

Site Details:

RAVELRIG ROAD, BALERNO,
EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_1_1
Grid Ref: 315084, 667040

Map Name: National Grid

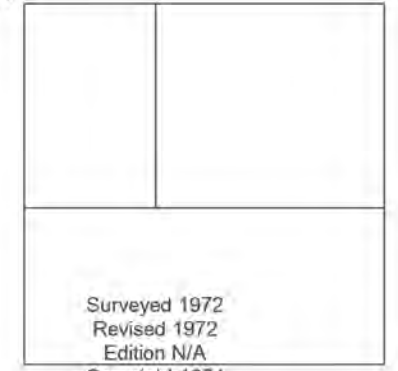
Map date: 1971-1972

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1957

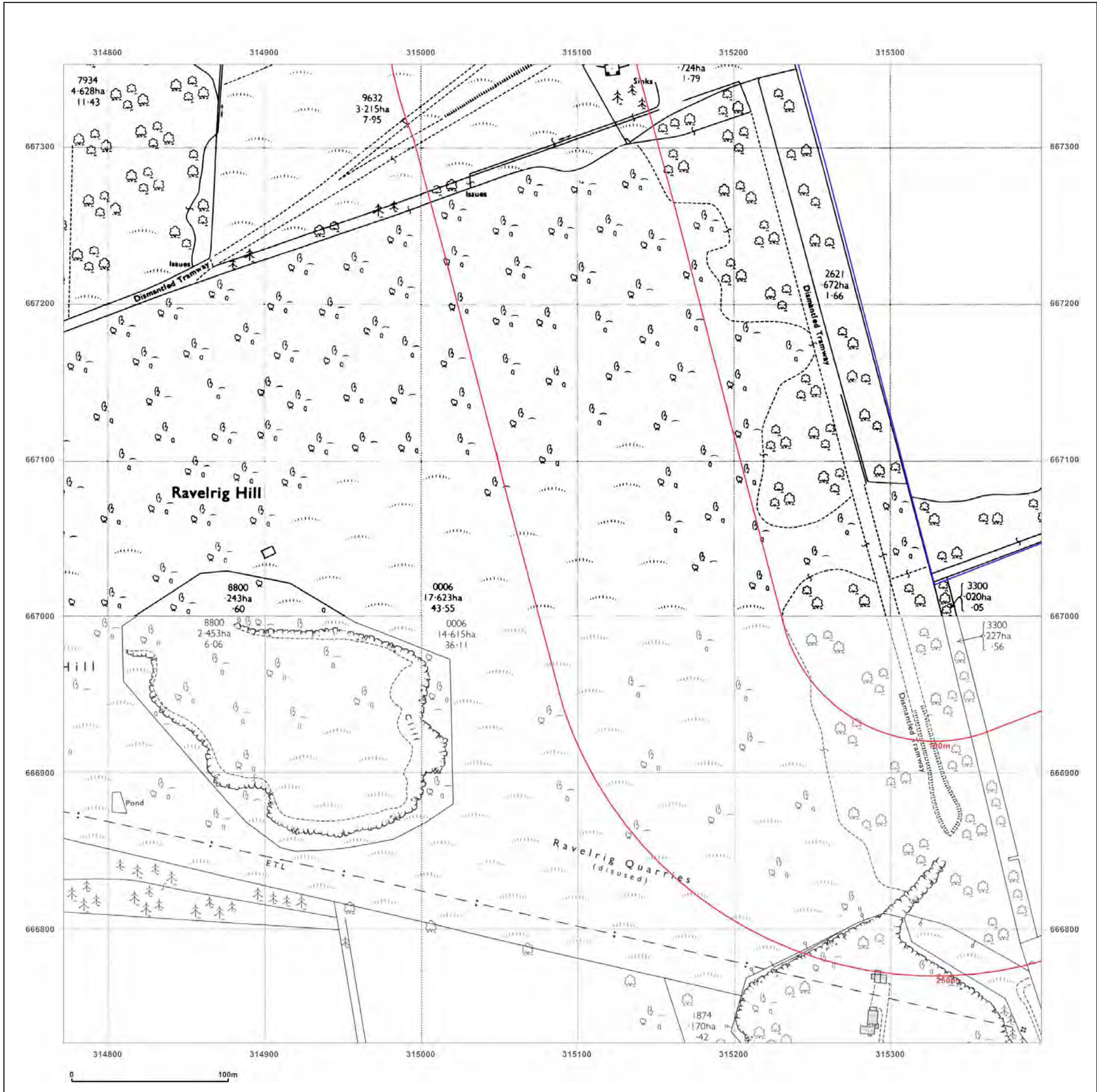


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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_1_1
Grid Ref: 315084, 667040

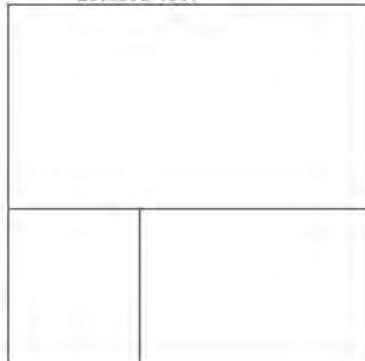
Map Name: National Grid

Map date: 1970-1974

Scale: 1:2,500

Printed at: 1:2,500



<p>Surveyed 1970 Revised 1970 Edition N/A Copyright 1970 Levelled 1957</p>		<p>Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A</p>
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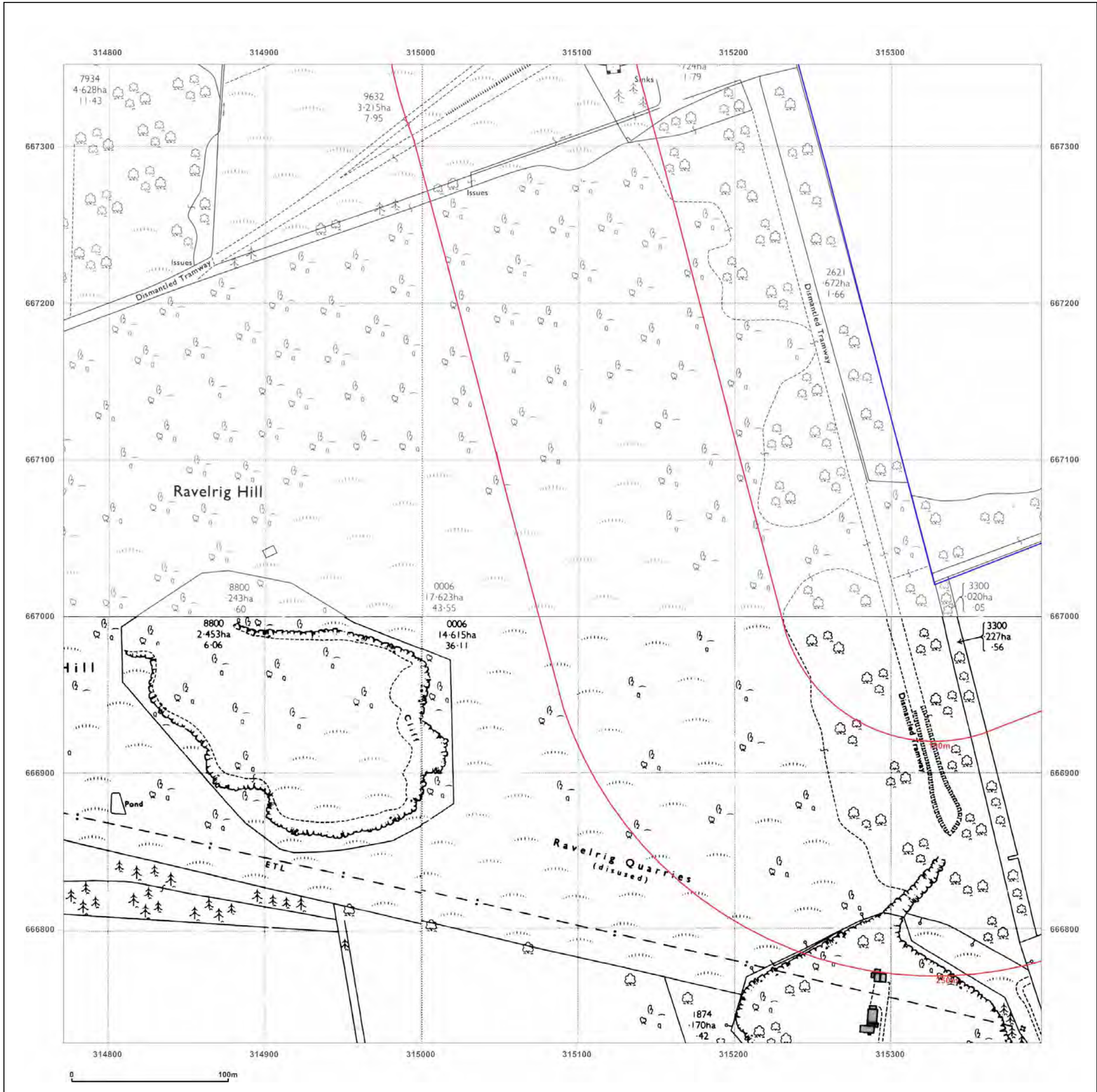


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EH14

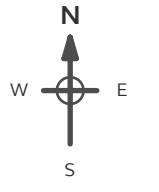
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Grid Ref: 315084, 667040

Map Name: National Grid

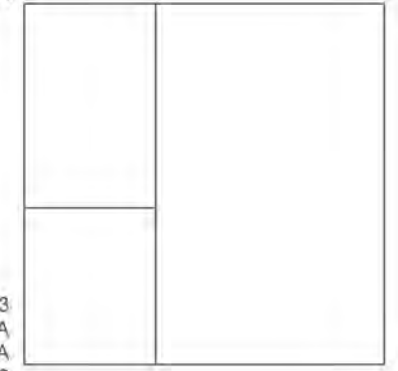
Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

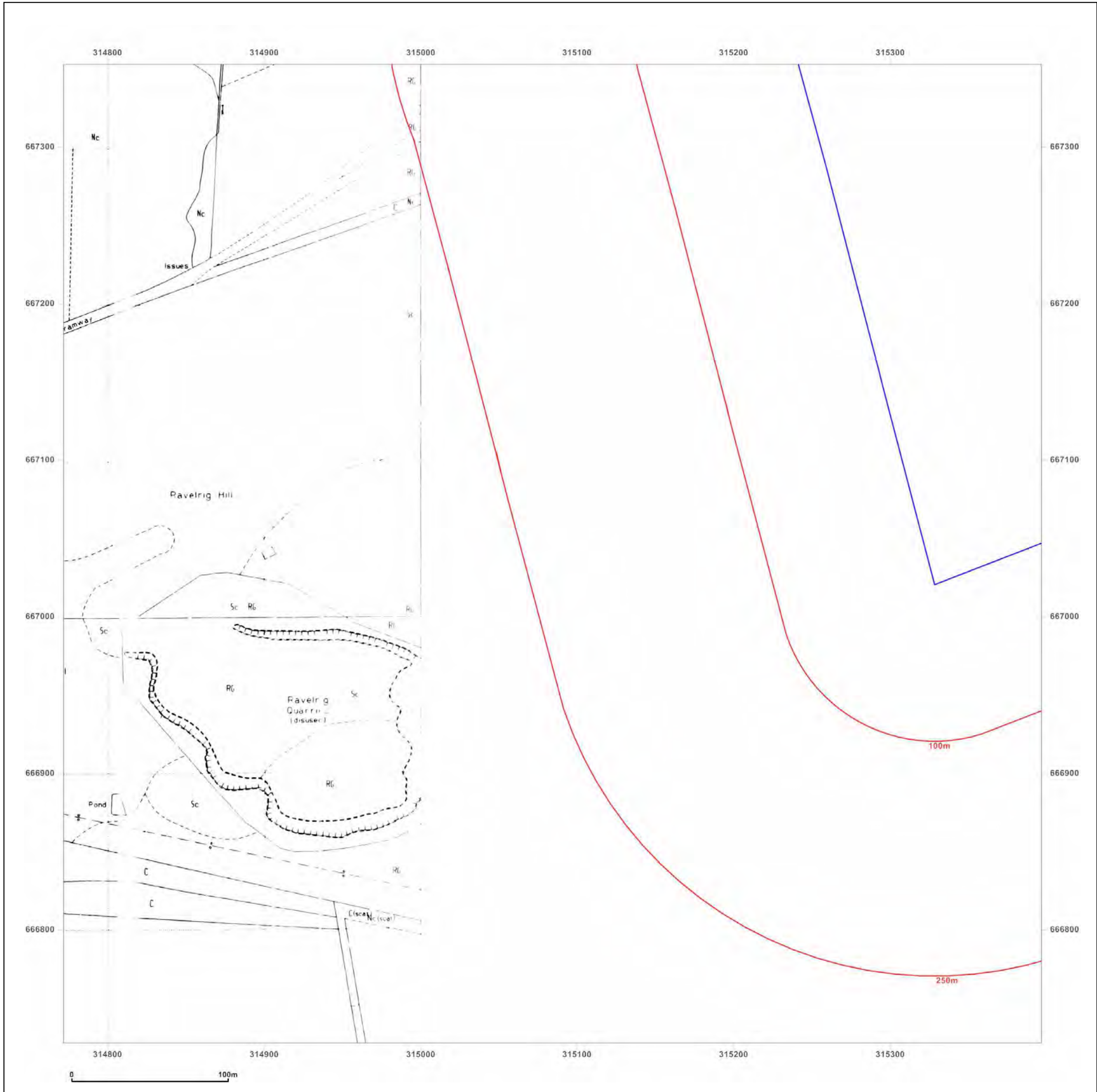


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Site Details:

RAVELRIG ROAD, BALERNO,
EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_1_2
Grid Ref: 315084, 667666

Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

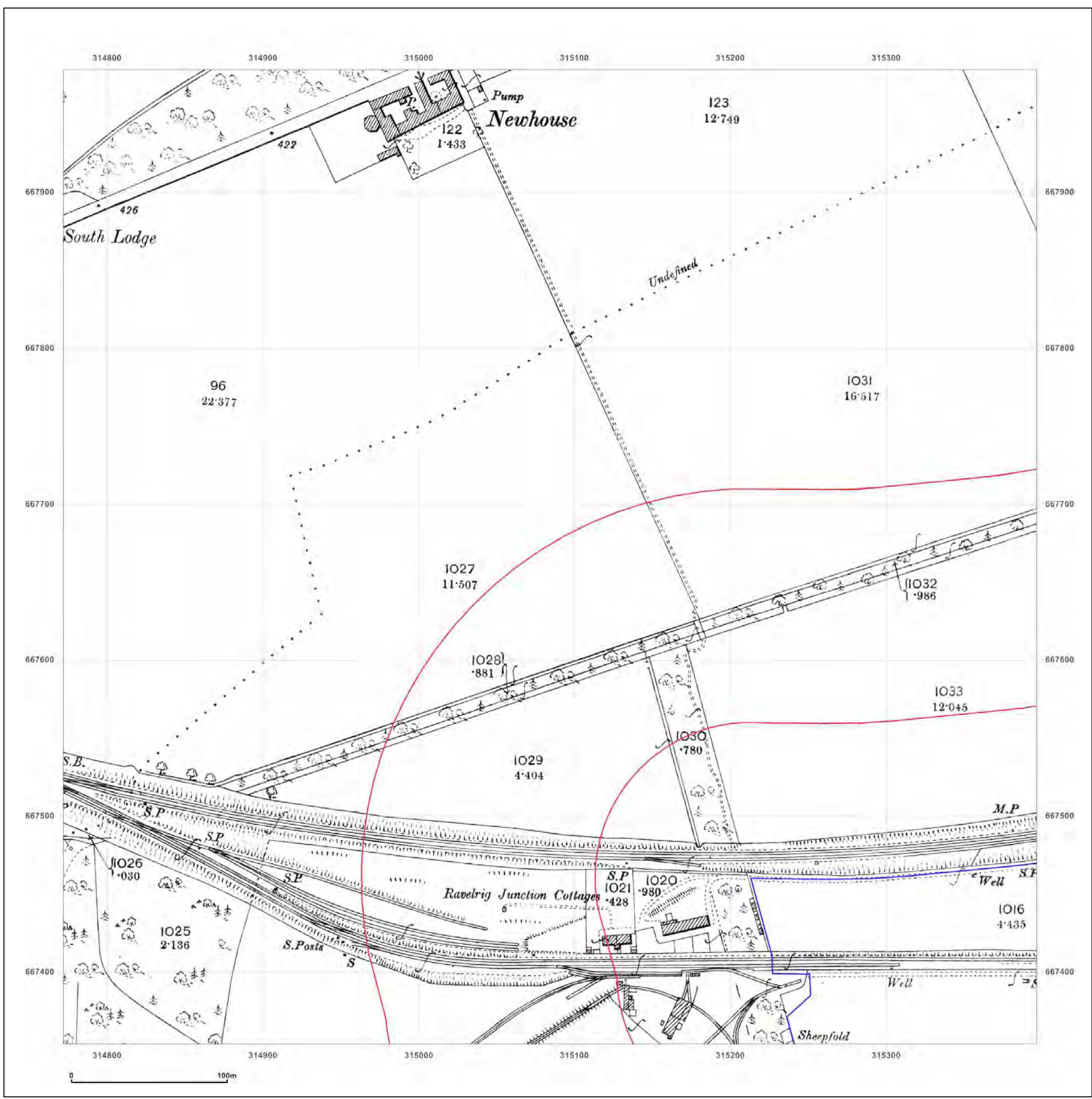


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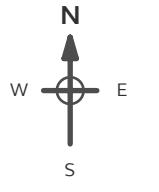
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Report Ref: GS-6449763_LS_1_2
Grid Ref: 315084, 667666

Map Name: County Series

Map date: 1906

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

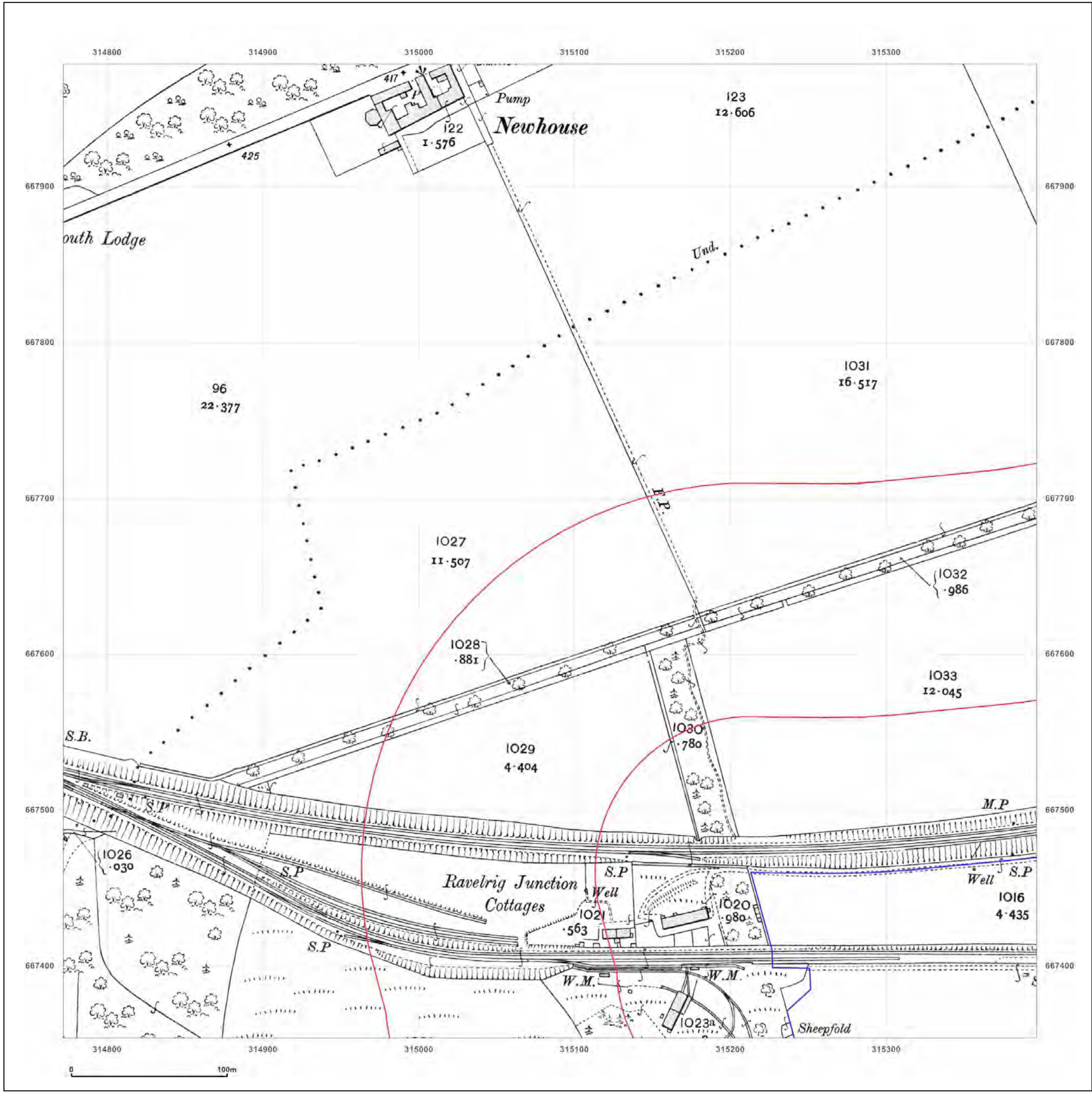


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Site Details:

RAVELRIG ROAD, BALERNO,
EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_1_2
Grid Ref: 315084, 667666

Map Name: County Series

Map date: 1912

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1912
Revised 1912
Edition N/A
Copyright N/A
Levelled N/A

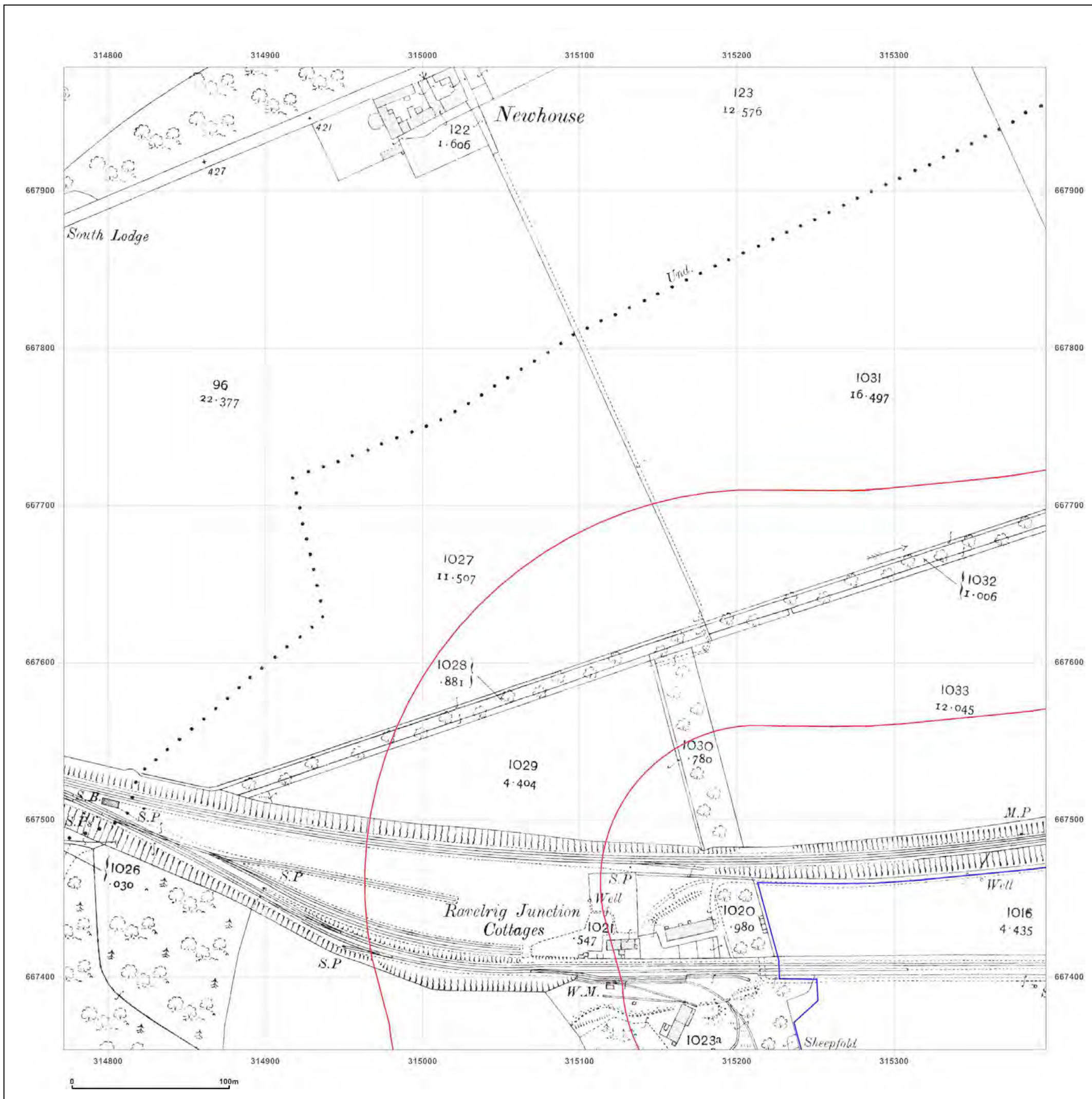


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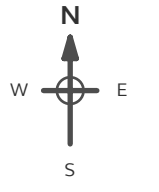
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Grid Ref: 315084, 667666

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1970
Revised 1970
Edition N/A
Copyright 1970
Levelled 1957

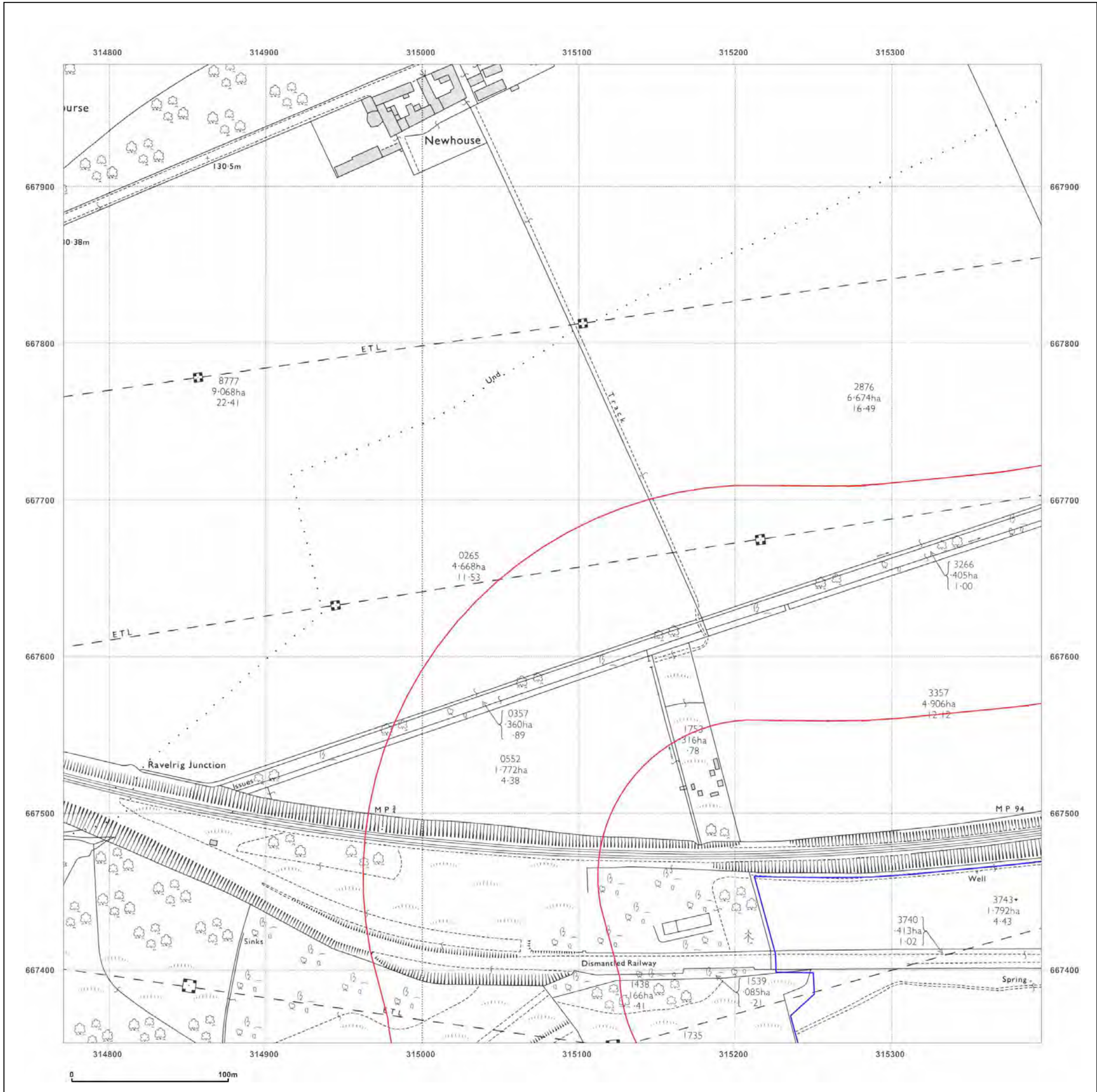


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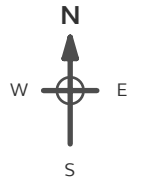
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Grid Ref: 315084, 667666

Map Name: National Grid

Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



<p>Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A</p>	<p>Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A</p>
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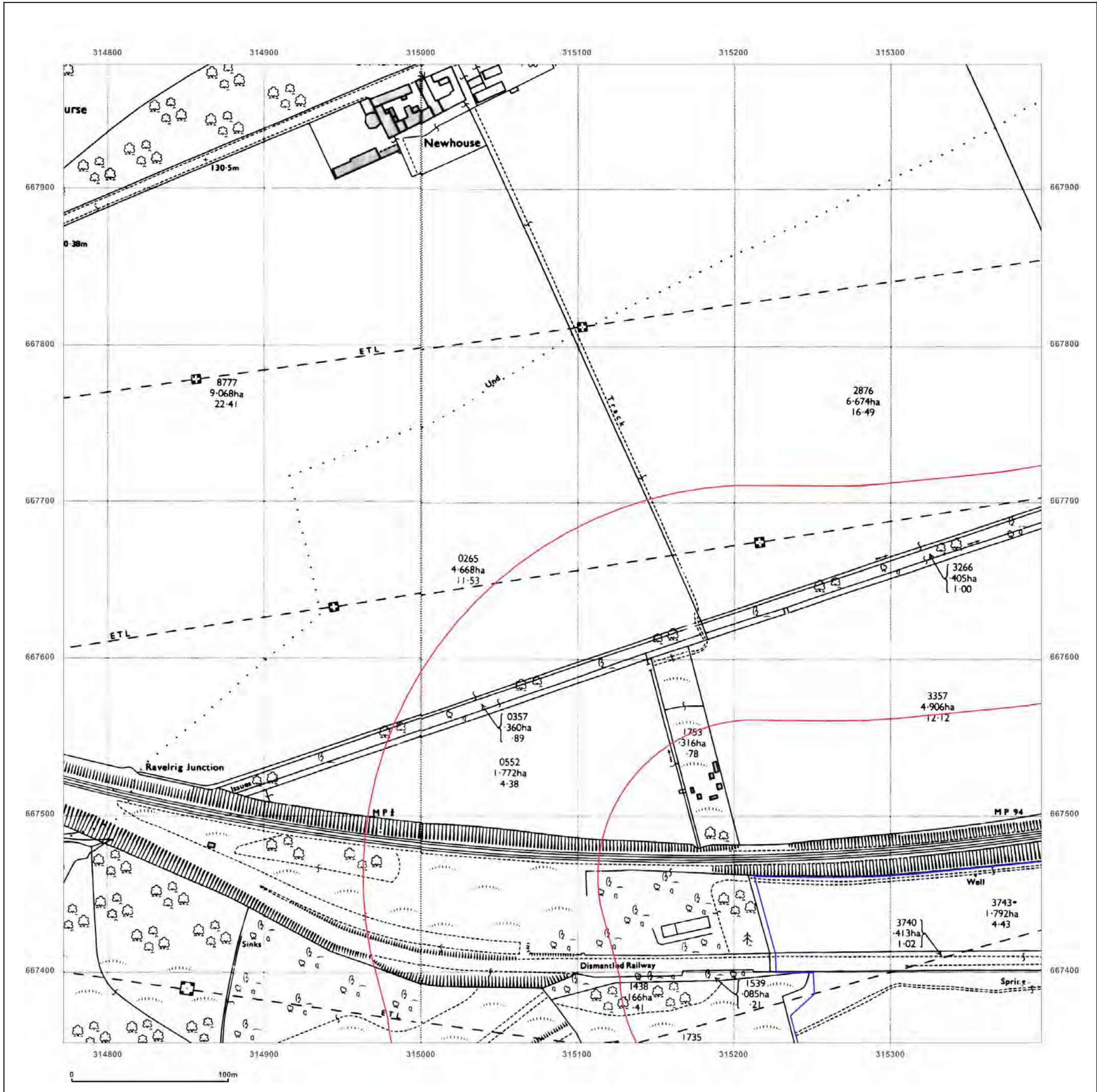


