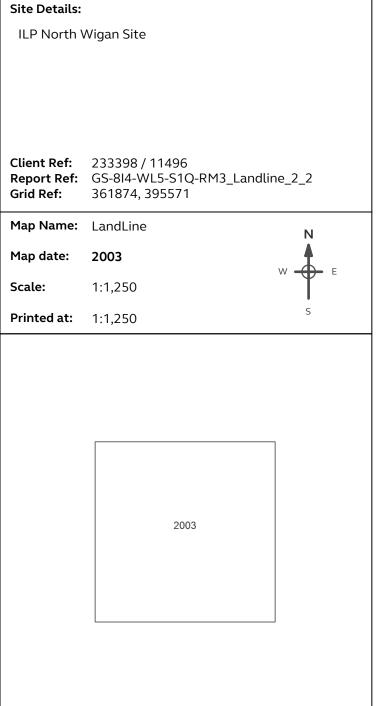
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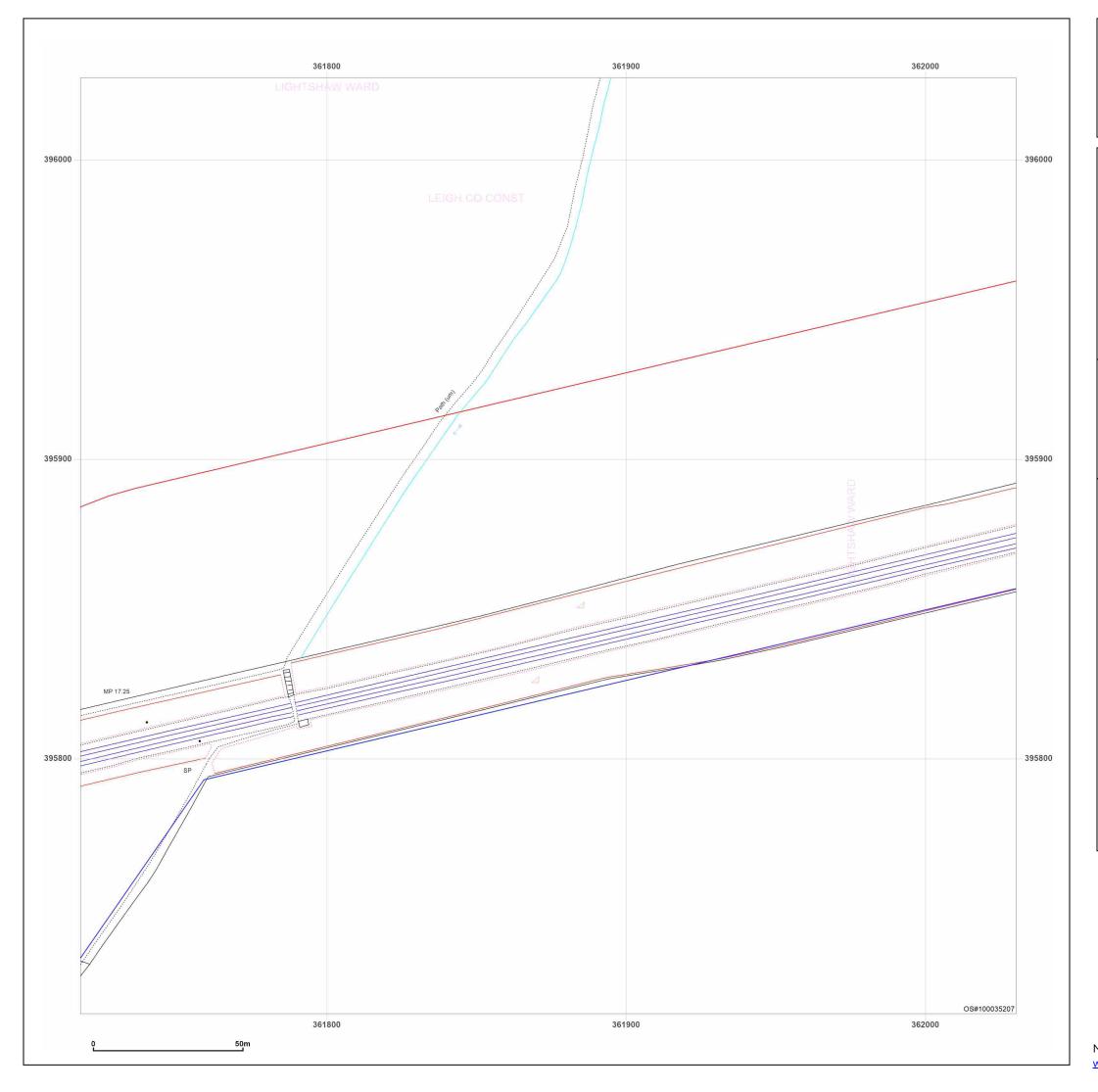




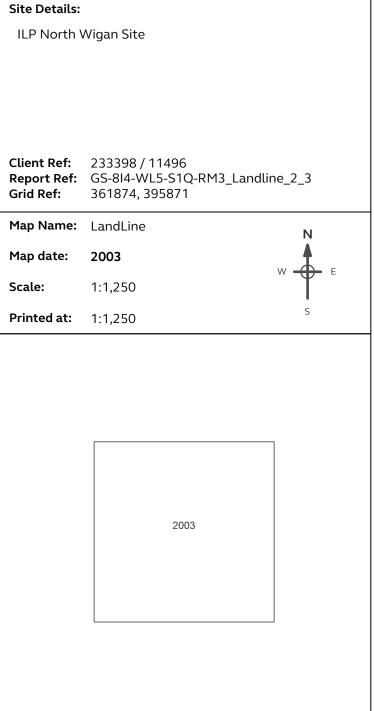
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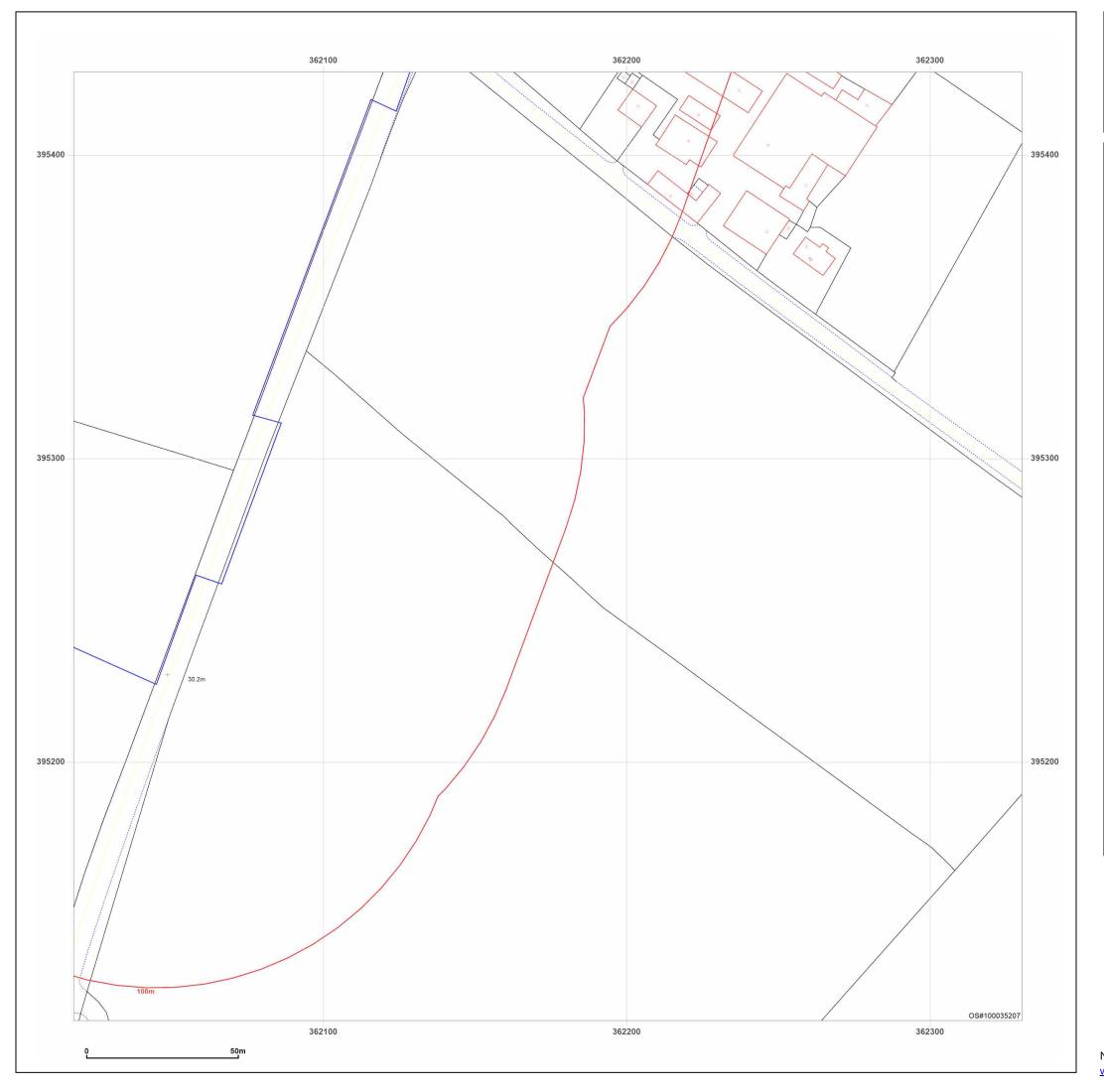




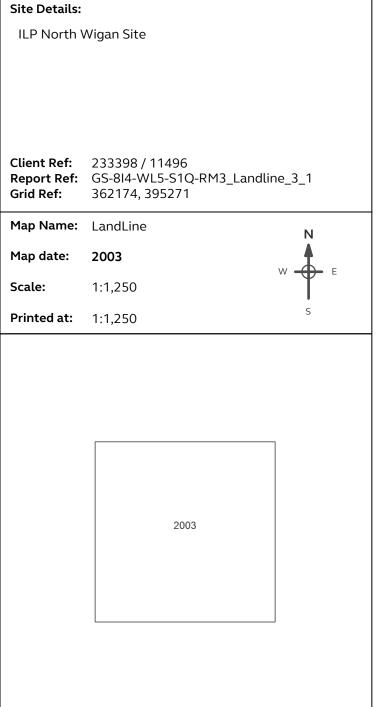
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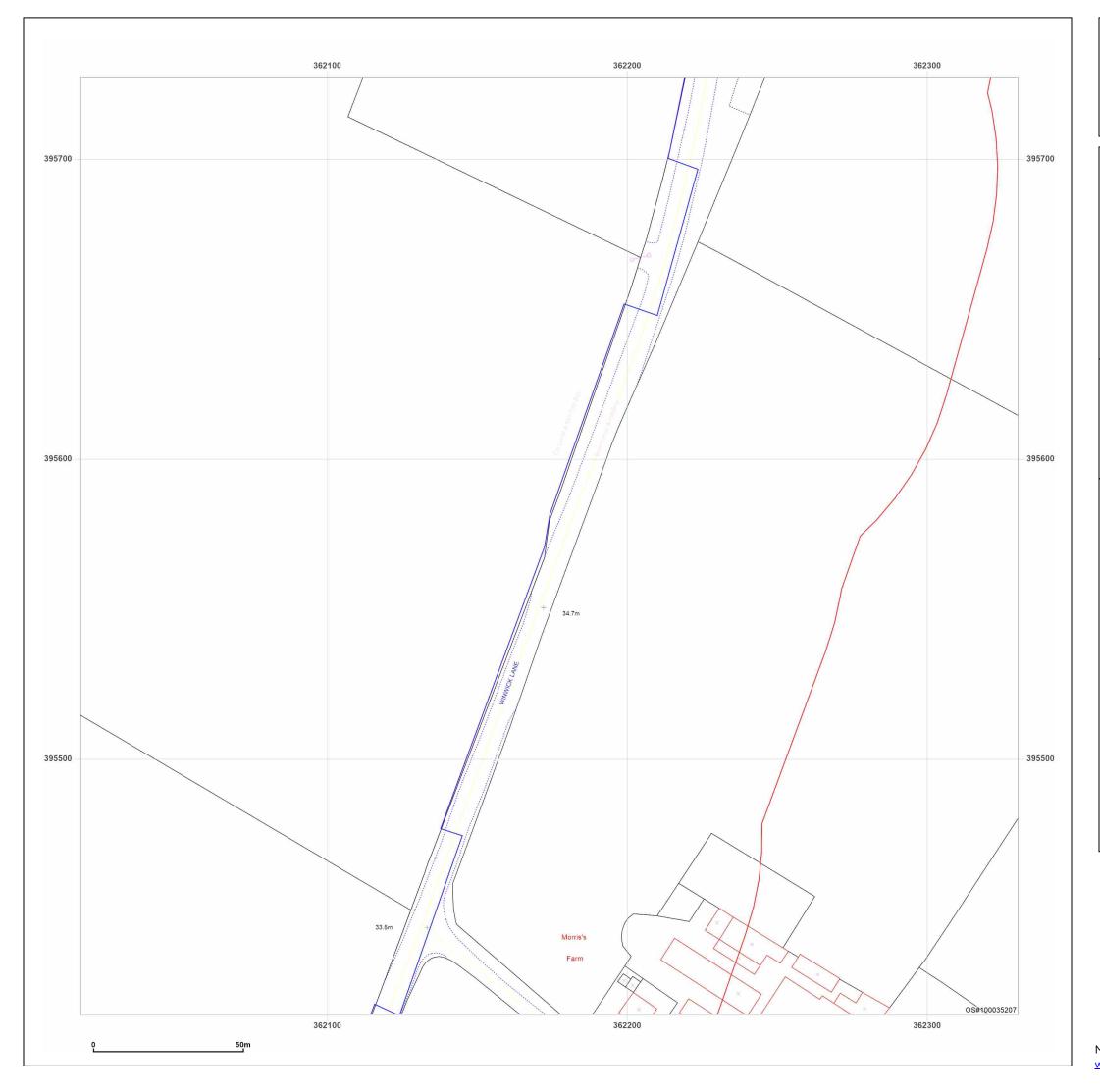




