

Viking CCS Pipeline

9.7 Supplementary Environmental Information: Geophysical Survey Report and Assessment Update

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Applicant: Chrysaor Production (U.K.) Limited,
a Harbour Energy Company
PINS Reference: EN070008
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The Infrastructure Planning (Applications: Prescribed Forms
and Procedure) Regulations 2009 - Regulation 5(2)(q)
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1 Introduction

1.1 Overview

- 1.1.1 On 23 October 2023 Chrysaor Production (UK) Limited (the Applicant) submitted an application under section 37 of the Planning Act 2008 (the PA 2008) for an order granting development consent for the Viking CCS Pipeline (the Proposed Development).
- 1.1.2 On 17 November 2023 the Planning Inspectorate accepted the application for examination.
- 1.1.3 This application was accompanied by an Environmental Statement (ES), and this included *ES Volume II Chapter 8 Historic Environment* [AS-023]. The assessment presented in the ES chapter was based on desk-based research, including consideration of aerial photography and LiDAR. The assessment submitted was in line with national guidance (i.e., paragraph 5.8.9 of the 2011 EN-1, now paragraph 5.9.11 of the recently adopted November 2023 EN-1, and paragraph 200 of the NPPF) and is considered sufficient to assess the affected interests and inform the necessary scope of mitigation measures, including pre-commencement surveys and a written scheme of investigation.
- 1.1.4 Geophysical survey was proposed as described in the Written Scheme of Investigation (*ES Volume IV, Appendix 8.3* [AS-001]). The ES Chapter confirmed that this supplementary information would be submitted post-DCO application and that it was intended to enhance the baseline study and confirm the impact assessment.
- 1.1.5 Geophysical survey work commenced in November 2022. This addendum is based on the results of the survey undertaken to the end of December 2023 and as reported in the geophysical survey report presented in Appendix B (Ref.1-3) of this report. This addendum is therefore provided in line with the objective of enhancing the baseline as reported in the ES chapter, and to confirm the impact assessment.
- 1.1.6 The scope of these surveys has been agreed with the relevant local authority archaeologists at North Lincolnshire Council, North East Lincolnshire Council, East Lindsey District Council, West Lindsey District Council along with Lincolnshire County Council. Following completion of the geophysical survey programme, a programme of archaeological evaluation comprising trial trenching and geoarchaeological assessment is proposed (*ES Volume IV, Appendix 8.3 (Application Document 6.4.8.3)*) (Ref. 1-2); this is anticipated to commence in the first quarter of 2024.

2 The Geophysical Survey

Introduction

- 2.1.1 Geophysical survey was undertaken to enhance the baseline study and inform the impact assessment. It was carried out within all available and accessible land within the Order Limits (also referred to as the DCO Site Boundary within the ES). Development and/or vegetation cover across some areas within the Order Limits has precluded survey. The majority of surveyable land has been surveyed (368 hectares surveyed) prior to the production of the addendum.
- 2.1.2 Initially, a 50m transect centred on the indicative pipeline route was proposed for geophysical survey, to be widened locally to the full Order Limits, where archaeology was encountered. Following feedback on the Scoping Report and PEIR; and in discussion with Historic England and the archaeological advisors to East Lindsey District Council, Lincolnshire County Council, North Lincolnshire Council and North East Lincolnshire Council, geophysical survey has been widened to cover the full Order Limits (100m transect across the full limits of the DCO. Only approximately 5% was surveyed using a 50m transect. Following review of the results from these areas it is not considered that this presents a substantive deficiency in survey coverage and therefore it has not been considered necessary to re-access these areas to extend survey coverage to the full 100m transect.
- 2.1.3 The contractor engaged to undertake the geophysical survey work, AOC, assigned each land parcel a unique number, running from the Immingham Facility to the Theddlethorpe Facility. Figure 1, contained within Appendix A, shows the location of non-designated heritage assets, including AOC geophysical survey Interpretation along the route of the pipeline.
- 2.1.4 Appendix C of this report provides details of the assessment of the survey findings for each field parcel split into the following categories:
- Definite/Probable Archaeology;
 - Possible Archaeology;
 - Unclear;
 - Agricultural; and
 - Non-Archaeological.
- 2.1.5 The report on the geophysical survey prepared by AOC is provided within Appendix B.

3 Assessment Update based on Geophysical Survey Report

- 3.1.1 A field by field updated assessment of impacts and residual effects based on the results of the geophysical survey is presented in Appendix C.
- 3.1.2 Where geophysical survey has identified fields with probable archaeological evidence, these fields have been grouped where they form coherent archaeological sites (assets). The following sections below provide a summary of the assessment of these areas of probable archaeology. Appendix C contains a more detailed analysis of the results of the geophysical survey, including the fields which indicate minor, negligible or no effect.
- 3.1.3 The assessment of effects on archaeology in the ES was carried out on known assets identified from historic environment record data and an assessment of LIDAR and aerial photographic evidence. The geophysical surveyed provides an additional data set enhancing the archaeological baseline information, allowing further refinement of the assessment of effects on archaeology. A concordance of the reported effects in the ES alongside the effects reported field by field as a result of the geophysical survey detailed in Table 6, Appendix D. A summary comparison of the reported effects made in the ES against those reported in this addendum based on the geophysical survey is presented in Section 4.

3.2 Section 1

- 3.2.1 Geophysical survey within Section 1 has identified three archaeological assets that would potentially experience significant effects from the Scheme. These are:
- A series of enclosures of potential Roman date within field 11;
 - Two enclosures of potential Roman date within field 22; and
 - A series of enclosures and trackway of potential Roman date spanning fields 23, 24, 25 and 26.
- 3.2.2 Excavation of launch and reception pits for the trenchless auger bore crossing of Manby Road, construction of the pipeline within its standard working width of 30m, and establishment and use of the laydown, welfare and parking area here would have a direct physical permanent impact on the archaeology represented by the enclosures within field 11 identified by the geophysics. This asset is a non-designated asset of regional importance and therefore **medium** value. The potential impact would significantly alter the heritage value of this asset and would be of **medium magnitude** resulting in a **moderate adverse effect**. This effect is considered to be significant and permanent.
- 3.2.3 Construction of the pipeline within its standard working width of 30m would have a direct physical permanent impact on archaeological remains relating to the two enclosures identified by geophysical survey in field 22. This asset is a non-designated asset of regional importance and therefore **medium** value. The potential impact would significantly alter the heritage value of this asset and would be of **medium magnitude** resulting in a **moderate adverse effect**. This effect is considered to be significant and permanent.
- 3.2.4 The series of enclosures and trackway spanning fields 23, 24, 25 and 26 are considered to be a non-designated asset of regional importance and therefore **medium value**. Construction of the pipeline within its standard working width of 30 would have the potential to significantly alter the heritage value of this asset The potential magnitude of impact is

considered to be **medium** and the resultant effect would potentially be **moderate adverse**, permanent and significant.