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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_1_2
Grid Ref: 315084, 667666

Map Name: National Grid

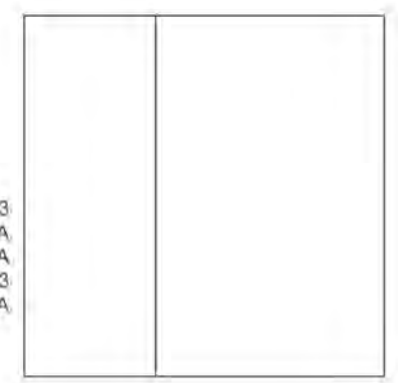
Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

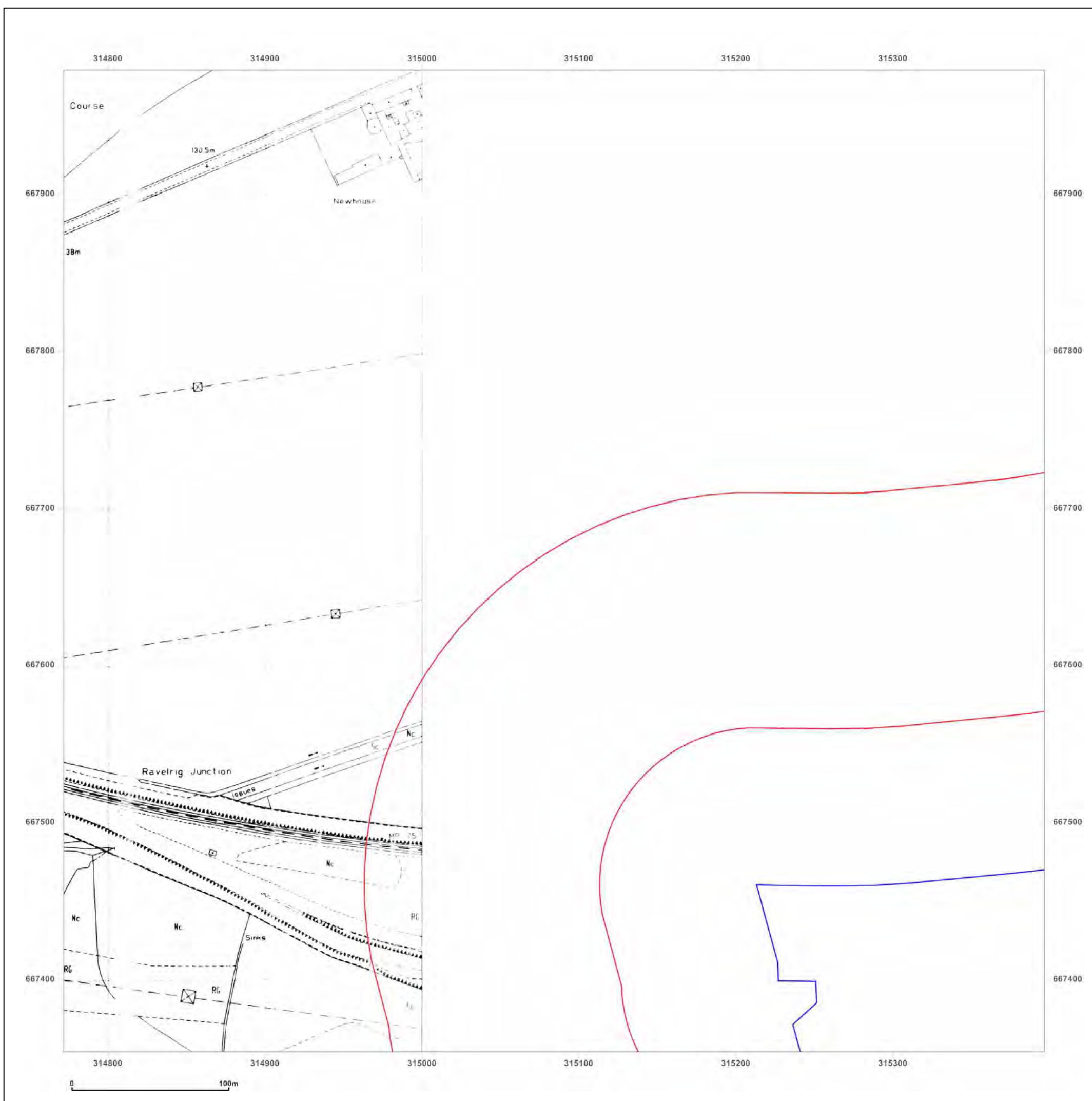


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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_2_1
Grid Ref: 315709, 667040

Map Name: County Series

Map date: 1892-1895

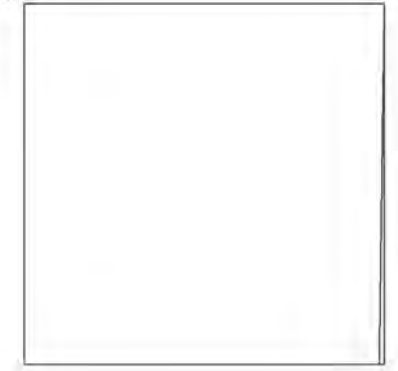
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised N/A
Edition 1895
Copyright N/A
Levelled N/A

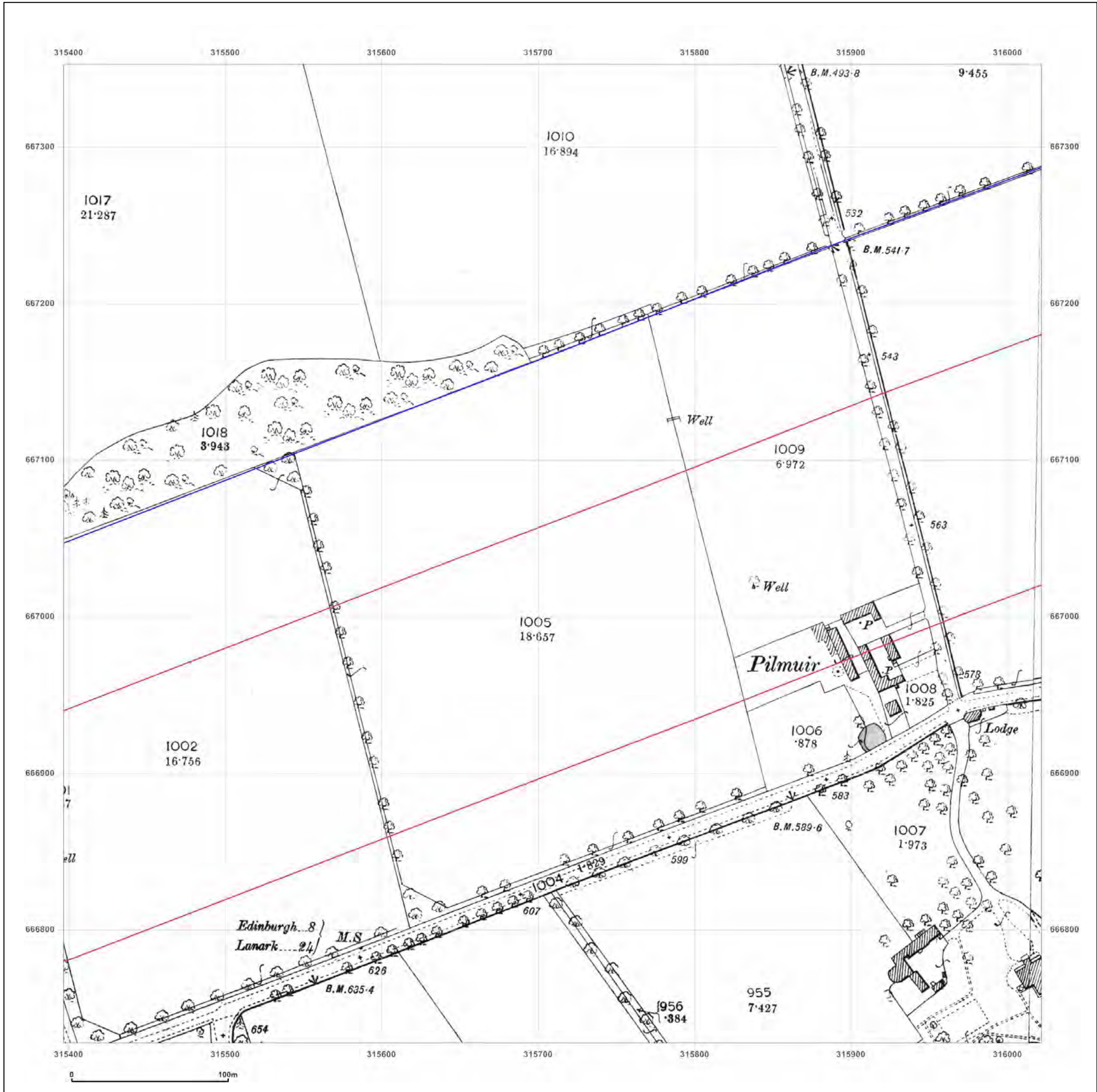


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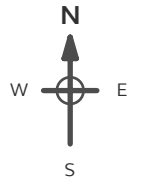


Site Details:

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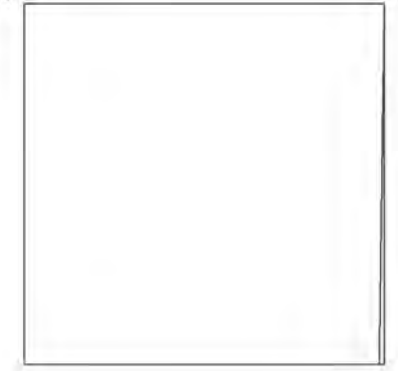
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Grid Ref: 315709, 667040

Map Name: County Series
Map date: 1906-1907
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1905
Edition 1907
Copyright N/A
Levelled N/A

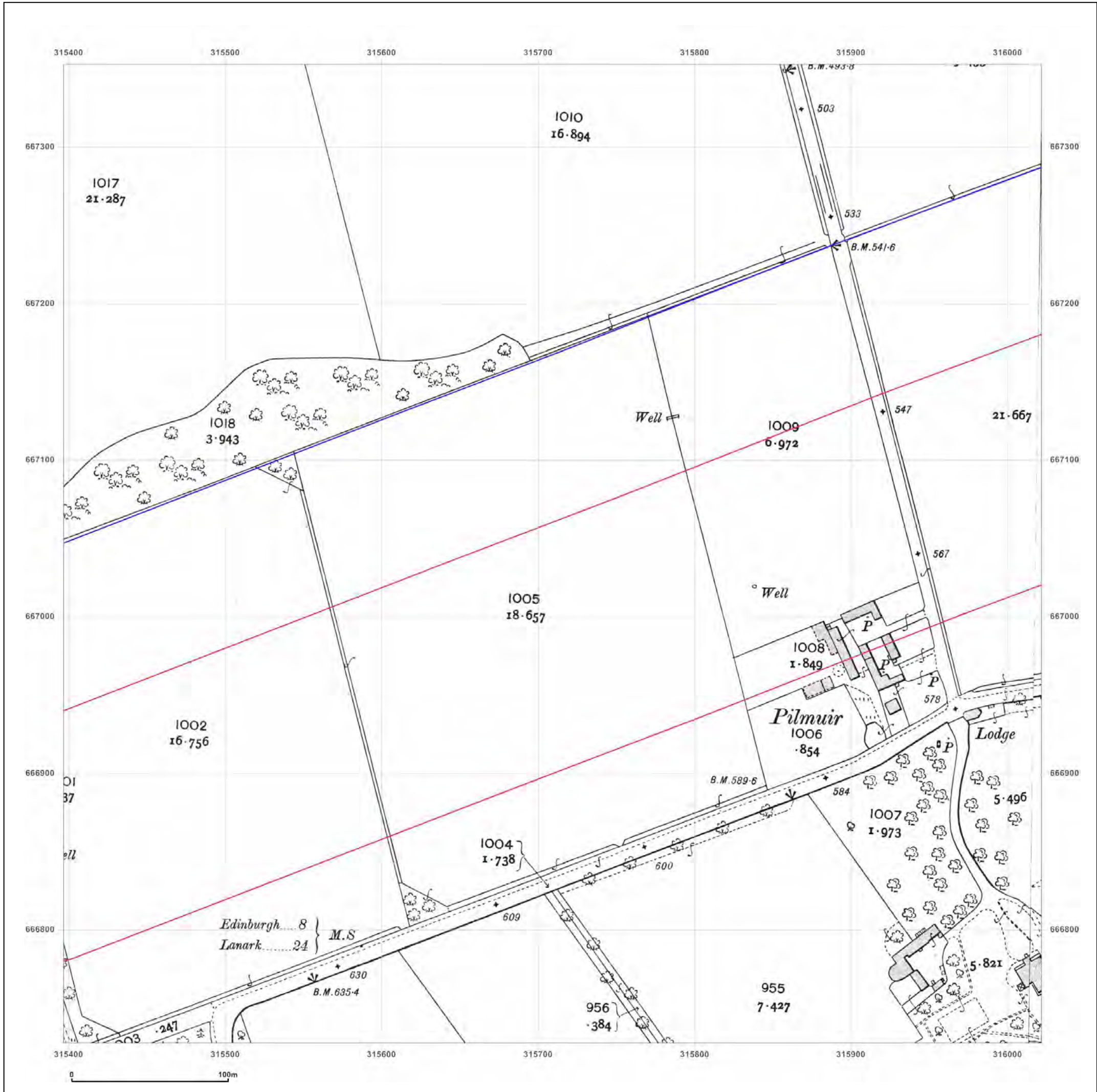


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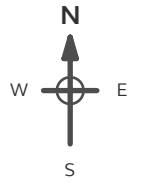
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Site Details:
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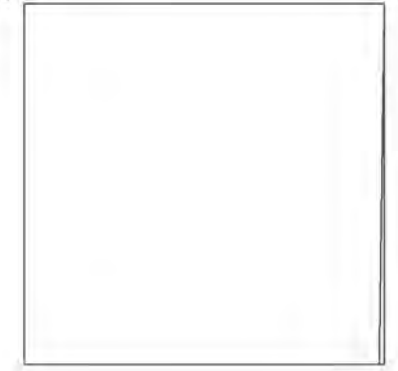
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Grid Ref: 315709, 667040

Map Name: County Series
Map date: 1912-1913
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1912
Revised 1912
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1912
Edition 1913
Copyright N/A
Levelled 1913

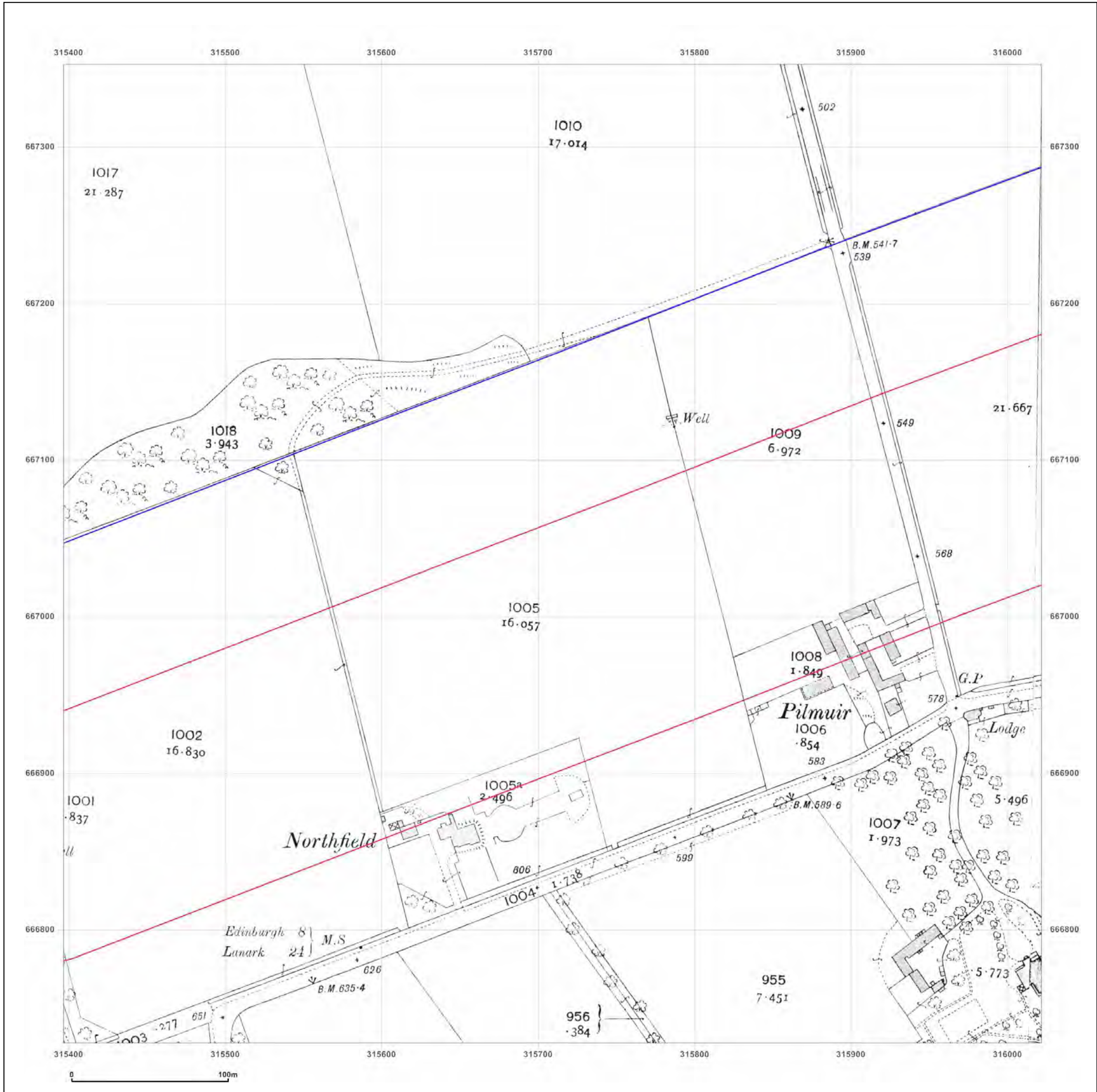


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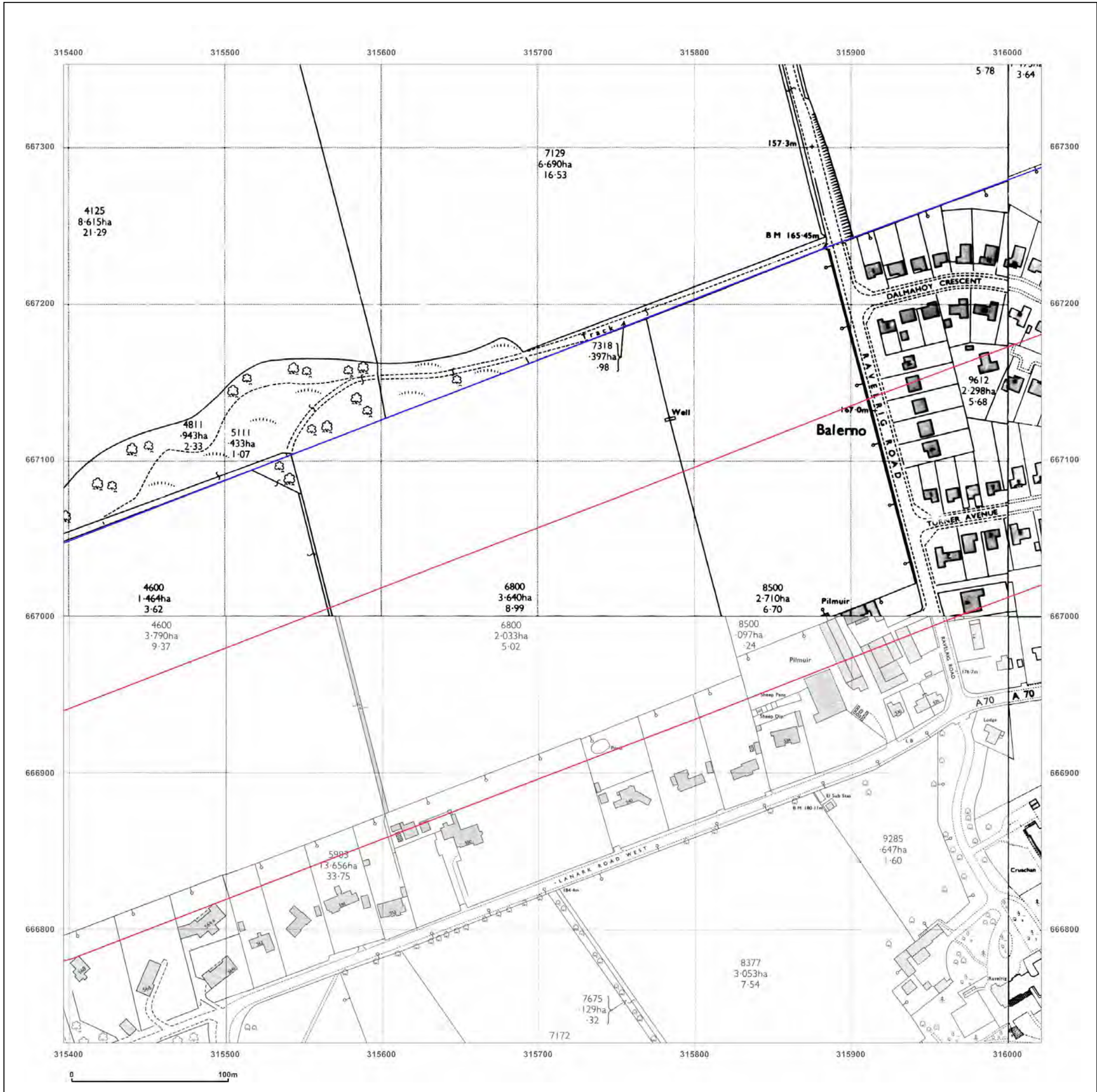
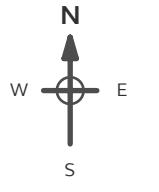
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Map Name: National Grid

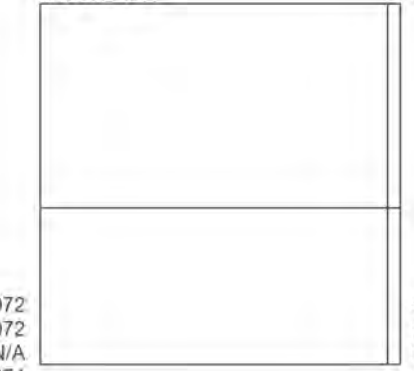
Map date: 1971-1972

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1972
Revised 1972
Edition N/A
Copyright 1974
Levelled 1957

Surveyed N/A
Revised N/A
Edition N/A
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EH14

Client Ref: 13582
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Grid Ref: 315709, 667040

Map Name: National Grid

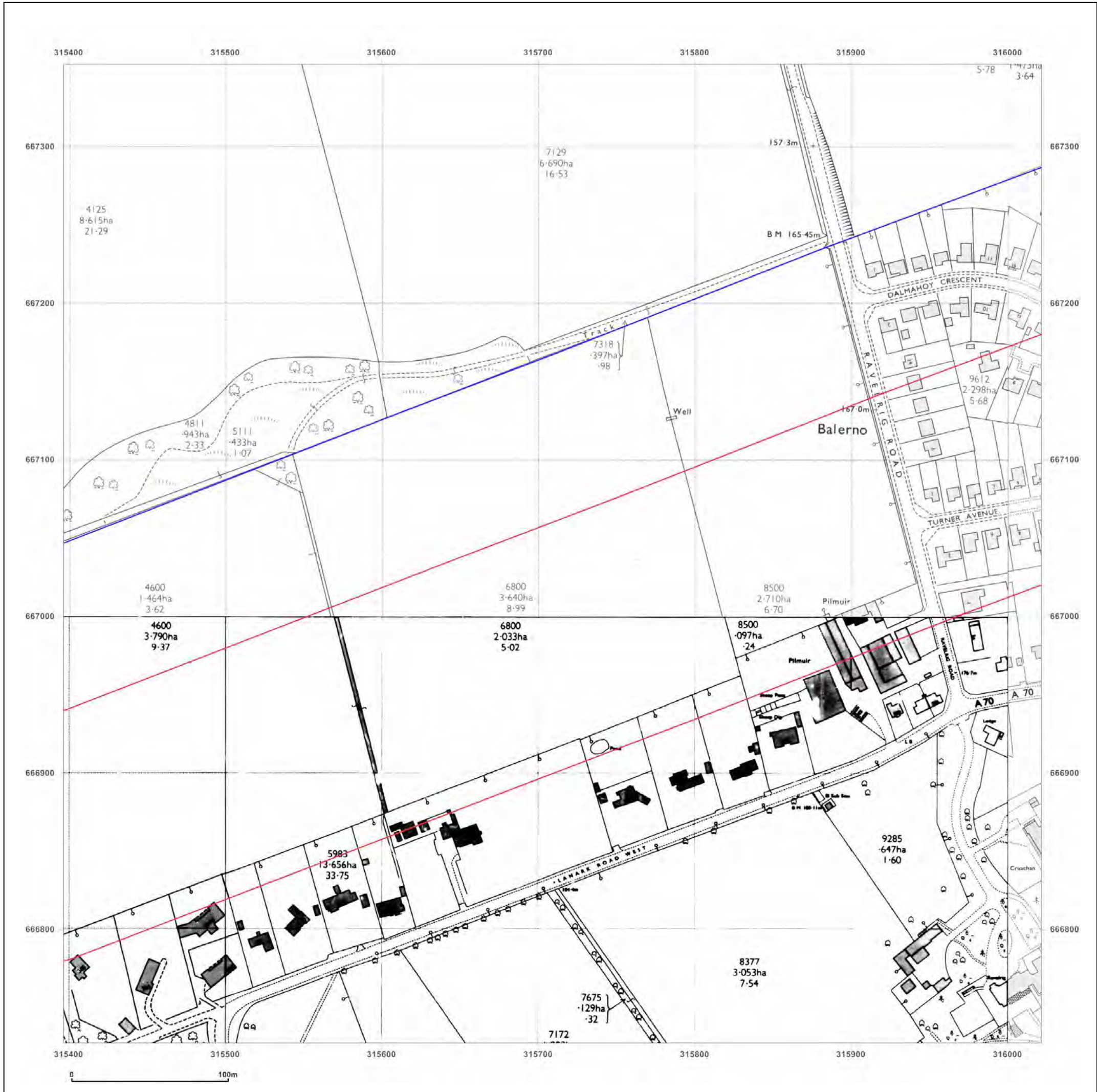
Map date: 1970-1974

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1970 Revised 1970 Edition N/A Copyright 1972 Levelled 1957



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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_2_2
Grid Ref: 315709, 667666

Map Name: County Series

Map date: 1892

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

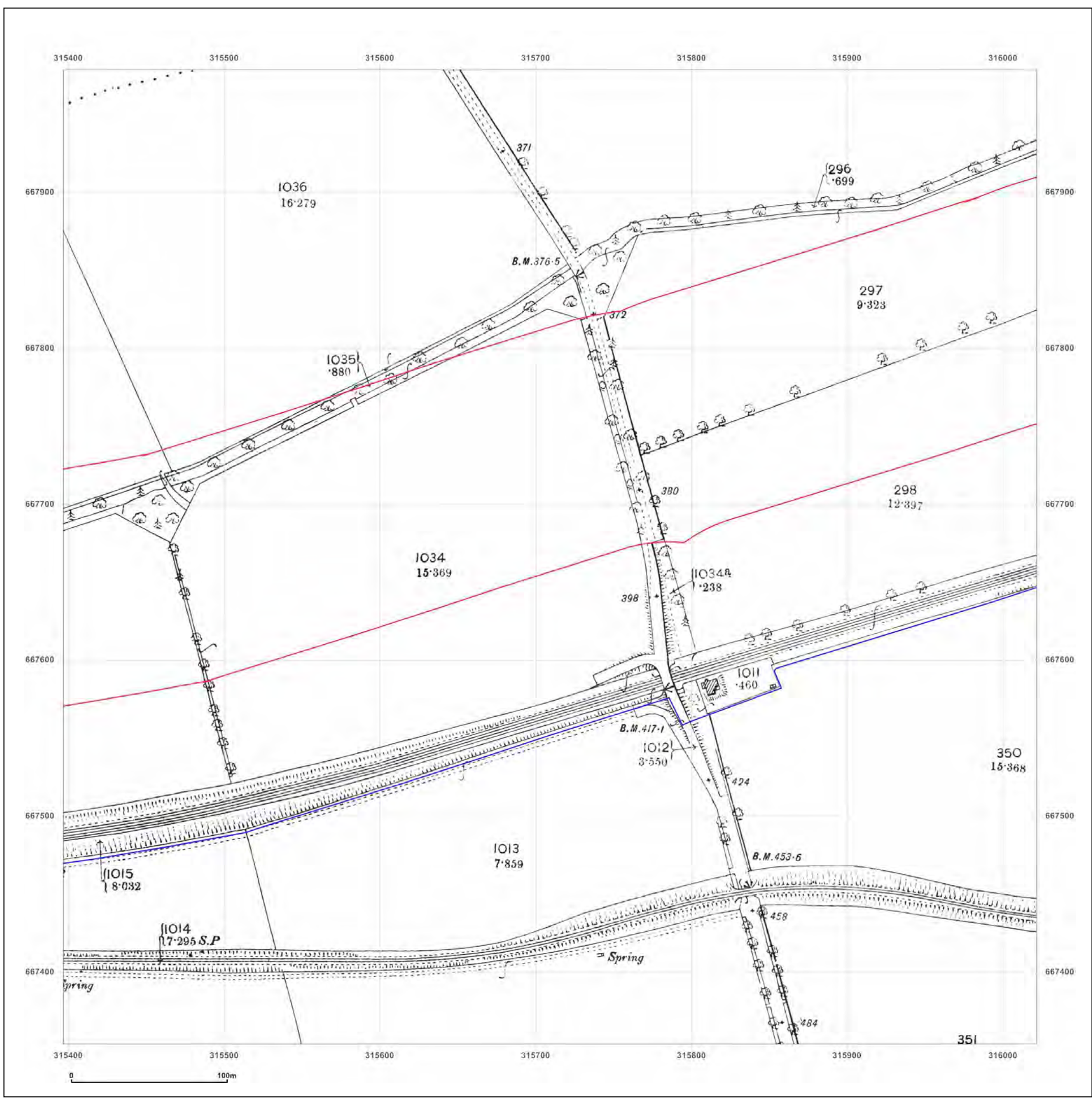


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EH14

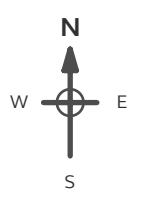
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Grid Ref: 315709, 667666