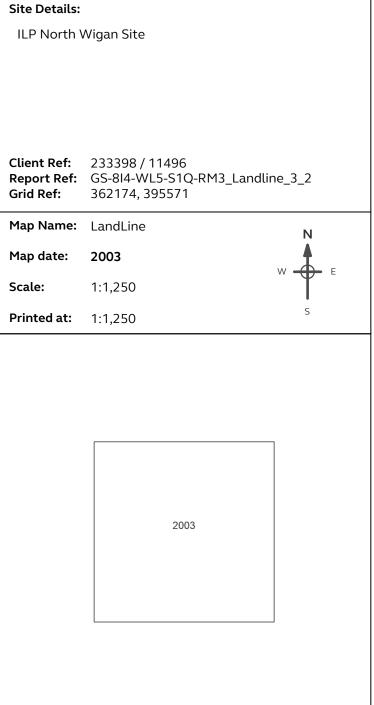
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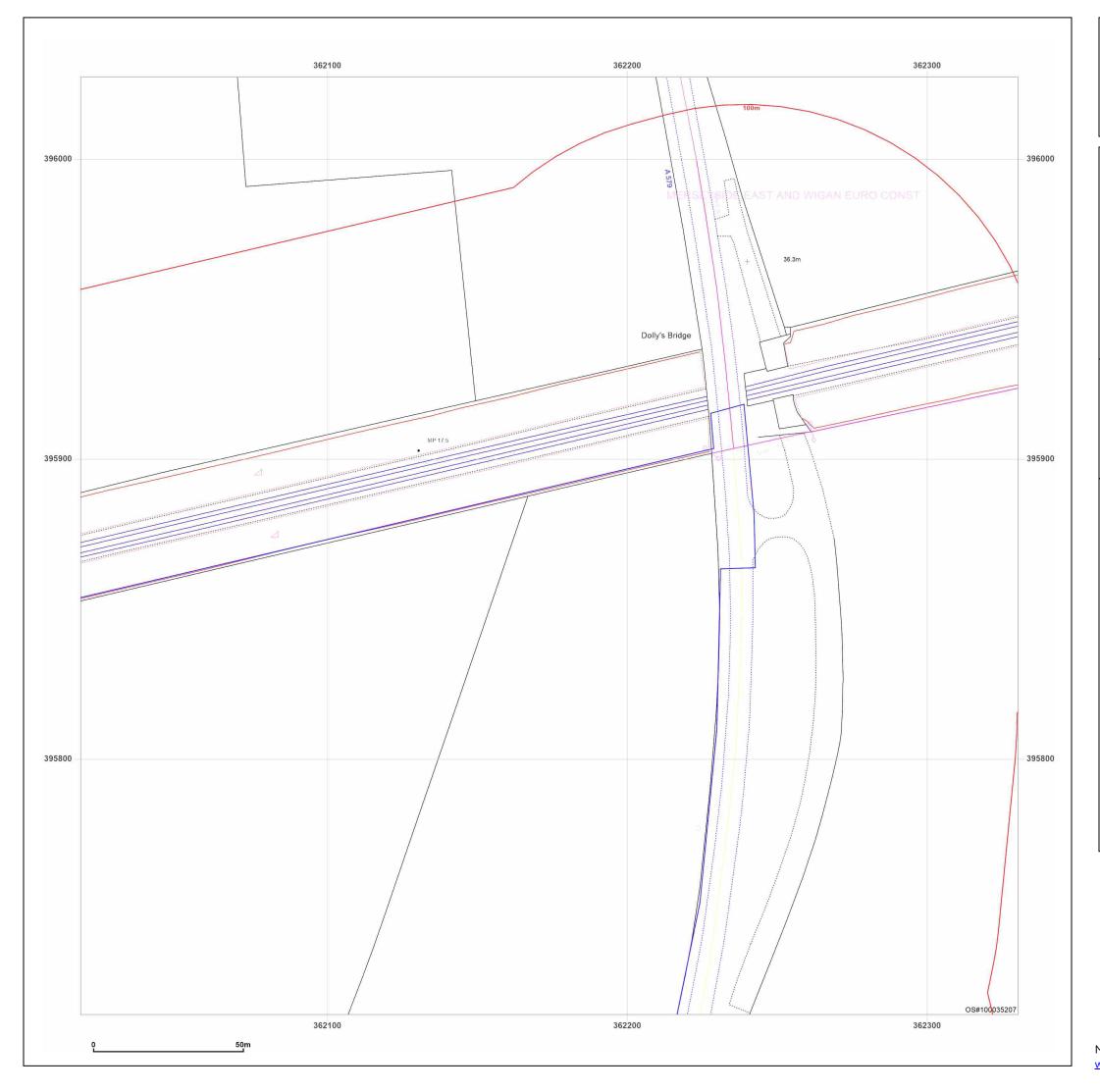




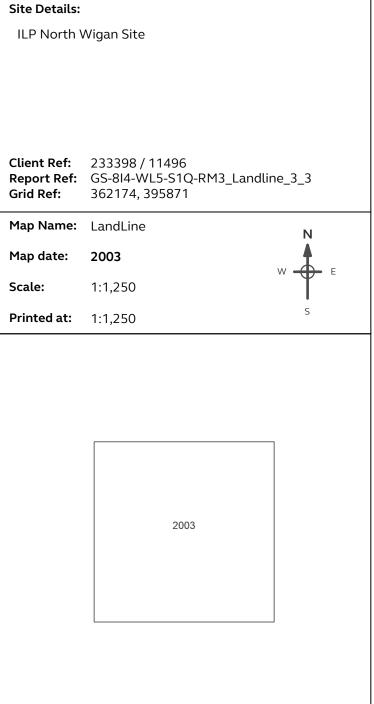
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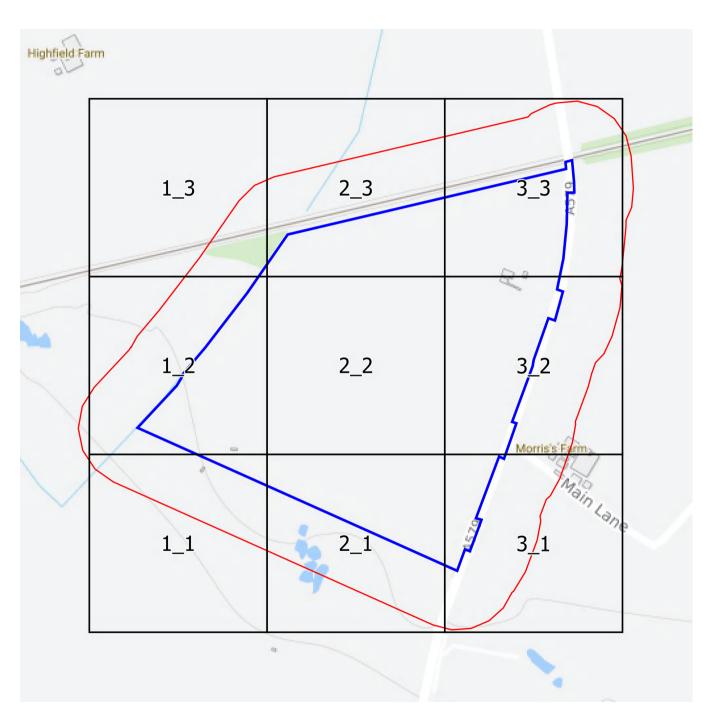




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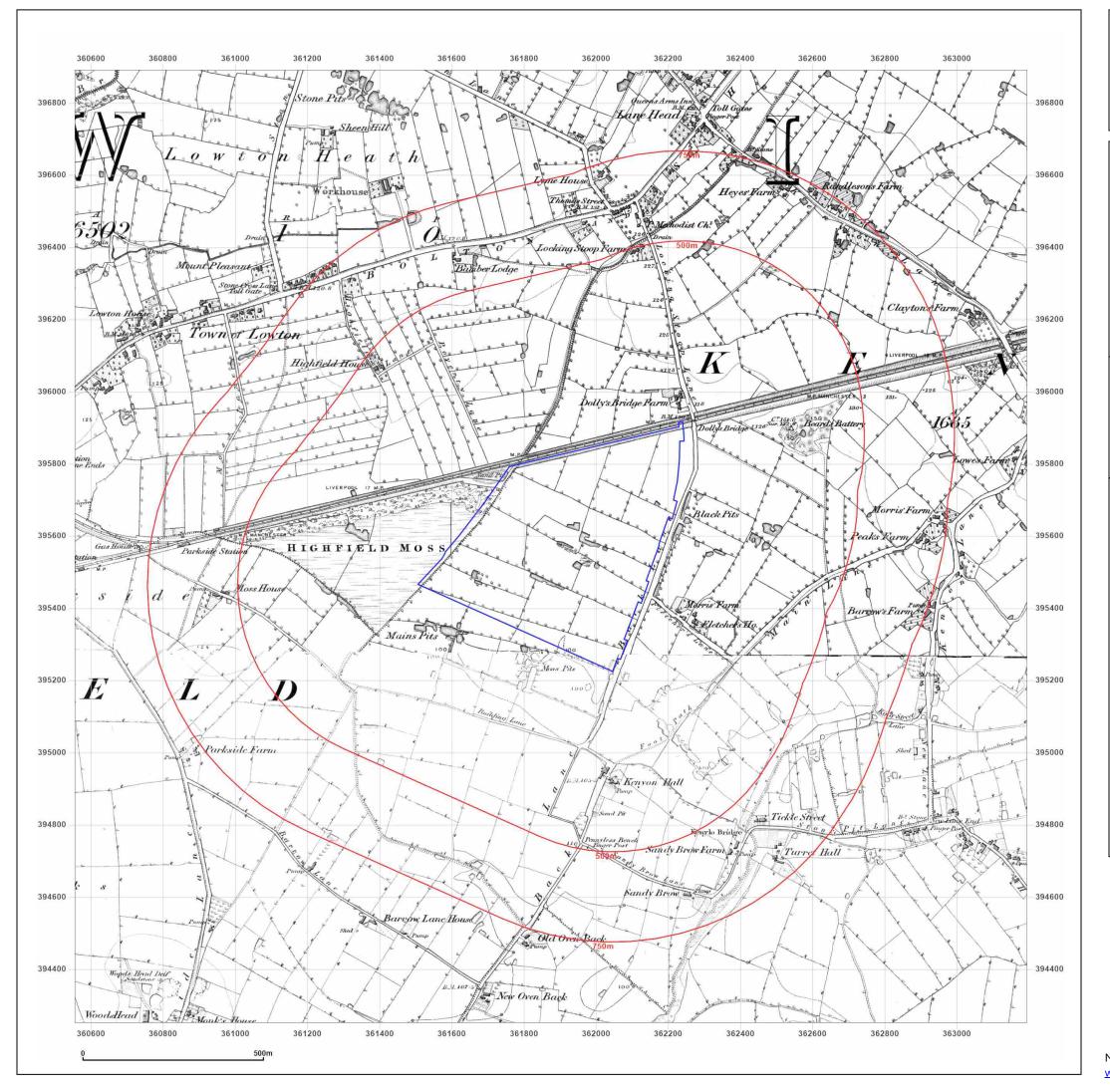
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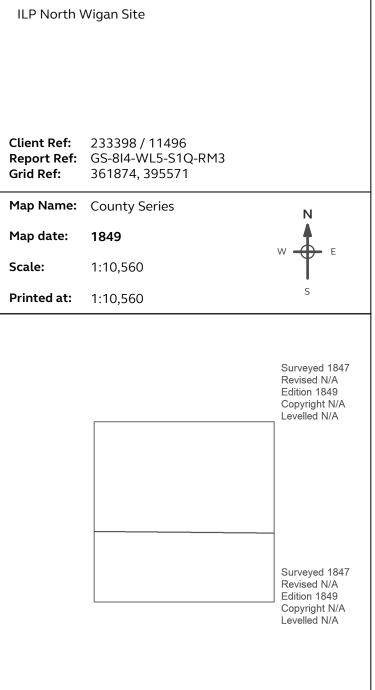