- 3.2.5 In addition, the geophysical survey results in Section 1 indicate that anomalies are present for which an archaeological origin cannot be ruled out. These are considered to be potentially non-designated assets of local significance. Taking a precautionary approach physical impacts from construction of the pipeline could have a minor adverse effect on geophysical anomalies recorded in one field, and permanent negligible adverse effect on geophysical anomalies recorded in two fields.
- 3.2.6 No anomalies indicating archaeological potential were found in two fields within Section 1.

3.3 Section 2

3.3.1 Within Section 2, geophysical survey has identified five archaeological assets that would potentially experience significant effects from the Scheme. These are:

- A group of enclosures in field 32 of potential prehistoric or Roman date;
- A fragmented group of curvilinear features representing ditches that may form an enclosure in field 33 of potential prehistoric or Roman date;
- A coherent group of rectilinear enclosures in field 38 possibly of Roman date;
- Linear anomalies likely to represent buried ditches along various alignments that may represent enclosures across fields 45 and northern edge of field 46; and
- A cluster of discrete anomalies and linear anomalies within field 57b possibly indicating an enclosure.

3.3.2 Construction of the pipeline within its standard working width of 30m would have a direct physical permanent impact on archaeological remains relating to the group of enclosures identified by geophysical survey in field 32. This asset is a non-designated asset of regional importance and therefore **medium** value. The potential impact would significantly alter the heritage value of this asset and would be of **medium magnitude** resulting in a **moderate adverse effect**. This effect is considered to be significant and permanent.

3.3.3 The fragmented geophysical anomalies of probable archaeological origin in field 33 are considered to be a non-designated asset of local significance and therefore of **low value**. Construction of the pipeline within its standard working width of 30m would have a direct physical permanent impact on archaeological remains relating to these anomalies significantly altering their heritage value. The magnitude of impact would potentially be **medium** and the resultant effect would be **minor adverse**, permanent.

3.3.4 The archaeological remains relating to enclosures indicated by the results of the geophysical survey in field 38 are considered to be a non-designated asset of regional significance and therefore of **medium value**. The heritage value of this asset would be significantly altered by construction of the pipeline within its working width of 30m, which would potentially be a **medium magnitude** impact. The resultant effect would be **moderate adverse**, permanent and significant.

3.3.5 Construction of the pipeline within its standard working width of 30m would have a direct physical permanent impact on archaeological remains relating to potential enclosures identified by the geophysical survey in fields 45 and the northern edge of field 46. This asset is a non-designated asset of regional importance and therefore **medium** value. The potential impact would significantly alter the heritage value of this asset and would be of **medium magnitude** resulting in a **moderate adverse effect**. This effect is considered to be significant and permanent.

- 3.3.6 The potential enclosure indicated by the results of the geophysical survey in field 57b is considered to be a non-designated asset of regional significance and therefore **medium value**. The heritage value of this asset would be significantly altered by construction of the pipeline within its working width of 30m. This would potential be a **medium magnitude** impact on this asset. The resultant effect would be **moderate adverse**, permanent and significant.
- 3.3.7 In addition, the geophysical survey results in Section 2 indicate that anomalies are present for which an archaeological origin cannot be ruled out. These are considered to be potential non-designated assets of local significance. Taking a precautionary approach physical impacts from construction of the pipeline could have a minor adverse effect on geophysical anomalies recorded in 10 fields, and permanent negligible adverse effect on geophysical anomalies recorded in eight fields.
- 3.3.8 No anomalies indicating archaeological potential were found in 14 fields within Section 2.

3.4 Section 3

- 3.4.1 Within Section 3 geophysical survey has identified seven archaeological assets that would potentially experience significant effects from the Scheme. These are:
- A complex of fragmented linear and curvilinear anomalies apparently forming a series of enclosures in field 70;
 - A series of discrete anomalies of unclear origin in field 73 for which a precautionary approach is being taken due to the close proximity of Welbeck Saxon cemetery;
 - A group of fragmented enclosures and discrete anomalies possibly representing pits spanning the southern half of field 102 and northern half of field 103. The enclosures are potentially of prehistoric or Roman date;
 - A complex of rectilinear enclosures in field 109 likely of Roman or earlier date;
 - A relatively sparse group of linear and rectilinear anomalies that could represent the heavily disturbed remains of former field systems or enclosure in field 115;
 - Fragmented enclosures across fields 128 and 129, with a denser more coherent group of rectilinear enclosures and possible trackway in field 130 all of which could be related and of possible prehistoric or Roman date; and
 - A relatively small area in the northern half of field 135 where geophysical survey recorded linear and pit like features that may indicate the presence of an enclosure of prehistoric or Roman date. The limited extent and partially fragmented nature of the anomalies suggest any archaeology present has suffered from later disturbance.
- 3.4.2 The archaeological remains indicated by the results of the geophysical survey in field 70 are considered to be a non-designated asset of regional significance and therefore **medium value**. The heritage value of this asset would be significantly altered by construction of the pipeline within its working width of 30m, which would potentially be a **medium magnitude** impact. The resultant effect would be **moderate, adverse**, permanent and significant.
- 3.4.3 Discrete anomalies recorded by the geophysical survey in field 73 are categorised as unclear in origin by the geophysical survey interpretation. Given their close proximity to the site of Welbeck Saxon cemetery a precautionary approach is taken to the anomalies for the purpose of this assessment. They are therefore considered to be a non-designated asset of regional significance and have been assigned a **medium value**. Construction of the pipeline within its working width of 30m would potentially significantly alter the heritage value of this asset, resulting in a **medium magnitude** impact. The effect would be **moderate adverse**, permanent and significant.