Map Name: County Series

Map date: 1906

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

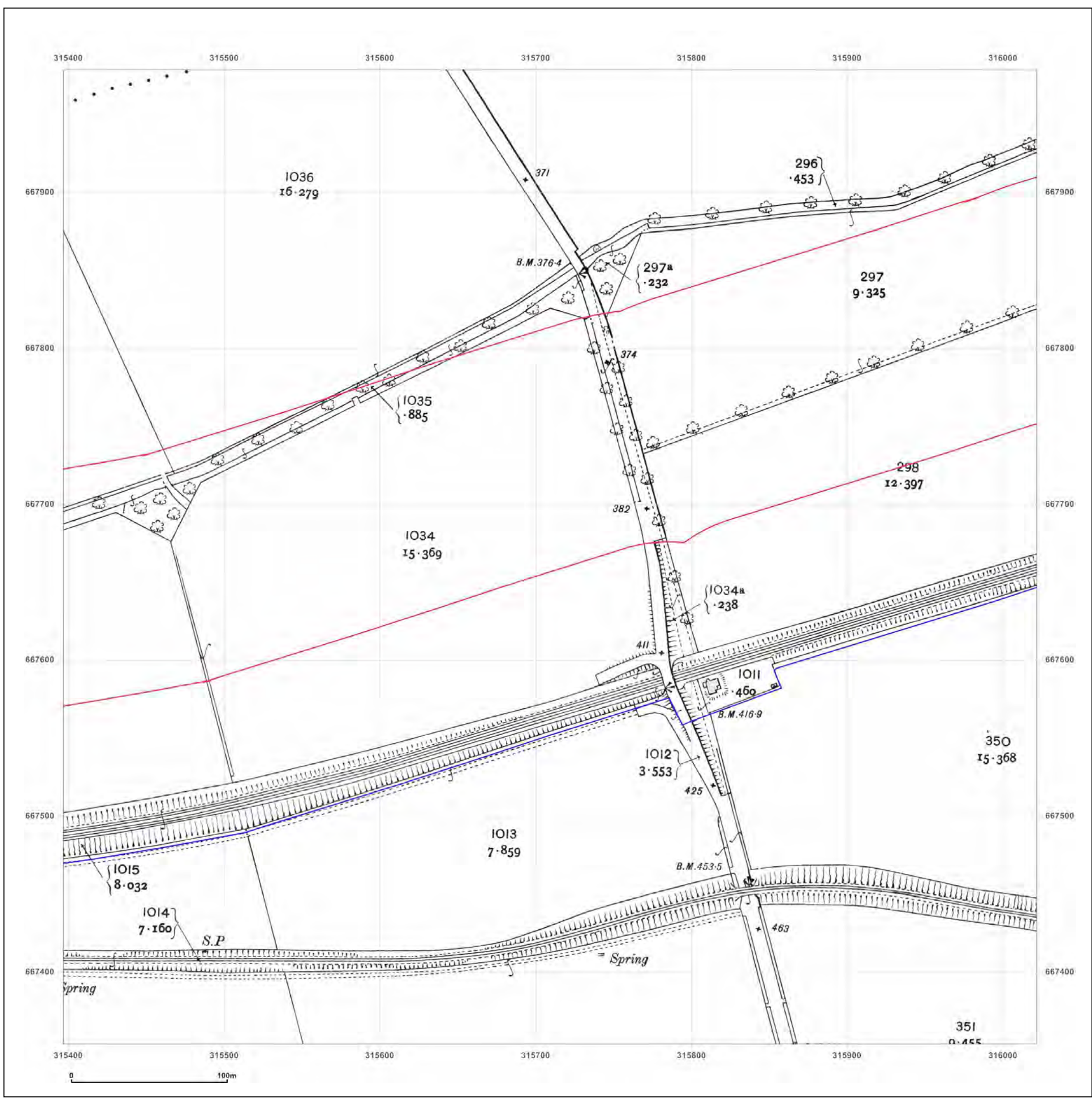


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Site Details:

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Client Ref: 13582
 Report Ref: GS-6449763_LS_2_2
 Grid Ref: 315709, 667666

Map Name: County Series

Map date: 1912

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1912
 Revised 1912
 Edition N/A
 Copyright N/A
 Levelled N/A

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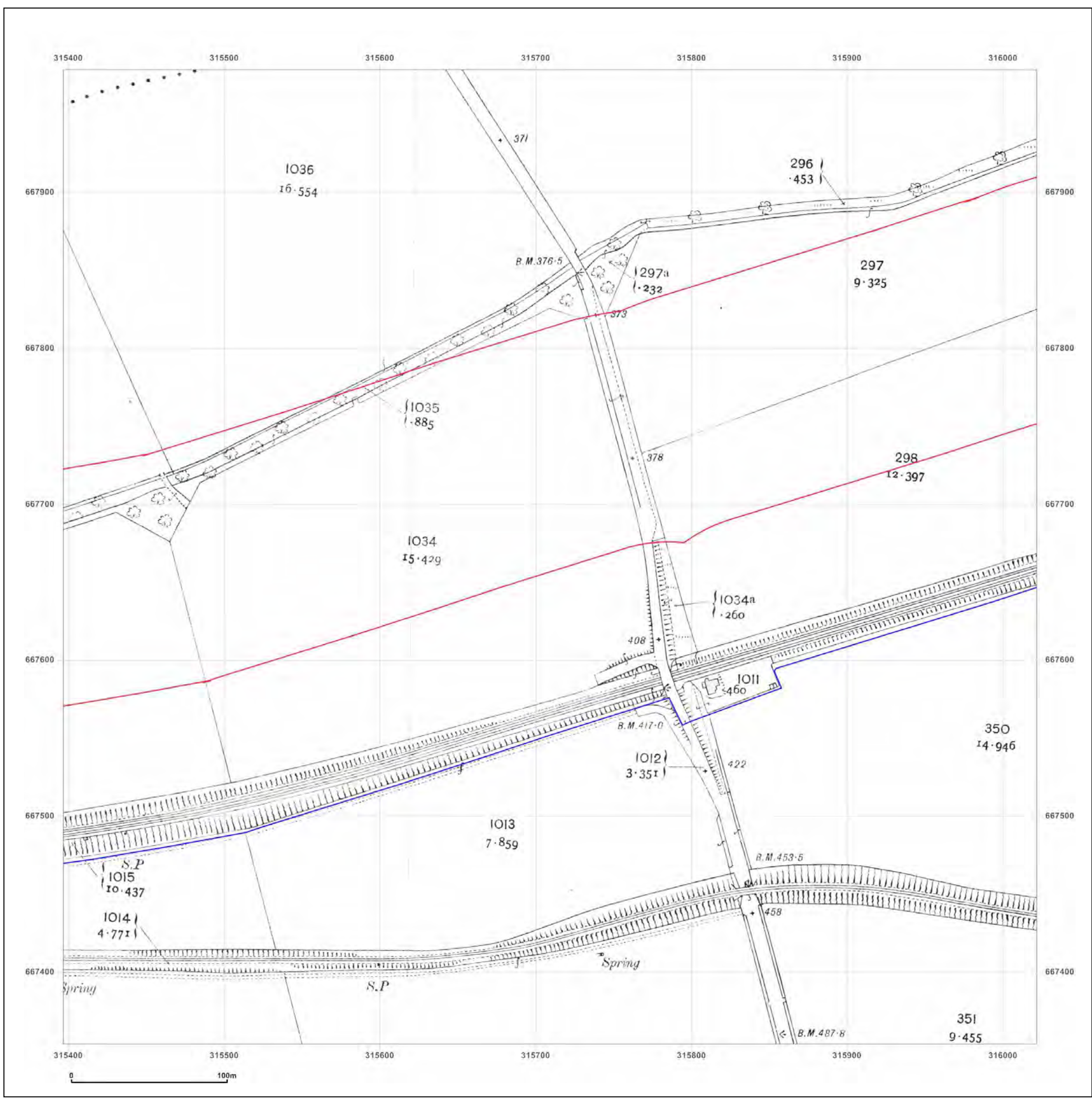


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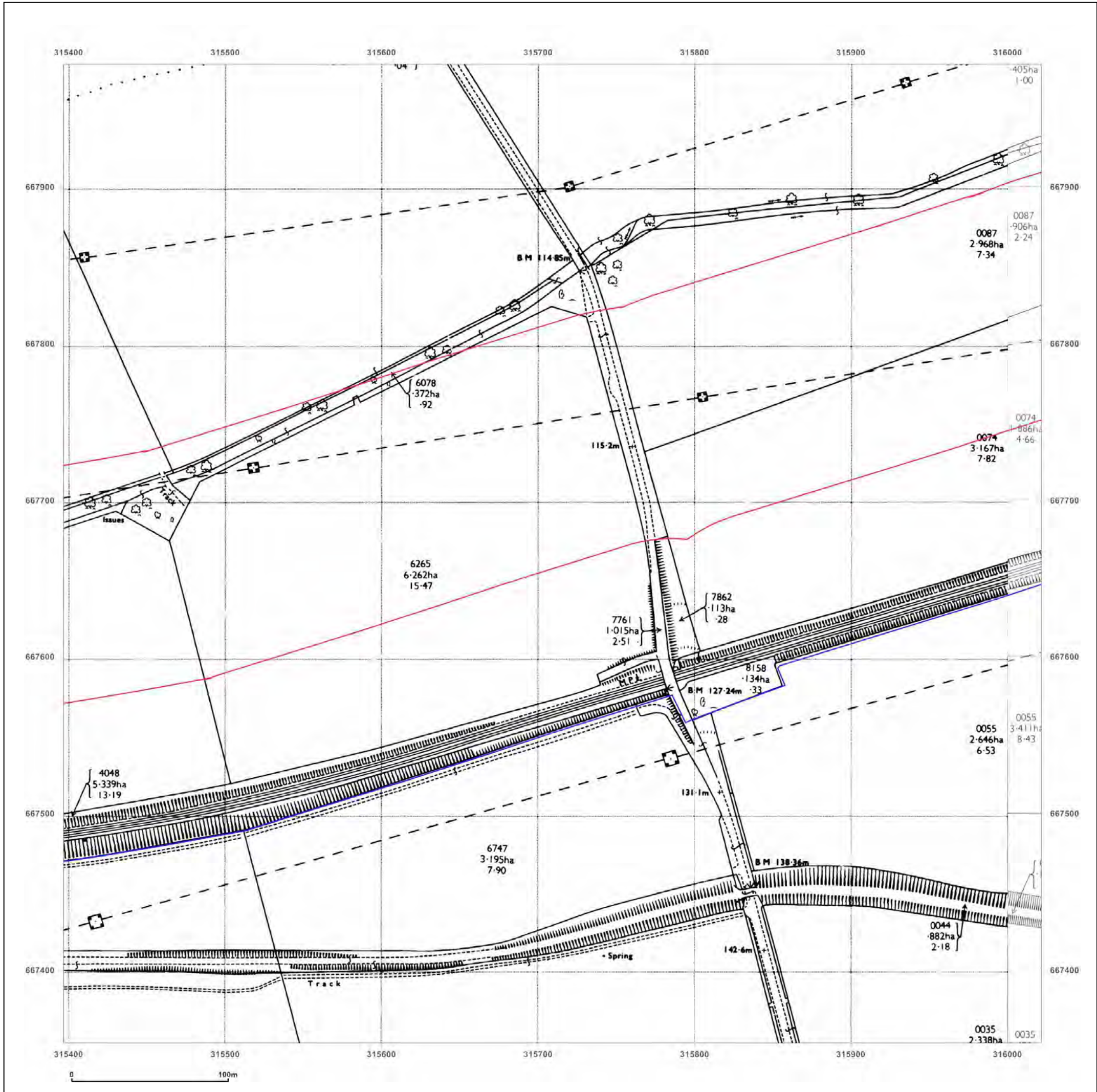
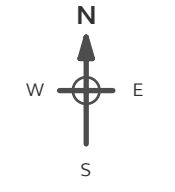
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Grid Ref: 315709, 667666

Map Name: National Grid

Map date: 1970-1971

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1969 Revised 1970 Edition N/A Copyright 1972 Levelled 1957
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EH14

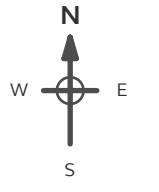
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Grid Ref: 315709, 667666

Map Name: National Grid

Map date: 1970-1972

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1970
Revised 1970
Edition N/A
Copyright 1970
Levelled 1957

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

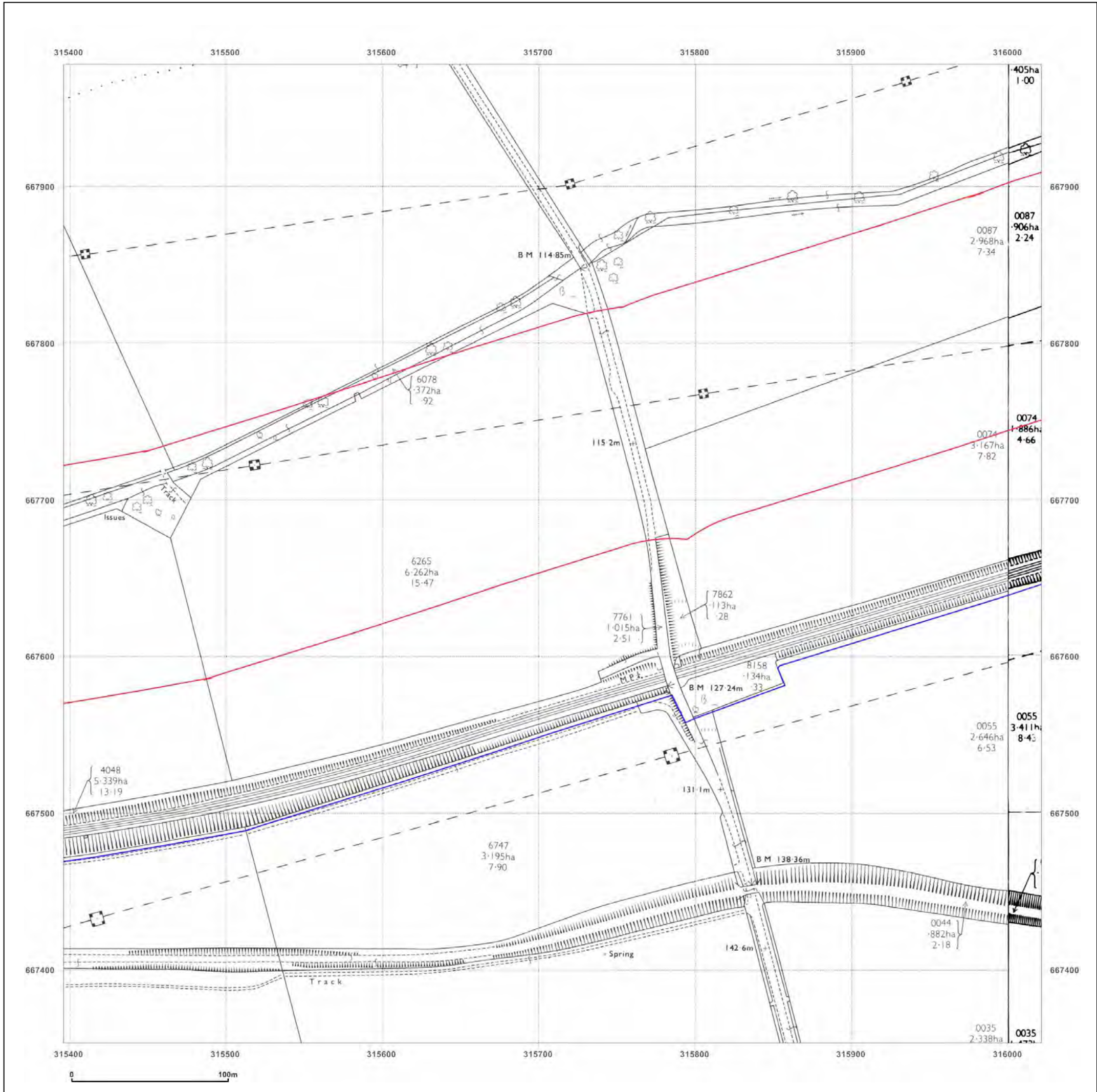


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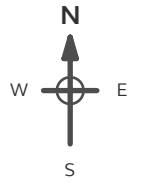
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www.groundsure.com/sites/default/files/groundsure_legend.pdf



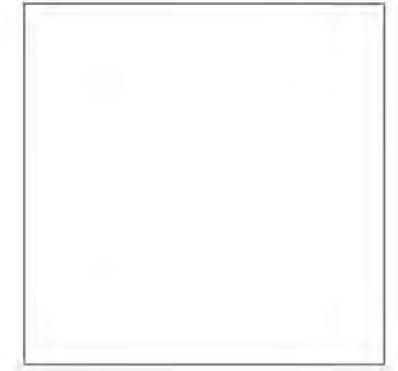
Site Details:
 RAVELRIG ROAD, BALERNO,
 EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_3_1
Grid Ref: 316335, 667040

Map Name: County Series
Map date: 1895
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1893
 Revised N/A
 Edition 1895
 Copyright N/A
 Levelled N/A

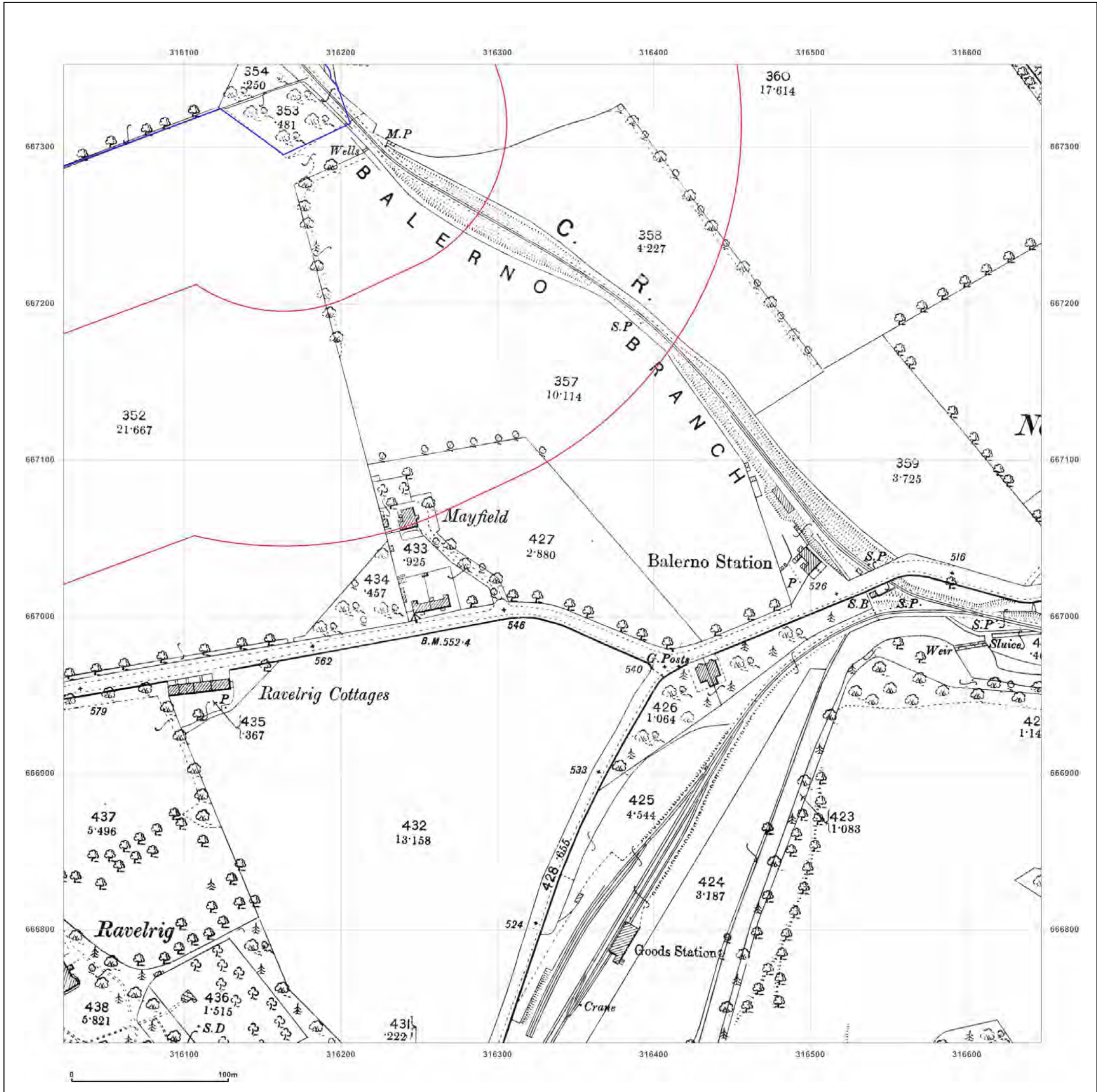


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EH14

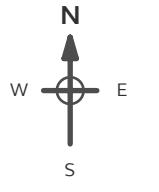
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Report Ref: GS-6449763_LS_3_1
Grid Ref: 316335, 667040

Map Name: County Series

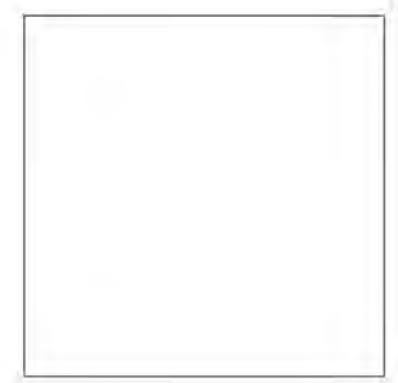
Map date: 1907

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised 1905
Edition 1907
Copyright N/A
Levelled N/A

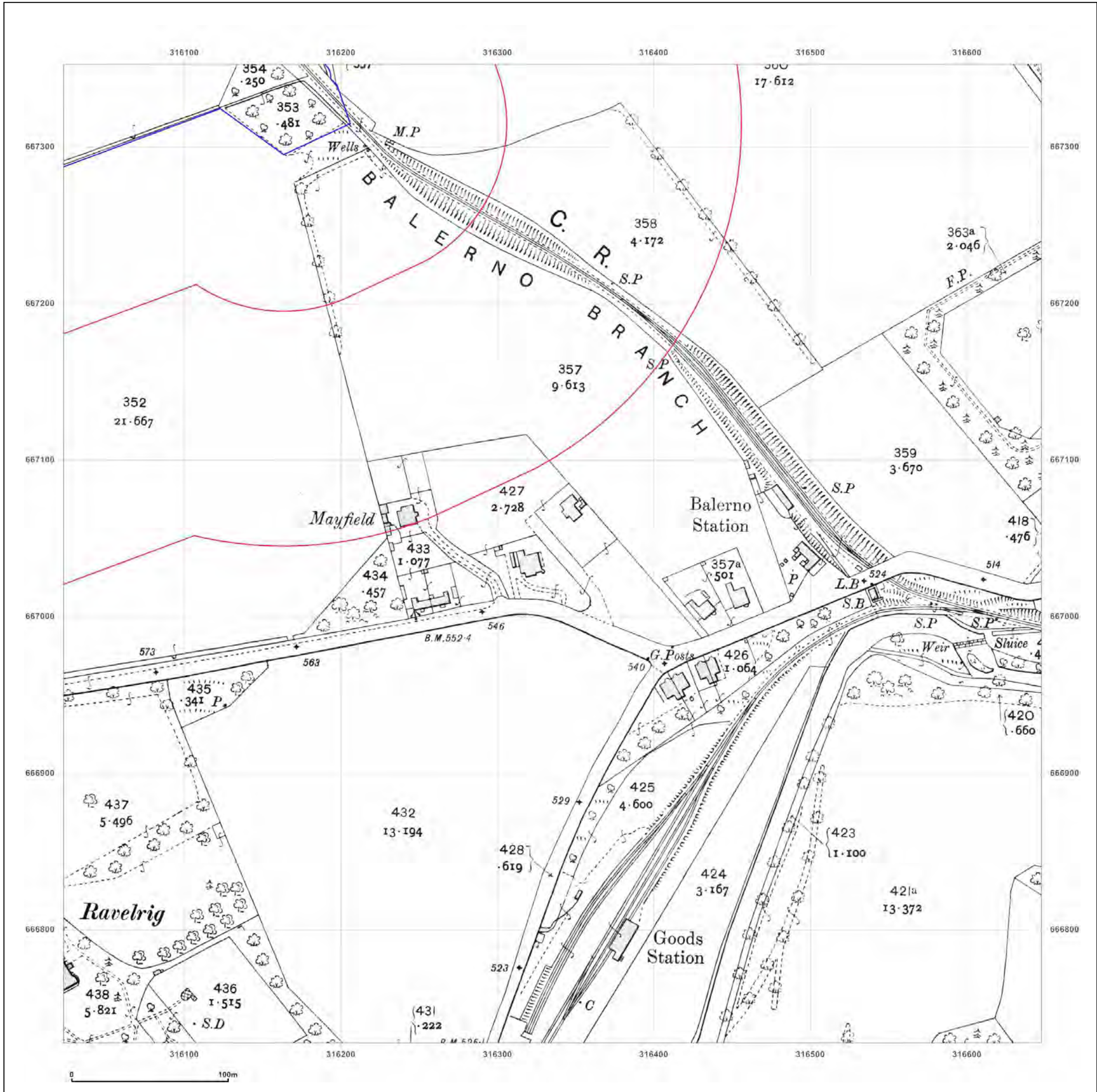


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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_3_1
Grid Ref: 316335, 667040

Map Name: County Series

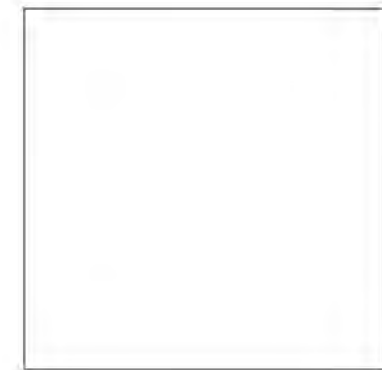
Map date: 1913

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised 1912
Edition 1913
Copyright N/A
Levelled 1913

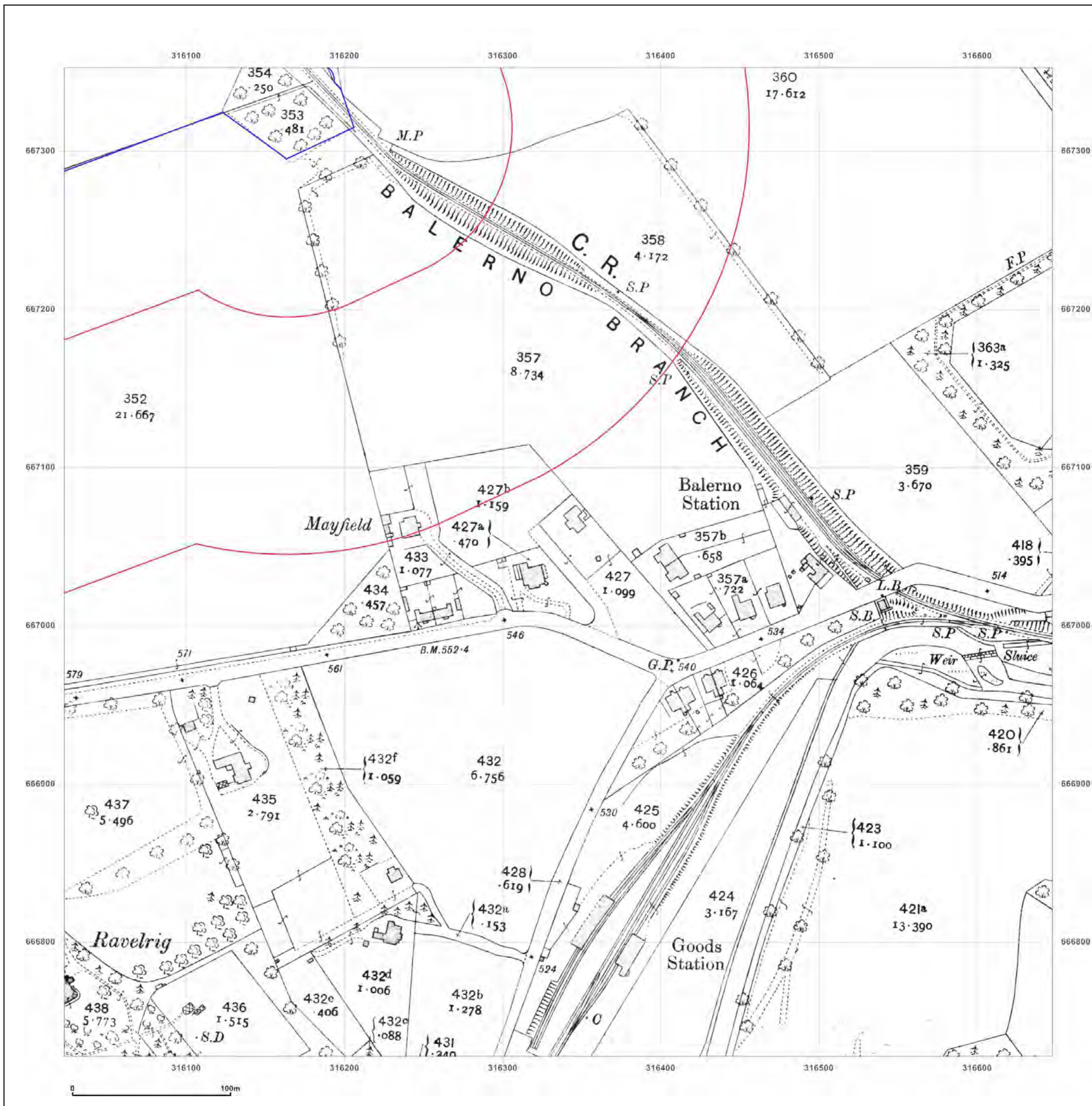


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Site Details:

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EH14

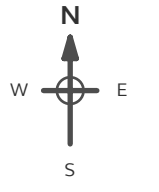
Client Ref: 13582
Report Ref: GS-6449763_LS_3_1
Grid Ref: 316335, 667040

Map Name: National Grid

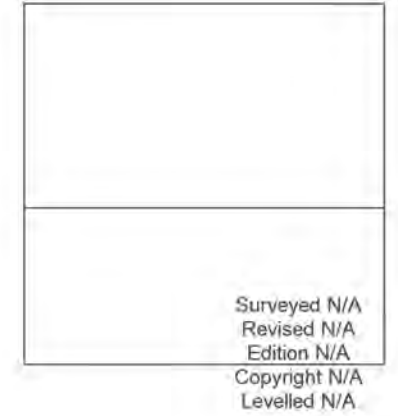
Map date: 1970-1972

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
Revised 1970
Edition N/A
Copyright 1972
Levelled 1957



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

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EH14

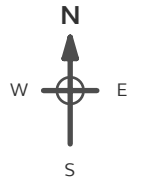
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Report Ref: GS-6449763_LS_3_1
Grid Ref: 316335, 667040

Map Name: National Grid

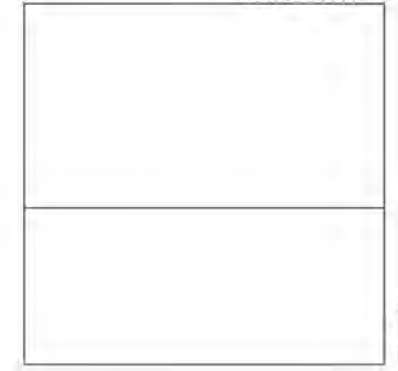
Map date: 1970-1972

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1970
Revised 1970
Edition N/A
Copyright 1972
Levelled 1957



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Production date: 08 November 2019

Map legend available at:
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Site Details:

RAVELRIG ROAD, BALERNO,
EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_3_2
Grid Ref: 316335, 667666