Landline Scale Grid Index









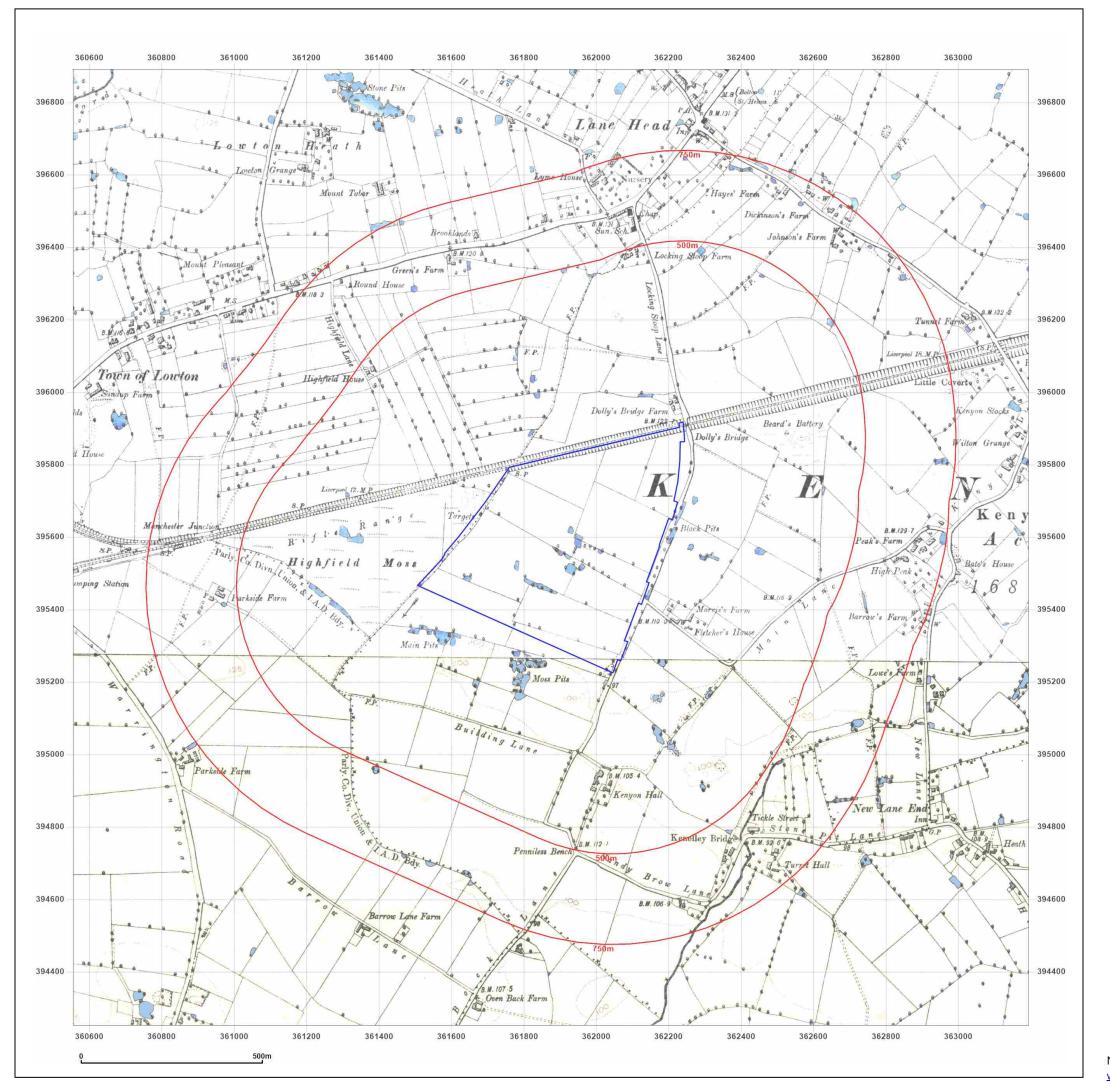


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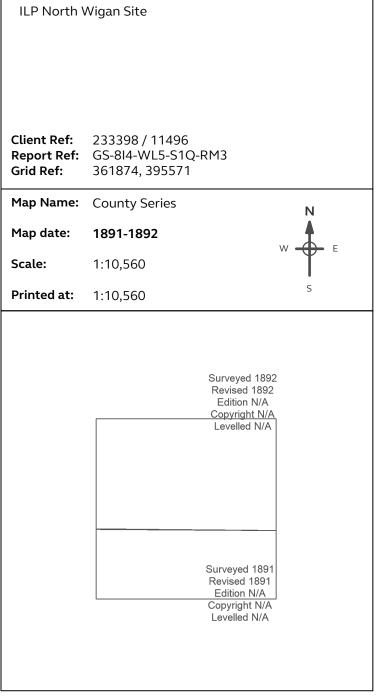
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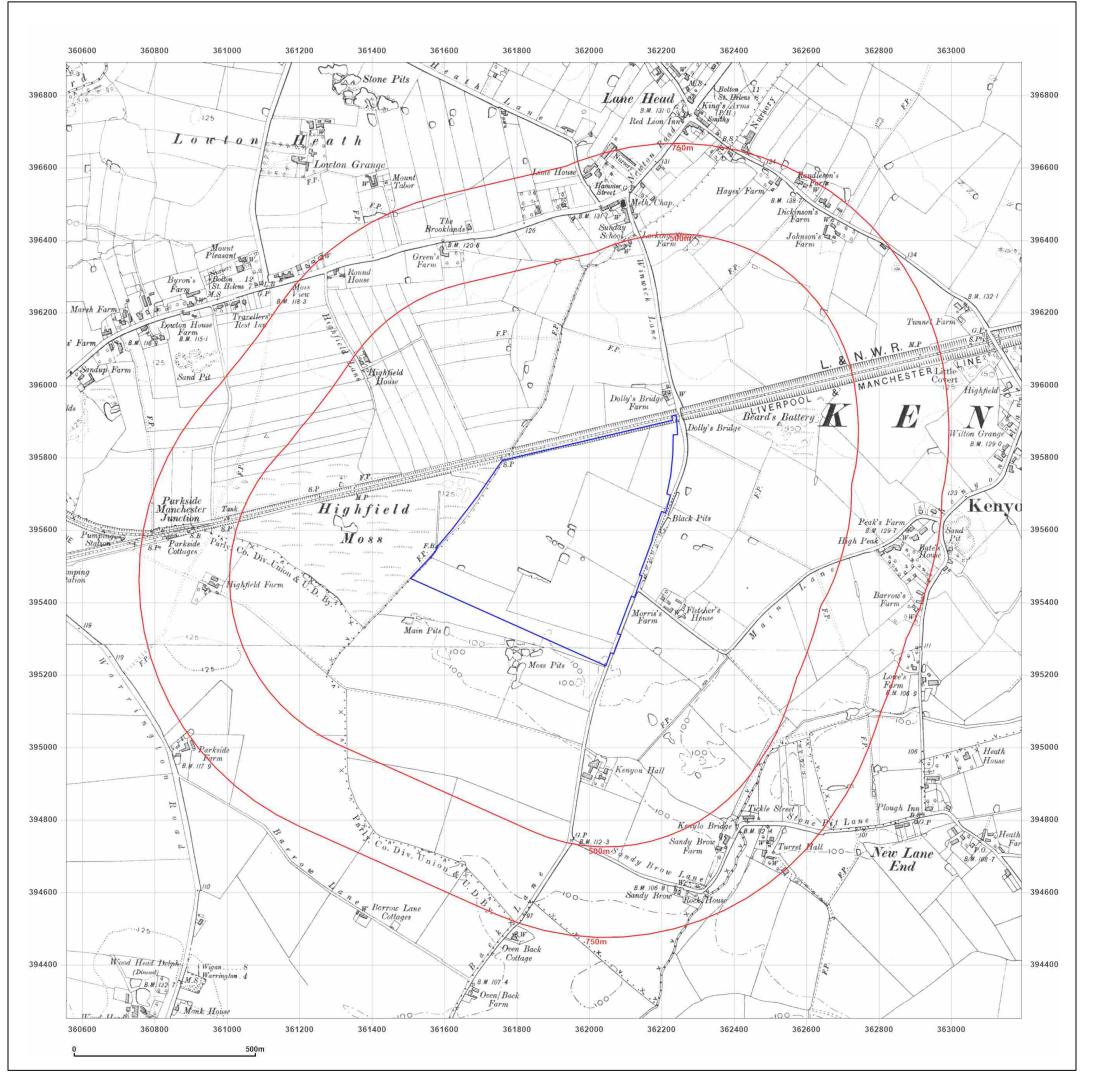


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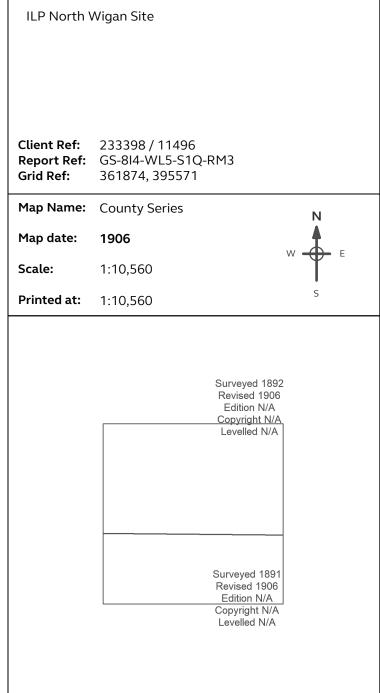
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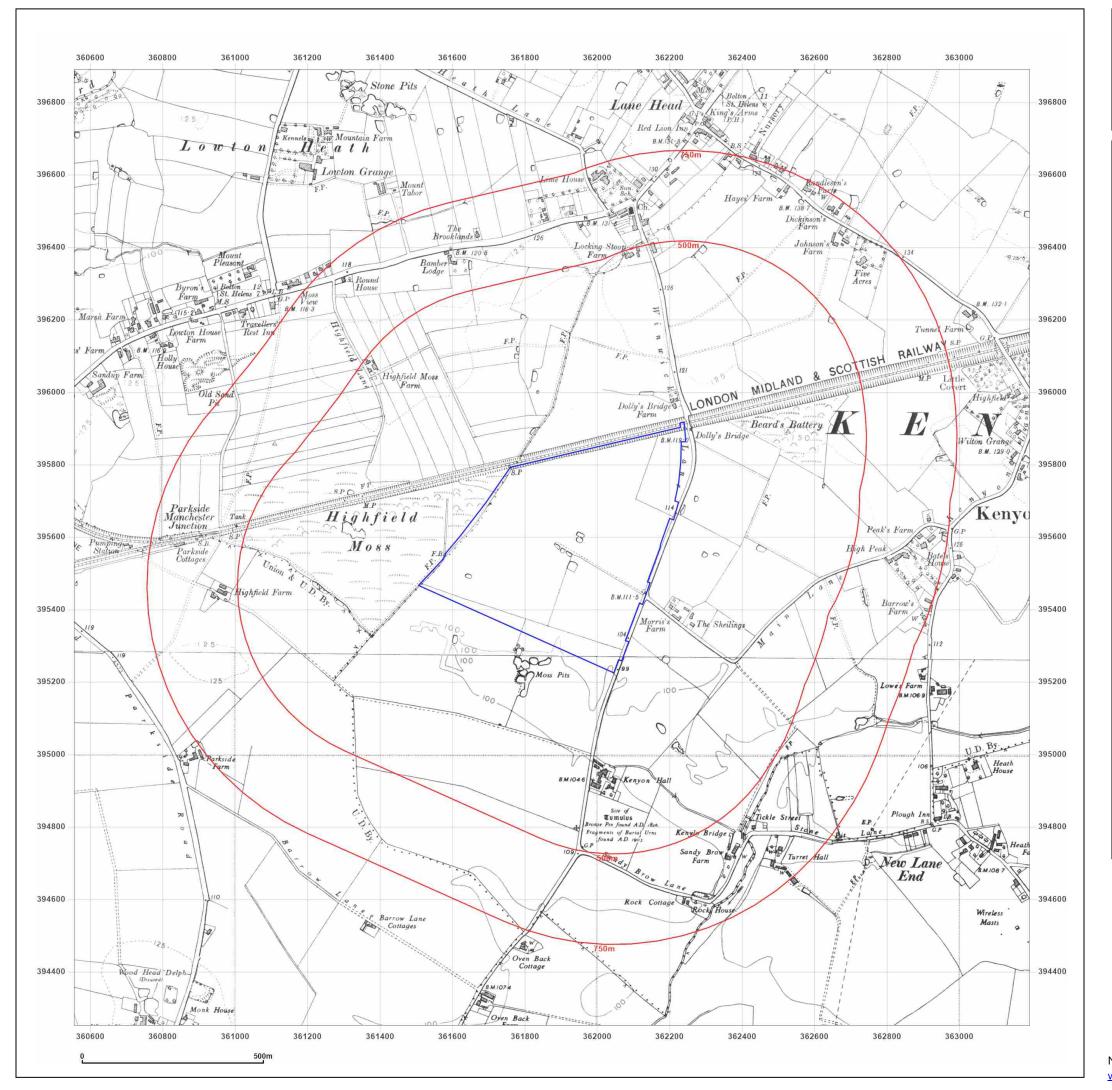


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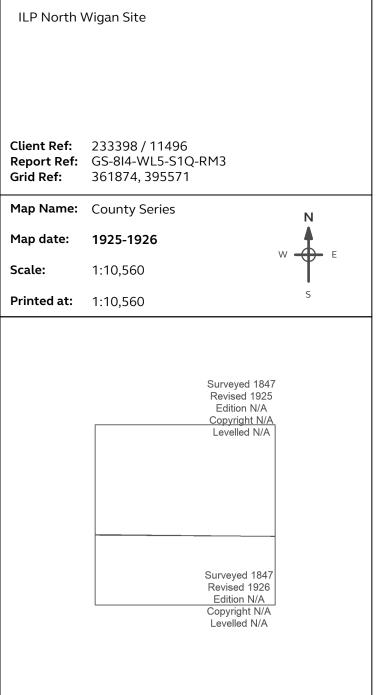
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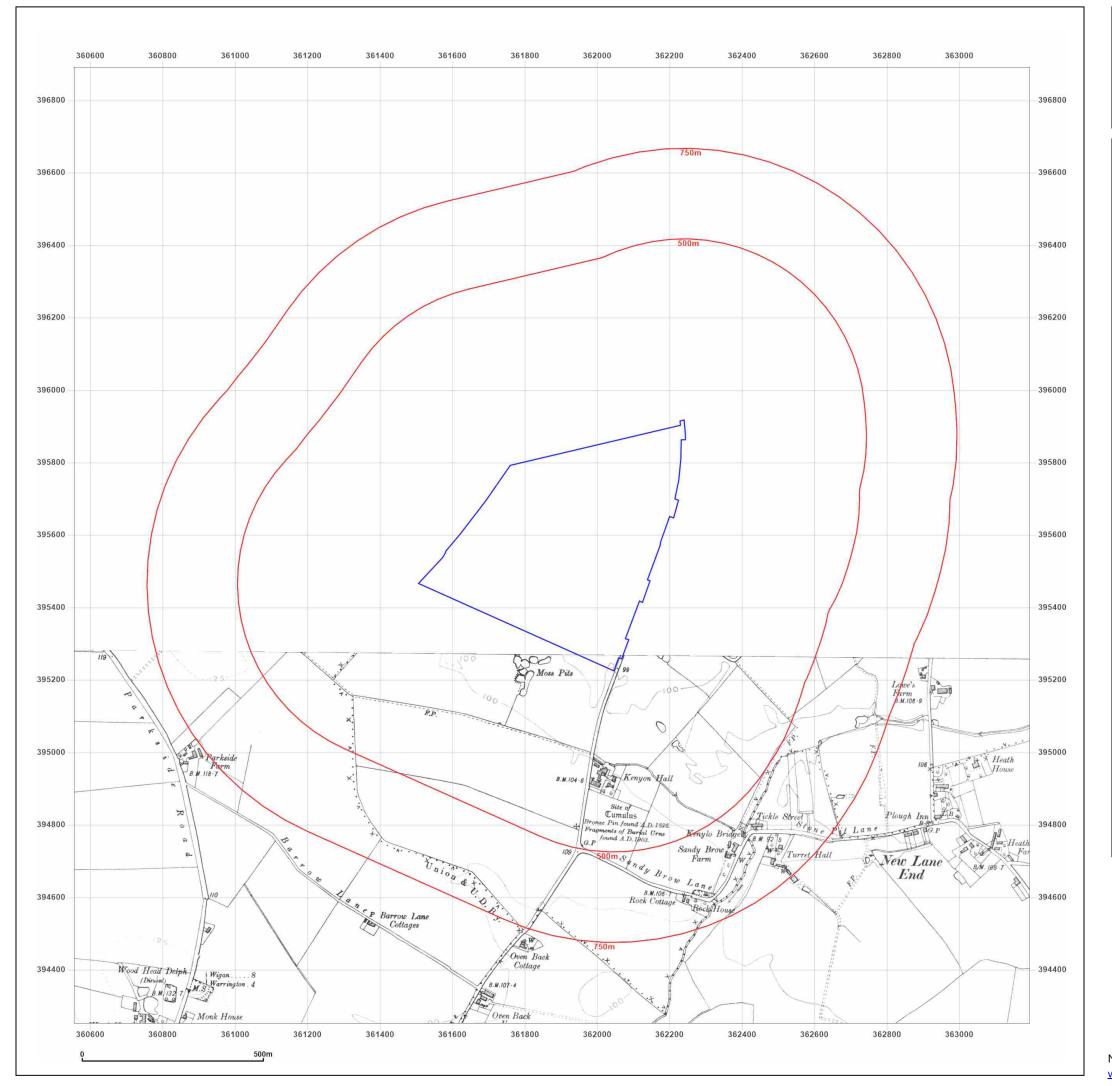