- 3.4.4 The enclosures and potential pit features within fields 102 and 103 suggesting the presence of potential archaeology of prehistoric or Roman date. This non-designated asset is considered to be of regional significance and therefore **medium value**. Construction of the pipeline within its working width of 30m would potentially significantly alter the heritage value of this asset. The resultant impact would be potentially of **medium magnitude** and the effect would be **moderate adverse**, permanent and significant.
- 3.4.5 The concentration of rectilinear anomalies likely to represent ditches of a series of enclosures within field 109 would be subject to direct physical impact from construction of the pipeline within its 30m working width. This is a non-designated asset of regional importance and therefore **medium value**. The potential impact would significantly alter the heritage value of this asset and would be of **medium magnitude** resulting in a **moderate adverse effect**. This effect is considered to be significant and permanent.
- 3.4.6 The potential archaeological evidence in field 115 is considered to be a non-designated asset of local significance and therefore **low value** due to its sparse and fragmented nature exhibited in the geophysical survey results. The heritage value of this asset could be significantly altered by construction of the pipeline within its working width of 30m. This would potentially be a **medium magnitude** impact. The effect would be **minor adverse**, permanent.
- 3.4.7 The potential archaeological evidence indicated by geophysical survey results spanning fields 128, 129 and 130 could indicate the presence of archaeological activity including field systems and settlement of possible prehistoric or Roman date. This archaeological evidence is considered a non-designated asset of regional significance and therefore of **medium value**. Construction of the pipeline within its 30m working width would significantly alter its heritage value. The impact would be of **medium magnitude**. The resultant effect would be **moderate adverse**, permanent and significant.
- 3.4.8 The fragmented enclosure and potential pit features within the northern half of field 135 suggest the presence of potential archaeology of prehistoric or Roman date. Due to their limited extent and fragmented nature, they are considered to be a non-designated asset of local significance and therefore **low value**. Construction of the pipeline within its working width of 30m would significantly alter the heritage value of this asset. The impact would be of **medium magnitude** and the resultant effect would be **minor adverse** and permanent.
- 3.4.9 In addition, the geophysical survey results in Section 3 indicate that anomalies are present for which an archaeological origin cannot be ruled out. Taking a precautionary approach these are considered to be non-designated assets of local significance. Physical impacts from construction of the pipeline could have a minor adverse effect on geophysical anomalies recorded in one field, and permanent negligible adverse effect on geophysical anomalies recorded in 35 fields.
- 3.4.10 No anomalies indicating archaeological potential were found in 11 fields within Section 3.

3.5 Section 4

- 3.5.1 Within Section 4 geophysical survey has identified no archaeological assets that would potentially experience significant effects from the Scheme.
- 3.5.2 The geophysical survey results in Section 4 indicate that anomalies are present for which an archaeological origin cannot be ruled out. Taking a precautionary approach these are considered to be non-designated assets of local significance. Physical impacts from construction of the pipeline could have a permanent minor adverse effect on geophysical anomalies recorded in six fields, and permanent negligible adverse effect on geophysical anomalies recorded in 11 fields.
- 3.5.3 No anomalies indicating archaeological potential were found in 23 fields within Section 4.

3.6 Section 5

- 3.6.1 Within Section 5 geophysical survey has identified a single archaeological asset that would potentially experience significant effects from the Scheme. A series of rectilinear enclosures in the northern half of field 198 indicates the presence of archaeological of potential Roman date. This asset is a non-designated asset of regional importance and therefore **medium** value. The potential impact would significantly alter the heritage value of this asset and would be of **medium magnitude** resulting in a **moderate adverse effect**. This effect is considered to be significant and permanent.
- 3.6.2 In addition, the geophysical survey results in Section 5 indicate that anomalies are present for which an archaeological origin cannot be ruled out. Taking a precautionary approach these are considered to be assets of local significance. Physical impacts from construction of the pipeline could have a minor adverse effect on geophysical anomalies recorded in two fields, and permanent negligible adverse effect on geophysical anomalies recorded in six fields.
- 3.6.3 No anomalies indicating archaeological potential were found in 24 fields within Section 5.

3.7 Mitigation

- 3.7.1 The Archaeological mitigation strategy outlined in section 8.8 of ES Volume II: Chapter 8: Historic Environment [AS-023] and within ES Volume III: Appendix 8-3 Written Scheme of Investigation [AS-001], will be adopted for the above archaeological sites. This will include archaeological investigation and recording where impacts cannot be avoided. Mitigation via investigation and recording would not reduce the residual effect for physical impacts on archaeological remains.

4 Summary

- 4.1.1 The results of the geophysical survey have enabled a refinement of the assessment presented in the ES to be undertaken. A comparison of the residual effects reported in the ES against those resulting from the geophysical survey are presented in Appendix D.
- 4.1.2 The geophysical survey identified 74 fields where no anomalies that could represent archaeological remains were present. Using a precautionary approach, there were a further 80 fields where an archaeological origin for geophysical anomalies could not be ruled out.
- 4.1.3 For 17 fields the assessment of residual effect based on the results of the geophysics has the potential to be raised to moderate adverse. These fields are grouped into 10 archaeological sites (assets) in addition to those identified in the ES, which may be subject to a Moderate adverse residual effect (significant) as a result of the Proposed Development.
- 4.1.4 These archaeological sites are located with the following field(s):
- Field 11;
 - Field 22;
 - Fields 23 to 26;
 - Field 30;
 - Field 32 and 33
 - Field 70;
 - Field 73;
 - Field 109
 - Fields 102 and 103; and
 - Fields 127, 128 and 130.
- 4.1.5 Where the pipeline can be routed within the Order Limits to avoid or preserve archaeological remains, the magnitude of impact on such remains would be reduced such that the residual effect would not be considered significant. Where impacts cannot be avoided, mitigation will take the form of archaeological investigation and recording, to be undertaken as advanced works. This will be informed further following the commencement of the trial trenching, which is set to commence in quarter 1 of 2024.