Map Name: County Series

Map date: 1892-1895

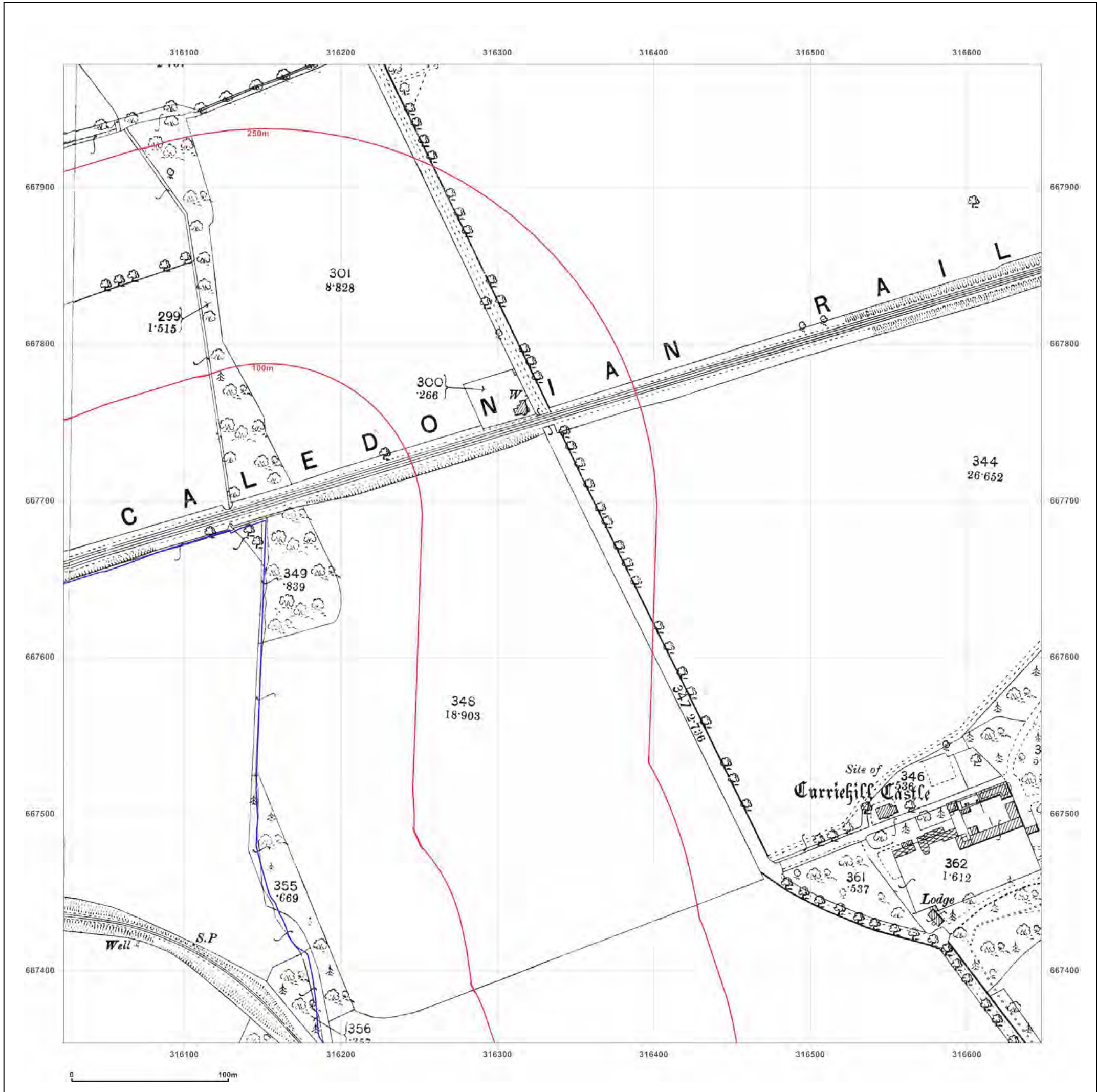
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised N/A
Edition 1895
Copyright N/A
Levelled N/A



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Site Details:

RAVELRIG ROAD, BALERNO,
EH14

Client Ref: 13582
Report Ref: GS-6449763_LS_3_2
Grid Ref: 316335, 667666

Map Name: County Series

Map date: 1906-1907

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1905
Edition 1907
Copyright N/A
Levelled N/A

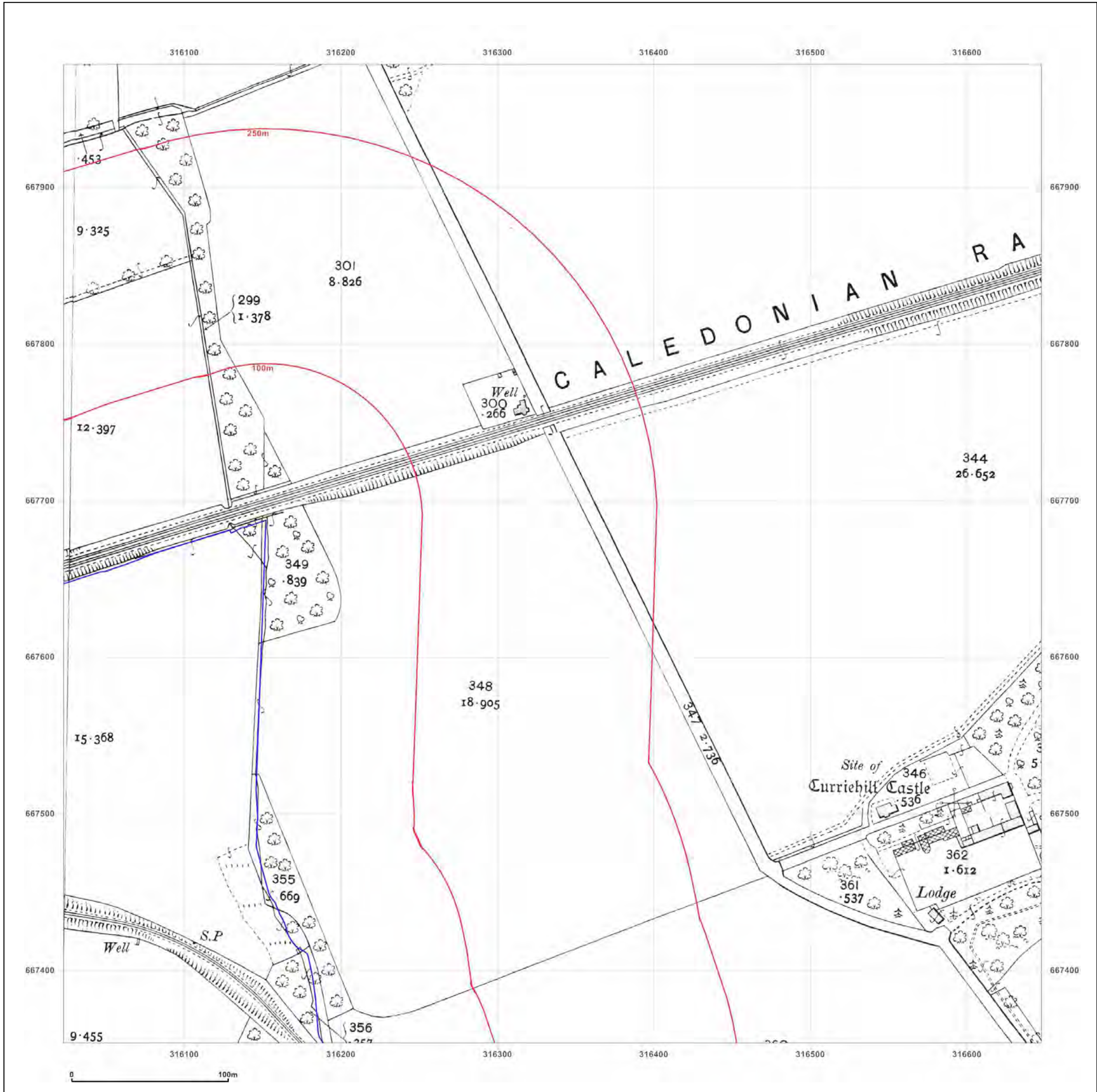


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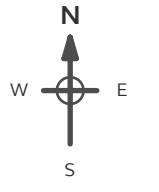
Client Ref: 13582
Report Ref: GS-6449763_LS_3_2
Grid Ref: 316335, 667666

Map Name: County Series

Map date: 1912-1913

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1912
Revised 1912
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1912
Edition 1913
Copyright N/A
Levelled 1913

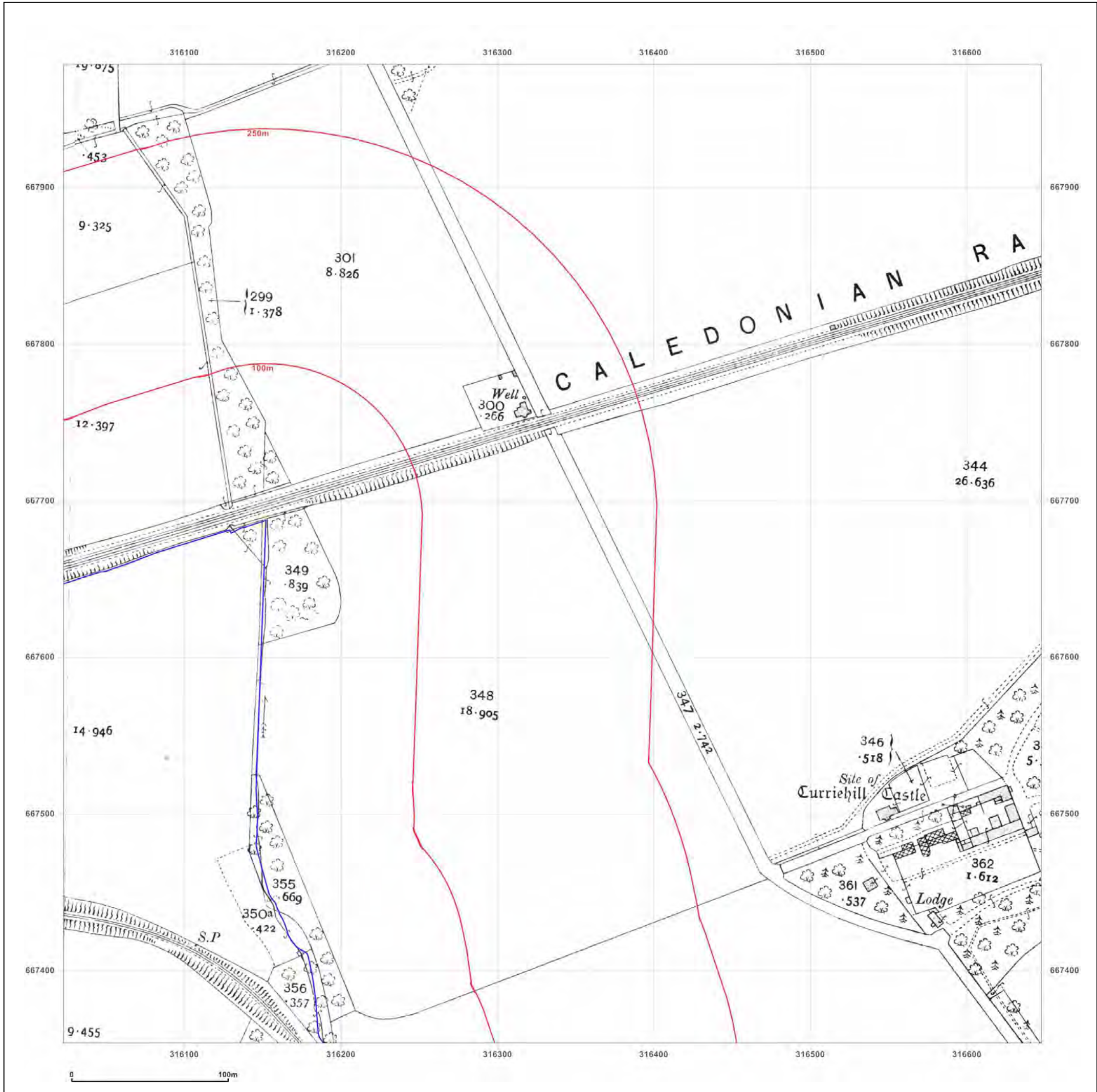


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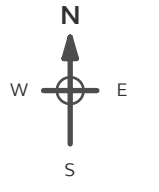
Client Ref: 13582
Report Ref: GS-6449763_LS_3_2
Grid Ref: 316335, 667666

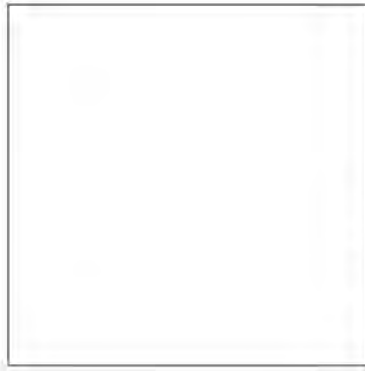
Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500





Surveyed 1969
Revised 1970
Edition N/A
Copyright 1972
Levelled 1957

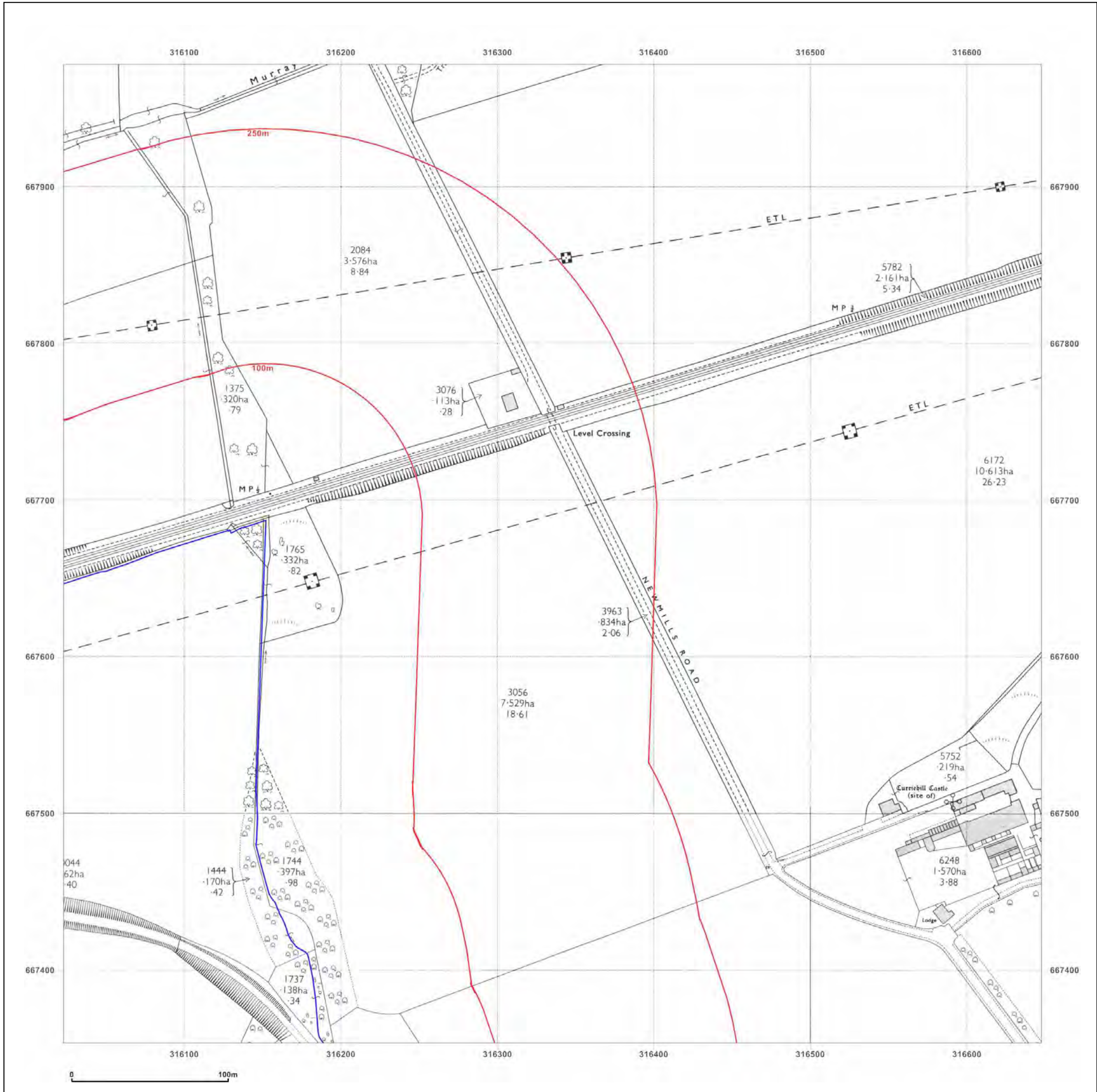


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Site Details:

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EH14

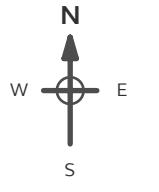
Client Ref: 13582
Report Ref: GS-6449763_LS_3_2
Grid Ref: 316335, 667666

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

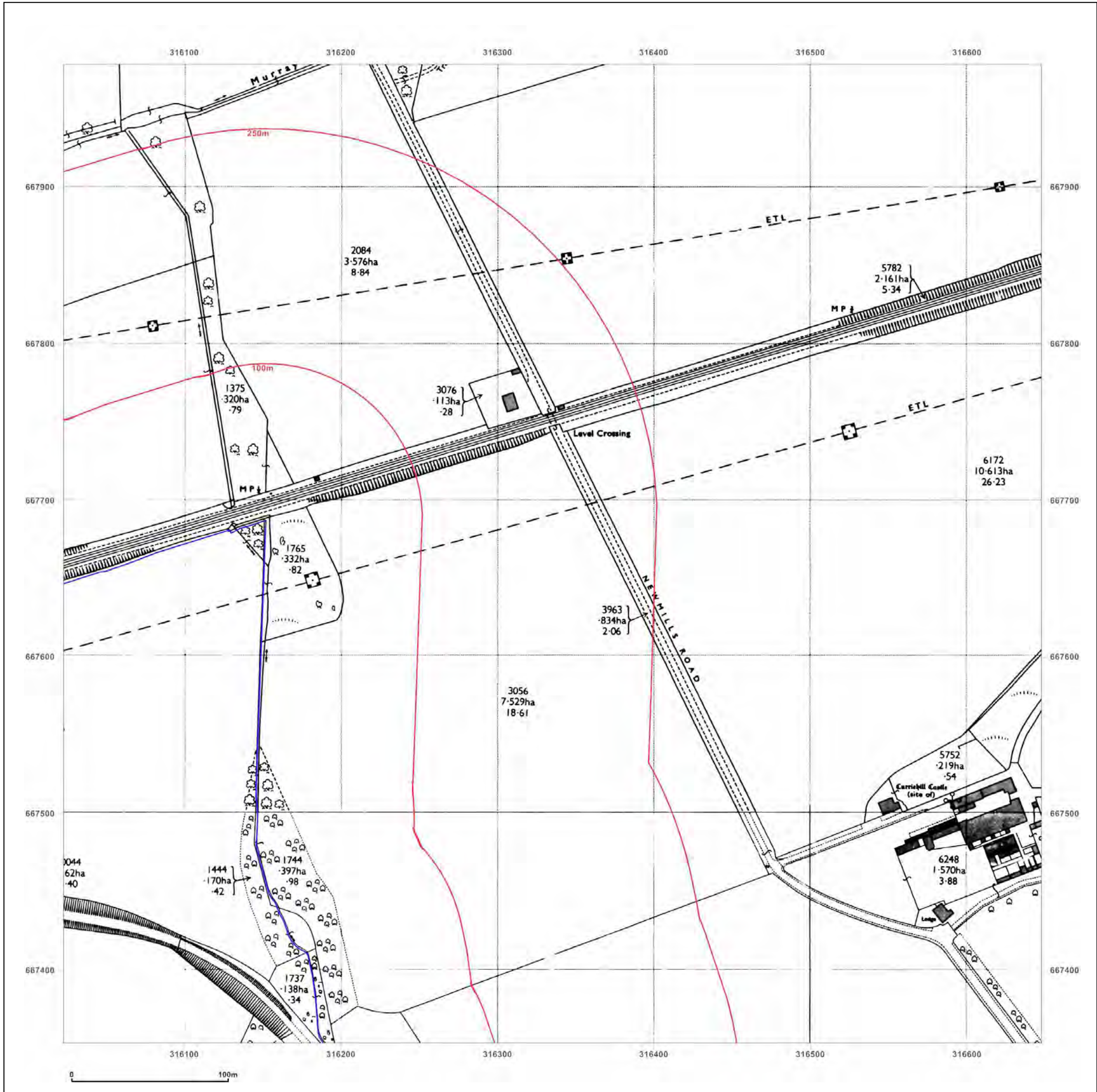


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Production date: 08 November 2019

Map legend available at:
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Site Details:

RAVELRIG ROAD, BALERNO,
EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: County Series

Map date: 1852-1855

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1852
Revised N/A
Edition 1855
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

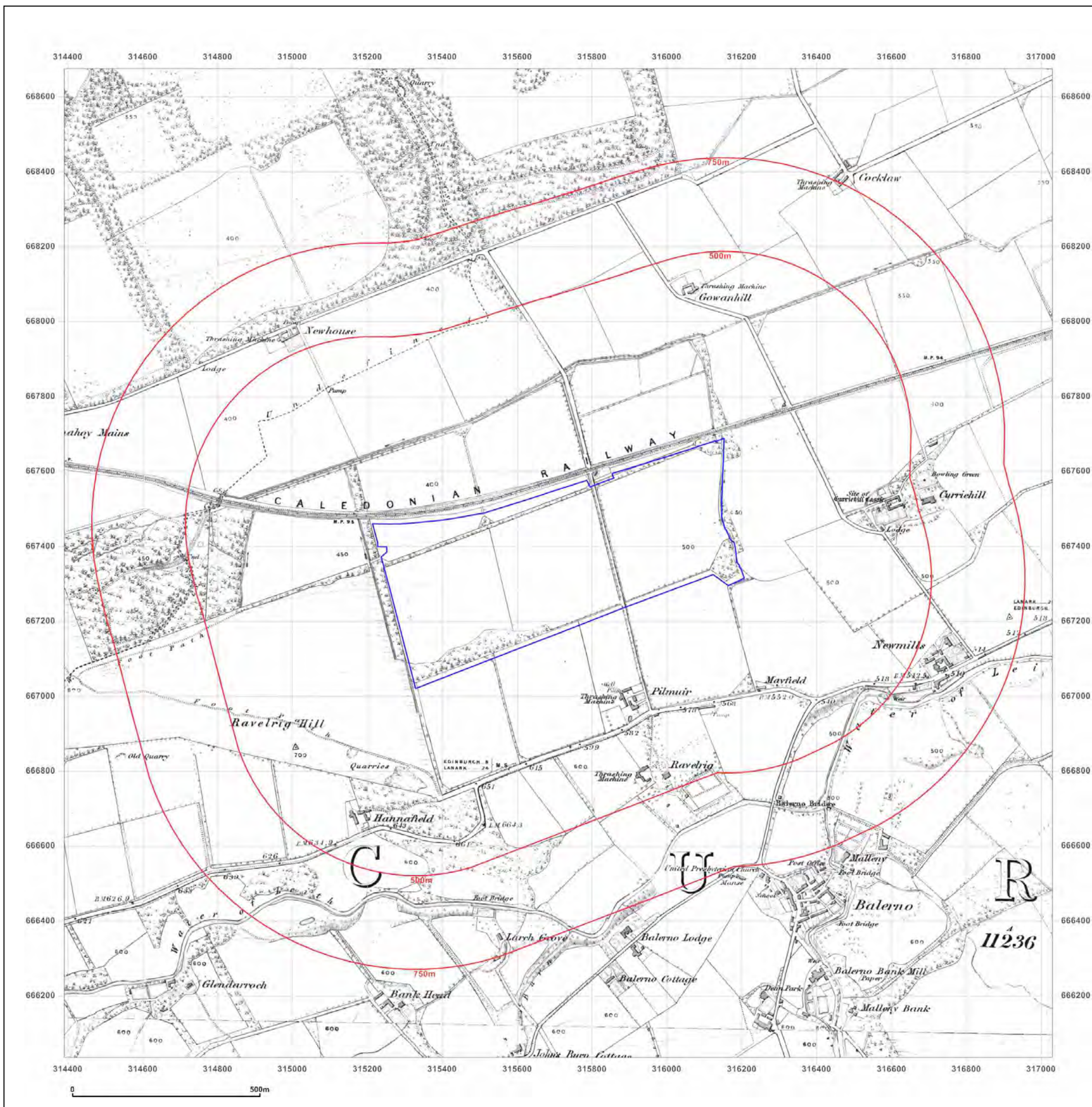


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Production date: 08 November 2019

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Site Details:

RAVELRIG ROAD, BALERNO,
EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: County Series

Map date: 1893

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

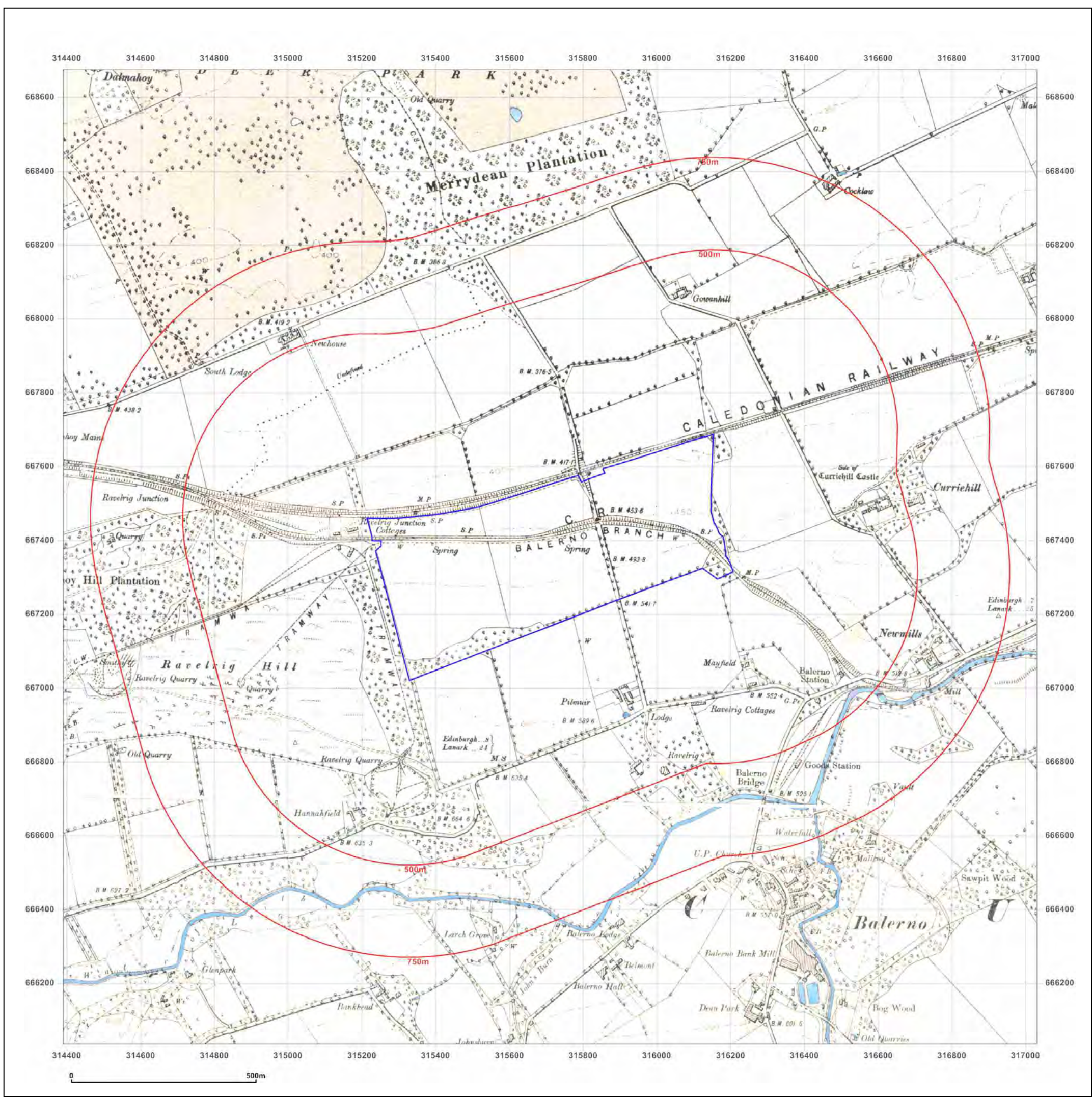


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Production date: 08 November 2019

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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: County Series

Map date: 1905

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1893
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

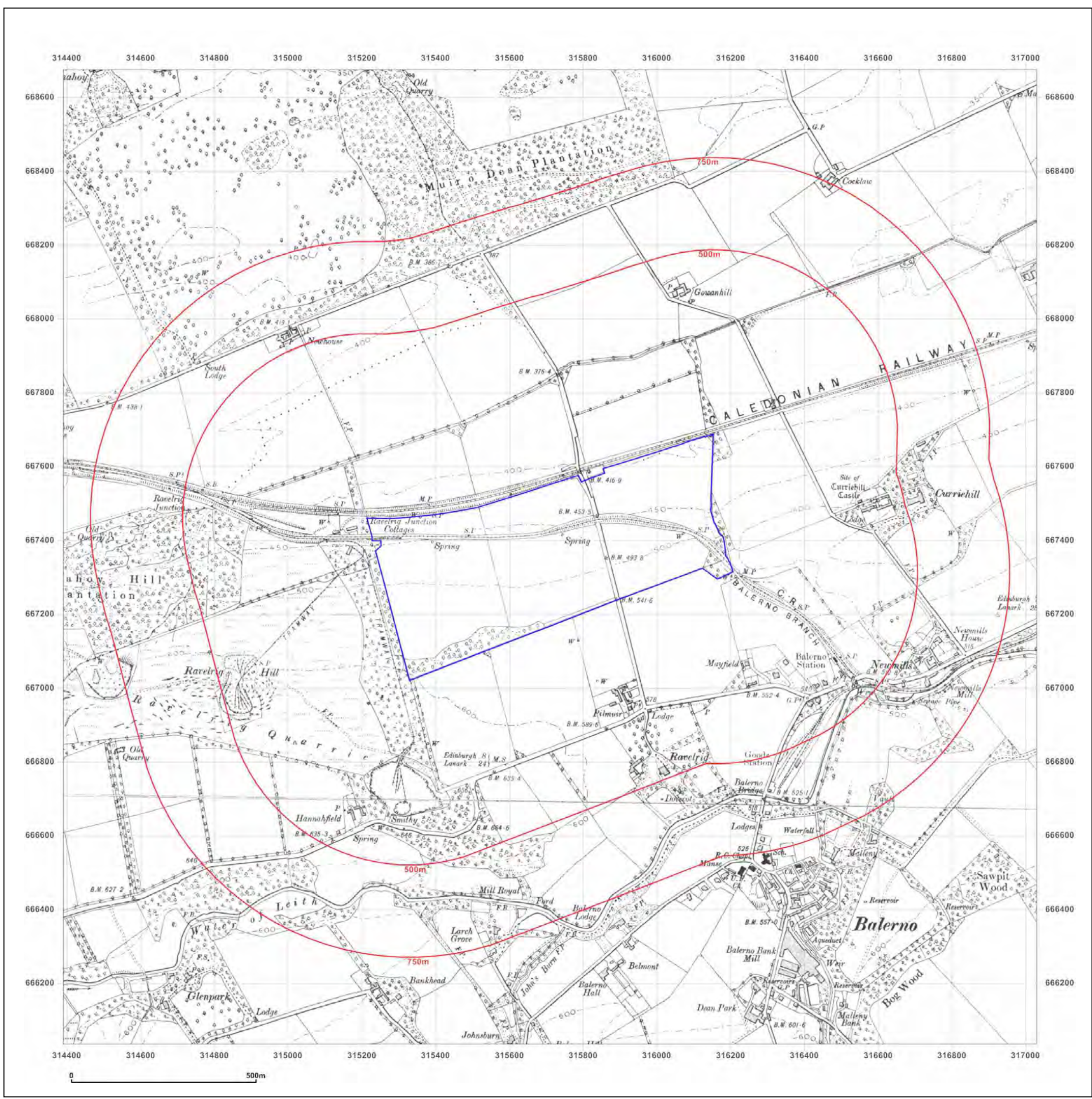


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Production date: 08 November 2019

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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: County Series