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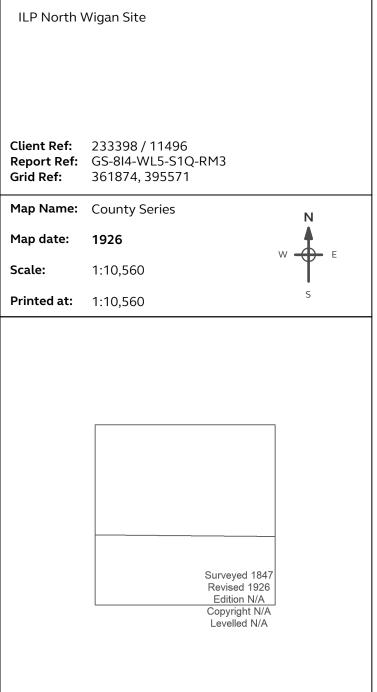
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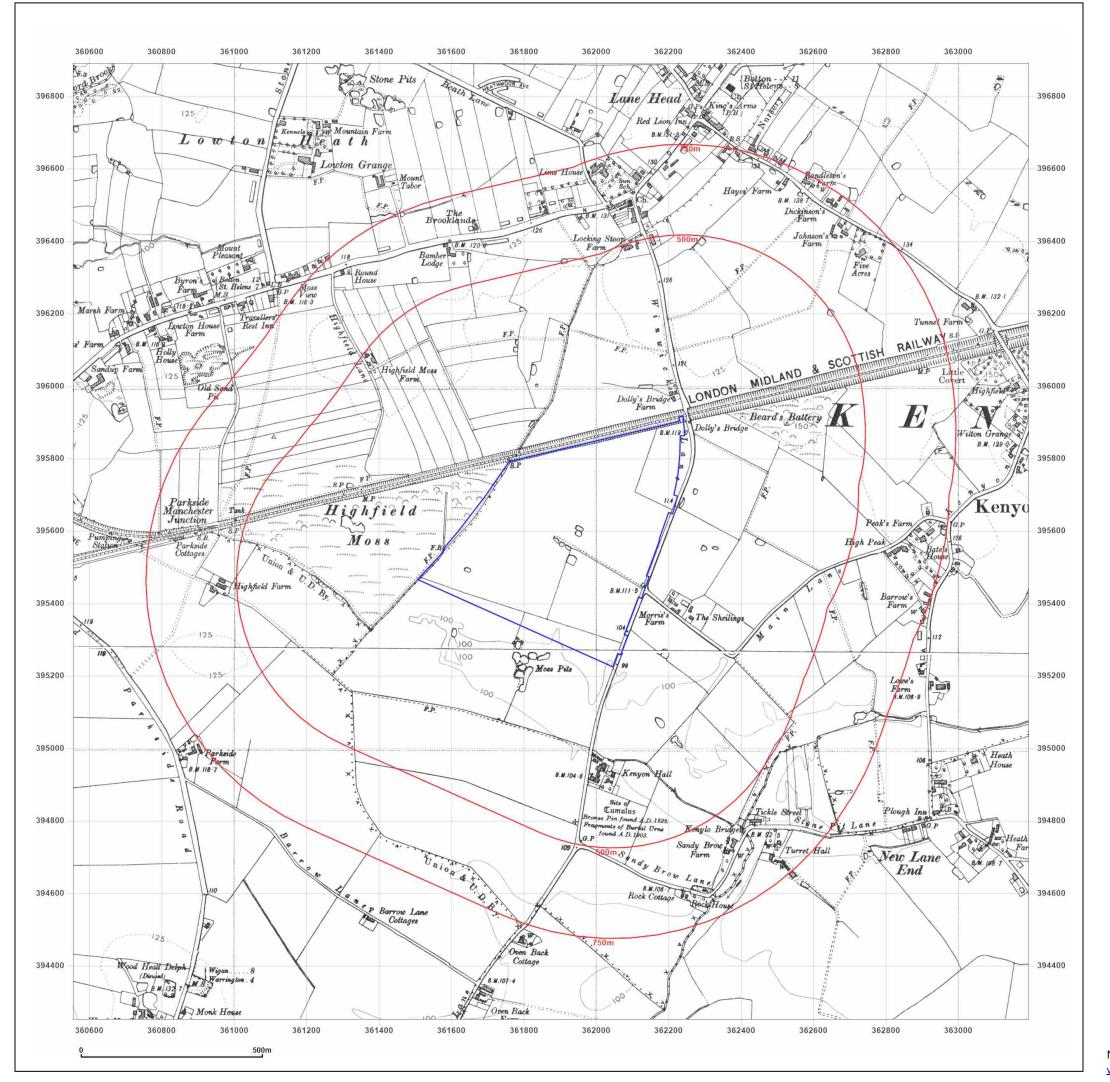


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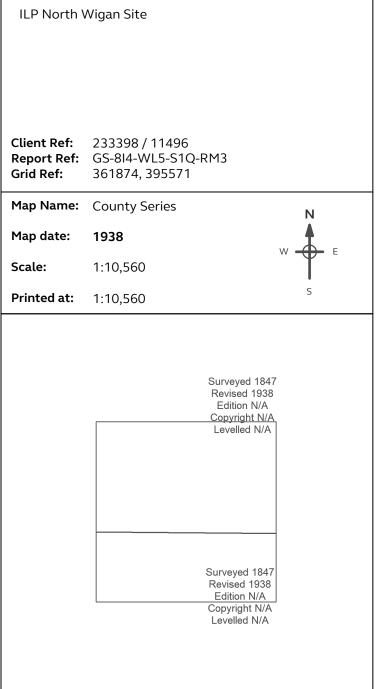
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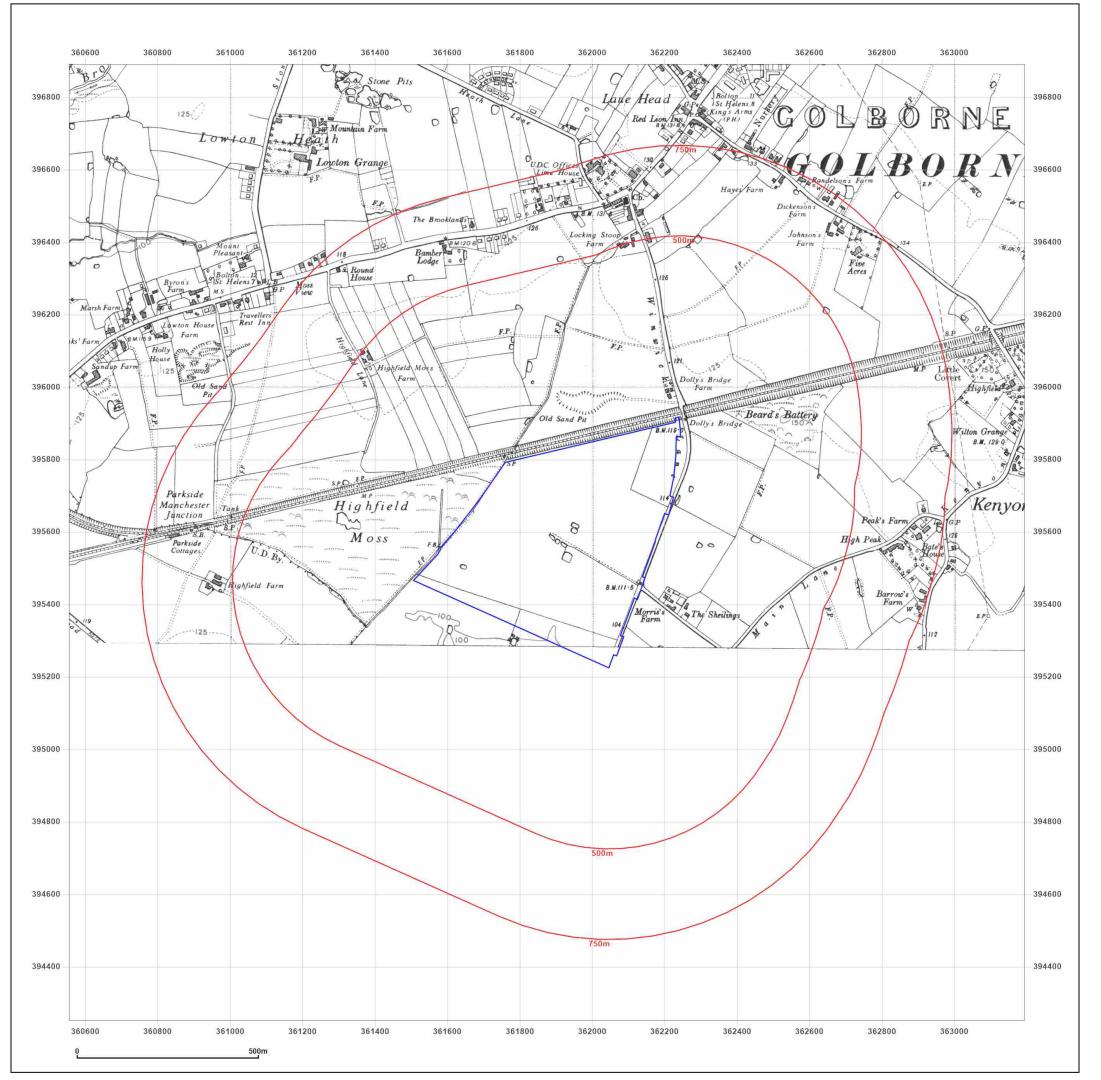


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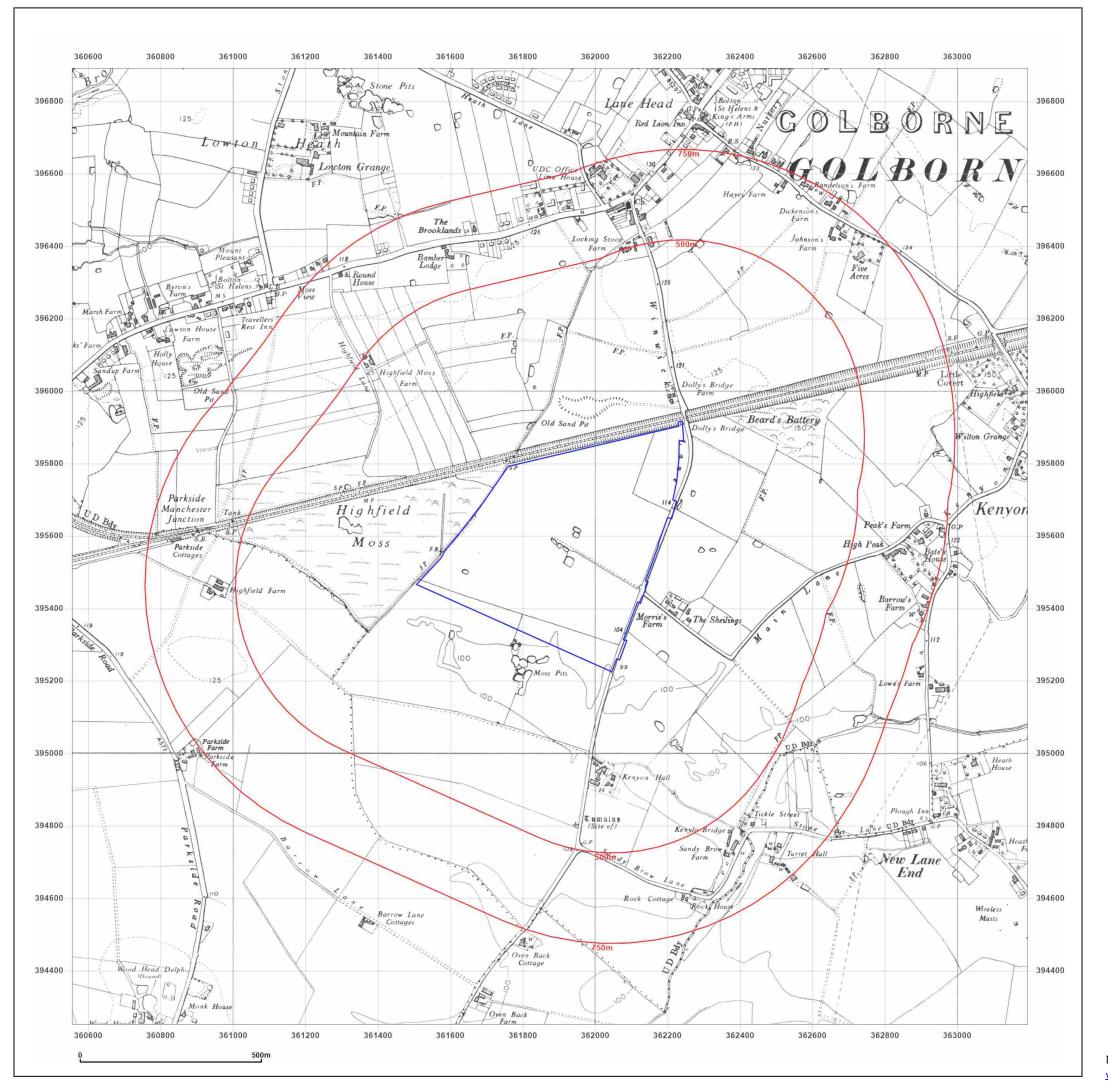