5 References

Ref 51 (AECOM, 2023). ES Volume II Chapter 6 Historic Environment (Application Document 6.2.8):

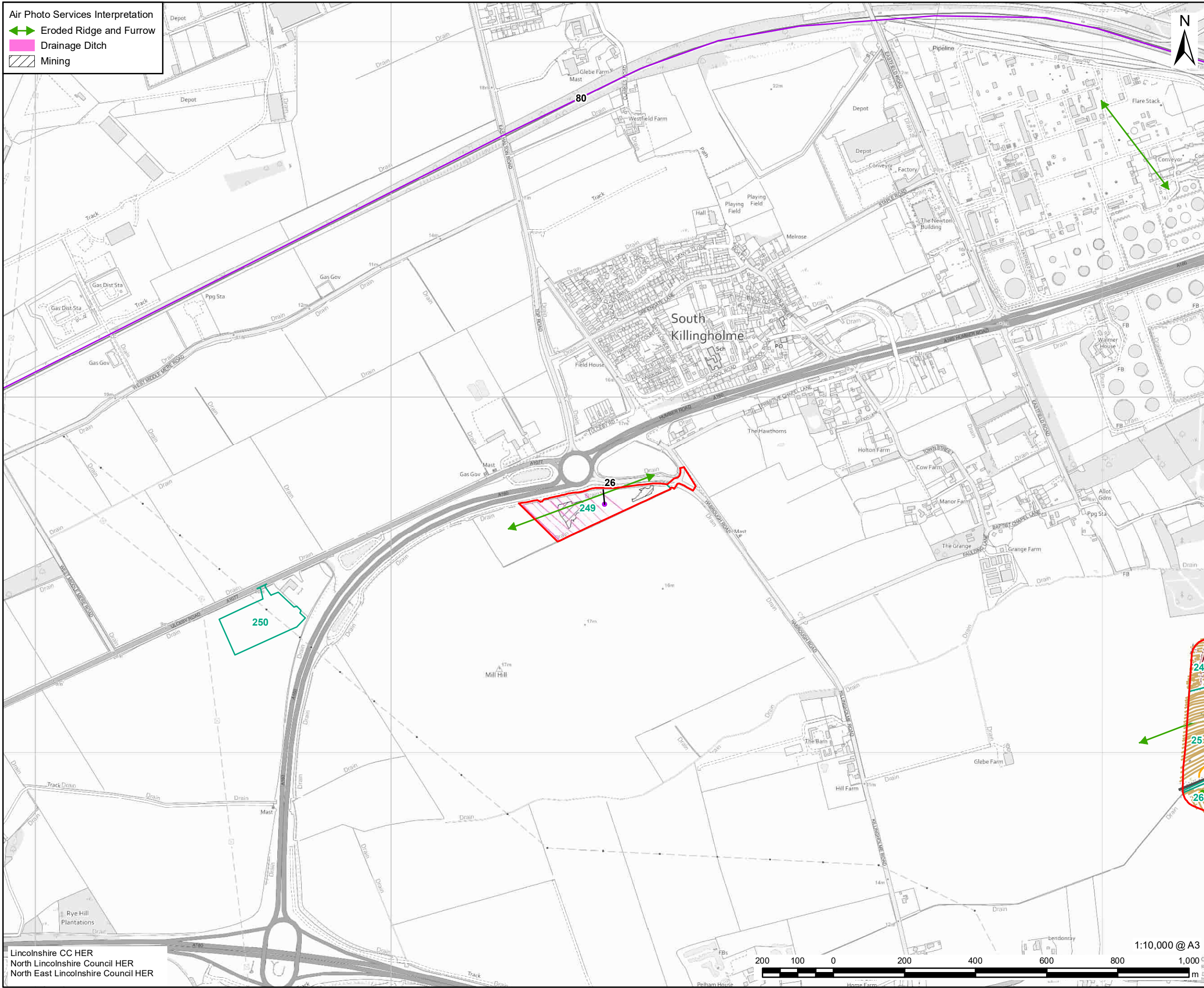
Ref 1-2 (AECOM, 2023). ES Volume IV, Appendix 8.3 (Application Document 6.4.8.3)

Ref 1-3 (AOC, 2023) Viking CCS Pipeline Archaeological Geophysical Survey

Appendix A - Location of Non-Designated Heritage Assets and AOC Geophysical Survey Interpretation

Air Photo Services Interpretation

- Eroded Ridge and Furrow
- Drainage Ditch
- Mining



- LEGEND**
- DCO Site Boundary
 - Geophysical Survey Area - AOC Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Geophysical Survey Interpretation (AOC)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Anomaly (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Geology/Natural)
 - Anomaly (Unclear Origin)