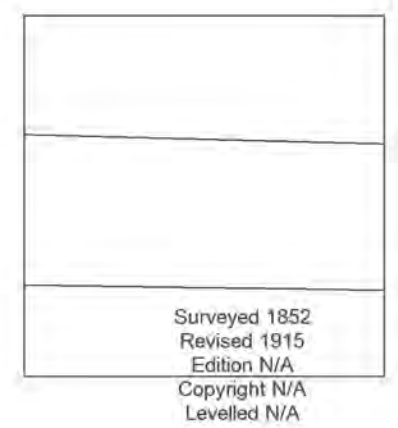
Map date: 1914-1915

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

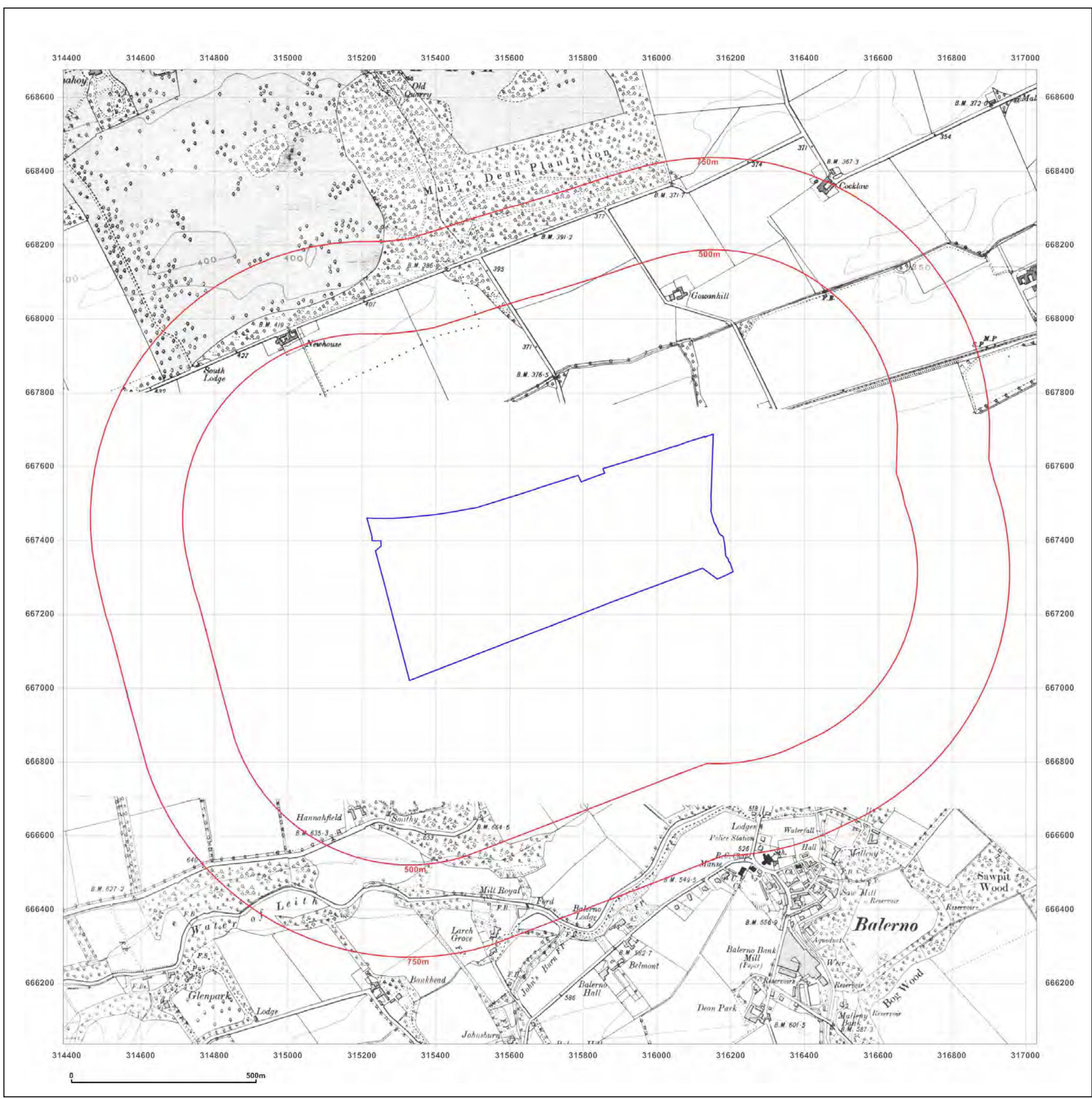


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Production date: 08 November 2019

Map legend available at:
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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: County Series

Map date: 1915

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1852
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

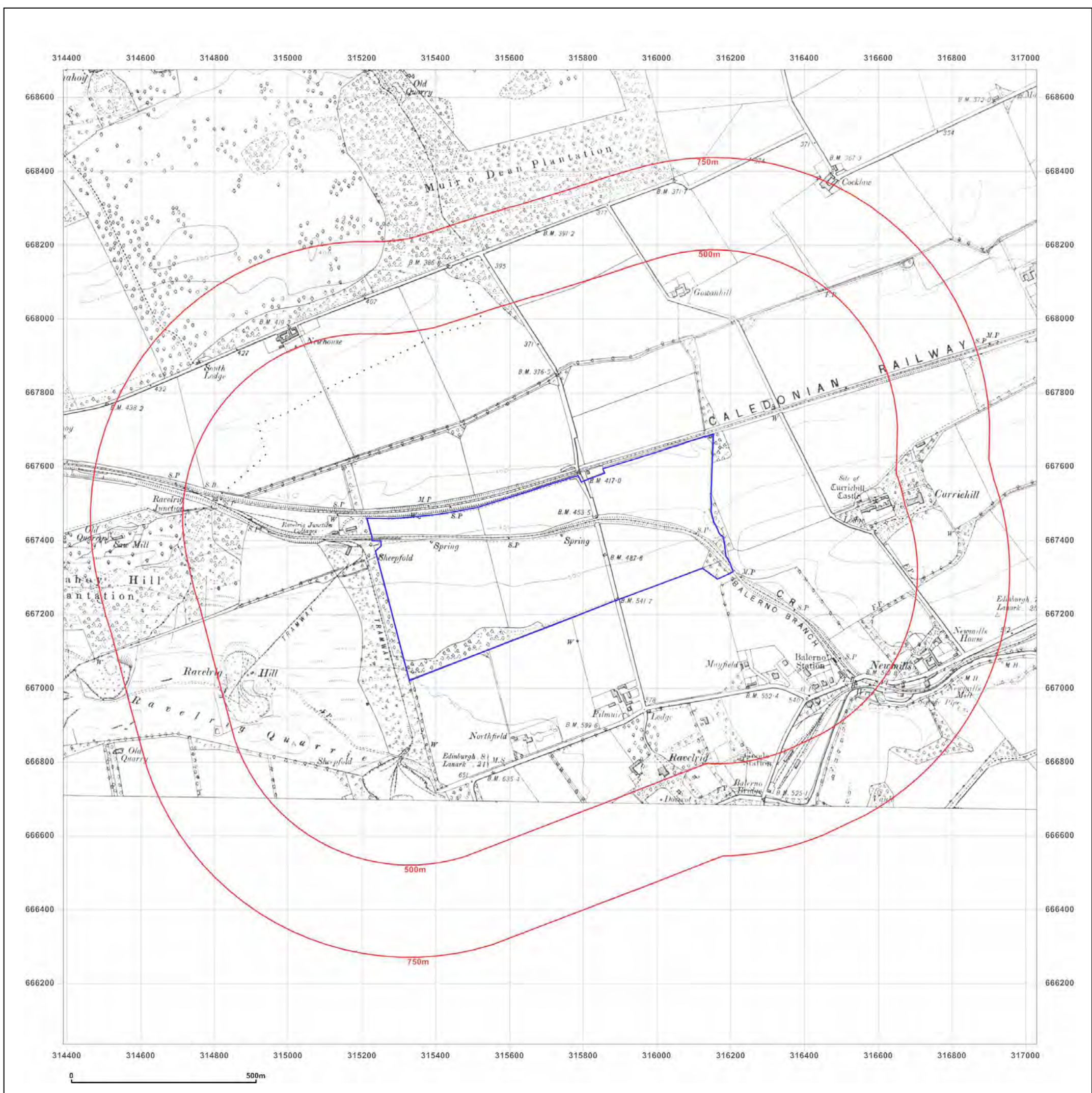


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Map legend available at:
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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: Provisional

Map date: 1954-1957

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1954
Revised 1954
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1956
Edition 1957
Copyright N/A
Levelled N/A

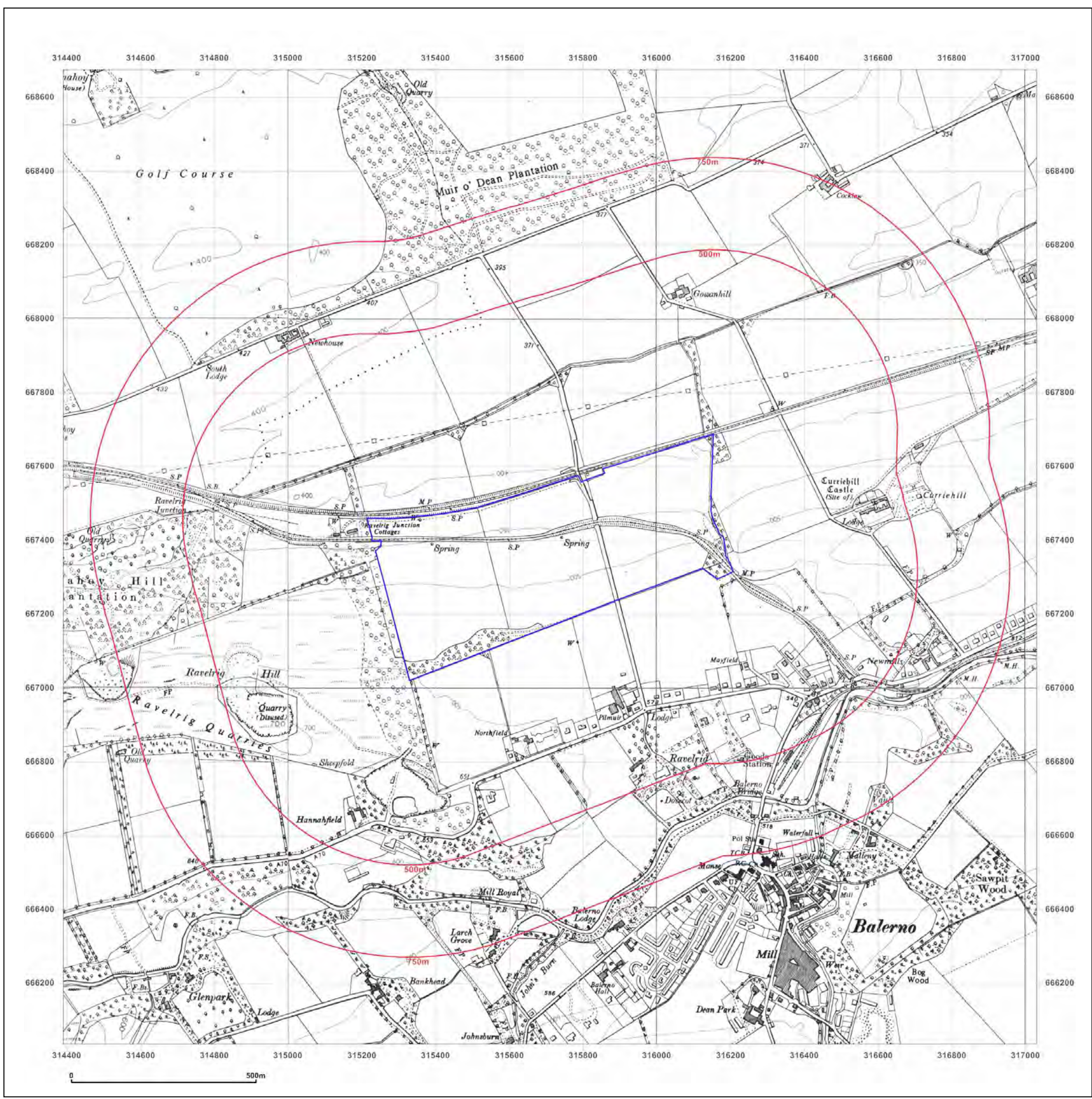


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EH14

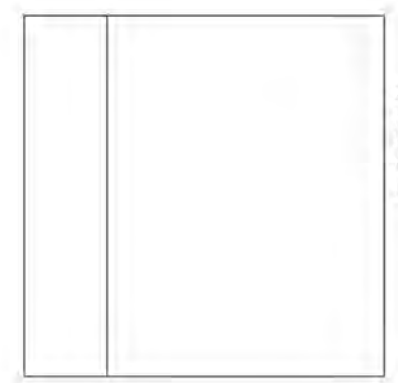
Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: Provisional

Map date: 1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1968
Edition 1968
Copyright 1957
Levelled N/A

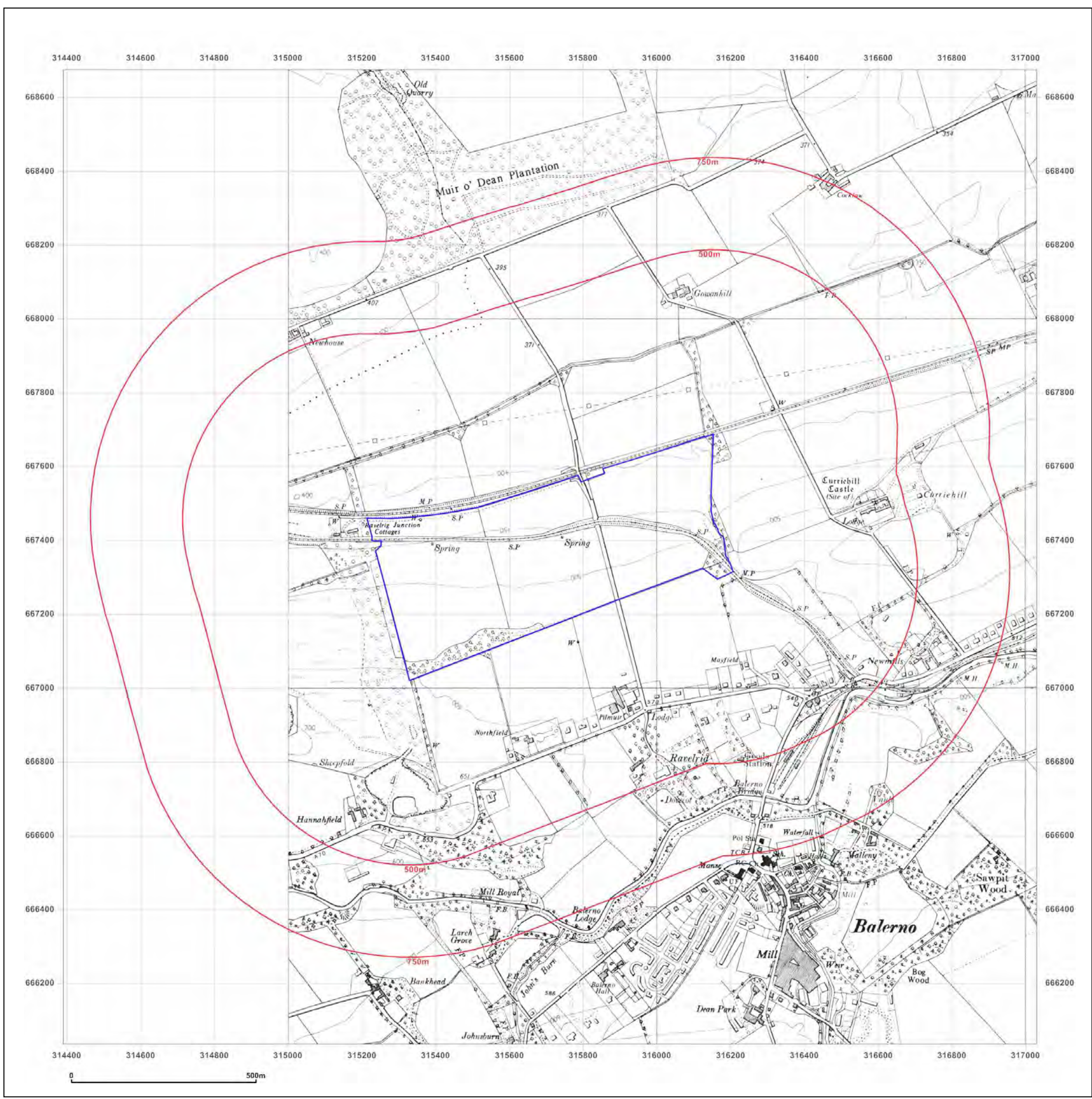


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Production date: 08 November 2019

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EH14

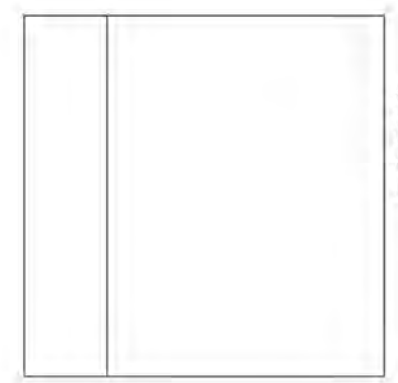
Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: Provisional

Map date: 1976

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1978
Edition N/A
Copyright 1957
Levelled N/A

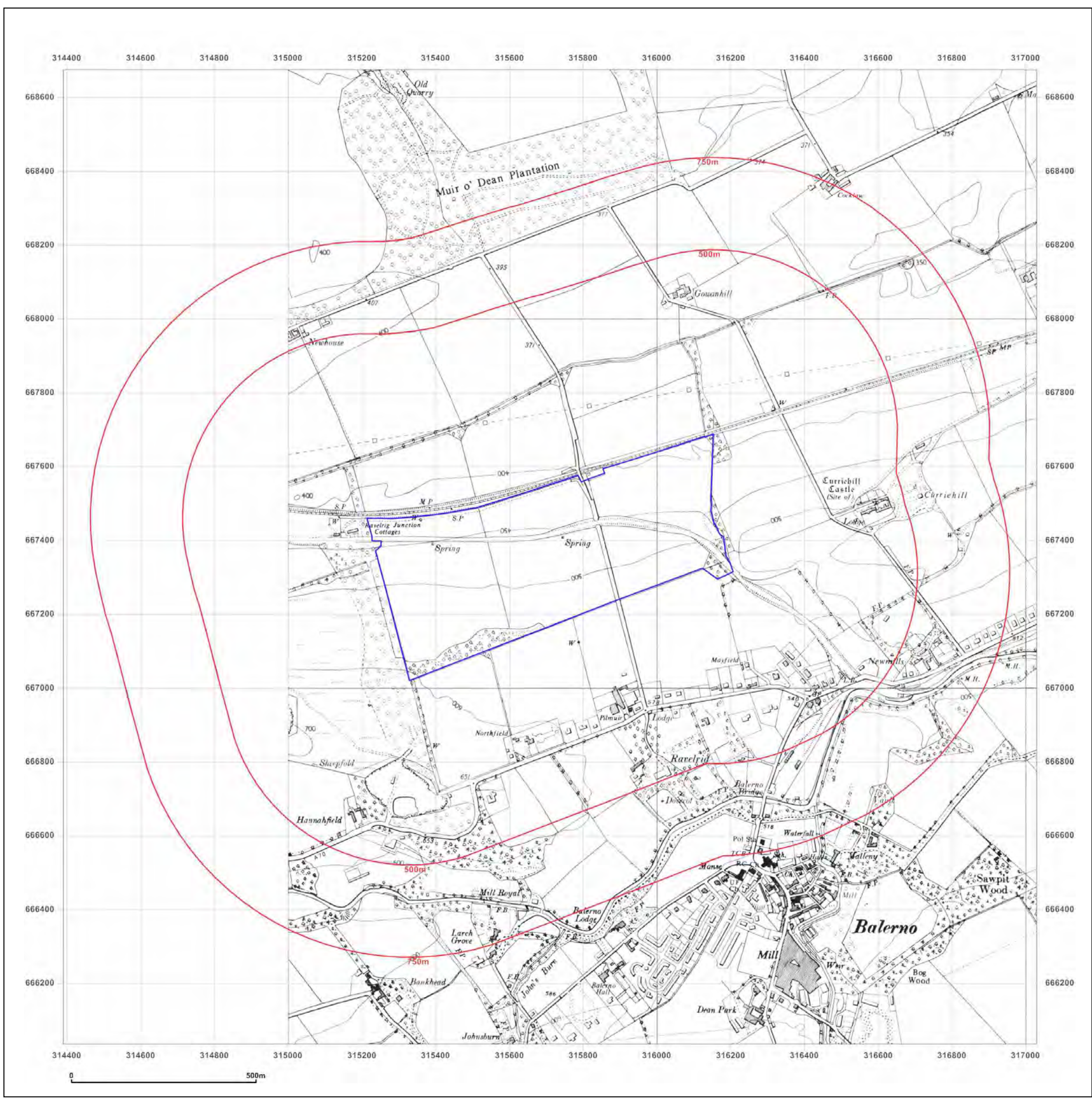


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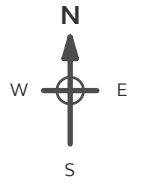
Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: National Grid

Map date: 1980-1983

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1972
Revised 1982
Edition N/A
Copyright 1983
Levelled 1971

Surveyed 1977
Revised 1980
Edition N/A
Copyright 1980
Levelled 1971

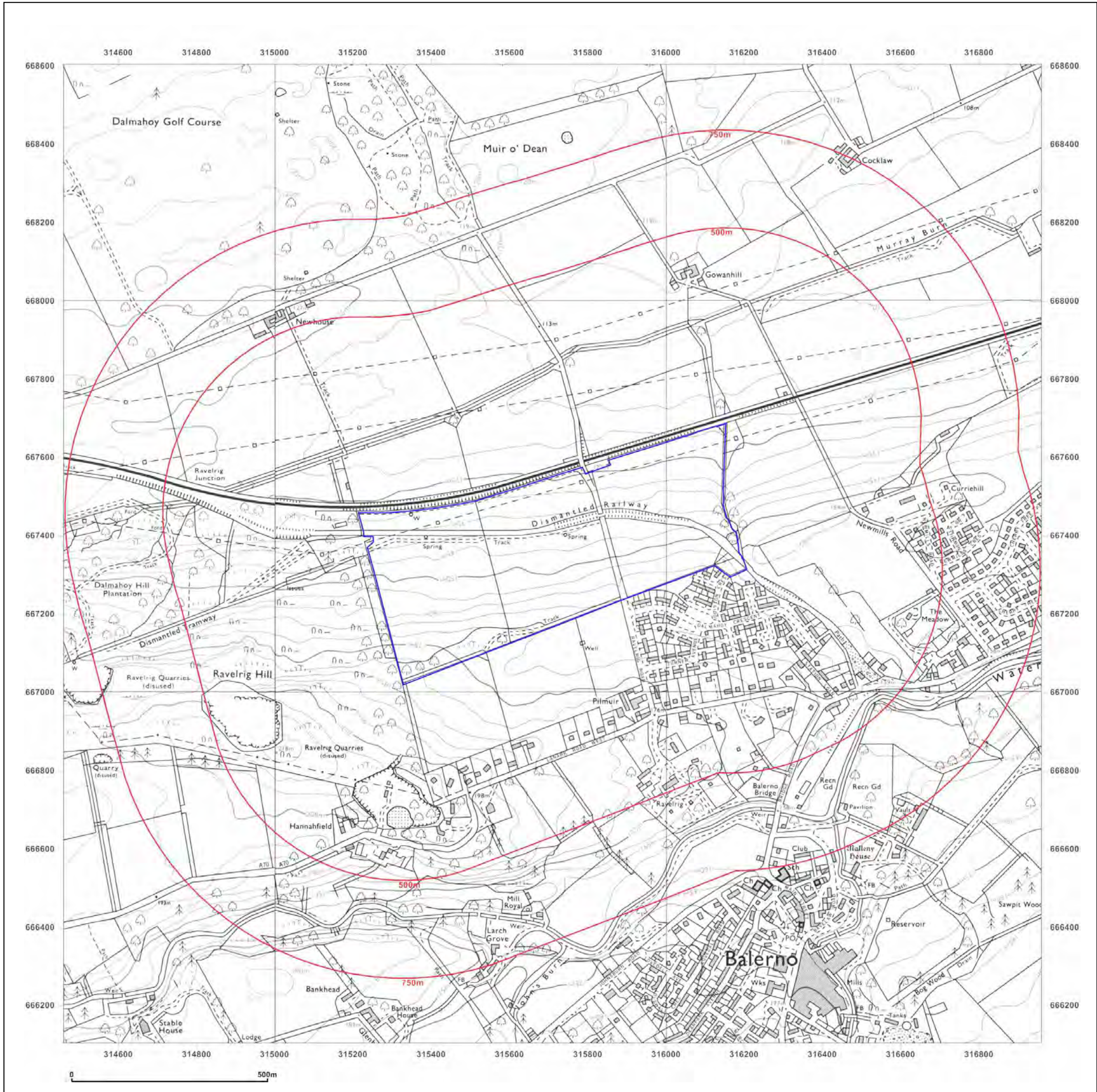


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Production date: 08 November 2019

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Site Details:

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EH14

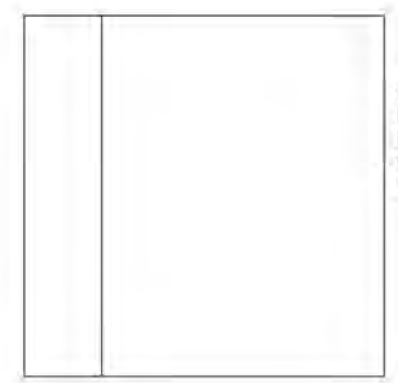
Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: National Grid

Map date: 1990

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1988
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A

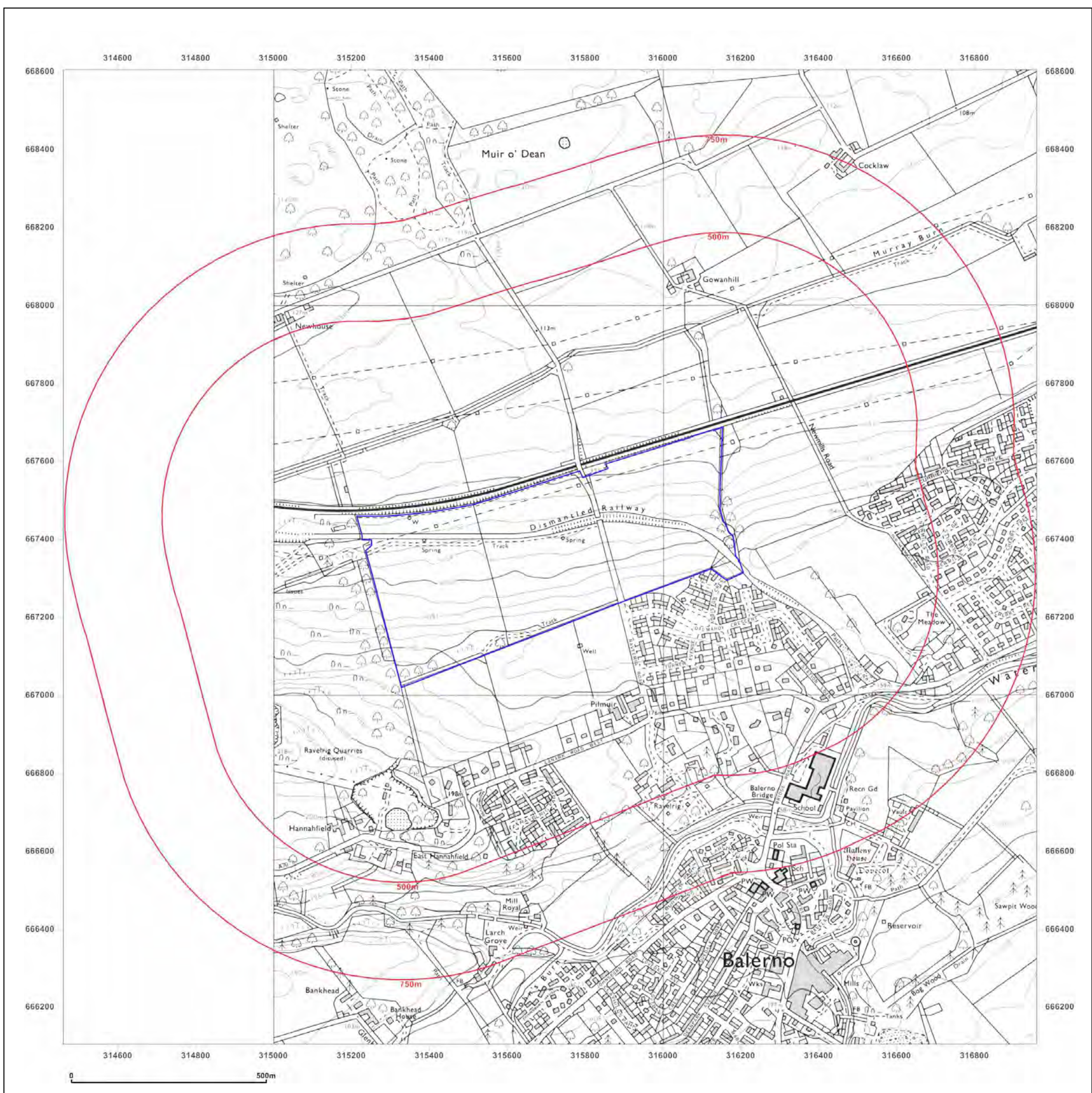


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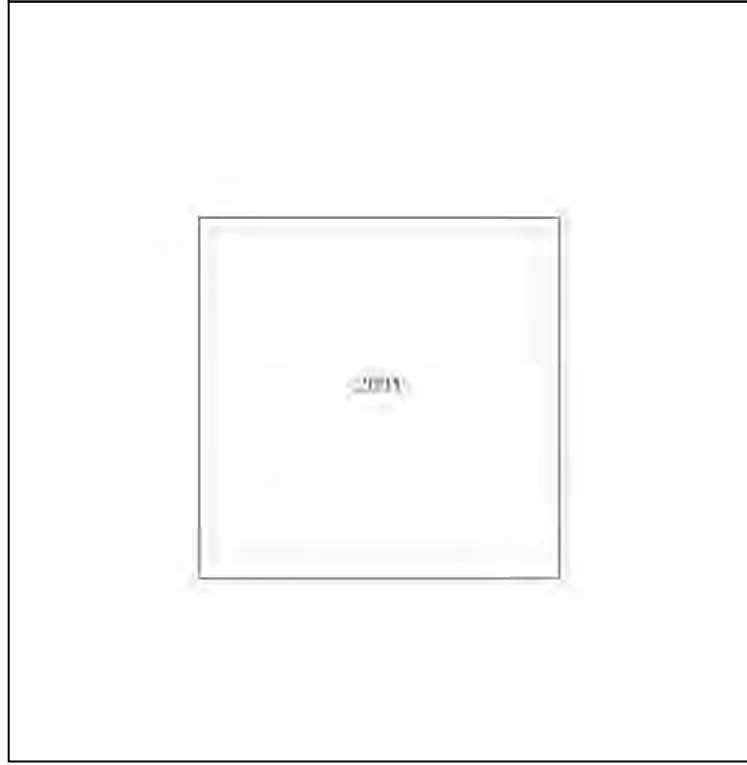
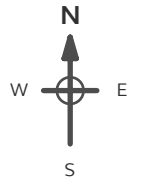
Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:
 RAVELRIG ROAD, BALERNO,
 EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: National Grid
Map date: 2001
Scale: 1:10,000
Printed at: 1:10,000



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Production date: 08 November 2019

Map legend available at:
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Site Details:

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EH14

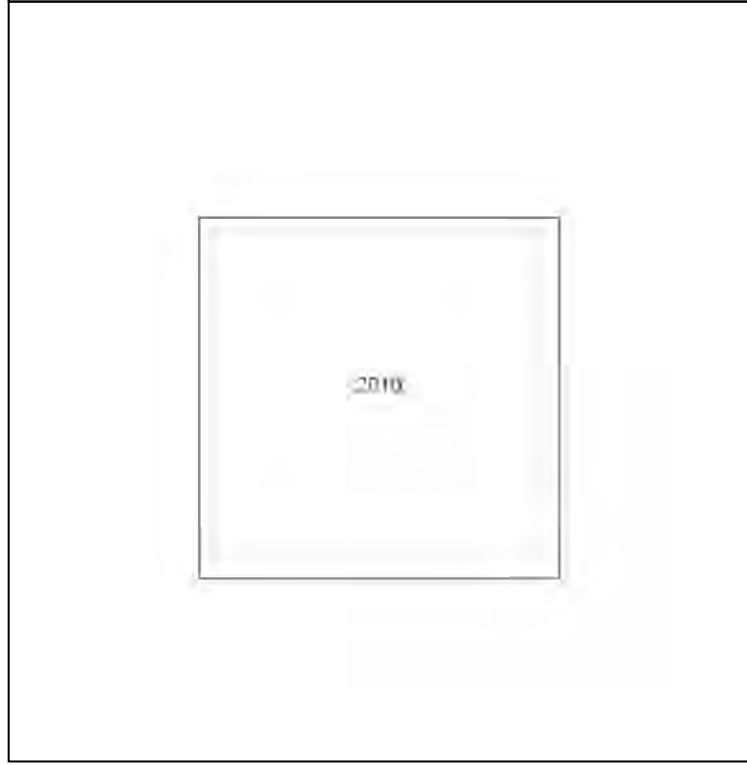
Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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EH14

Client Ref: 13582
Report Ref: GS-6449763
Grid Ref: 315709, 667354

Map Name: National Grid

Map date: 2019

Scale: 1:10,000

Printed at: 1:10,000

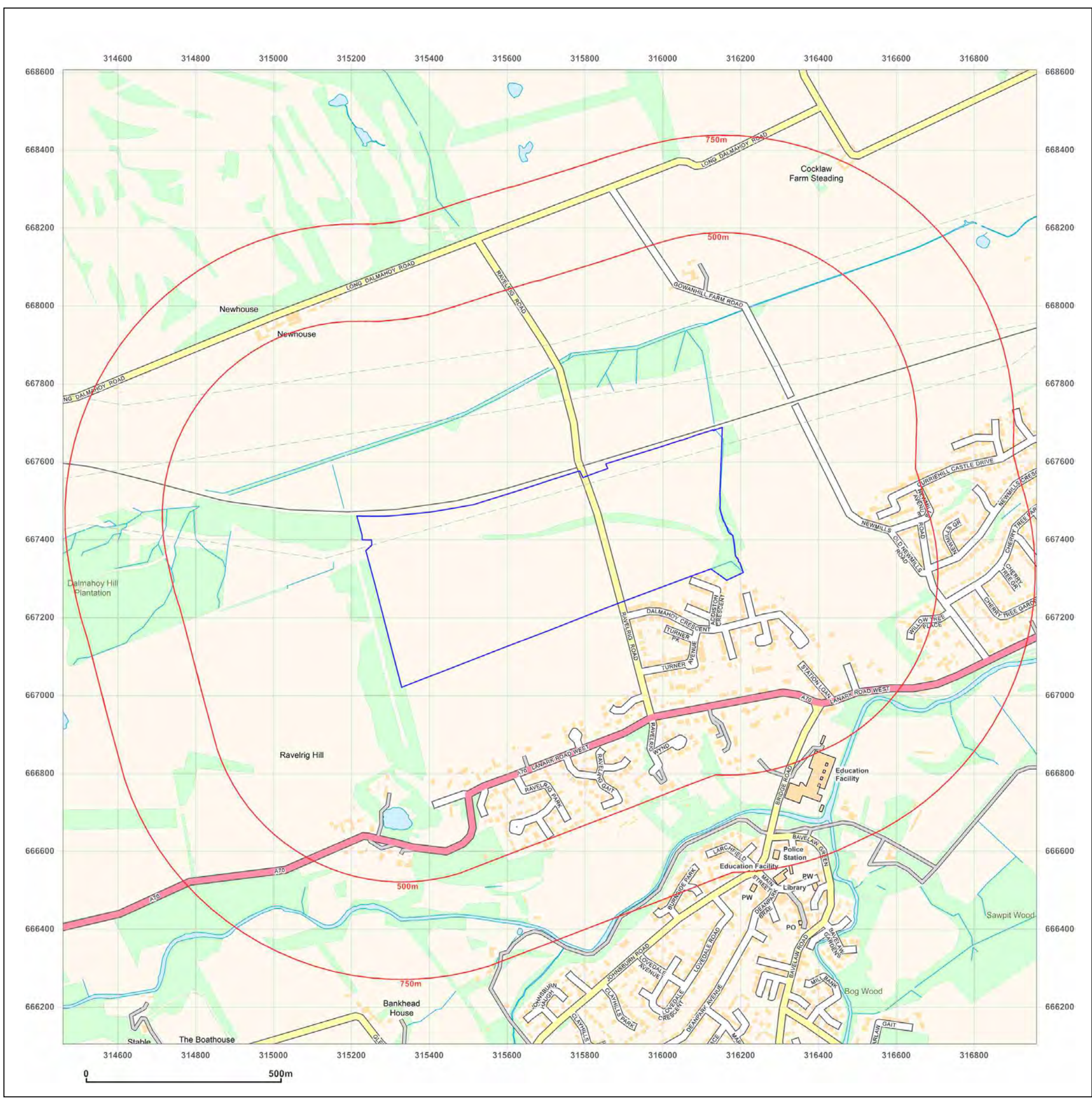


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Appendix 3: Groundsure Scottish Insight Report

Scottish Insight

Insight Report

Date

08-11-2019

Grid Reference

315836 667420

Groundsure Reference

GS-6449764

Your Reference

13582

Address

RAVELRIG ROAD, BALERNO, EH14,

SITE MAP



If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting reference: GS-6449764

Aerial Photograph



Aerial photography supplied by Getmapping PLC.
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Site Address: RAVELRIG ROAD, BALERNO, EH14,
Grid Reference: 315836 667420
Date of aerial image capture: 11-06-2015
Site Size: 34.43 ha

Overview of Findings

Report Section	Number of records found within (X) m of the study site boundary					
	On site	0-50	51-250	251-500	501-1000	1000-1500
1 Historical Industrial Sites						
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping	8	13	21	31		
1.2 1:2,500 scale mapping – Historical Tank Database	0	0	2	2		
1.3 1:2,500 scale mapping – Historical Energy Features Database	0	3	3	11		
1.4 1:2,500 scale mapping – Historical Petrol and Fuel Site Database	0	0	0	0		
1.5 1:2,500 scale mapping – Historical Garage and Motor Vehicle Repair Database	0	0	0	0		
1.6 Potentially Infilled Land	5	13	14	19		
1.7 Historic Military and Ordnance sites	0	0	0	0		
2 Landfill and Other Waste Sites Findings						
2.1 Groundsure SEPA Landfill Sites Data	0	0	0	0	0	1
2.2 Groundsure Recorded Landfill Sites	0	0	0	3	0	0
2.3 Historic Waste Sites	0	0	0	0	-	-
2.4 Groundsure SEPA Waste Sites Data	0	0	0	0	-	-
3 Current Land Use						
3.1 Current Industrial Data	2	2	6	16		
3.2 Petrol and Fuel Sites	0	0	0	0		
3.3 Part A(1), IPPC and Historic IPC Authorisations	0	0	0	1		
3.4 Part B Authorisations	0	0	0	0		
3.5 National Grid High Pressure Gas Transmission Pipelines	0	0	0	0		
3.6 National Grid High Voltage Underground Electricity Transmission Cables	0	0	0	0		
3.7 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0		
4 Geology and Hydrogeology	Presence of Records					
4.1 Artificial Ground and Made Ground*	Yes					
4.2 Permability of Artificial Ground	Yes					
4.3 Superficial Ground and Drift Geology	No					
4.4 Permeability of Superficial Ground	Yes					
4.5 Bedrock and Solid Geology	Yes					
4.6 Permeability of Bedrock Ground	Yes					
4.7 Faults	Yes					
4.8 Landslip	No					
4.9 Landslip Permeability	No					
4.10 Groundwater Vulnerability and Soil Classification	Yes					
Source: Scale: 1:50,000 BGS Sheet						
* This includes an automatically generated 50m buffer zone around the site.						
5 Designated Environmentally Sensitive Sites						
5.1 Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
5.2 Ramsar Sites	0	0	0	0	0	0
5.3 National Nature Reserves (NNR)	0	0	0	0	0	0
5.4 Special Areas of Conservation (SAC)	0	0	0	0	0	0
5.5 Special Protection Areas (SPA)	0	0	0	0	0	0
5.6 Local Nature Reserves (LNR)	0	0	0	0	0	0
5.7 World Heritage Sites	0	0	0	0	0	0
5.8 Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
5.9 National Parks	0	0	0	0	0	0
5.10 Green Belt	0	0	0	0	0	0
5.11 Designated Ancient Woodland	0	0	1	1	4	11

6 Flooding					
6.1 Highest risk of flooding from rivers on-site	Negligible				
6.2 Highest risk of coastal flooding on-site	Negligible				
6.3 Highest Risk of Pluvial Flooding on-site	Moderate				
6.4 Groundwater Flooding Susceptibility Areas	Potential for groundwater flooding at surface				
6.5 Groundwater Flooding Confidence Rating	High				
6.6 Presence of geological indicators of flooding within 250m	Yes				
6.7 Potential risk in event of a reservoir failure	Yes				
7 Mining					
	On site	0-50	51-250	251-500	501-1000
7.1 Historical Mining	0	0	0	0	0
7.2 Coal Mining	0	0	0	0	0
7.3 Johnson Poole and Bloomer	0	0	0	0	0
7.4 Non-Coal Mining	1	0	1	1	0
7.5 Non-Coal Mining Cavities	0	0	0	0	0
7.6 Natural Cavities	0	0	0	0	0
7.7 Brine Extraction	0	0	0	0	0
7.8 Gypsum Extraction	0	0	0	0	0
7.9 Tin Mining	0	0	0	0	0
7.10 Clay Mining	0	0	0	0	0
8 Natural Hazards Findings					
8.1 Shrink Swell	Very Low				
8.2 Landslides	Moderate				
8.3 Soluble Rocks	Negligible				
8.4 Compressible Ground	Very Low				
8.5 Collapsible Rocks	Very Low				
8.6 Running Sand	Very Low				
8.7 Radon Potential	Less than 1%				
8.8 Radon Protective Measures	No radon protective measures are necessary.				
9 Borehole Records					
	On site	0-50	51-250	251-500	501-1000
9.1 Borehole Records	0	0	0	0	0
10 Railways and Tunnels					
	On site	0-50	51-250	251-500	501-1000
10.1 Tunnels	0	0	0	0	0
10.2 Historical Railway and Tunnel Features	6	6	10	0	0
10.3 Historical Railways	2	0	0	0	0
10.4 Active Railways	0	4	0	0	0
10.5 Railway Projects	0	0	0	0	0
11 Soil Chemistry					
	On site	0-50	51-250	251-500	501-1000
11.1 Estimated Background Soil Chemistry	35	14	N/A	0	0
11.2 Estimated Urban Soil Chemistry	0	0	N/A	0	0
11.3 Measured Urban Soil Chemistry	0	0	0	0	0

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections,

1 Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2 Landfill and Other Waste Sites Findings

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

3 Current Land Use

Provides information on the current land use as taken from PointX data, petrol filling stations, and Part A(1), Part A(2), Part B, IPPC and IPC Authorisations and sites designated as Contaminated Land in proximity to the property.

4 Geology and Hydrogeology

Provides information on artificial and superficial deposits and bedrock beneath the study site and groundwater vulnerability and soil classification.

5 Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas and World Heritage Sites. These searches are conducted using radii of up to 2000m.

6 Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas, surface water flooding, geological indicators of flooding, reservoir failure and groundwater flood areas. This search is conducted using radii of up to 250m.

7 Mining

Provides information on areas of coal and non-coal mining.

8 Natural Hazards Findings

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence.

9 Borehole Records

Provides access to the National Geoscience Data Centre database of over a million scanned borehole, shaft and well records. This data is supplied to Groundsure by the British Geological Survey (BGS). The scanned records can be accessed by clicking on the weblinks within the data table.

10 Railways and Tunnels

Provides information on historic and current railways and tunnels, as well as data on some future rail projects.

11 Soil Chemistry

This section includes an estimation of the concentrations of selected potentially harmful elements (arsenic, cadmium, chromium, nickel and lead) in rural topsoils and of these chemical elements plus copper, tin and zinc in urban topsoils. The section also contains measurements made of urban topsoil. This data is provided by the British Geological Survey (BGS).

Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

Notes on Mapping

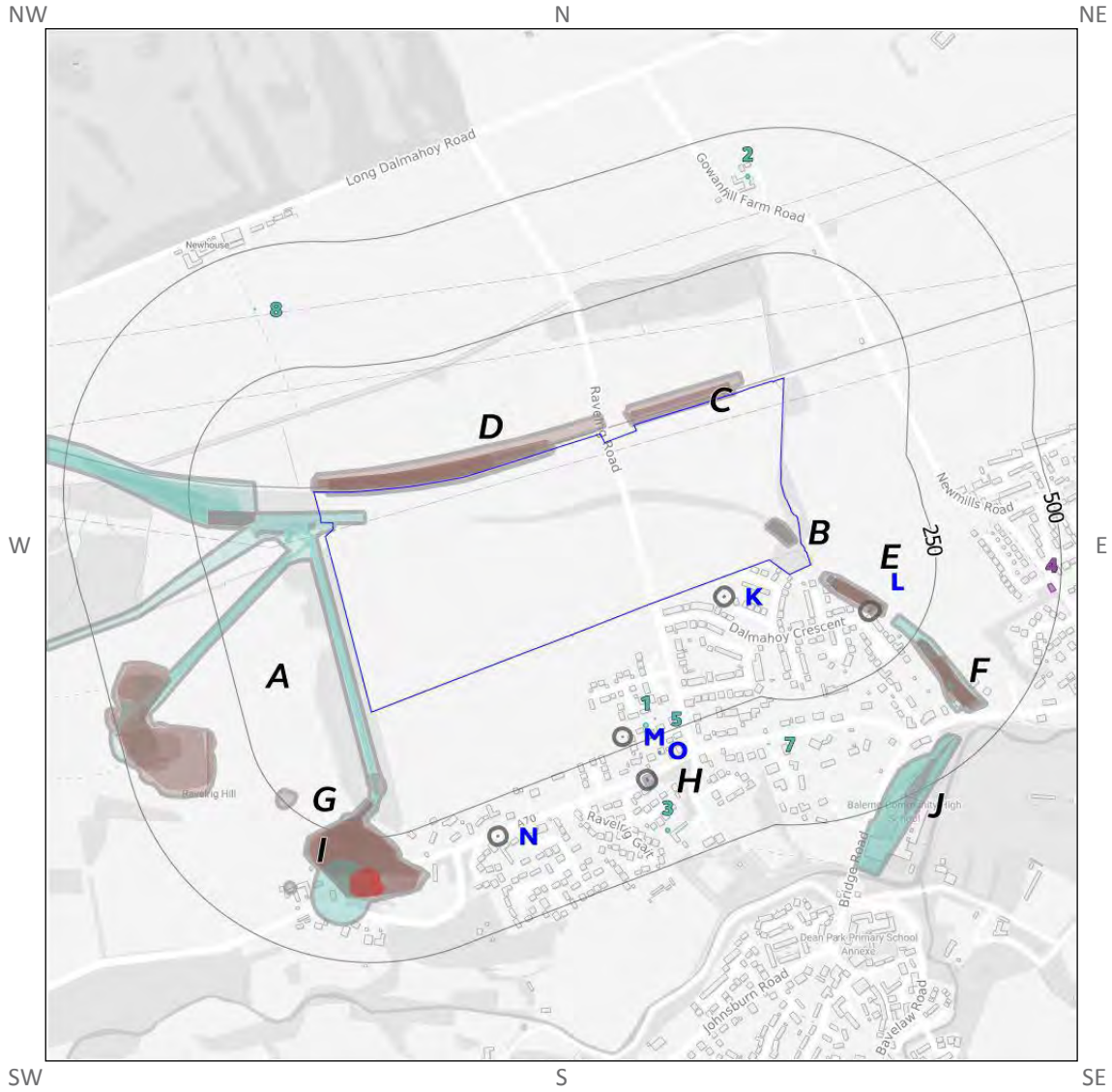
Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id, 1, Id, 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N, North, E, East, NE, North East from the nearest point of the study site boundary.

1 Historical Industrial Sites

Historical Land Use Map



Historical Land Use Map

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1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary:	73
---	----

ID	Distance (m)	Direction	Use	Date
A	0	on site	Railway Sidings	1915
A	0	on site	Railway Sidings	1905
A	0	on site	Tramway Sidings	1893
B	0	on site	Cuttings	1915
B	0	on site	Cuttings	1905
B	0	on site	Cuttings	1893
D	0	on site	Cuttings	1954
D	0	on site	Cuttings	1893
D	1	N	Cuttings	1915
D	1	N	Cuttings	1905
C	2	N	Cuttings	1990
C	2	N	Cuttings	1978
D	2	N	Cuttings	1990
D	2	N	Cuttings	1978
A	10	SW	Refuse Heap	1915
D	10	N	Cuttings	1852
C	14	N	Cuttings	1852
E	35	SE	Cuttings	1954
E	43	SE	Cuttings	1915
E	43	SE	Cuttings	1905
E	43	SE	Cuttings	1893
E	57	SE	Cuttings	1990
E	57	SE	Cuttings	1978
A	60	W	Railway Building	1915
A	73	W	Refuse Heap	1915
A	122	W	Unspecified Ground Workings	1990
A	122	W	Unspecified Ground Workings	1978
A	122	S	Unspecified Heap	1954

ID	Distance (m)	Direction	Use	Date
A	141	W	Railway Sidings	1893
A	177	S	Unspecified Quarries	1915
A	179	S	Unspecified Disused Quarries	1990
A	179	S	Unspecified Disused Quarries	1978
A	183	S	Unspecified Quarry	1954
F	203	SE	Railway Sidings	1915
F	203	SE	Railway Sidings	1905
A	210	S	Unspecified Quarry	1893
A	211	S	Unspecified Quarries	1852
A	212	S	Unspecified Quarries	1905
A	214	W	Railway Sidings	1954
5	215	S	Unspecified Pump	1852
1	218	S	Thrashing Machine	1852
G	226	SW	Unspecified Quarries	1852
F	259	SE	Cuttings	1954
F	262	SE	Cuttings	1915
F	262	SE	Cuttings	1905
F	262	SE	Cuttings	1893
A	300	S	Smithy	1915
A	300	S	Smithy	1905
F	310	SE	Refuse Heap	1990
F	310	SE	Refuse Heap	1978
A	322	W	Unspecified Disused Quarries	1990
A	322	W	Unspecified Disused Quarries	1978
A	327	W	Unspecified Disused Quarries	1975
A	337	W	Unspecified Disused Quarry	1954
7	339	S	Unspecified Pump	1852
F	359	SE	Railway Station	1915
F	359	SE	Railway Station	1905
F	359	SE	Railway Building	1893
A	374	W	Unspecified Quarries	1915
8	382	N	Unspecified Pump	1852
I	382	SW	Unspecified Tank	1954
F	383	SE	Cuttings	1954

ID	Distance (m)	Direction	Use	Date
A	386	W	Unspecified Heap	1905
F	398	SE	Railway Station	1893
2	404	N	Thrashing Machine	1852
A	416	W	Unspecified Quarries	1905
3	429	S	Thrashing Machine	1852
A	429	W	Unspecified Quarry	1893
J	439	SE	Railway Sidings	1915
J	439	SE	Railway Sidings	1905
J	439	SE	Railway Sidings	1893
J	449	SE	Unspecified Ground Workings	1954
A	462	W	Railway Sidings	1905

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary	4
--	---

ID	Distance (m)	Direction	Use	Date
M	224	S	Unspecified Tank	1990
M	225	S	Unspecified Tank	1999
6	281	S	Unspecified Tank	1982
I	380	SW	Unspecified Tank	1912

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary	17
--	----

ID	Distance (m)	Direction	Use	Date
K	34	S	Electricity Substation	1990
K	34	S	Electricity Transformer Station	1970
K	34	S	Electricity Transformer Station	1970
L	146	SE	Electricity Substation	1990
L	146	SE	Electricity Transformer Station	1970
L	147	SE	Electricity Transformer Station	1970

ID	Distance (m)	Direction	Use	Date
N	320	S	Electricity Substation	1990
N	320	S	Electricity Substation	1982
H	321	S	Gas Governor	1999
H	321	S	Gas Governor	1990
H	321	S	Electricity Substations	1982
H	321	S	Electricity Substations	1973
N	321	S	Electricity Substation	1999
O	321	S	Electricity Substation	1999
O	321	S	Electricity Substation	1990
H	322	S	Electricity Substations	1972
4	474	E	Gas Governor	1996

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary	0
---	---

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary	0
--	---

Database searched and no data found.

1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site	51
--	----

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance	Direction	Use	Date
B	0	on site	Cuttings	1915
B	0	on site	Cuttings	1905
B	0	on site	Cuttings	1893
D	0	on site	Cuttings	1954

ID	Distance	Direction	Use	Date
D	0	on site	Cuttings	1893
D	1	N	Cuttings	1915
D	1	N	Cuttings	1905
C	2	N	Cuttings	1990
C	2	N	Cuttings	1978
D	2	N	Cuttings	1990
D	2	N	Cuttings	1978
A	10	SW	Refuse Heap	1915
D	10	N	Cuttings	1852
C	14	N	Cuttings	1852
E	35	SE	Cuttings	1954
E	43	SE	Cuttings	1915
E	43	SE	Cuttings	1905
E	43	SE	Cuttings	1893
E	57	SE	Cuttings	1990
E	57	SE	Cuttings	1978
A	73	W	Refuse Heap	1915
A	122	W	Unspecified Ground Workings	1990
A	122	W	Unspecified Ground Workings	1978
A	122	S	Unspecified Heap	1954
A	177	S	Unspecified Quarries	1915
A	179	S	Unspecified Disused Quarries	1990
A	179	S	Unspecified Disused Quarries	1978
A	183	S	Unspecified Quarry	1954
A	210	S	Unspecified Quarry	1893
A	211	S	Unspecified Quarries	1852
A	212	S	Unspecified Quarries	1905
G	226	SW	Unspecified Quarries	1852
F	259	SE	Cuttings	1954
F	262	SE	Cuttings	1915
F	262	SE	Cuttings	1905
F	262	SE	Cuttings	1893
F	310	SE	Refuse Heap	1990
F	310	SE	Refuse Heap	1978

ID	Distance	Direction	Use	Date
A	312	S	Pond	1990
A	312	S	Pond	1978
A	317	S	Pond	1954
A	322	W	Unspecified Disused Quarries	1990
A	322	W	Unspecified Disused Quarries	1978
A	327	W	Unspecified Disused Quarries	1975
A	337	W	Unspecified Disused Quarry	1954
A	374	W	Unspecified Quarries	1915
F	383	SE	Cuttings	1954
A	386	W	Unspecified Heap	1905
A	416	W	Unspecified Quarries	1905
A	429	W	Unspecified Quarry	1893
J	449	SE	Unspecified Ground Workings	1954

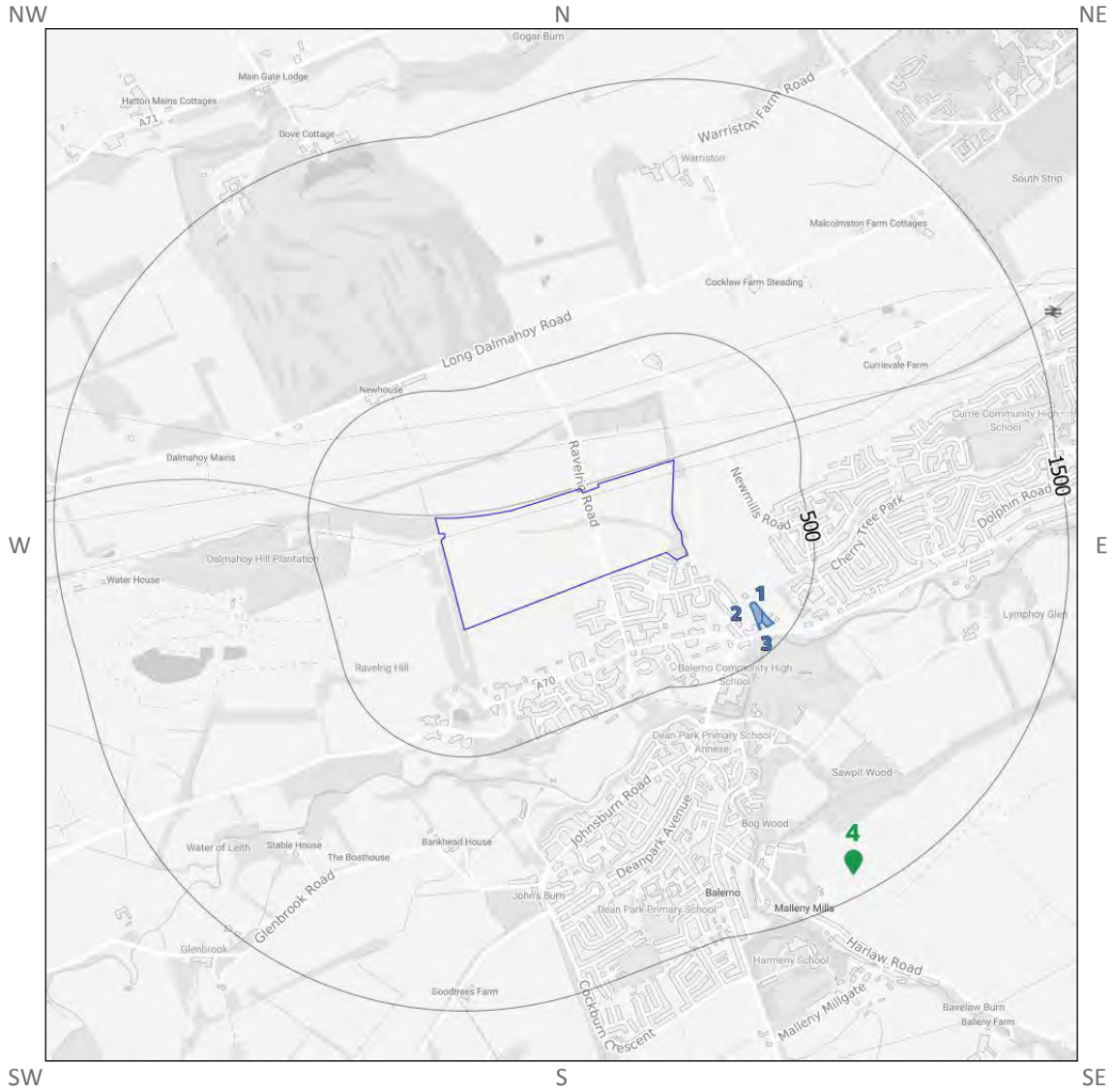
1.7 Historic Military and Ordnance sites

Database searched and no data found.

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

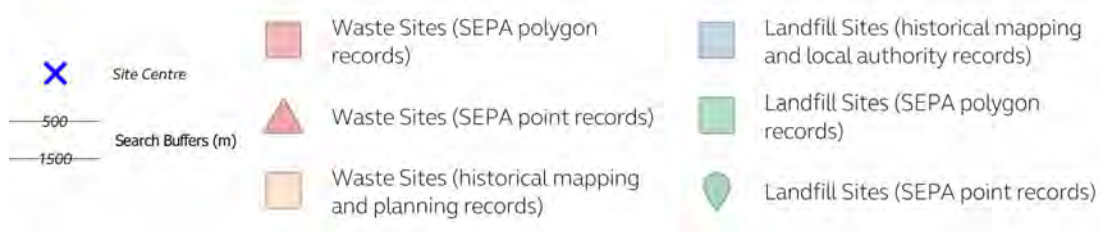
2 Landfill and Other Waste Sites Findings

Landfill and Other Waste Sites Map



Landfill and Other Waste Sites Map

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2.1 Groundsure SEPA Landfill Sites Data

Records of SEPA landfill sites within 1500m of the study site	1
---	---

The following records are represented as polygons on the Landfill and Waste Sites map. Only polygons within 500m of the property are detailed.

ID	Distance [m]	Direction	Site Name	Landfill Type	Licence Number	Landfill or Waste	Licence Holder	Licence Issue Date
4	1371	SE	Sspca Field At Marchbank	Sub Soil & Top Soil. Maximum Intake 800 Tonnes/day 17000 Tonnes/year	WML/E/20149	landfill	Henry Boot Scotland	-

2.2 Groundsure Recorded Landfill Sites

Records of landfill sites and refuse tips within 1500m of the study site	3
--	---

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance [m]	Direction	Site Address	Source	Data Type
1	314	SE	Refuse Tip	1970 mapping	Polygon
2	315	SE	Refuse Tip	1969 mapping	Polygon
3	368	SE	Refuse Tip	1969 mapping	Polygon

2.3 Historic Waste Sites

Records of waste treatment, transfer or disposal sites within 500m of the study site	0
--	---

Database searched and no data found.

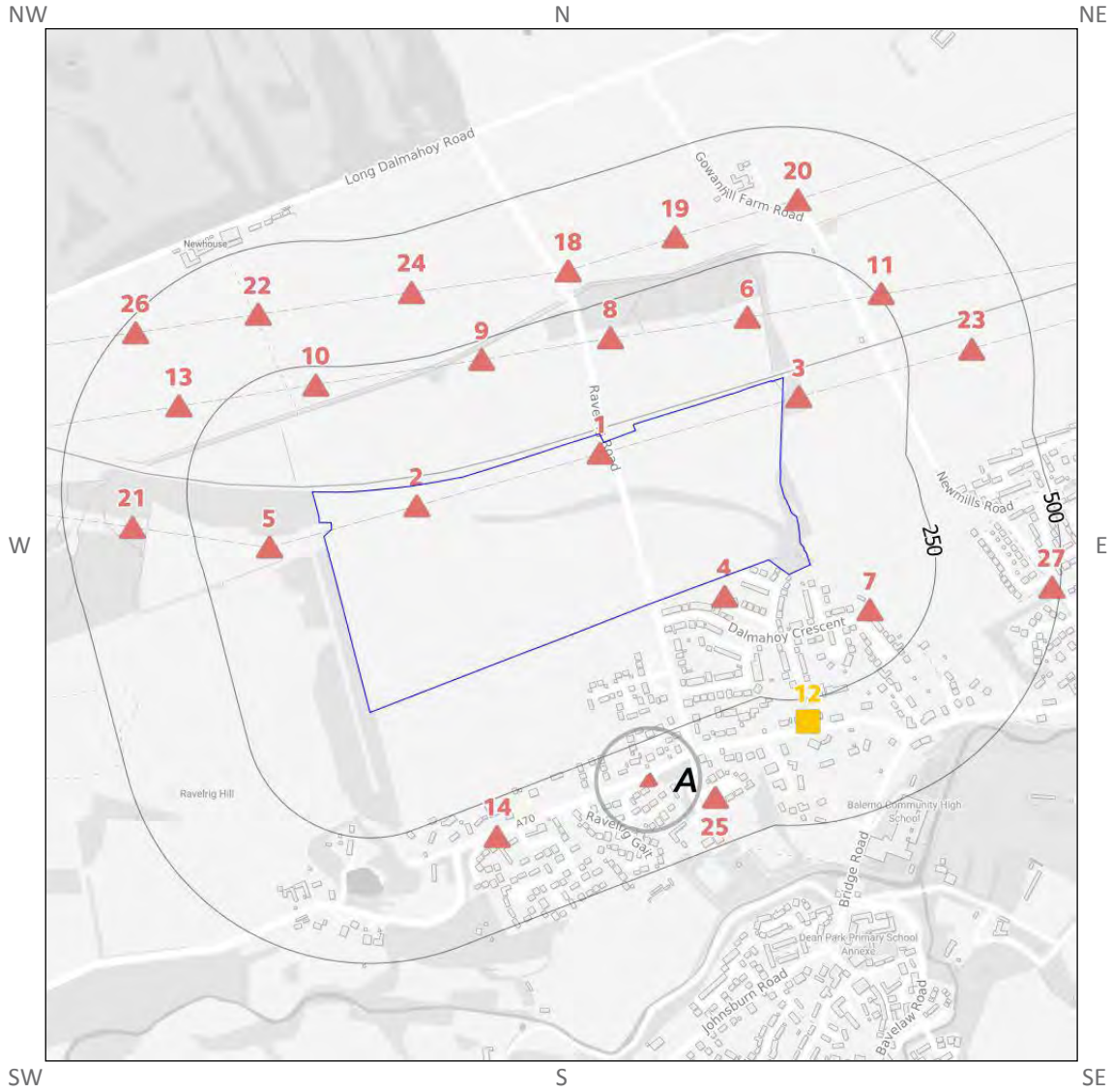
2.4 Groundsure SEPA Waste Sites Data

Records of SEPA waste sites within 500m of the study site	0
---	---

Database searched and no data found.