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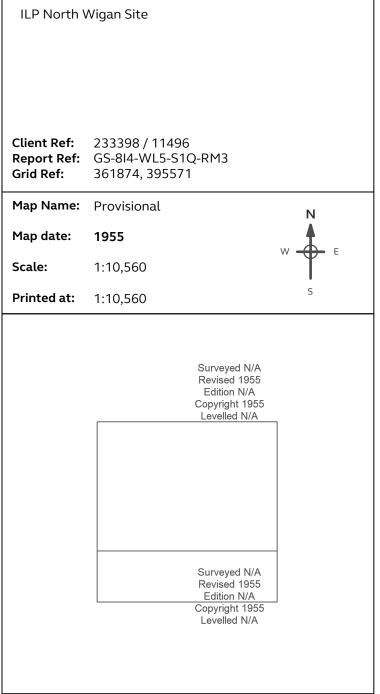
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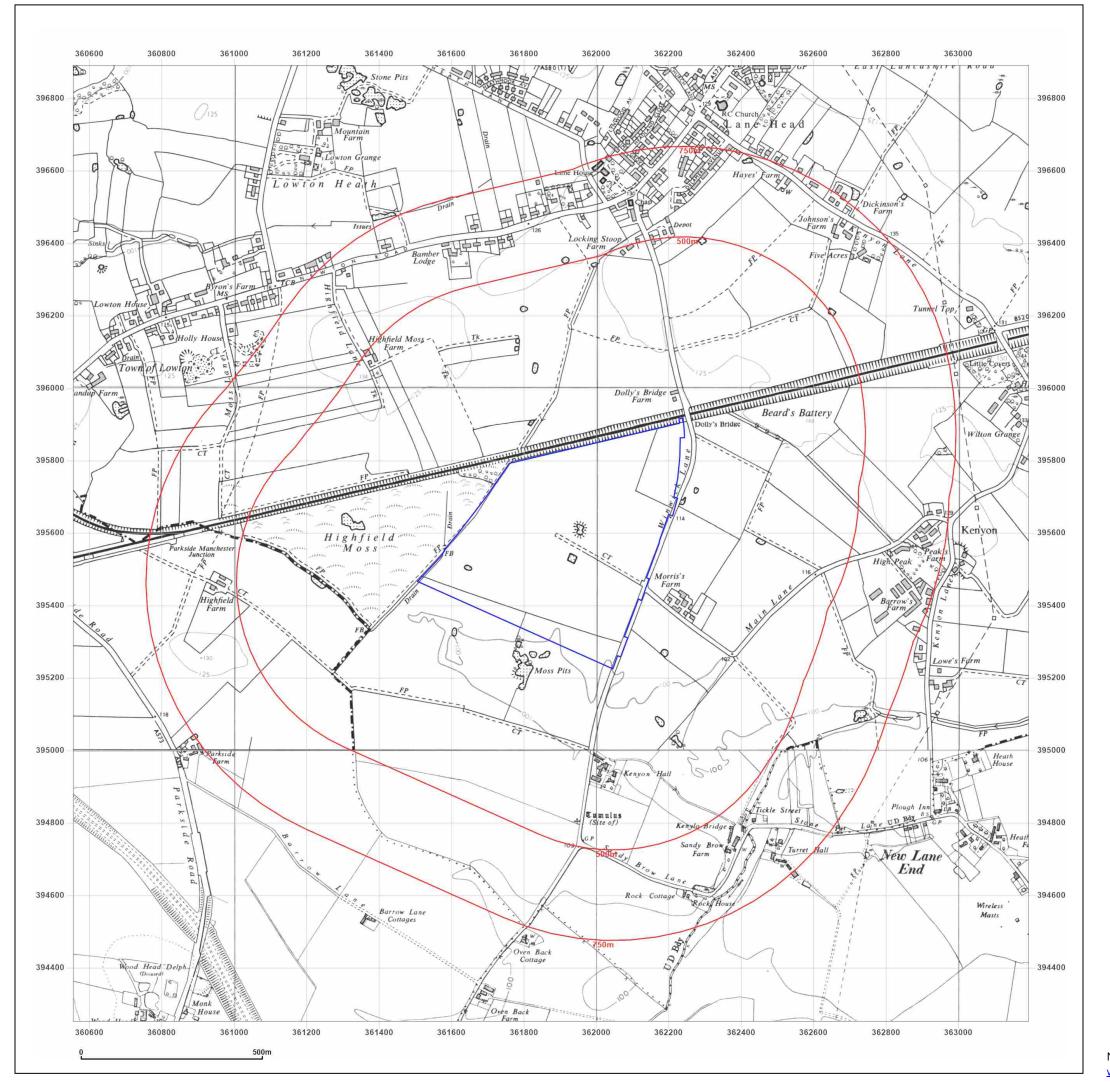


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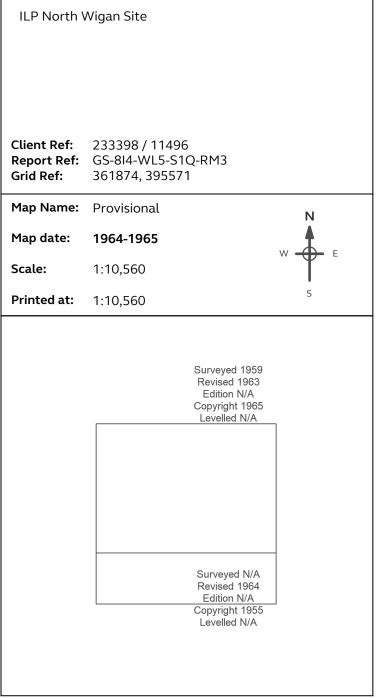
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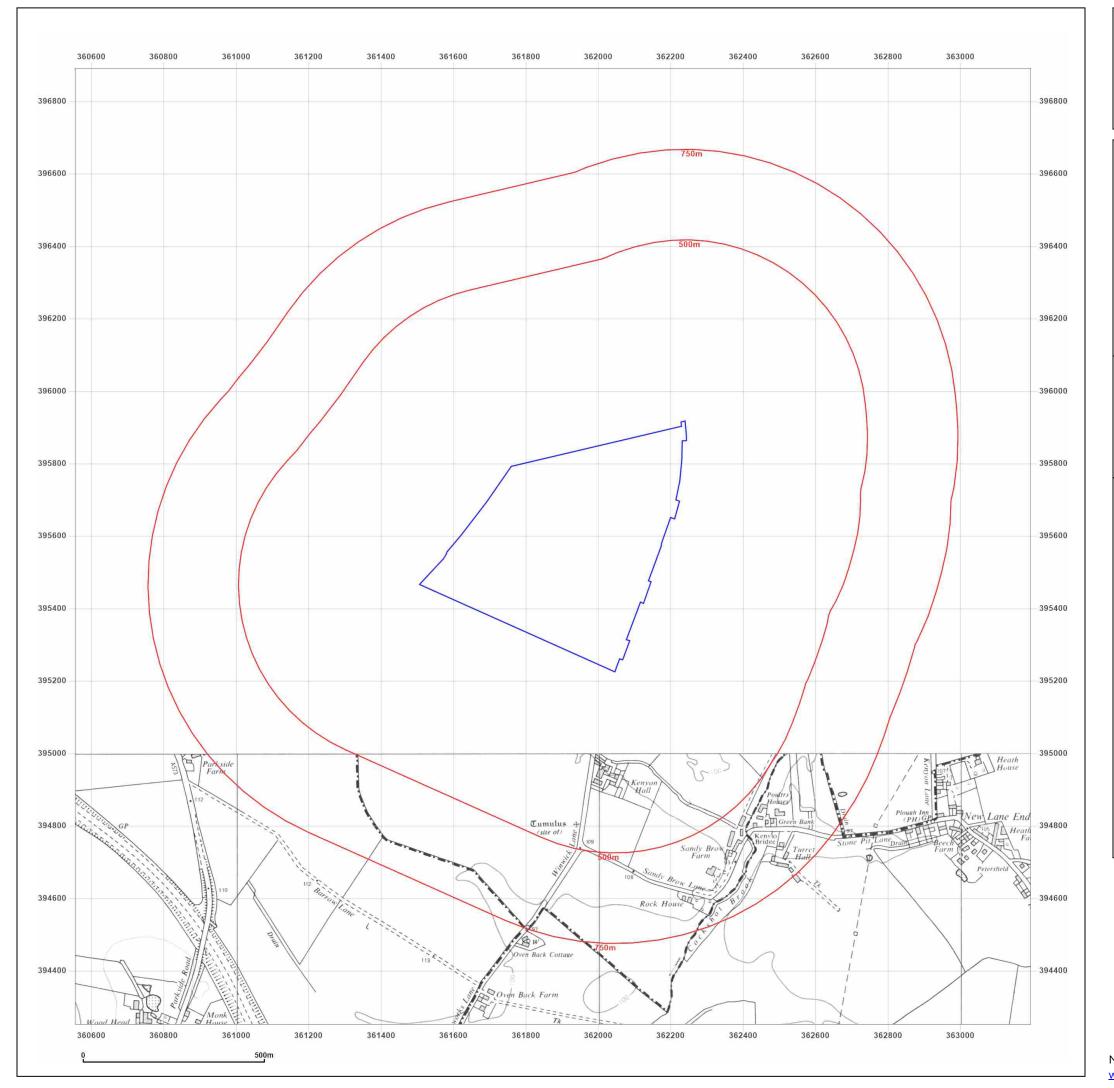


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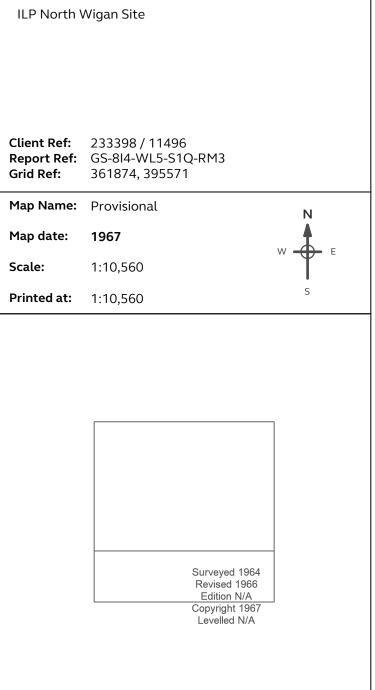
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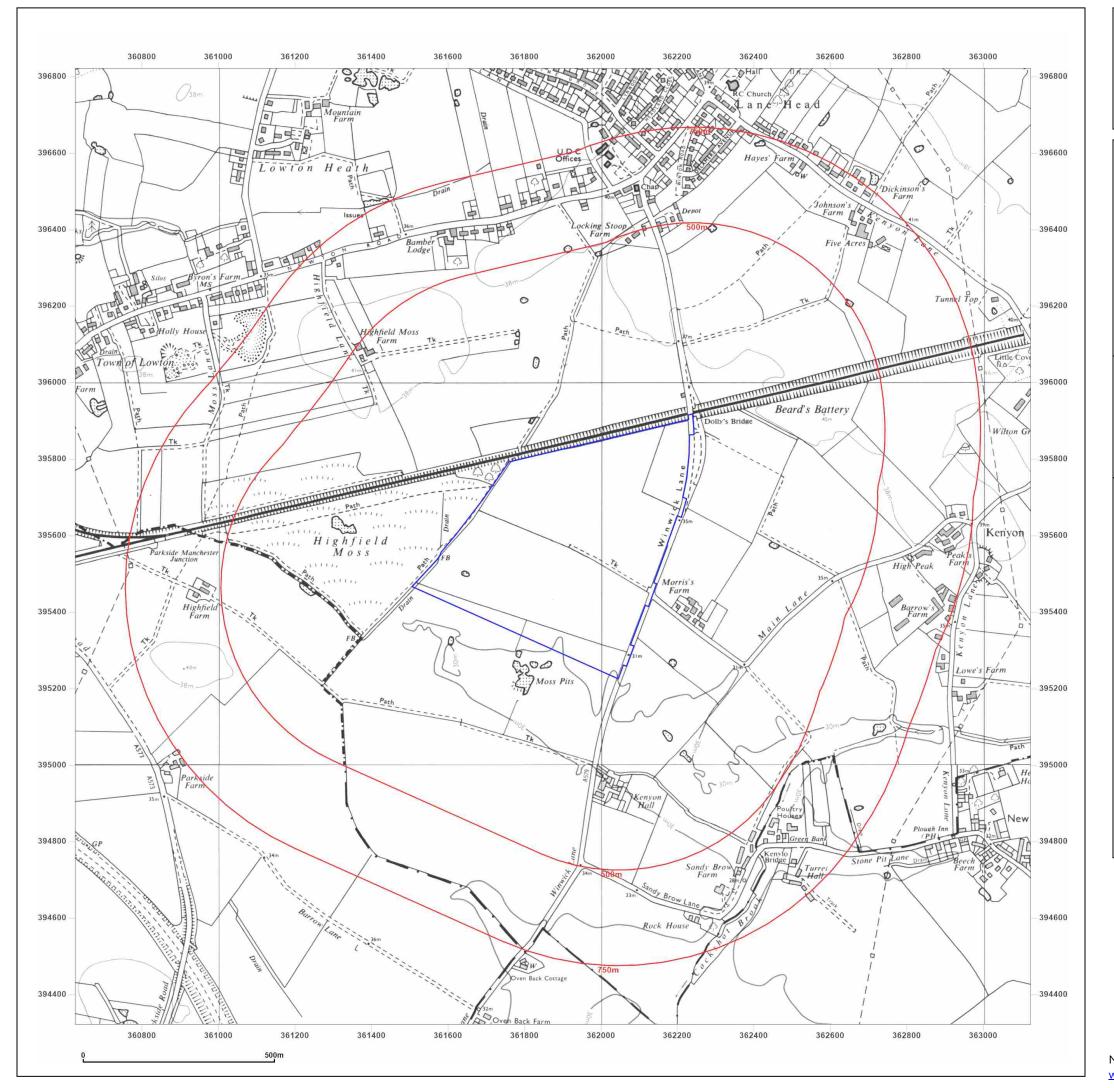