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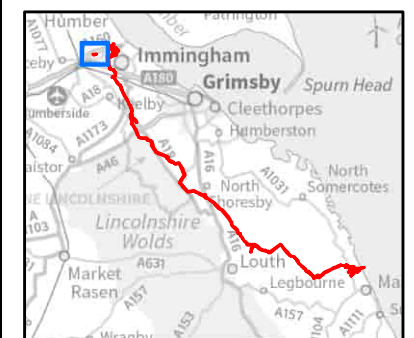
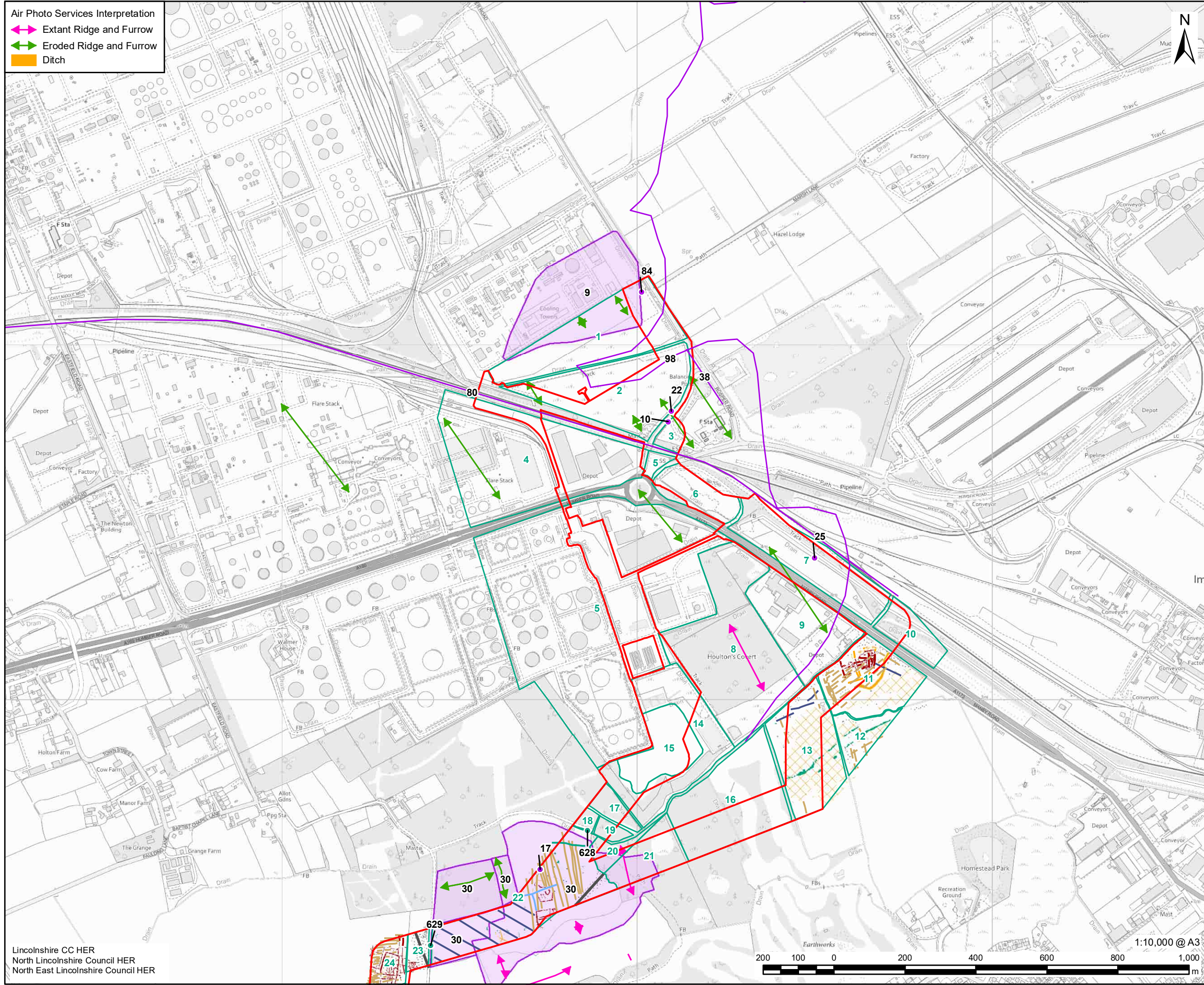


FIGURE TITLE
Figure 1 (1 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
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 North Lincolnshire Council HER
 North East Lincolnshire Council HER



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Air Photo Services Interpretation

- ↔ Extant Ridge and Furrow
- ↔ Eroded Ridge and Furrow
- Ditch

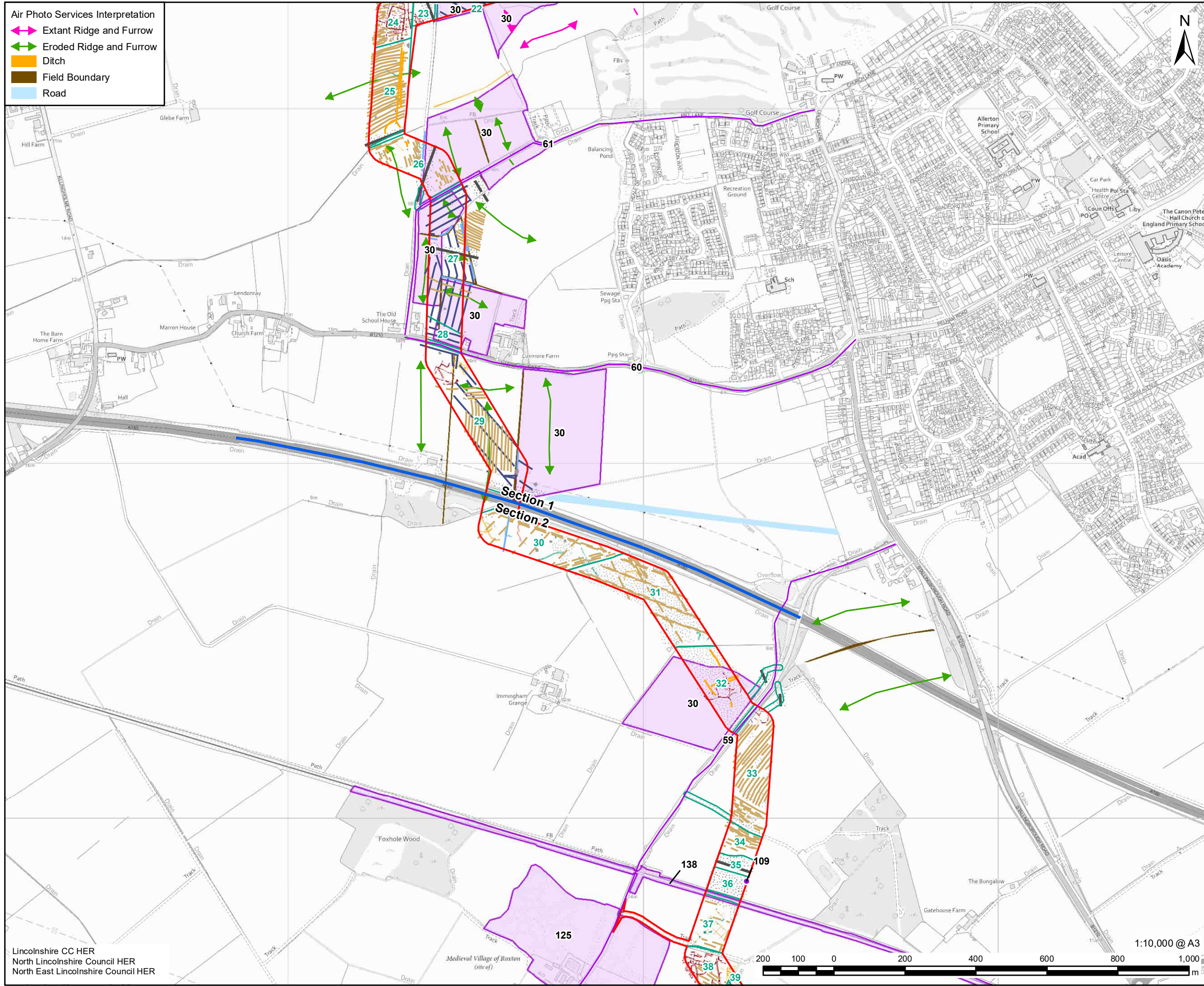
LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Probable Archaeology)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable)
 - Anomaly (Possible)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Agricultural)
 - Spread (Agricultural)
 - Spread (Geology/Natural)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Historic Feature)