3 Current Land Use

Current Land Use Map



Current Land Use Map

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3.1 Current Industrial Data

Records of potentially contaminative industrial sites within 500m of the study site	26
---	----

The following records are represented as points on the Current Land Uses map.

ID	Distance	Direction	Company	Address	Description	Category
1	0	on site	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
2	0	on site	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
3	32	E	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
4	38	S	Electricity Sub Station	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
5	112	W	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
6	135	N	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
7	149	SE	Electricity Sub Station	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
8	178	N	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
9	212	N	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
10	213	N	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
11	255	NE	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
13	317	NW	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
14	321	S	Electricity Sub Station	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
A15	324	S	Gas Governor Station	City of Edinburgh, EH14	Gas Features	Infrastructure and Facilities
A16	325	S	Gas Governor Station	City of Edinburgh, EH14	Gas Features	Infrastructure and Facilities
A17	325	S	Electricity Sub Station	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
18	330	N	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities

ID	Distance	Direction	Company	Address	Description	Category
19	331	N	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
20	355	N	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
21	367	W	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
22	370	N	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
23	380	E	Pylon	City of Edinburgh, EH14	Electrical Features	Infrastructure and Facilities
24	381	N	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
25	406	S	Tower Access	8, Ravelrig Wynd, Balerno, City of Edinburgh, EH14 7FB	Construction and Tool Hire	Hire Services
26	475	NW	Pylon	City of Edinburgh, EH27	Electrical Features	Infrastructure and Facilities
27	482	E	Gas Governor Station	City of Edinburgh, EH14	Gas Features	Infrastructure and Facilities

3.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site	0
---	---

Database searched and no data found.

3.3 Part A(1), IPPC and Historic IPC Authorisations

Records of Part A(1), IPPC and historic IPC Authorisations within 1000m of the study site	1
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The following Licenses are represented as points on the Current Land Use map.

ID	Distance [m]	Direction	NGR	Details	
12	297	S	316200 667000	Operator: Grampian Country Chickens (Rearing) Limited Address: , Balerno Poultry Farm, Lanark Road West, Balerno,	Permit Number: PPC/A/1016823 Comments: Activity:

3.4 Part B Authorisations

Records of Part B Authorised Processes within 500m of the study site	0
--	---

Database searched and no data found.

3.5 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site	0
---	---

Database searched and no data found.

3.6 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site	0
---	---

Database searched and no data found.

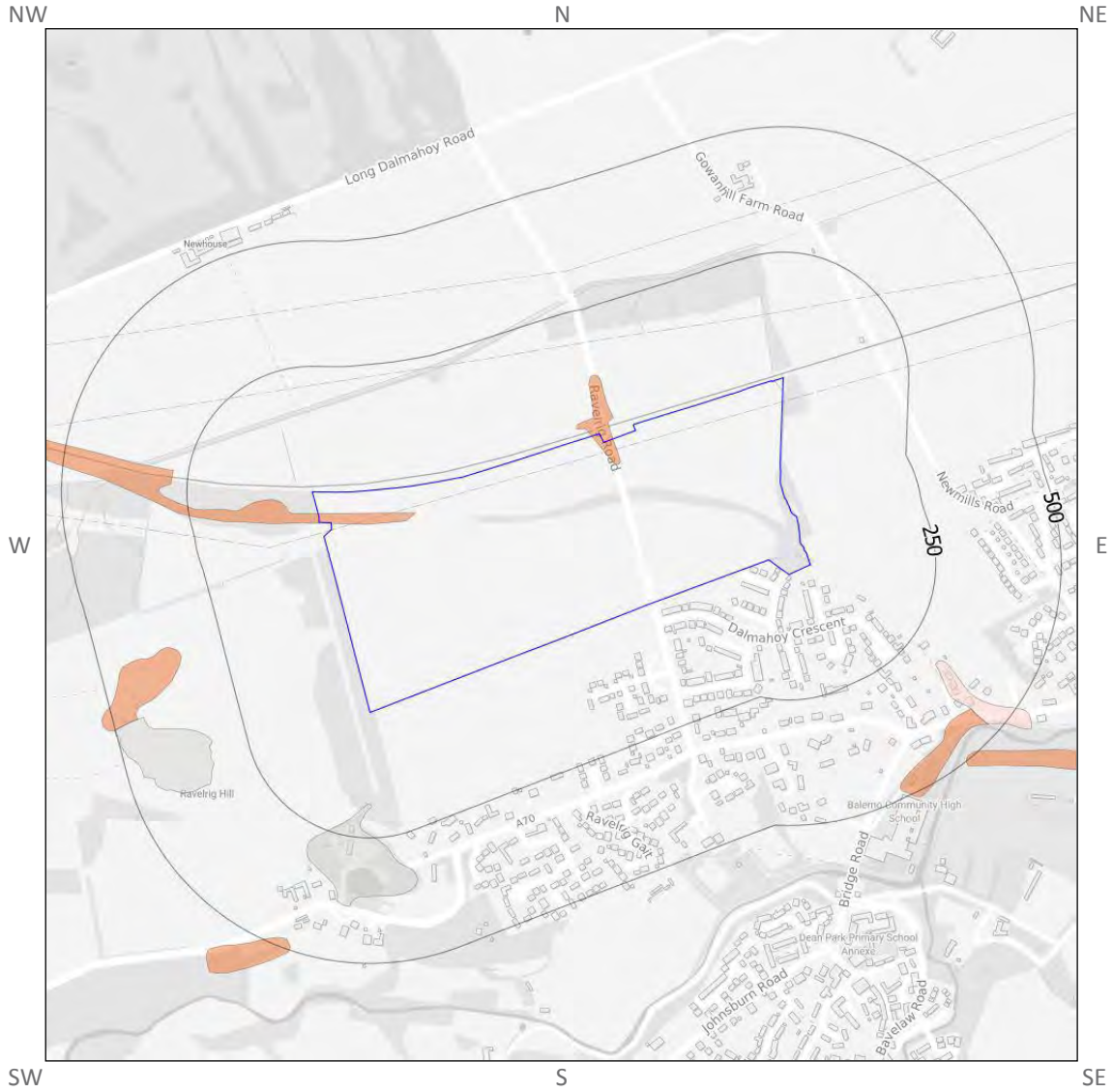
3.7 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many sites does the Local Authority hold information on under Section 78R of the Environmental Protection Act 1990 within 500m of the study site	0
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Database searched and no data found.

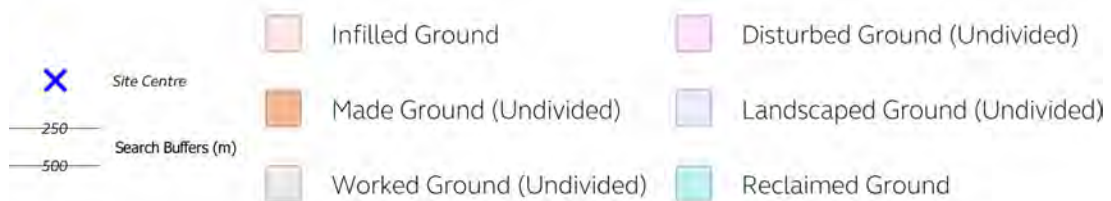
4 Geology and Hydrogeology

Artificial Ground Map

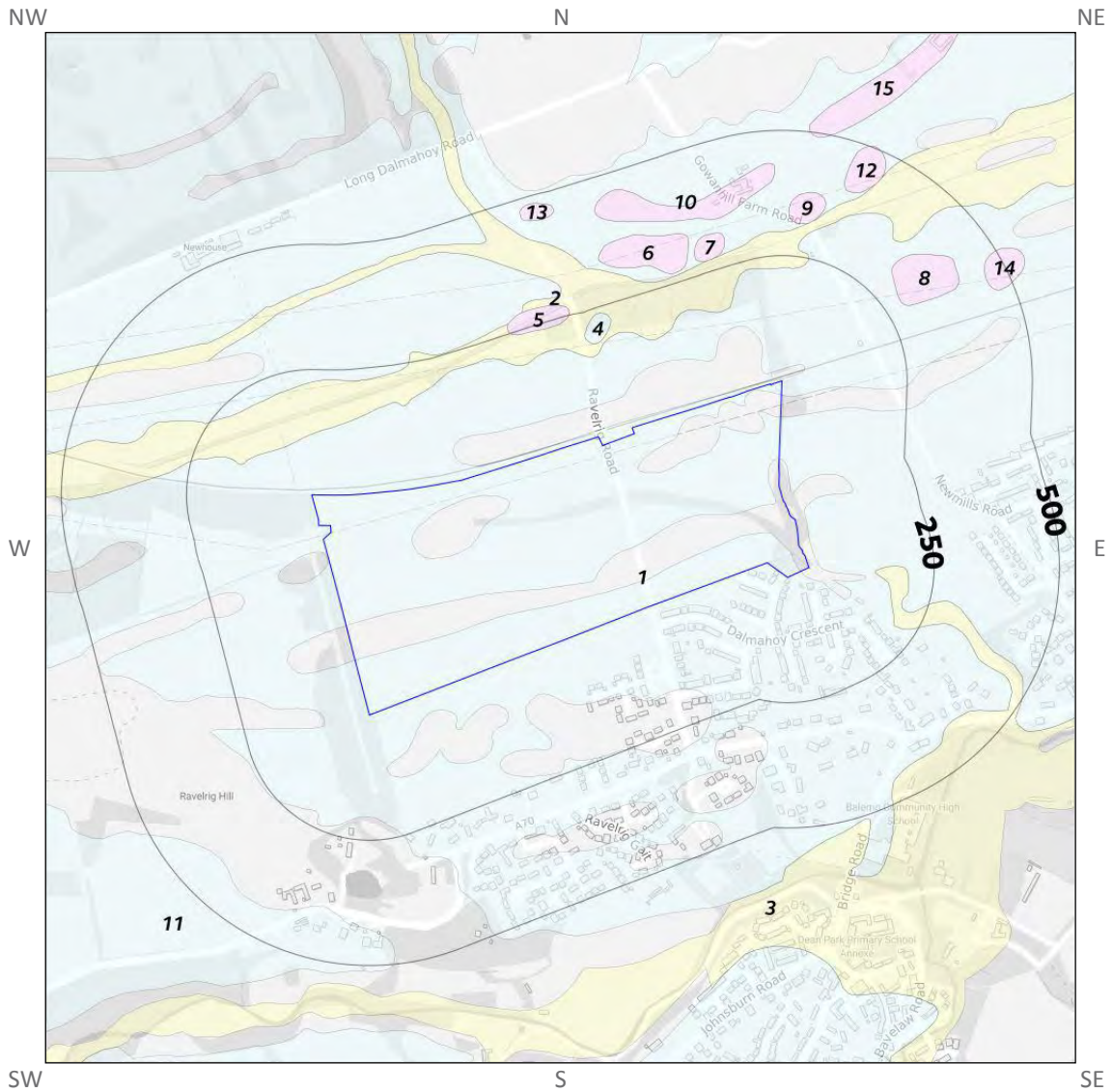


Artificial Ground Map

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Superficial Deposits Map



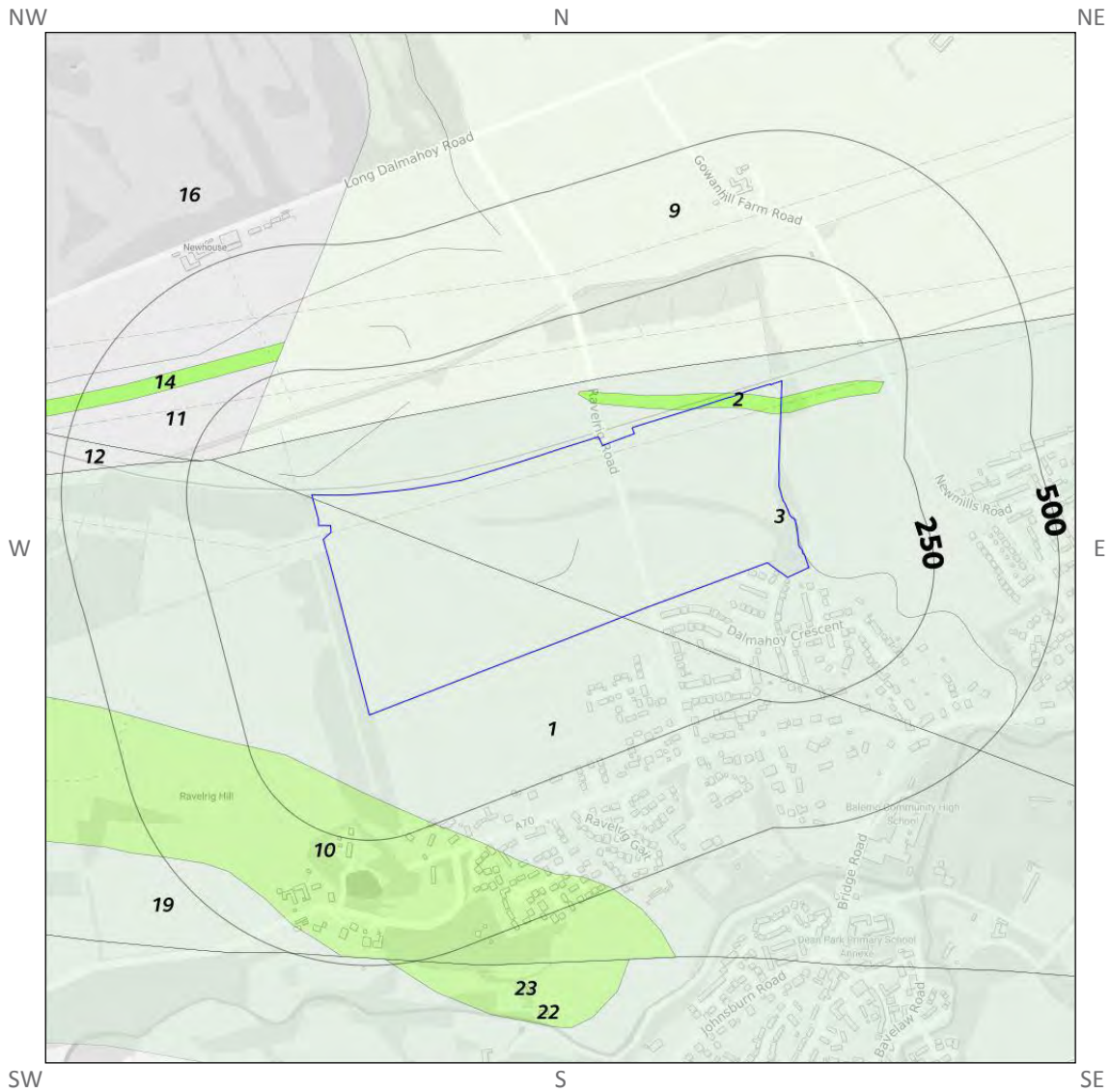
Superficial Deposits Map

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X Site Centre
-250 Search Buffers (m)
-500

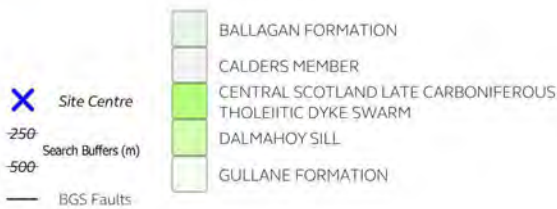
ALLUVIUM
GLACIOFLUVIAL ICE CONTACT DEPOSITS
TILL, DEVANSIAN

Bedrock and Faults Map



Bedrock and Faults Map

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4.1 Artificial Ground and Made Ground

Records of Artificial/Made Ground within 500m of the study site boundary	Yes
--	-----

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping

ID	Distance	Direction	Unit name	Rock Type	BGS Code
1	0	on site	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT	MGR-ARTDP
2	0	on site	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT	MGR-ARTDP
3	183	S	WORKED GROUND (UNDIVIDED)	VOID	WGR-VOID
4	318	SE	INFILLED GROUND	ARTIFICIAL DEPOSIT	WMGR-ARTDP
5	320	W	WORKED GROUND (UNDIVIDED)	VOID	WGR-VOID
6	336	W	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT	MGR-ARTDP
7	419	SE	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT	MGR-ARTDP
8	482	S	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT	MGR-ARTDP
9	494	SE	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT	MGR-ARTDP

4.2 Permeability of Artificial Ground

Records relating to permeability of artificial ground within 500m of the study site boundary	Yes
--	-----

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0	on site	Mixed	Very High	Low
0	on site	Mixed	Very High	Low
216	W	Mixed	Very High	Low
318	E	Mixed	Very High	Low
336	W	Mixed	Very High	Low
419	SE	Mixed	Very High	Low
482	SW	Mixed	Very High	Low
494	SE	Mixed	Very High	Low

4.3 Superficial Ground and Drift Geology

Records of Superficial Deposits/ Drift Geology within 500m of the study site boundary	Yes
---	-----

ID	Distance (m)	Direction	Unit name	Rock Type	BGS Code	BGS Unit Classification Link	BGS Rock Classification Link	Previous Name
----	--------------	-----------	-----------	-----------	----------	------------------------------	------------------------------	---------------

ID	Distance (m)	Direction	Unit name	Rock Type	BGS Code	BGS Unit Classification Link	BGS Rock Classification Link	Previous Name
1	0	on site	TILL, DEVENSIAN	DIAMICTON	TILLD-DMTN	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=TILLD	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
2	109	NW	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL	ALV-XCZSV	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=ALV	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
3	133	E	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL	ALV-XCZSV	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=ALV	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
4	182	NW	TILL, DEVENSIAN	DIAMICTON	TILLD-DMTN	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=TILLD	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
5	237	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
6	269	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
7	272	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-

ID	Distance (m)	Direction	Unit name	Rock Type	BGS Code	BGS Unit Classification Link	BGS Rock Classification Link	Previous Name
8	285	NE	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
9	315	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
10	346	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
11	392	S	TILL, DEVENSIAN	DIAMICTON	TILLD-DMTN	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=TILLD	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
12	401	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
13	449	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
14	456	NE	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-

ID	Distance (m)	Direction	Unit name	Rock Type	BGS Code	BGS Unit Classification Link	BGS Rock Classification Link	Previous Name
15	492	N	GLACIOFLUVIAL ICE CONTACT DEPOSITS	GRAVEL, SAND AND SILT	GFIC-XVSZ	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GFIC	http://www.bgs.ac.uk/data/maps/maps.cfm?method=listResults&m	-

4.4 Permeability of Superficial Ground

Records relating to permeability of superficial ground within 500m of the study site boundary	Yes
---	-----

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0	on site	Mixed	High	Low
109	NE	Intergranular	High	Very Low
133	SE	Intergranular	High	Very Low
182	N	Mixed	High	Low
211	NW	Mixed	High	Low
213	W	Mixed	High	Low
224	W	Intergranular	High	Very Low
237	N	Intergranular	Very High	Moderate
256	W	Mixed	High	Low
262	NE	Mixed	High	Low
269	N	Intergranular	Very High	Moderate
269	W	Mixed	High	Low
272	NE	Intergranular	Very High	Moderate
285	NE	Intergranular	Very High	Moderate
315	NE	Intergranular	Very High	Moderate
341	W	Intergranular	High	Very Low
346	N	Intergranular	Very High	Moderate
363	NW	Mixed	High	Low
392	SW	Mixed	High	Low
401	NE	Intergranular	Very High	Moderate
423	SW	Mixed	High	Low
449	N	Intergranular	Very High	Moderate
456	NE	Intergranular	Very High	Moderate

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
492	NE	Intergranular	Very High	Moderate

4.5 Bedrock and Solid Geology

Records of Bedrock/ Solid Geology within 500m of the study site boundary

ID	Distance (m)	Direction	Unit name	Rock Type	BGS Code	BGS Unit Classification Link	BGS Rock Classification Link	Previous Name
1	0	on site	BALLAGAN FORMATION	SANDSTONE	BGN-SDST	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=BGN	http://www.bgs.ac.uk/data/maps/maps.cfm?method=listResults&m	TYNINGHAME FORMATION BALLAGAN CEMENTSTONE FORMATION CEMENTSTONE GROUP
2	0	on site	CENTRAL SCOTLAND LATE CARBONIFEROUS THOLEIITIC DYKE SWARM	QUARTZ-MICROGABBRO	CSTD-MCQGB	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=CSTD	http://www.bgs.ac.uk/data/maps/maps.cfm?method=listResults&m	-
3	0	on site	BALLAGAN FORMATION	SANDSTONE	BGN-SDST	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=BGN	http://www.bgs.ac.uk/data/maps/maps.cfm?method=listResults&m	TYNINGHAME FORMATION BALLAGAN CEMENTSTONE FORMATION CEMENTSTONE GROUP
9	55	N	GULLANE FORMATION	SEDIMENTARY ROCK CYCLES, STRATHCLYDE GROUP TYPE	GUL-CYCS	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=GUL	http://www.bgs.ac.uk/data/maps/maps.cfm?method=listResults&m	LOWER OIL-SHALE GROUP [PART]
10	145	SW	DALMAHOY SILL	MICROGABBRO	DHOY-MCGB	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=DHOY	http://www.bgs.ac.uk/data/maps/maps.cfm?method=listResults&m	-

ID	Distance (m)	Direction	Unit name	Rock Type	BGS Code	BGS Unit Classification Link	BGS Rock Classification Link	Previous Name
11	167	NW	CALDERS MEMBER	SEDIMENTARY ROCK CYCLES, STRATHCLYDE GROUP TYPE	CDE-CYCS	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=CDE	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
12	230	W	CALDERS MEMBER	SEDIMENTARY ROCK CYCLES, STRATHCLYDE GROUP TYPE	CDE-CYCS	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=CDE	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
14	277	N	CENTRAL SCOTLAND LATE CARBONIFEROUS THOLEIITIC DYKE SWARM	QUARTZ-MICROGABBRO	CSTD-MCQGB	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=CSTD	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
16	308	N	CALDERS MEMBER	SEDIMENTARY ROCK CYCLES, STRATHCLYDE GROUP TYPE	CDE-CYCS	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=CDE	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-
19	419	SW	BALLAGAN FORMATION	SANDSTONE	BGN-SDST	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=BGN	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	TYNINGHAME FORMATION BALLAGAN CEMENTSTONE FORMATION CEMENTSTONE GROUP
22	485	S	BALLAGAN FORMATION	SANDSTONE	BGN-SDST	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=BGN	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	TYNINGHAME FORMATION BALLAGAN CEMENTSTONE FORMATION CEMENTSTONE GROUP

ID	Distance (m)	Direction	Unit name	Rock Type	BGS Code	BGS Unit Classification Link	BGS Rock Classification Link	Previous Name
23	488	S	DALMAHOY SILL	MICROGABBRO	DHOY-MCGB	http://www.bgs.ac.uk/Lexicon/lexicon.cfm?pub=DHOY	http://www.bgs.ac.uk/data/maps/maps.cfc?method=listResults&m	-

4.6 Permeability of Bedrock Ground

Records relating to permeability of bedrock ground within 500m of the study site boundary	Yes
---	-----

Distance (m)	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0	on site	Fracture	High	Moderate
0	on site	Fracture	Low	Low
55	NE	Fracture	High	Low
145	S	Fracture	Low	Low
167	NW	Fracture	High	Low
213	W	Fracture	High	Moderate
224	W	Fracture	High	Low
277	NW	Fracture	Low	Low
308	NW	Fracture	High	Low
313	W	Fracture	Low	Low
328	W	Fracture	Low	Low
338	W	Fracture	High	Low

This includes an automatically generated 50m buffer zone around the site

4.7 Faults

Records of Faults within 1000m of the study site boundary	Yes
---	-----

Distance	Direction	Category Description	Feature Description
0	on site	FAULT	Fault, inferred
0	on site	LANDFORM	Glacial meltwater channel centre line, undifferentiated
0	on site	LANDFORM	Glacial meltwater channel centre line, undifferentiated

Distance	Direction	Category Description	Feature Description
39	N	LANDFORM	Glacial meltwater channel centre line, undifferentiated
55	N	FAULT	Fault, inferred
230	W	FAULT	Fault, inferred, displacement unknown
279	N	LANDFORM	Glacial meltwater channel centre line, undifferentiated
352	NW	LANDFORM	Glacial meltwater channel centre line (head)
359	NW	LANDFORM	Glacial meltwater channel centre line (tail)
442	N	LANDFORM	Glacial meltwater channel centre line, undifferentiated
484	S	FAULT	Fault, inferred

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale. This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

4.8 Landslip

Records of Landslip within 500m of the study site boundary?	No
---	----

Database searched and no data found.

4.9 Landslip Permeability

Records relating to permeability of landslips within 500m of the study site boundary	No
--	----

Database searched and no data found.

*This includes an automatically generated 50m buffer zone around the site

4.10 Groundwater Vulnerability and Soil Classification

Records of Groundwater Classification within 250m of the site	Yes
---	-----

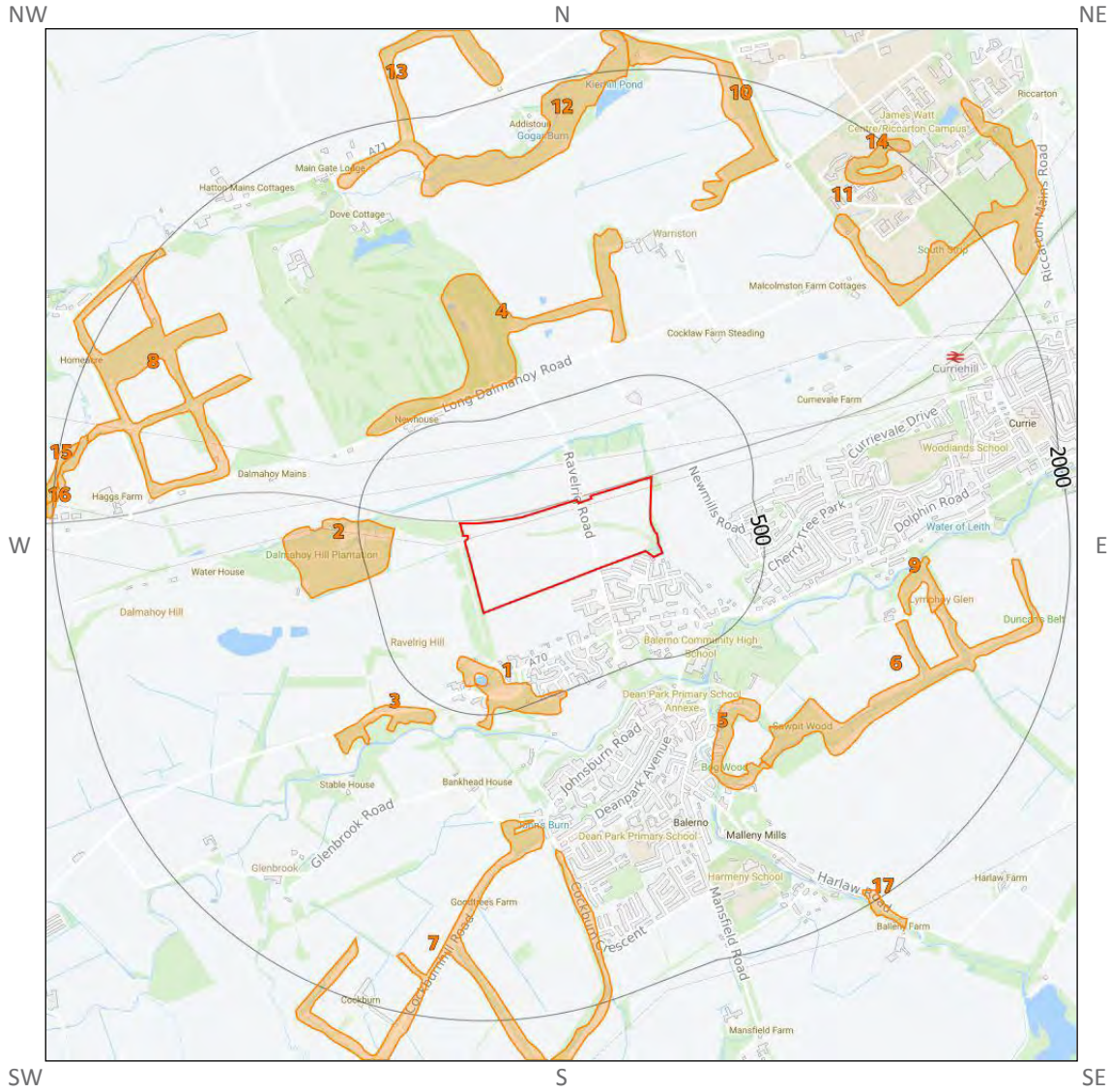
The following groundwater information is not represented on mapping:

Bedrock Geology

Distance (m)	Direction	Description	Type	Layer	Rock Description
0	on site	Aquifers in which flow is dominantly in fissures and other discontinuities	Highly productive aquifers (not extensive)	SOLID	Carboniferous: Dinantian and Namurian

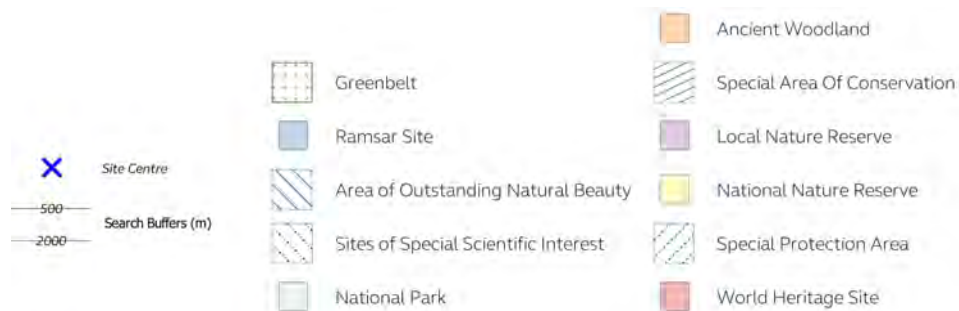
5 Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites Map



Designated Environmentally Sensitive Sites Map

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Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site?	Yes
--	-----

5.1 Sites of Special Scientific Interest (SSSI)

Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:	0
--	---

Database searched and no data found.

5.2 Ramsar Sites

Records of Ramsar sites within 2000m of the study site:	0
---	---

Database searched and no data found.

5.3 National Nature Reserves (NNR)

Records of National Nature Reserves (NNR) within 2000m of the study site:	0
---	---

Database searched and no data found.

5.4 Special Areas of Conservation (SAC)

Records of Special Areas of Conservation (SAC) within 2000m of the study site:	0
--	---

Database searched and no data found.

5.5 Special Protection Areas (SPA)

Records of Special Protection Areas (SPA) within 2000m of the study site:	0
---	---

Database searched and no data found.

5.6 Local Nature Reserves (LNR)

Records of Local Nature Reserves (LNR) within 2000m of the study site:	0
--	---

Database searched and no data found.

5.7 World Heritage Sites

Records of World Heritage Sites within 2000m of the study site:	0
---	---

Database searched and no data found.

5.8 Areas of Outstanding Natural Beauty (AONB)

Records of Areas of Outstanding Natural Beauty (AONB)/National Scenic Areas within 2000m of the study site:	0
---	---

Database searched and no data found.