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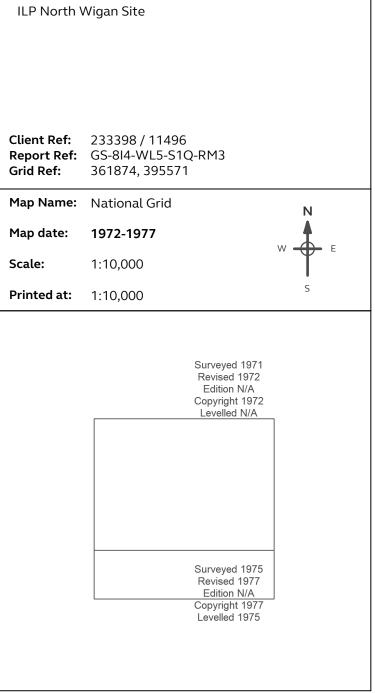
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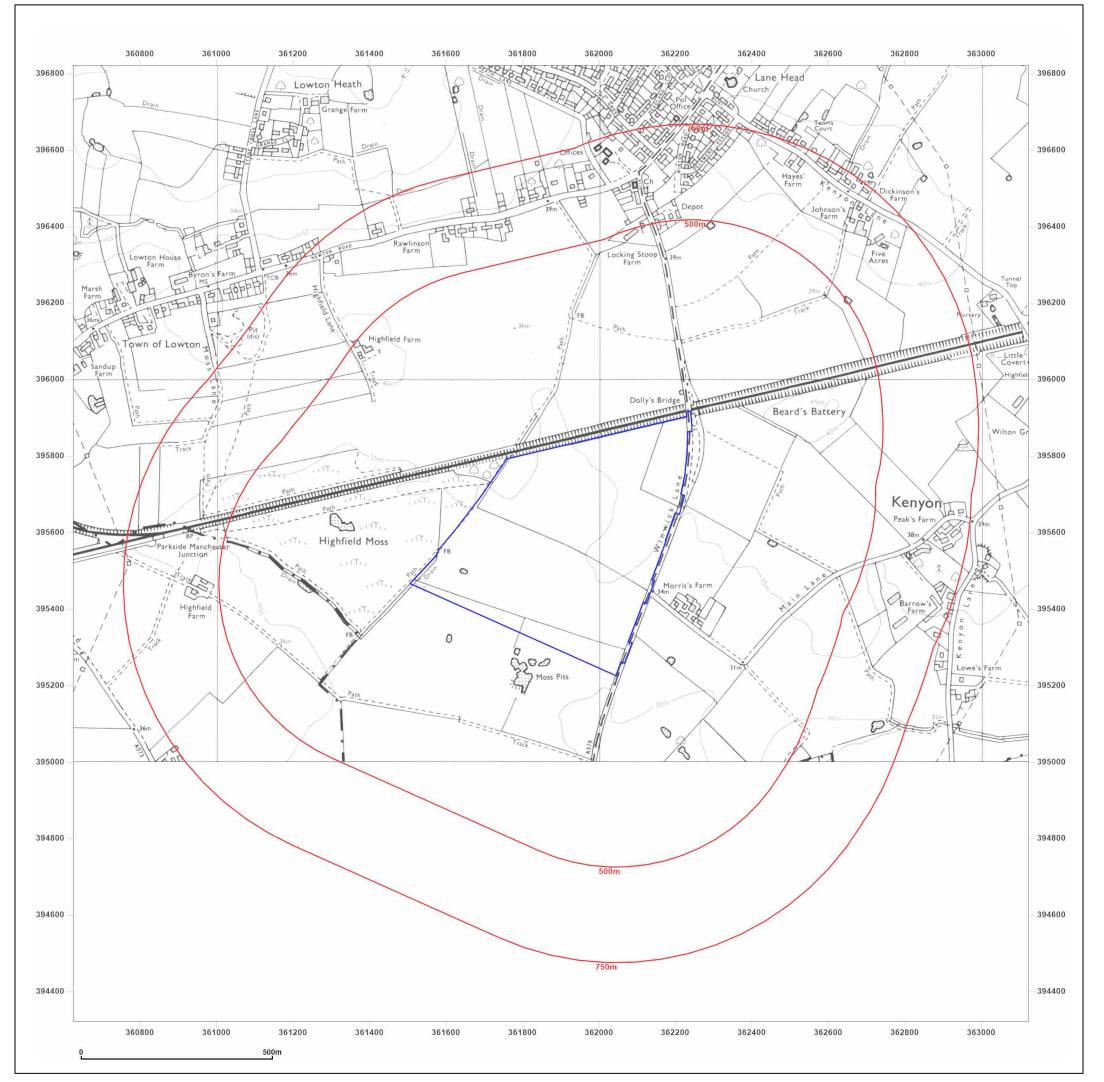


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ILP North \	Wigan Site		
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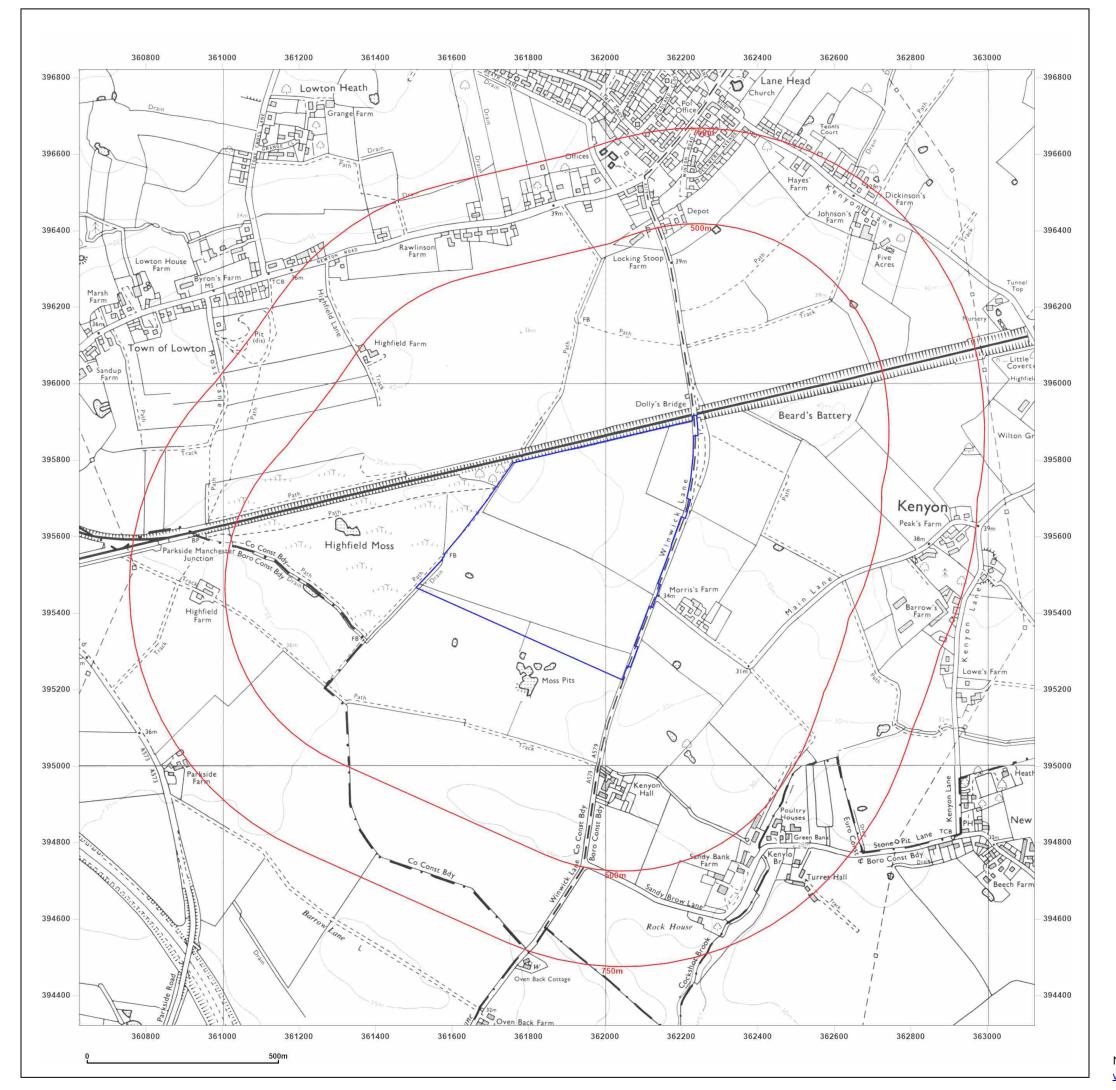


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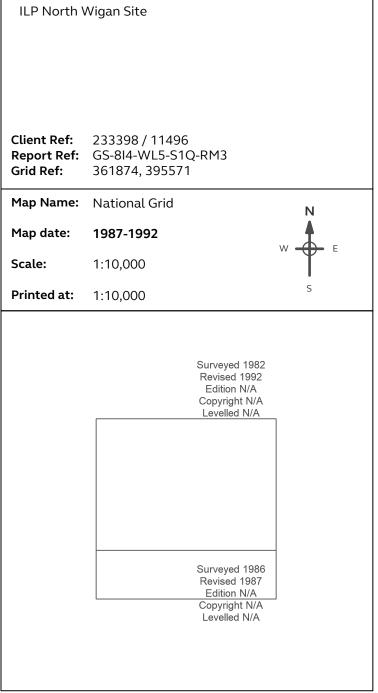
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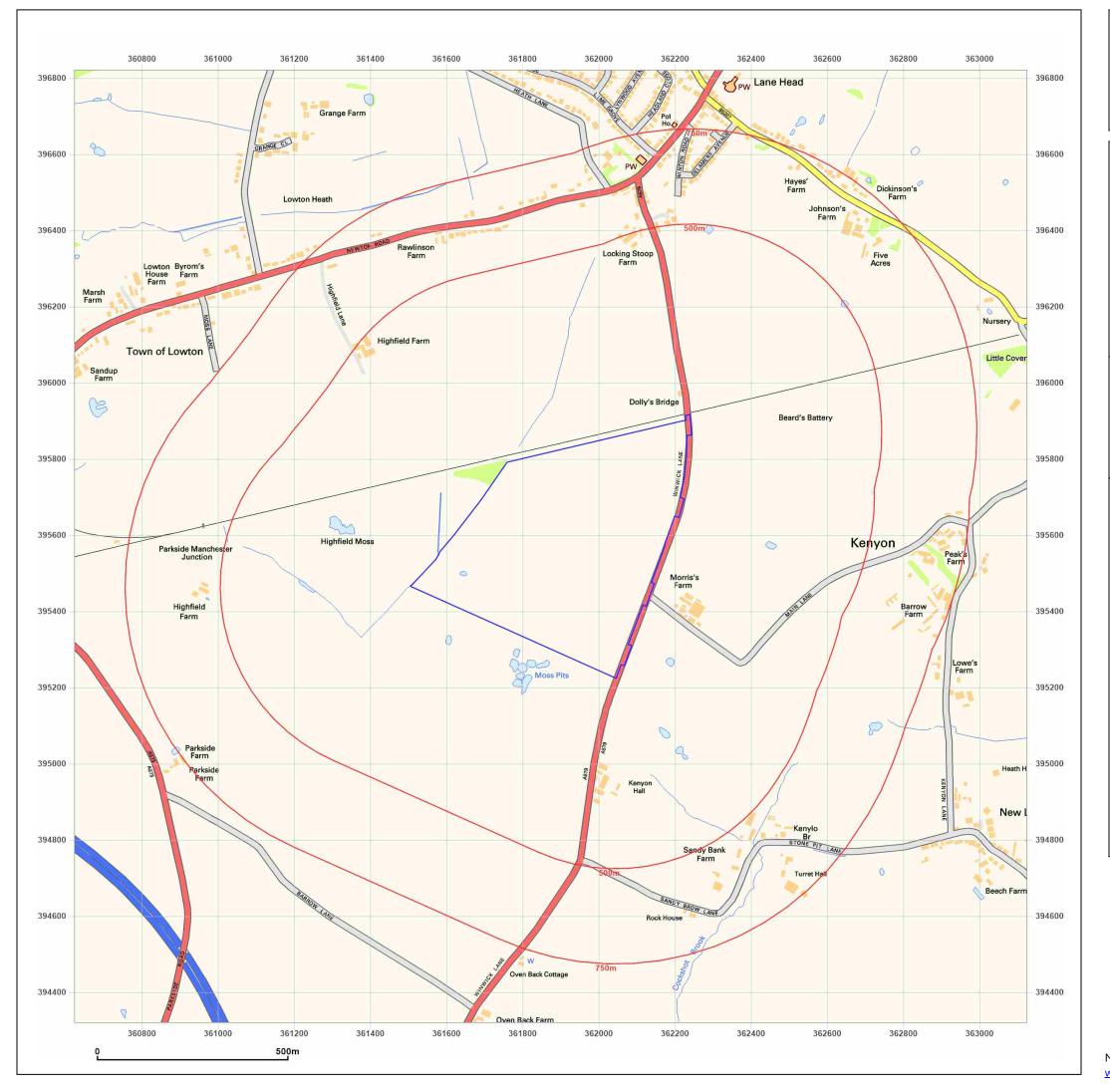