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FIGURE TITLE
Figure 1 (2 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
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Air Photo Services Interpretation

- Extant Ridge and Furrow
- Eroded Ridge and Furrow
- Ditch
- Field Boundary
- Road

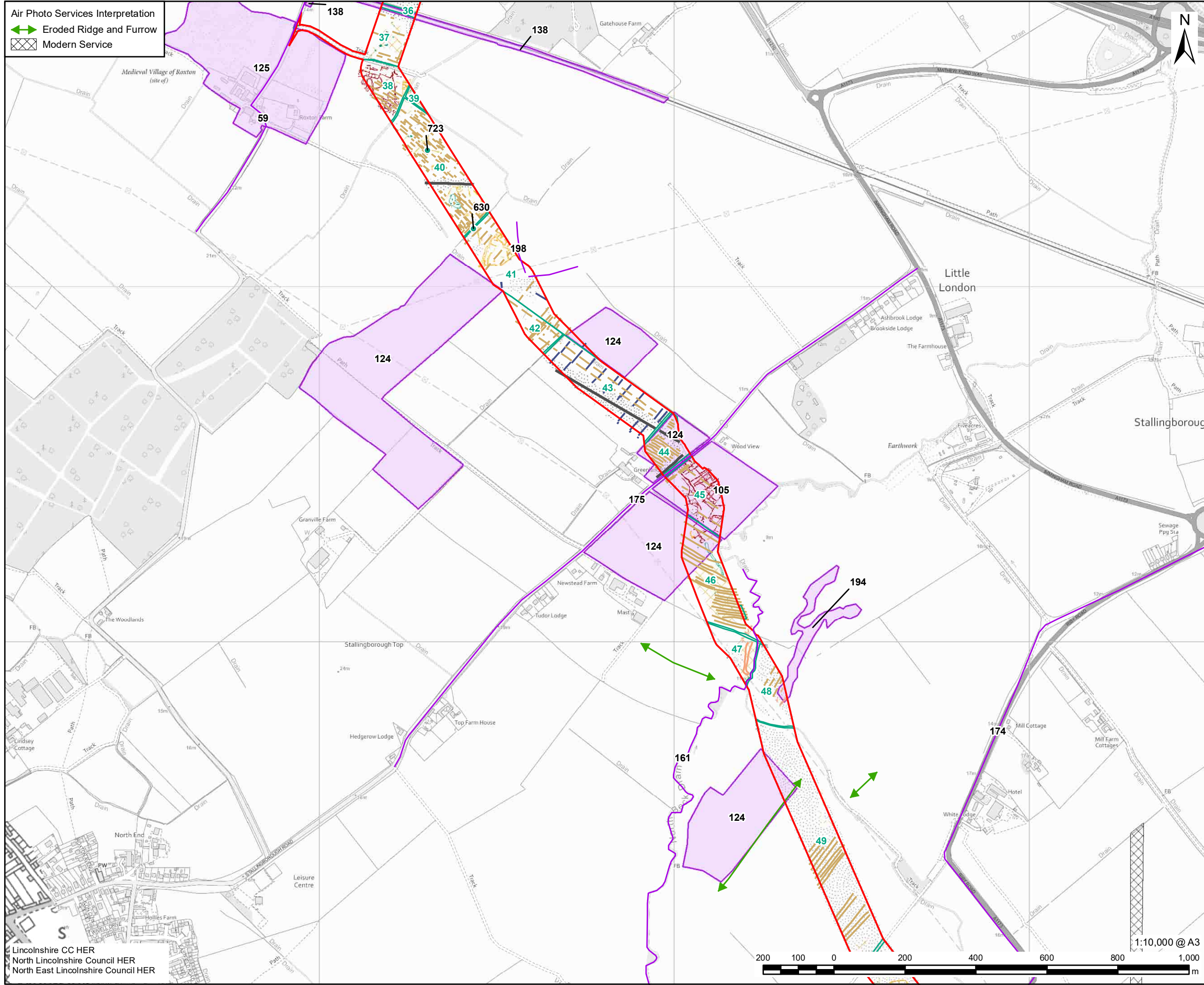
LEGEND

- DCO Site Boundary
 - Route Section Break
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Anomaly (Probable)
 - Spread (Probable)
 - Anomaly (Possible)
 - Spread (Possible)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)

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FIGURE TITLE
Figure 1 (3 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
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LEGEND

- DCO Site Boundary
- Geophysical Survey Area - AOC
- Field Numbers
- HER Monument - Point
- HER Monument - Line
- HER Monument - Area
- Additional Non-Designated