5.9 National Parks

Records of National Parks within 2000m of the study site:	0
---	---

Database searched and no data found.

5.10 Green Belt

Records of Green Belt land within 2000m of the study site:	0
--	---

Database searched and no data found.

5.11 Designated Ancient Woodland

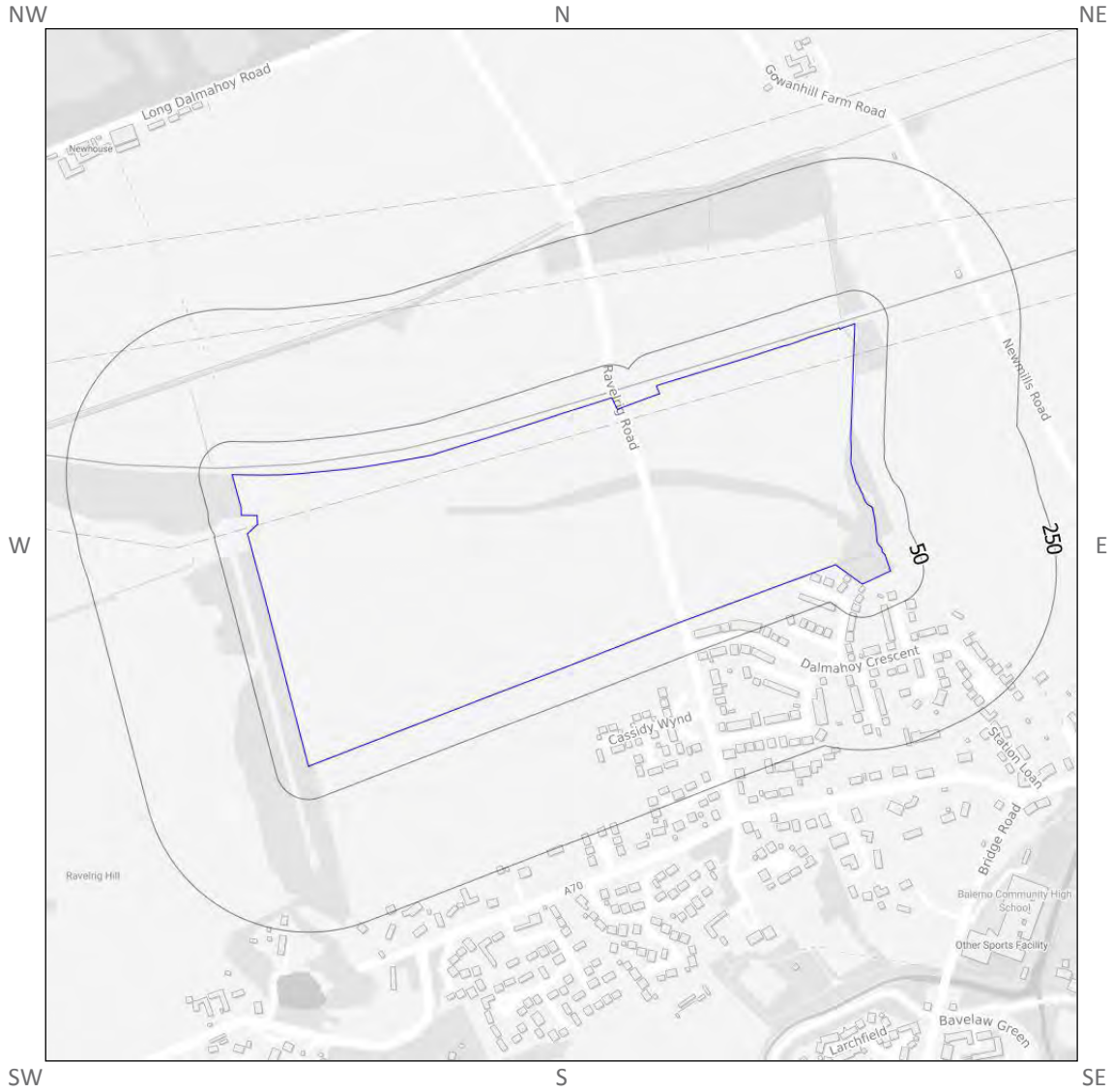
Records of Ancient Woodland within 2000m of the study site:	17
---	----

The following Ancient Woodland Records records are provided by Natural England/Natural Resources Wales/Scottish Natural Heritage:

ID	Distance (m)	Direction	Ancient Woodland Name	Ancient Woodland Type
1	234	S	Unknown	Long-Established (of plantation origin)
2	323	W	DALMAHOY PLANTATION	Long-Established (of plantation origin)
3	541	SW	Unknown	Long-Established (of plantation origin)
4	563	NW	MUIR O' DEAN	Long-Established (of plantation origin)
5	798	SE	Unknown	Ancient (of semi-natural origin)
6	1000	SE	BLACK WOOD / SAWPIT WOOD	Long-Established (of plantation origin)
7	1026	S	Unknown	Long-Established (of plantation origin)
8	1159	W	Unknown	Long-Established (of plantation origin)
9	1176	E	BLACK WOOD / SAWPIT WOOD	Long-Established (of plantation origin)
10	1329	N	Unknown	Long-Established (of plantation origin)
11	1467	NE	Unknown	Long-Established (of plantation origin)
12	1595	N	CROW WOOD	Ancient (of semi-natural origin)
13	1734	N	Unknown	Long-Established (of plantation origin)
14	1745	NE	Unknown	Long-Established (of plantation origin)
15	1868	W	Unknown	Ancient (of semi-natural origin)
16	1910	W	Unknown	Ancient (of semi-natural origin)
17	1925	SE	Unknown	Ancient (of semi-natural origin)

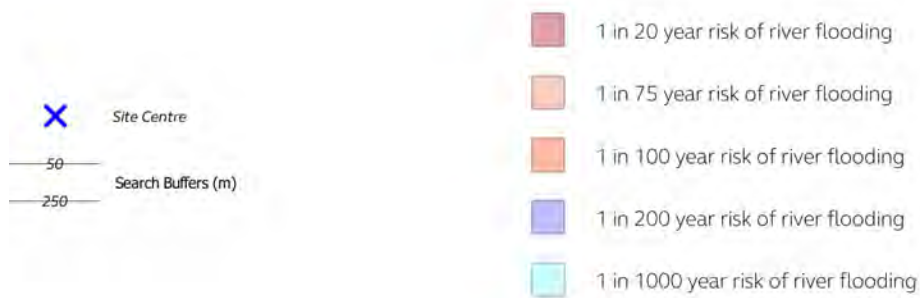
6 Flooding

River Flooding Map



River Flooding Map

Flood data provided by JBA Risk Management, Copyright JBA Risk Management Limited. 2008 - 2019



Coastal Flooding Map

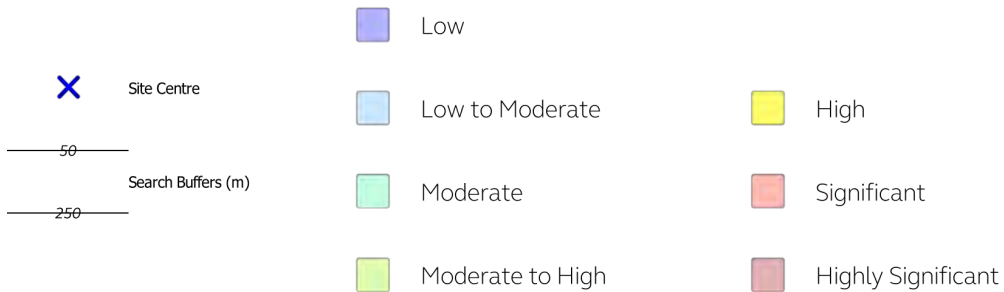


Surface Water (pluvial) Flooding



Surface Water (pluvial) Flooding

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6.1 River Flooding

Highest risk of river flooding.	Negligible
---------------------------------	------------

The data is provided by JBA Risk Management. This is modelled data on a national scale. Large-scale national flood maps provide a convenient and consistent approach to peril assessment; they are indicative and are not a substitute for detailed site level hydraulic modelling. Further study may be required to assess the level of flood hazard for a specific development.

6.2 Coastal Flooding

Highest risk of coastal flooding.	Negligible
-----------------------------------	------------

The data is provided by JBA Risk Management. This is modelled data on a national scale. Large-scale national flood maps provide a convenient and consistent approach to peril assessment; they are indicative and are not a substitute for detailed site level hydraulic modelling. Further study may be required to assess the level of flood hazard for a specific development.

6.3 JBA Surface (Pluvial) Water Flooding

Surface Water (pluvial) flooding is defined as flooding caused by rainfall-generated overland flow before the runoff enters a watercourse or sewer. In such events, sewerage and drainage systems and surface watercourses may be entirely overwhelmed.

Surface Water (pluvial) flooding will usually be a result of extreme rainfall events, though may also occur when lesser amounts of rain falls on land which has low permeability and/or is already saturated, frozen or developed. In such cases overland flow and 'ponding' in topographical depressions may occur.

What is the risk of pluvial flooding at the study site?	Moderate
---	----------

Guidance: The site has been assessed to be at a Moderate Risk of surface water (pluvial) flooding. This indicates that this area would be expected to be affected by surface water flooding in a 1 in 200 year rainfall event to a depth of between 0.3m and 1m.

This data is provided by JBA Risk Management, © Jeremy Benn Associates Limited 2008-2019

The following pluvial (surface water) flood risk records within 50m of the study site are shown on the JBA Surface Water Flooding Map:

Distance	Direction	Risk
0	on site	Low to Moderate
0	on site	Low to Moderate
0	on site	Low to Moderate
0	on site	Low to Moderate
0	on site	Low
0	on site	Low
0	on site	Low
0	on site	Low
0	on site	Low
0	on site	Low
0	on site	Moderate
0	on site	Moderate
1	E	Low
2	E	Low to Moderate

Distance	Direction	Risk
4	N	Low
6	E	Low
6	N	Low
7	E	Low to Moderate
7	E	Low
8	N	High
8	N	Low
9	E	Low
9	E	Low
9	N	High
11	E	Low to Moderate
11	N	Significant
13	N	Low
15	N	High
17	N	High
17	N	Low
38	N	Low
50	S	Low

6.4 Groundwater Flooding Susceptibility Areas

Are there any British Geological Survey groundwater flooding susceptibility flood areas within 50m of the boundary of the study site?	Yes
What is the susceptibility to Groundwater Flooding in the search area based on the underlying geological conditions?	Potential for groundwater flooding at surface
Does this relate to Clearwater Flooding or Superficial Deposits Flooding?	Clearwater & Superficial Deposits Flooding

6.5 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result?	High
---	------

Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

6.6 BGS Geological Indicators of Flooding

Are there any geological indicators of flooding within 250m of the study site?	Yes
--	-----

This dataset identifies the presence of superficial geological deposits which indicate that the site may be, or have been in the past, vulnerable to inland and/or coastal flooding. This assessment does not take account of any man-made factors such as flood protection schemes, and the data behind the report are purely geological.

Distance (m)	Direction	Description
109	NE	Higher flood potential from rivers: the first areas to experience the effects of inland flooding in a river catchment.
133	SE	Higher flood potential from rivers: the first areas to experience the effects of inland flooding in a river catchment.
224	W	Higher flood potential from rivers: the first areas to experience the effects of inland flooding in a river catchment.

6.7 JBA Reservoir Failure Impact Modelling

Is the property located in an area identified as being at potential risk in the event of a reservoir failure?	Yes
---	-----

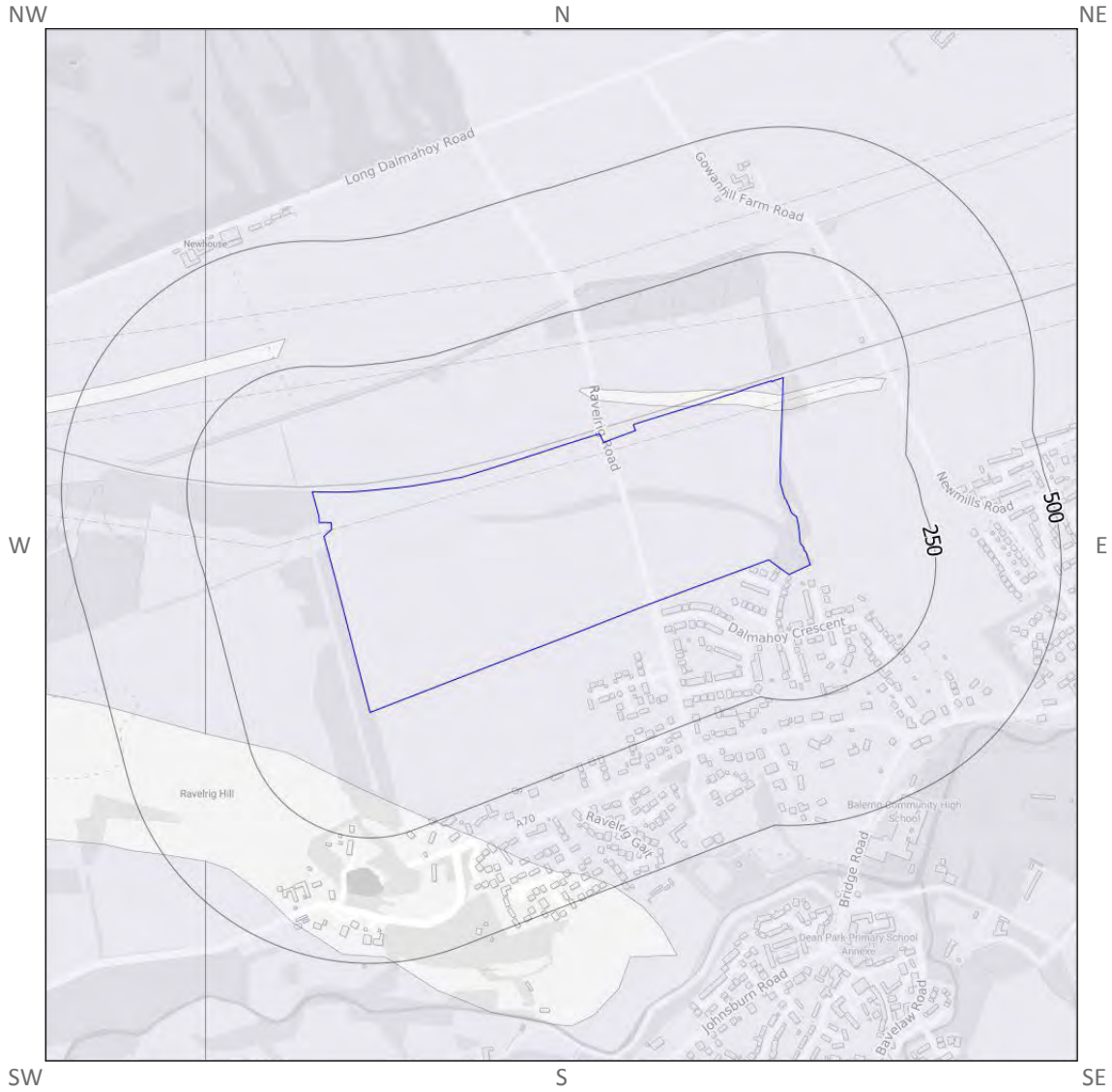
JBA Risk Management have modelled the flooding impact from 1,700 reservoirs in the UK, should there be a catastrophic failure of a reservoir wall or embankment.

Guidance: The property is in an area at risk should a reservoir fail. Such events are extremely rare with the last event being 1925, however if the property is operational the potential for reservoir failure should be included in any business continuity plan.

This data is provided by JBA Risk Management, © Jeremy Benn Associates Limited 2008-2019

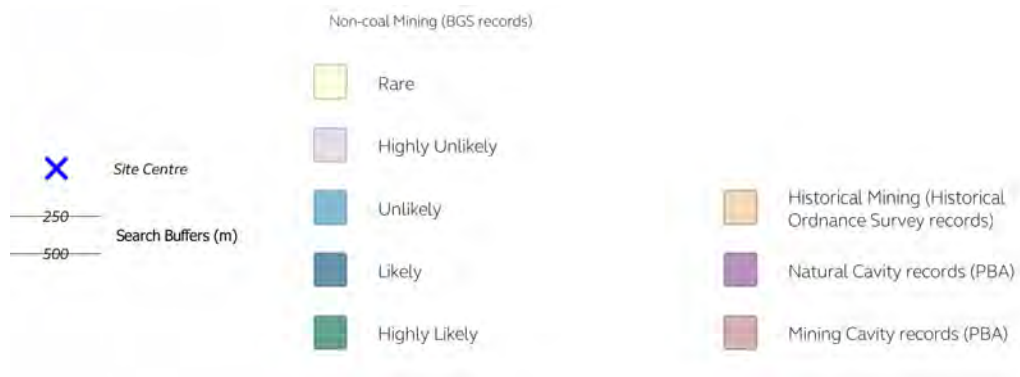
7 Mining

Mining, Extraction & Natural Cavities



Mining, Extraction & Natural Cavities

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7.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary?	No
--	----

Database searched and no data found.

7.2 Coal Mining

Database searched and no data found.

7.3 Johnson Poole and Bloomer

Are there any JPB Mining areas within 1000m of the study site boundary?	No
---	----

Database searched and no data found.

7.4 Non-Coal Mining

The following non-coal mining information is provided by the BGS:

ID	Distance (m)	Direction	Name	Rating	Commodity	Assessment of likelihood
1	0	on site	Not available	Highly Unlikely	Vein Mineral	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
2	213	W	Not available	Highly Unlikely	Vein Mineral	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

ID	Distance (m)	Direction	Name	Rating	Commodity	Assessment of likelihood
3	338	NW	Not available	Highly Unlikely	Vein Mineral	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

7.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary?	No
---	----

Database searched and no data found.

7.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

Are there any Natural Cavities within 1000m of the study site boundary?	No
---	----

Database searched and no data found.

7.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary?	No
---	----

Database searched and no data found.

7.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary?	No
--	----

Database searched and no data found.

7.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level.

Are there any Tin Mining areas within 1000m of the study site boundary?	No
---	----

Database searched and no data found.

7.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary?	No
--	----

Database searched and no data found.

8 Natural Hazards Findings

Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m to account for the scale of mapping used to derive the information within this database (1:50,000 scale). The data is included in tabular format. The following information has been found:

8.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site?	Very Low
---	----------

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazards
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

8.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site?	Moderate
--	----------

The following natural subsidence information provided by the British Geological Survey is not represented on mapping.

Hazards
Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build – consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property – probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

8.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site?	Negligible
--	------------

The following natural subsidence information provided by the British Geological Survey is not represented on mapping.

Hazards
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

8.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site?	Very Low
--	----------

The following natural subsidence information provided by the British Geological Survey is not represented on mapping

Hazards

Hazards

Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

8.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site?	Very Low
--	----------

The following natural subsidence information provided by the British Geological Survey is not represented on mapping.

Hazards

Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

8.6 Running Sand

What is the maximum Running Sand* hazard rating identified on the study site?	Very Low
---	----------

The following natural subsidence information provided by the British Geological Survey is not represented on mapping.

Hazards

Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

8.7 Radon Potential

Maximum radon potential at the study site	The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.
---	---

The Radon Potential Dataset is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland, created jointly by Public Health England (PHE) and the BGS using long-term radon measurements made in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland (without affecting householders' confidentiality), combined with geological map data. The findings of this dataset supercede any findings derived from the generalised Indicative Atlas of Radon.

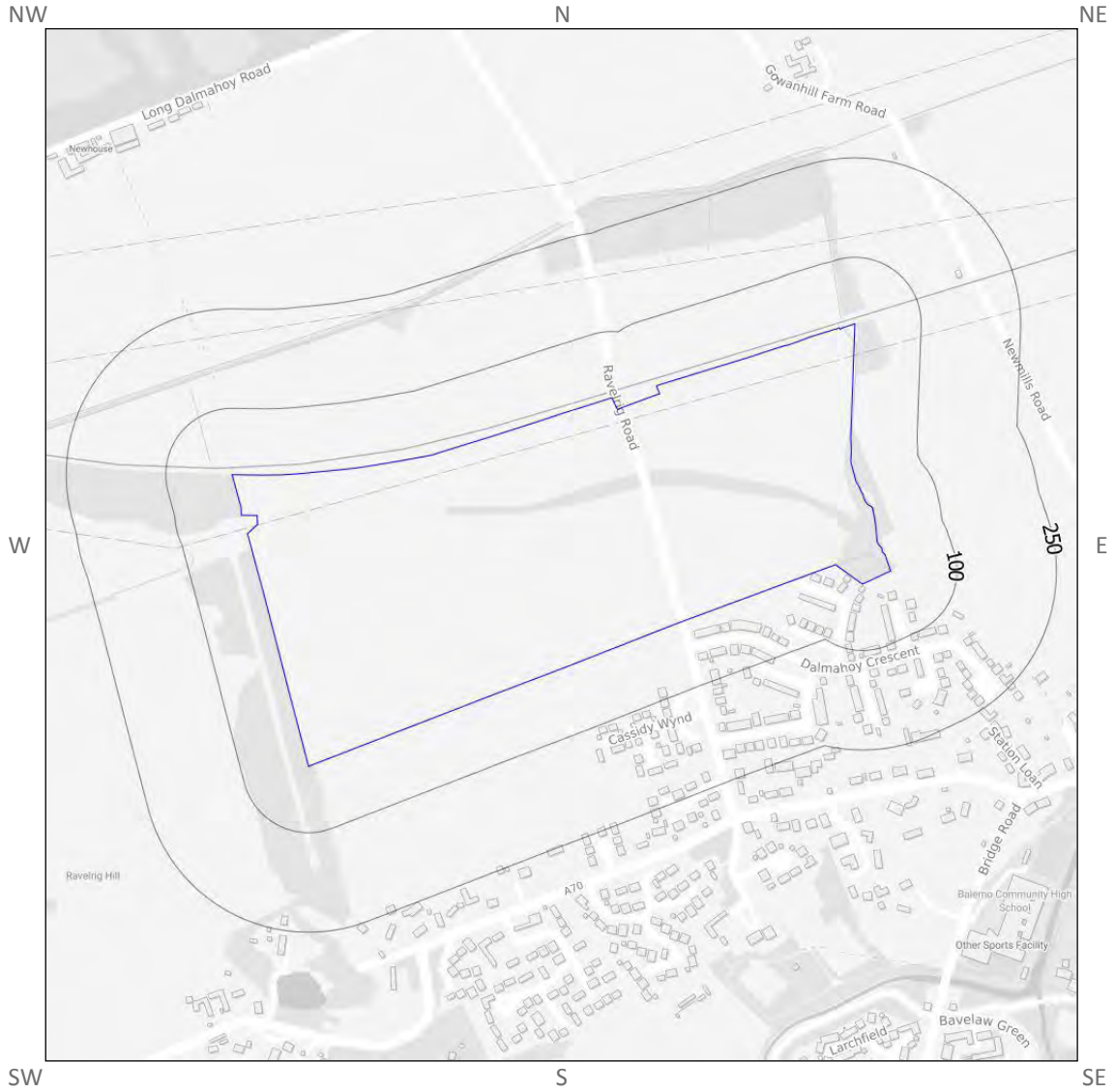
8.8 Radon Protective Measures

Radon protection measures required for new properties or extensions to existing properties	No radon protective measures are necessary.
--	---

The responses given on the level of radon protective measures required are based on a joint radon potential dataset from Public Health England (PHE) and the British Geological Survey (BGS). No radon protection measures are required.

9 Borehole Records

Borehole Records Map



Borehole Records Map

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9.1 Borehole Records

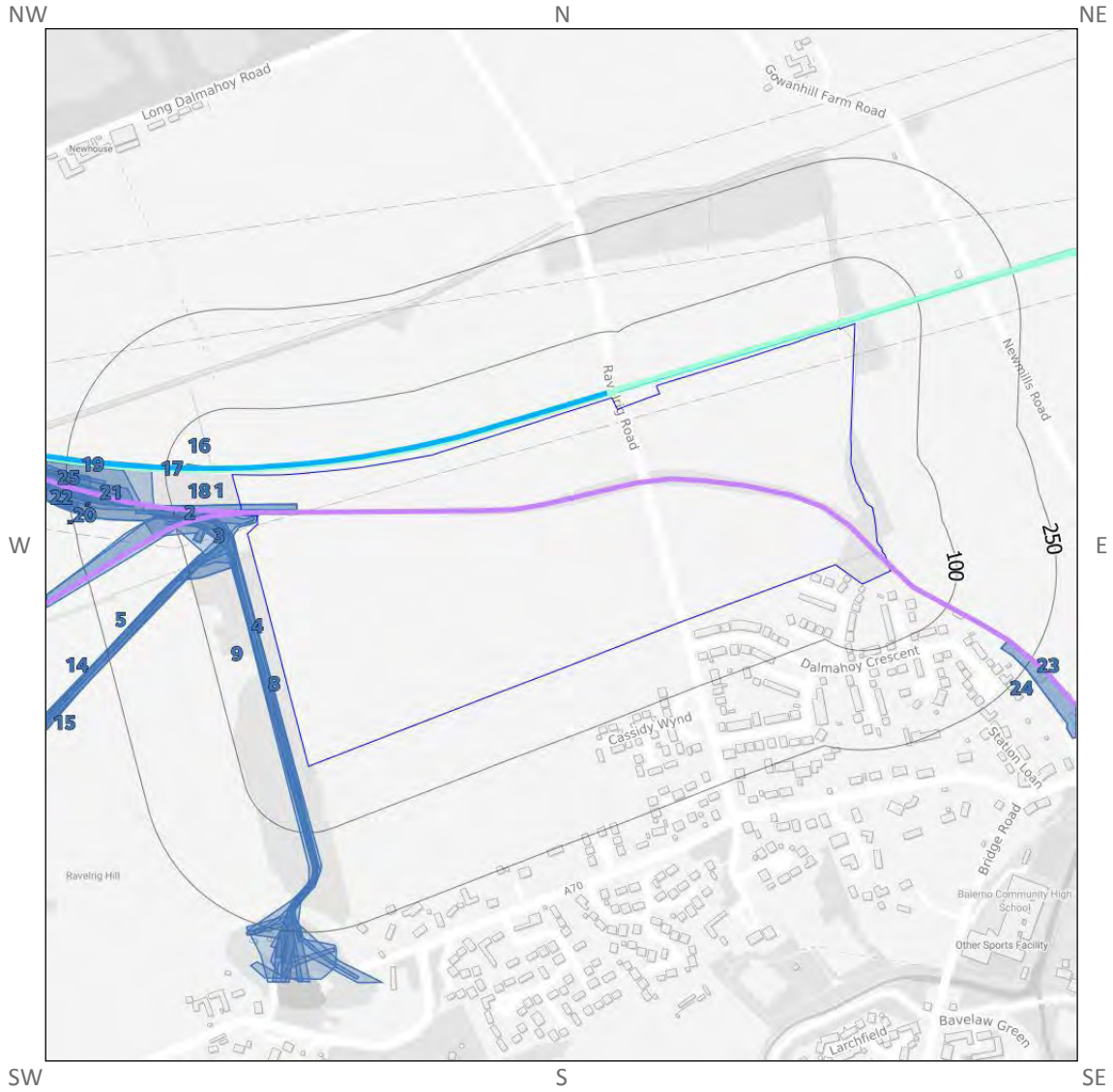
The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary	0
---	---

Database searched and no data found.

10 Railways and Tunnels

Railways and Tunnels Map



Railways and Tunnels Map

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10.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary?	No
Have any underground railway lines been identified within 250m of the study site boundary?	No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels Map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary?	No
Have any other railway tunnels been identified within 250m of the site boundary?	No

Any records that have been identified are represented on the Railways and Tunnels Map.

10.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary?	Yes
Have any historical railway or tunnel features been identified within 250m of the study site boundary?	Yes

Railways (1:10,000 scale historical mapping)

Distance	Direction	NGR	Details	Date
0	on site	314988 667149	Railway Sidings	1915
0	on site	314994 667156	Railway Sidings	1905
0	on site	314499 667049	Tramway Sidings	1893
141	W	314589 667563	Railway Sidings	1893
203	SE	316463 667118	Railway Sidings	1915
203	SE	316463 667118	Railway Sidings	1905
214	W	314877 667461	Railway Sidings	1954

Railways (1:2,500 and 1:1,1250 scale historical mapping)

Distance	Direction	NGR	Details	Date
0	on site	315128 667402	Railway Sidings	1906

Distance	Direction	NGR	Details	Date
0	on site	315128 667402	Railway Sidings	1892
0	on site	315188 667403	Railway Sidings	1912
1	SW	314495 667049	Tramway Sidings	1892
24	W	314868 667048	Tramway Sidings	1906
26	W	314874 667049	Tramway Sidings	1912
31	NW	315164 667471	Railway Sidings	1892
31	NW	315164 667471	Railway Sidings	1912
31	NW	315164 667471	Railway Sidings	1906
154	W	314965 667447	Railway Sidings	1906
154	W	314965 667447	Railway Sidings	1892
155	W	314928 667447	Railway Sidings	1912
236	W	314968 667416	Railway Sidings	1906
236	W	314968 667416	Railway Sidings	1892
236	W	314964 667416	Railway Sidings	1912

Any records that have been identified are represented on the Railways and Tunnels Map.

10.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary?	Yes
Have any historical railway lines been identified within 250m of the study site boundary?	Yes

Distance	Direction	Status
0	on site	Abandoned

Distance	Direction	Status
0	on site	Abandoned

Note: multiple sections of the same track may be listed in the detail above

Any records that have been identified are represented on the Railways and Tunnels Map.

10.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary?	No
Have any active railway lines been identified within 250m of the study site boundary?	Yes

Ordnance Survey Records

Distance	Direction	Name	Type
8	N	Not given	Multi Track
9	N	Not given	Multi Track

OpenStreetMap Records

Distance	Direction	Name	Type
5	N	Edinburgh to Glasgow via Shotts	rail
8	N	Edinburgh to Glasgow via Shotts	rail

10.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project?	No
Is the study site within 500m of the route of the Crossrail 1 rail project?	No

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a [Groundsure HS2 and Crossrail 1 Report](#).

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

11 Soil Chemistry

11.1 Estimated Background Soil Chemistry

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Records of background estimated soil chemistry potentially within the study site boundary:	35
--	----

The BGS Estimated Ambient Background Soil Chemistry dataset has been developed at a 1:50,000 scale, and hence any records found within 50m of the site are displayed within this table as potentially being present on site. Please note, if the search area is in an urban area, then As, Cd, Cr, Ni and Pb concentrations are likely to be significantly higher than indicated by the estimated ambient background concentrations.

Distance (m)	Direction	Sample Type	Arsenic (As) (mg/kg)	Cadmium (Cd) (mg/kg)	Chromium (Cr) (mg/kg)	Nickel (Ni) (mg/kg)	Lead (Pb) (mg/kg)	Bioaccessible lead (mg/kg)
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg

Distance (m)	Direction	Sample Type	Arsenic (As) (mg/kg)	Cadmium (Cd) (mg/kg)	Chromium (Cr) (mg/kg)	Nickel (Ni) (mg/kg)	Lead (Pb) (mg/kg)	Bioaccessible lead (mg/kg)
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
9	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
11	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
4	NE	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
11	NE	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg

Distance (m)	Direction	Sample Type	Arsenic (As) (mg/kg)	Cadmium (Cd) (mg/kg)	Chromium (Cr) (mg/kg)	Nickel (Ni) (mg/kg)	Lead (Pb) (mg/kg)	Bioaccessible lead (mg/kg)
18	E	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
10	N	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
22	NE	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
3	W	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
39	SW	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
47	NW	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
22	NE	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
13	NW	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
20	SW	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
11	NE	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg
0	on site	Sediment	<15 mg/kg	<1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg	<100 mg/kg	<60 mg/kg

11.2 Estimated Urban Soil Chemistry

Records of urban estimated soil chemistry potentially within the study site boundary.

0

Database searched and no data found.

11.3 Measured Urban Soil Chemistry

Records of urban measured soil chemistry within 500m of the study site boundary:	0
--	---

Database searched and no data found.

Contacts

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