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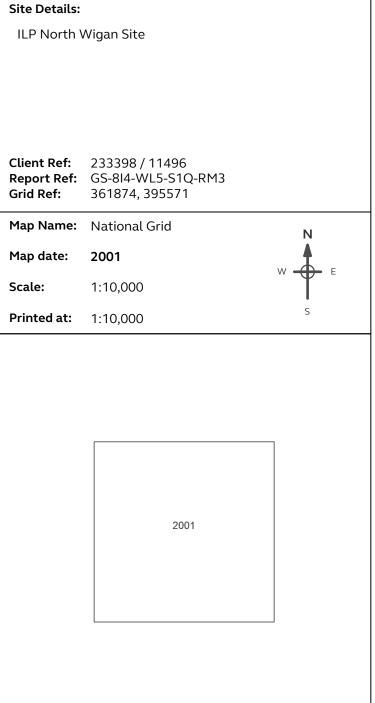
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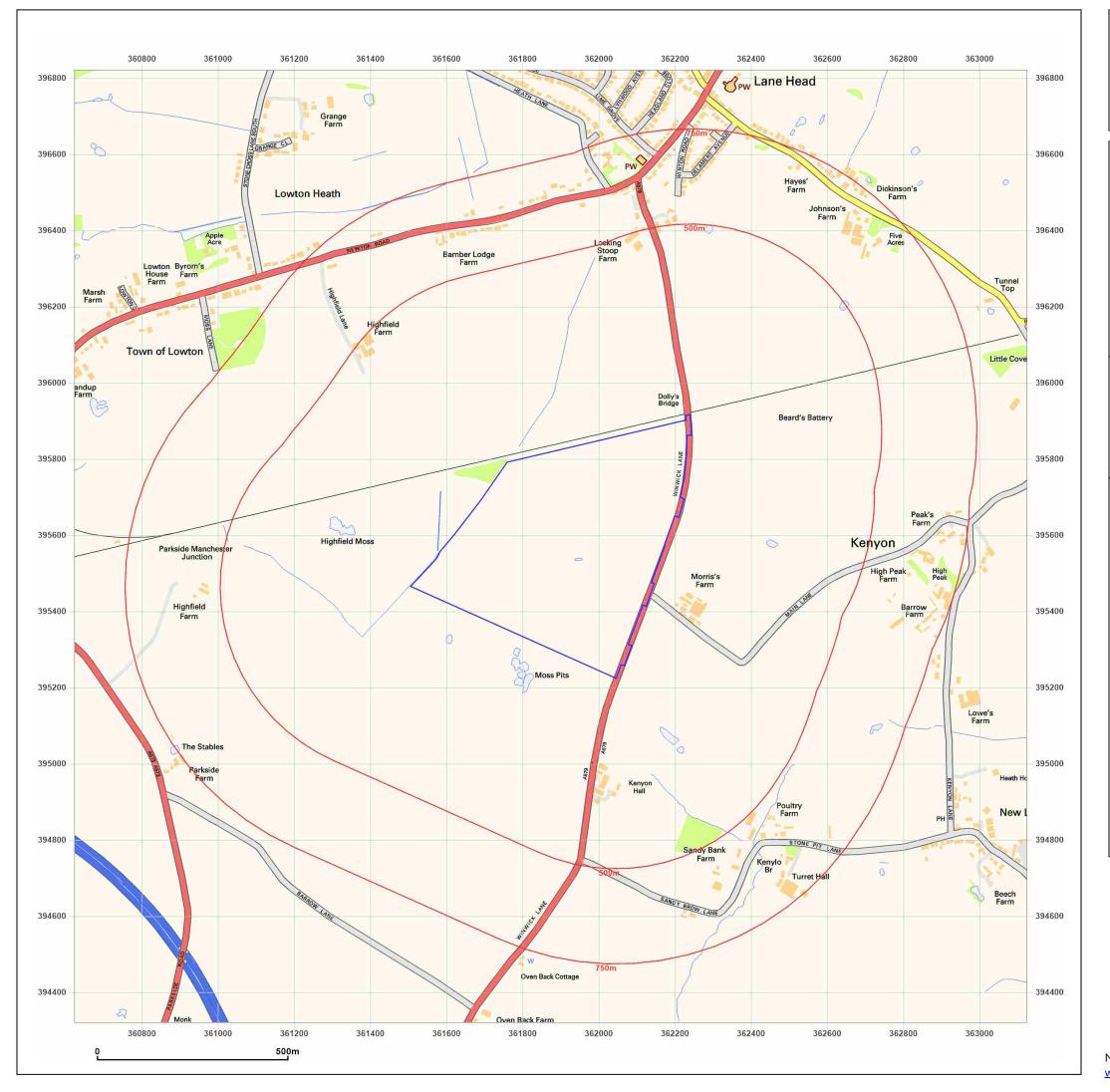


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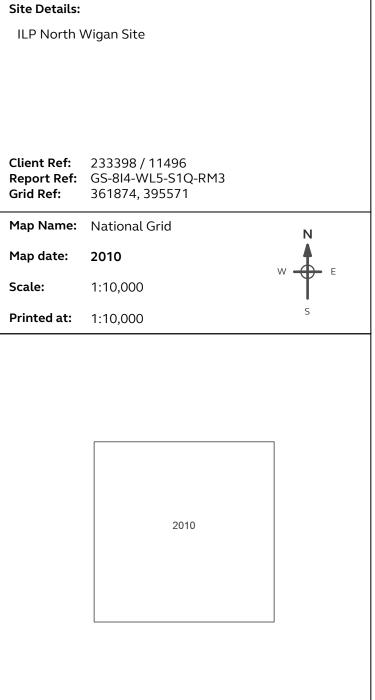
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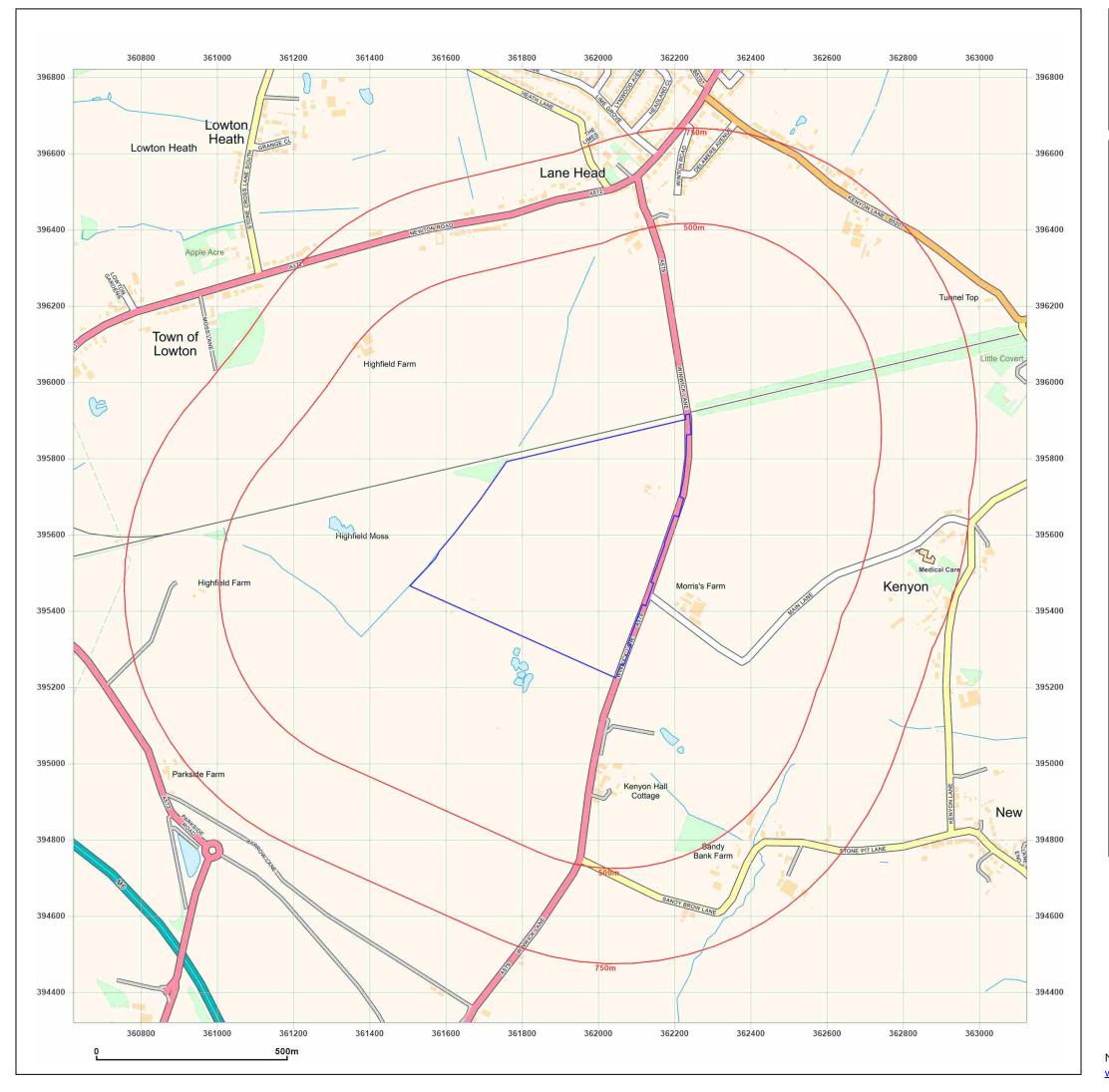


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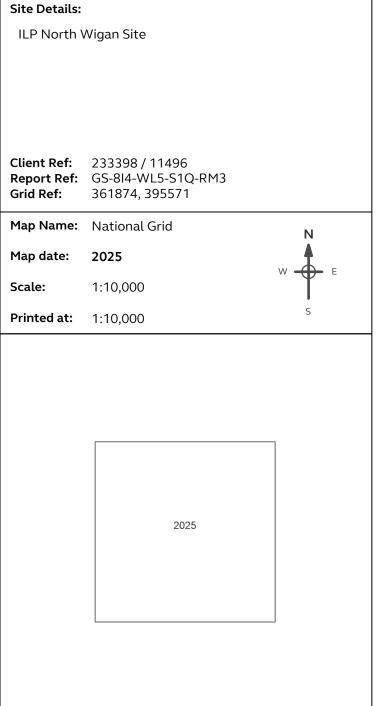
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Intermodal Logistics Park (ILP) North Strategic Rail Freight Interchange (SRFI), St Helens Phase 1 Geo-Environmental Assessment October 2025 PSE-BWB-EGT-XX-RP-YE-0001_Ph1



Appendix 4: Coal Mining Report



Consultants Coal Mining Report

Parkside East, Junction 22 M6 St Helens

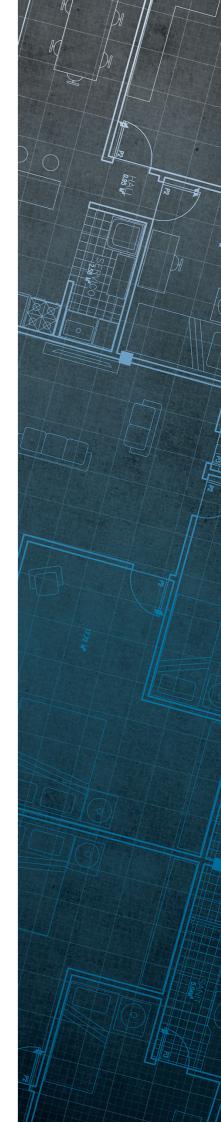
Date of enquiry:
Date enquiry received:
Issue date:

Our reference: Your reference:

22 May 2024 22 May 2024 24 May 2024

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8391



Consultants Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

Parkside East, Junction 22 M6 St Helens

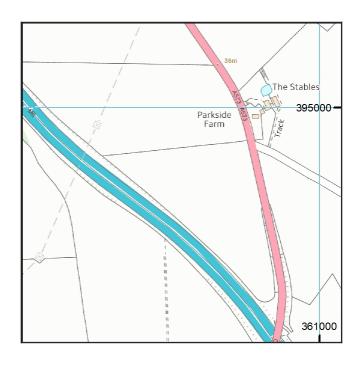
How to contact us

0345 762 6848 (UK) +44 (0)1623 637 000 (International)

200 Lichfield Lane Mansfield Nottinghamshire NG18 4RG

www.groundstability.com

@coalauthorityin /company/the-coal-authorityf /thecoalauthorityD/thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
BICKERSHAW	CROMBOUK E	Coal	A2	361	Beneath Property	13.5	East	130	1966
BICKERSHAW	CROMBOUK E	Coal	F2	432	Beneath Property	14.2	East	130	1967
BICKERSHAW	LOWER FLORIDA	Coal	D1	467	North	17.9	South-East	180	1966
PARKSIDE	CROMBOUK E	Coal	A1	482	Beneath Property	14.0	East	130	1967
BICKERSHAW	CROMBOUK E	Coal	F1	486	Beneath Property	14.1	East	130	1964
GOLBORNE	RAMS	Coal	S1	490	North	14.2	South-East	140	1976
BICKERSHAW	LOWER FLORIDA	Coal	L2	496	North-East	11.4	East	180	1968
PARKSIDE	CROMBOUK E	Coal	F1	499	Beneath Property	14.0	East	130	1964
PARKSIDE	CROMBOUK E	Coal	B1	504	South-West	13.0	South-East	140	1965
BICKERSHAW	CROMBOUK E	Coal	C2	517	North	15.7	South-East	160	1970
BICKERSHAW	LOWER FLORIDA	Coal	L3	521	North-East	12.3	South-East	180	1969
BICKERSHAW	CROMBOUK E	Coal	C7	530	North	14.7	East	160	1974
BICKERSHAW	LOWER FLORIDA	Coal	L1	530	North-West	12.9	South-East	180	1962
unnamed	CROMBOUK E	Coal	C24	533	North-East	10.7	South-East	130	1970
BICKERSHAW	LOWER FLORIDA	Coal	L41	539	Beneath Property	16.6	East	170	1971
BICKERSHAW	CROMBOUK E	Coal	C22	542	Beneath Property	12.5	South-East	130	1970
unnamed	HIGHER FLORIDA	Coal	33PH	547	West	12.5	South-East	120	1968
PARKSIDE	CROMBOUK E	Coal	F6	551	Beneath Property	14.0	East	130	1965
BICKERSHAW	RAMS	Coal	S4	561	Beneath Property	15.0	East	140	1977
unnamed	LOWER PIGEON HOUSE (PIGEON HOUSE)	Coal	34BS	561	North	16.4	South	80	1956
unnamed	CROMBOUK E	Coal	C23	567	Beneath Property	11.2	South-East	130	1969