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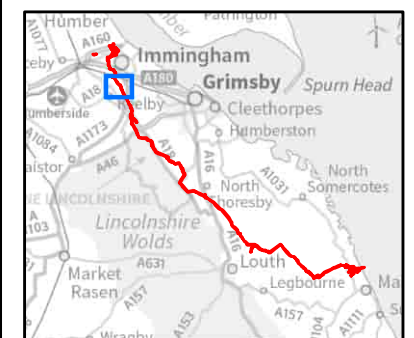
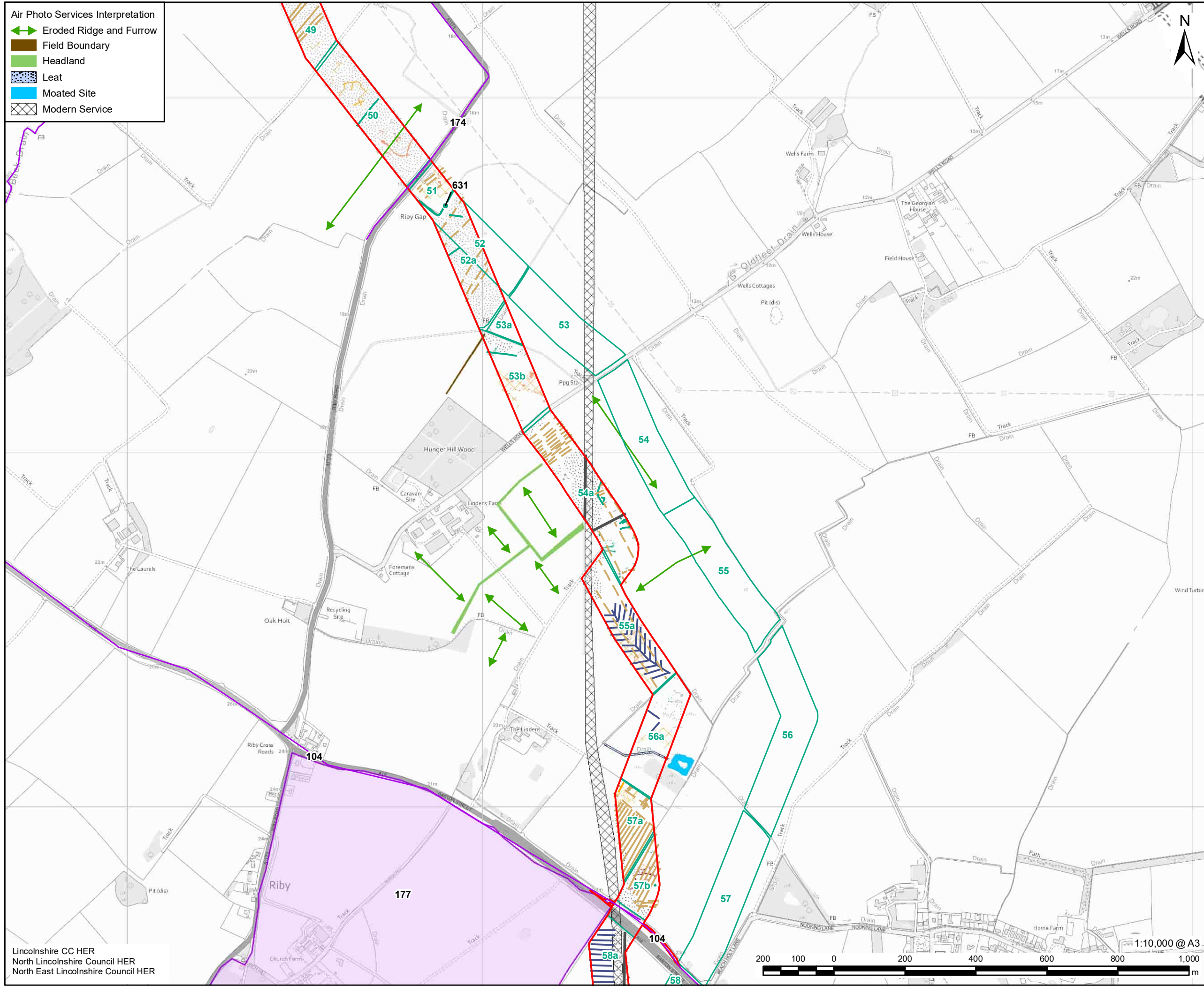


FIGURE TITLE

Figure 1 (4 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
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LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)

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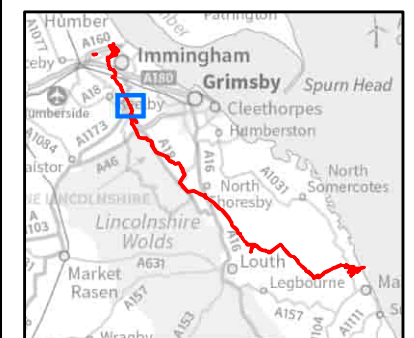


FIGURE TITLE

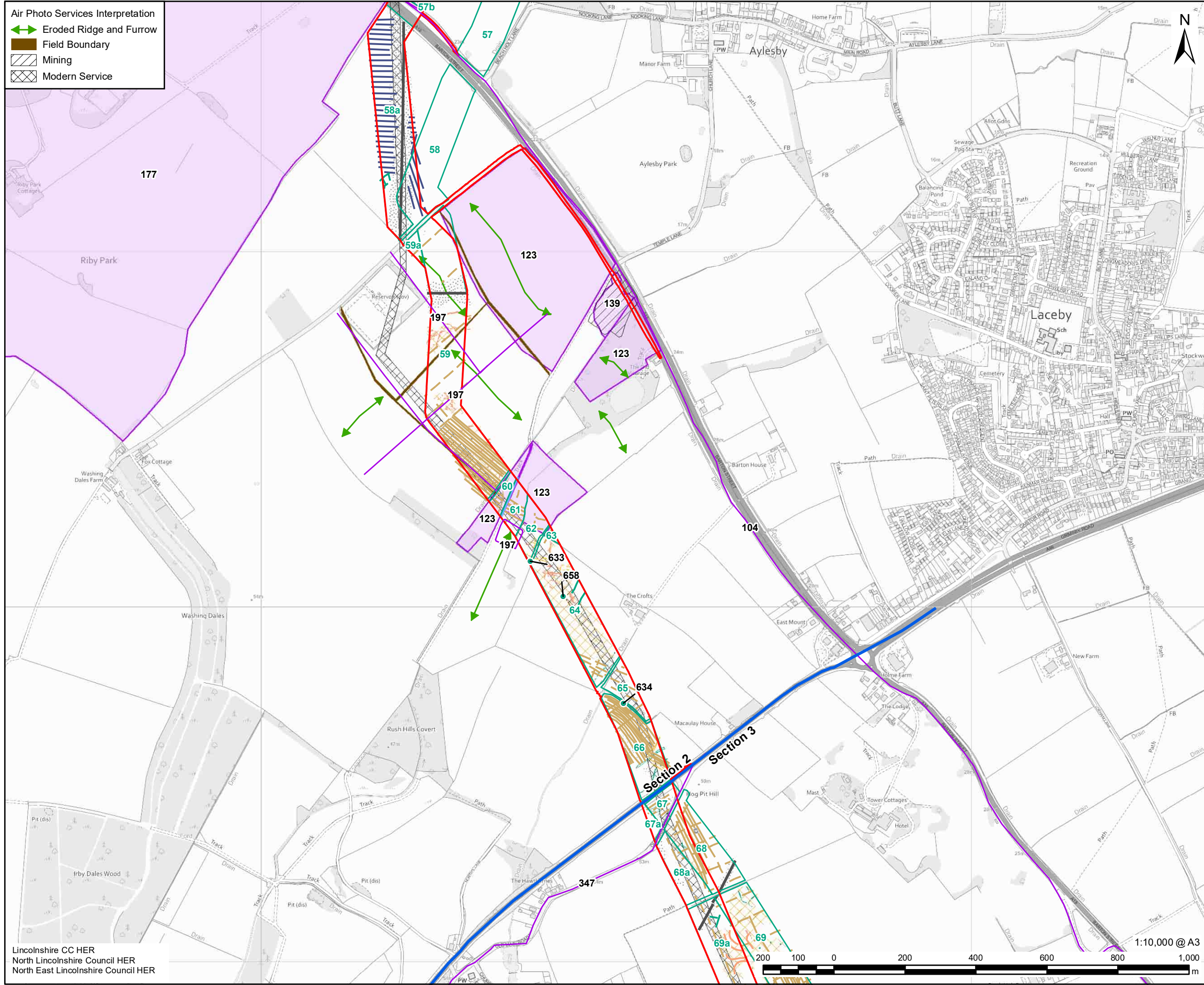
Figure 1 (5 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation