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
PARKSIDE	LOWER FLORIDA	Coal	L23	572	South-West	12.6	East	170	1973
unnamed	HIGHER FLORIDA	Coal	348A	590	West	11.0	South-East	120	1967
BICKERSHAW	LOWER FLORIDA	Coal	L6	598	North	15.1	South-East	180	1970
unnamed	HIGHER FLORIDA	Coal	33PI	599	South-West	12.5	South-East	120	1971
PARKSIDE	LOWER FLORIDA	Coal	L41	606	Beneath Property	12.1	East	170	1971
unnamed	LOWER FLORIDA	Coal	34AQ	607	Beneath Property	12.6	South-East	170	1959
unnamed	LOWER FLORIDA	Coal	33PA	613	Beneath Property	10.7	South-East	170	1966
PARKSIDE	LOWER FLORIDA	Coal	L21	614	East	12.3	South-East	170	1970
BICKERSHAW	LOWER FLORIDA	Coal	L4	615	Beneath Property	12.2	East	180	1973
GOLBORNE	RAMS	Coal	S7	616	North	14.2	South-East	140	1978
unnamed	TRENCHERB ONE	Coal	34IT	628	North-West	15.9	South-East	130	1966
BICKERSHAW	WIGAN FOUR FEET	Coal	W3	630	North	12.0	East	140	1978
BICKERSHAW	CROMBOUK E	Coal	C11	632	North-East	15.8	South-East	160	1982
GOLBORNE	RAMS	Coal	S15	636	East	14.9	South-East	220	1986
PARKSIDE	CROMBOUK E	Coal	B2	643	South-West	8.2	East	160	1970
PARKSIDE	LOWER FLORIDA	Coal	L22	644	West	12.6	East	170	1970
GOLBORNE	HIGHER FLORIDA	Coal	H7	646	North	14.9	South-East	107	1986
BICKERSHAW	LOWER FLORIDA	Coal	L5	653	Beneath Property	13.7	East	180	1974
PARKSIDE	CROMBOUK E	Coal	C22	655	Beneath Property	12.5	East	130	1970
PARKSIDE	LOWER FLORIDA	Coal	L24	673	South-West	15.2	East	170	1971
PARKSIDE	LOWER FLORIDA	Coal	L40	676	Beneath Property	13.0	East	170	1976
PARKSIDE	TRENCHERB ONE	Coal	T24	676	South-West	12.0	South-East	160	1980
PARKSIDE	TRENCHERB ONE	Coal	T25	680	South-East	12.0	South-East	160	1981
unnamed	WIGAN FOUR FEET	Coal	W24	698	South-West	11.8	South-East	170	1977
PARKSIDE	LOWER FLORIDA	Coal	E3	700	South-West	9.5	East	170	1968
GOLBORNE	LOWER FLORIDA	Coal	L10	706	North	14.4	South-East	180	1972

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	TRENCHERB ONE	Coal	34GP	711	North	10.7	South-East	160	1969
BICKERSHAW	WIGAN FOUR FEET	Coal	W4	712	Beneath Property	12.5	East	140	1981
unnamed	RAMS	Coal	S4	712	Beneath Property	14.0	East	140	1977
unnamed	WIGAN FOUR FEET	Coal	33PN	712	Beneath Property	12.0	South-East	140	1968
PARKSIDE	LOWER FLORIDA	Coal	L43	713	Beneath Property	12.2	East	170	1978
unnamed	WIGAN FOUR FEET	Coal	34EG	713	Beneath Property	11.5	South-East	210	1962
GOLBORNE	RAMS	Coal	S14	714	East	15.5	South-East	220	1987
unnamed	TRENCHERB ONE	Coal	33PR	730	South-West	11.6	South-East	150	1971
unnamed	PLODDER	Coal	P3	741	North-West	14.4	South-East	210	1982
BICKERSHAW	HIGHER FLORIDA	Coal	H12	741	East	15.3	South-East	110	1980
unnamed	WIGAN FOUR FEET	Coal	W25	742	South-East	11.8	South-East	160	1977
GOLBORNE	LOWER FLORIDA	Coal	L12	743	North-East	17.4	East	180	1974
unnamed	WIGAN FIVE FEET	Coal	V24	745	South-West	13.4	South-East	160	1986
PARKSIDE	LOWER FLORIDA	Coal	L4	746	Beneath Property	15.5	East	170	1973
PARKSIDE	LOWER FLORIDA	Coal	L45	779	Beneath Property	7.7	East	170	1980
PARKSIDE	RAMS	Coal	S32	779	South	8.4	South	214	1988
GOLBORNE	LOWER FLORIDA	Coal	L20	788	East	15.9	South-East	180	1978
PARKSIDE	LOWER FLORIDA	Coal	L40	799	Beneath Property	10.2	East	170	1976
PARKSIDE	LOWER FLORIDA	Coal	L42	805	Beneath Property	11.8	East	170	1974
PARKSIDE	LOWER FLORIDA	Coal	L44	810	Beneath Property	7.5	East	170	1979
GOLBORNE	PLODDER	Coal	P4	814	North	14.1	South-East	210	1985
PARKSIDE	LONDON DELPH (BIN)	Coal	LD10	832	East	16.4	South-East	200	1981
PARKSIDE	LOWER	Coal	L48	837	North	11.6	East	170	1979
PARKSIDE	LOWER	Coal	L46	843	Beneath Property	10.9	East	170	1980
PARKSIDE	LOWER FLORIDA	Coal	L32	843	South	8.5	South	185	1985
PARKSIDE	WIGAN FOUR FEET	Coal	W32	923	South	10.5	South	180	1990

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	359394-001	359969 394735	This shaft has been filled and capped by British Coal in Sept. 1994 The shaft was capped with reinforced concrete 15m square and 1m thick and incorporates a gas vent that is actively monitored monthly by the CA or representatives thereof.	Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

NW1409	NW207	NW745
NW596	16017	NW640
NW760	16333	NW676

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 - Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

A damage notice or claim for alleged subsidence damage was made in June 1995 for FIELD OS 0021 KENYON HALL FARM, CROFT, WARRINGTON, CHESHIRE. However, the claim was rejected.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

There are a further 5 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas

Distance to gas incident/remediation (m)	Direction
87.8	North-East
93.3	South-East

See Section 4 for further information.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 - Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is in an area where notices to withdraw support were given in 1960 and 1976.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 - Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.					

Section 5 - Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

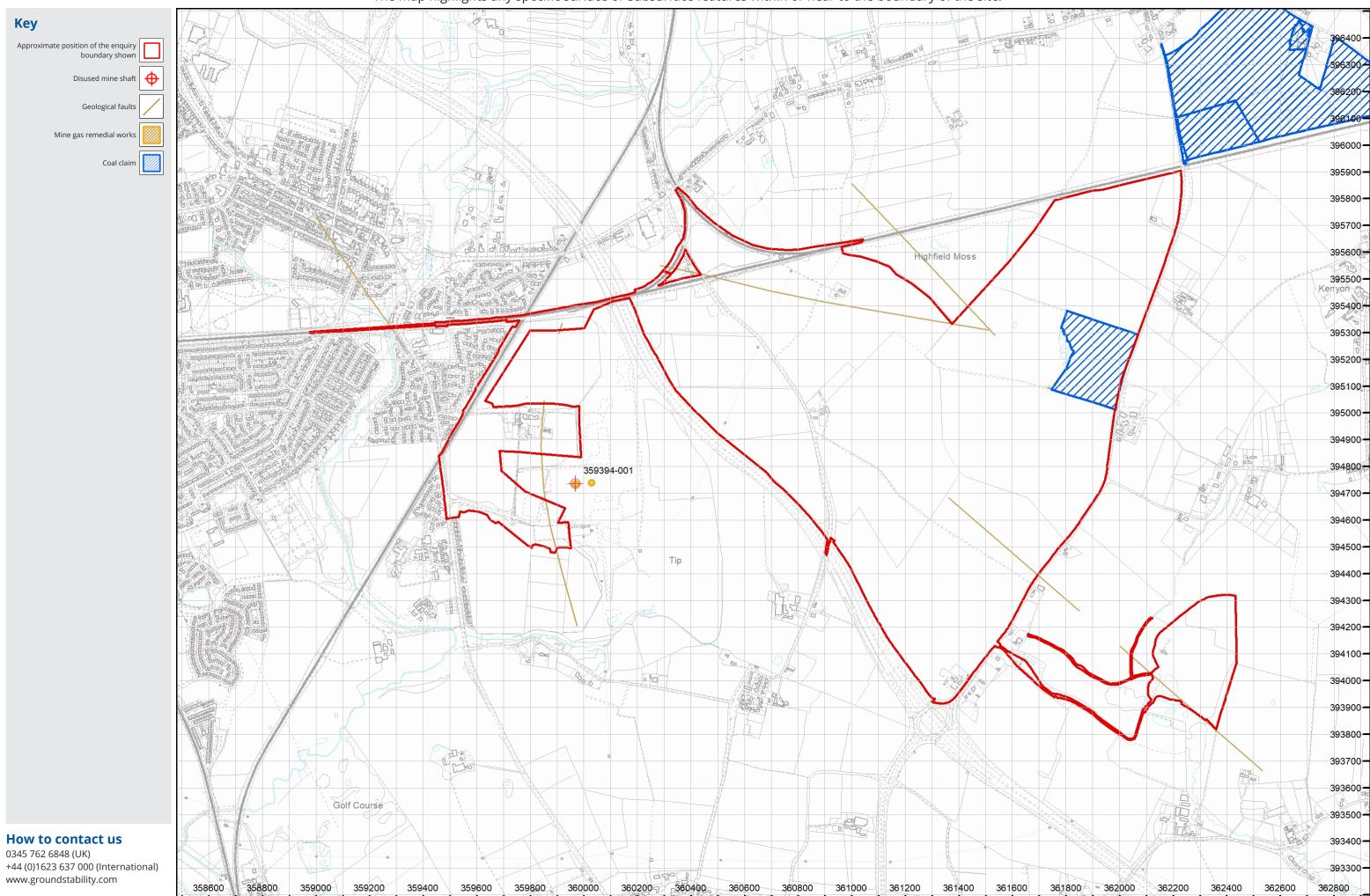
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

Summary of findings

The map highlights any specific surface or subsurface features within or near to the boundary of the site.



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Appendix 5: Site Photographs





Photo 1— View from the northwest of the central site.



Photo 2— Woodland area which borders Highfield Moss.



Photo 3— View of Highfield Moss form the south.



Photo 4— View looking west from the southern tip of Highfield Moss.



Photo 5— Ditch in the far north with standing water within.



Photo 6— Northeast view of the site from the Airfield.







Photo 8— View looking north onto the Moss Pits.



Photo 9— Evidence of burning just off the footpath within central site.



Photo 10— Structure centrally, possibly used for shooting activities.



Photo 11— North view from the southeast of the Moss Pits.



Photo 12— View looking south, centrally from the main area.





Photo 13— Field access from the A579.



Photo 14— View looking west from the A579.



Photo 15— View looking west from the road improvement site.



Photo 16— Tree planter area just south of Parkside Farm.



Photo 17— View looking west from tree planter area.



Photo 18— Southeast view form Parkside Farm.





Photo 19— West view from Parkside Farm.



Photo 20— Northwest view from Parkside Farm.



Photo 21— View of far northwest field from Parkside Road.



Photo 22— Access to Newton Park Farm.



Photo 23— Derelict Buildings on access road to Newton Park Farm.



Photo 6— Vegetation surrounding Newton Park Farm.





Photo 25— Open area south of Newtons Park Farm.



Photo 26— Southerly view overlooking the access road to the former Parkside Colliery.

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Appendix 6: Classification of Risk



BWB RISK ASSESSMENT CLASSIFICATION (REFERENCE CIRIA C552, CONTAMINATED LAND RISK ASSESSMENT: A GUIDE TO GOOD PRACTICE, 2001)

CIRIA C552, Contaminated Land Risk Assessment A Guide to Good Practice, 2001 sets out a methodology for estimating risk. The methodology for risk evaluation is a qualitative method for interpreting the output for the risk estimation stage of the assessment. It involves the classification of the:

- Magnitude of the potential consequence (severity) of risk occurring; and
- Magnitude of the probability (likelihood) of the risk occurring.

The classification of consequence and probability are replicated in **Table 1** and **Table 2**, respectively.

Table 1: Classification of Consequence

Classification	Definition	Examples
Severe (Sv)	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium (Md)	Chronic damage to Human Health ("significant harm"). Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such ecosystem.	Concentrations of a contaminant from site exceeding the generic or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer. Death of species within a designated nature reserve.
Mild (Mi)	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater. Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor (Mr)	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by measures such as protective clothing etc.). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentration that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discolouration of concrete.

The classification of consequence does not take into account the probability of the consequence being realised. Therefore, there may be more than one consequence for a particular pollutant linkage. Both a severe and medium classification can result in death.



Severe relates to short term (acute) risk while medium relates to long term (chronic) risk. Mild relates to significant harm but to less sensitive receptors. Minor classification relates to harm which is not significant but could have a financial cost.

Table 2: Classification of Probability

Classification	Definition
High likelihood (Hi)	There is a pollutant linkage and an event that either appears very likely in the short term and almost inevitable in the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollutant linkage and all the elements are present and in the right place, which means that it is probable that an event will occur.
(Li)	Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood	There is a pollutant linkage and circumstances are possible under which an event could occur.
(Lw)	However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely (UI)	There is a pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

The classification gives a guide as to the severity and consequence of identified risk when compared with other risk presented on the site. It should be noted that if a risk is identified it cannot be classified as "no risk" but as "very low risk". Differing stakeholders may have a different view on the acceptability of a risk.

Once the consequence and probability have been classified these can be compared using a matrix to identify an overall risk category, as shown in **Table 3**. These categories and the actions required are categorised in **Table 4**.

Table 3: Risk Evaluation Matrix

	Consequence	Severe (Sv)	Medium (Md)	Mild (Mi)	Minor (Mr)
	High likelihood (Hi) Very High Risk (VH)			Moderate Risk (M)	Mod/Low Risk (M/L)
bility	Likely (Li)		Moderate Risk (M)	Mod/Low Risk (M/L)	Low Risk (L)
Proba	Low likelihood (Lw)	Moderate Risk (M)	Mod/Low Risk (M/L)	Low Risk (L)	Very Low Risk (VL)
	Unlikely (UI)	Mod/Low Risk (M/L)	Low Risk (L)	Very Low Risk (VL)	Very Low Risk (VL)



Table 4: Risk Categorisations

Very High Risk (VH)	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High Risk (H)	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate Risk (M)	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer-term.
Low Risk (L)	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low Risk (VL)	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Reference:

CIRIA C552 Contaminated land risk assessment. A guide to good practice. Rudland, D J, Lancefield, R M, Mayell, P N, 2001.