ISSUE PURPOSE

GEOPHYS ADDENDUM

PROJECT NUMBER / REFERENCE

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 North East Lincolnshire Council HER

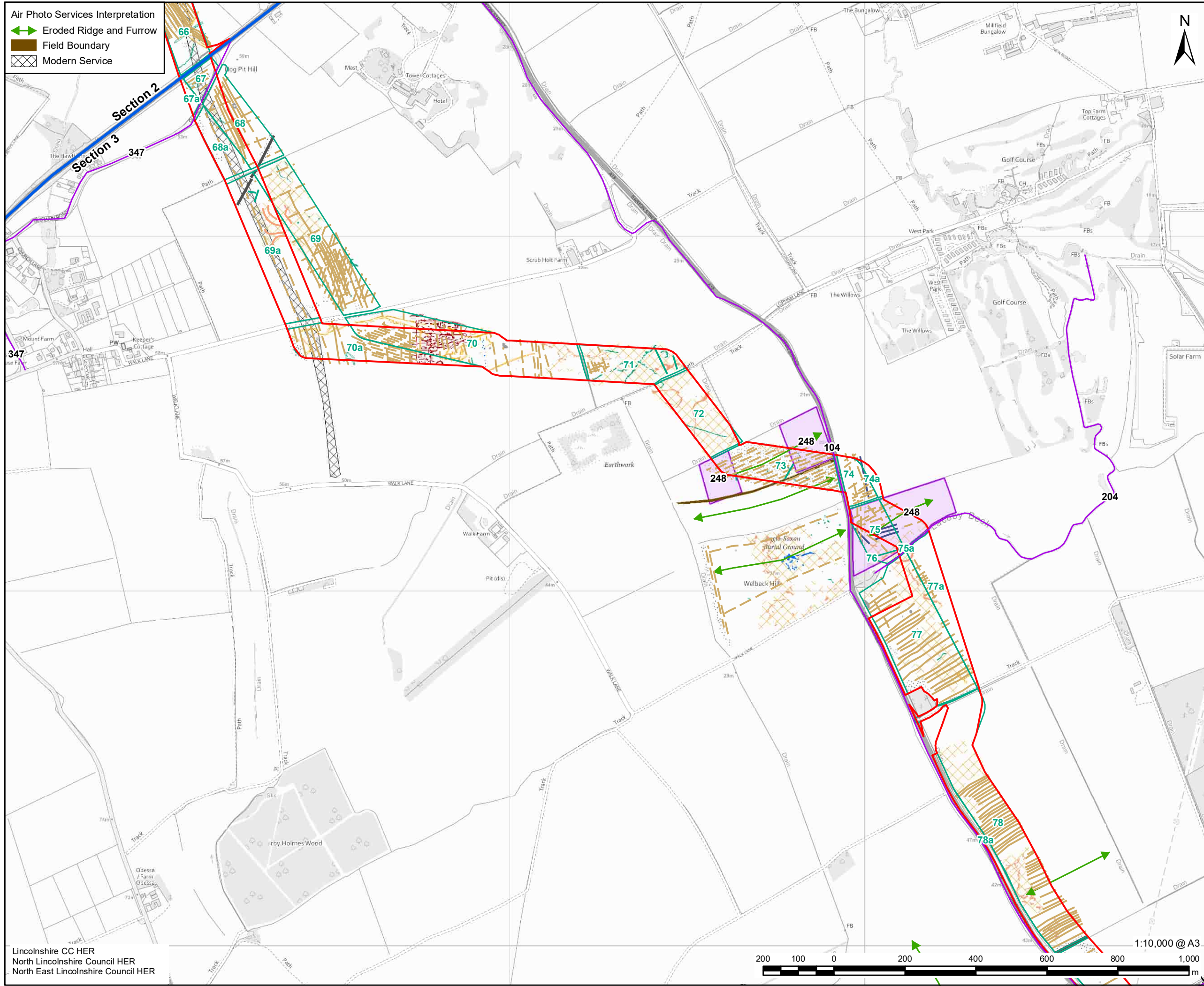
LEGEND

- DCO Site Boundary
 - Route Section Break
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Geology/Natural)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Agricultural)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)

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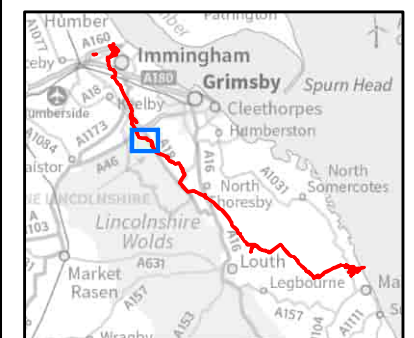
FIGURE TITLE
Figure 1 (6 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1

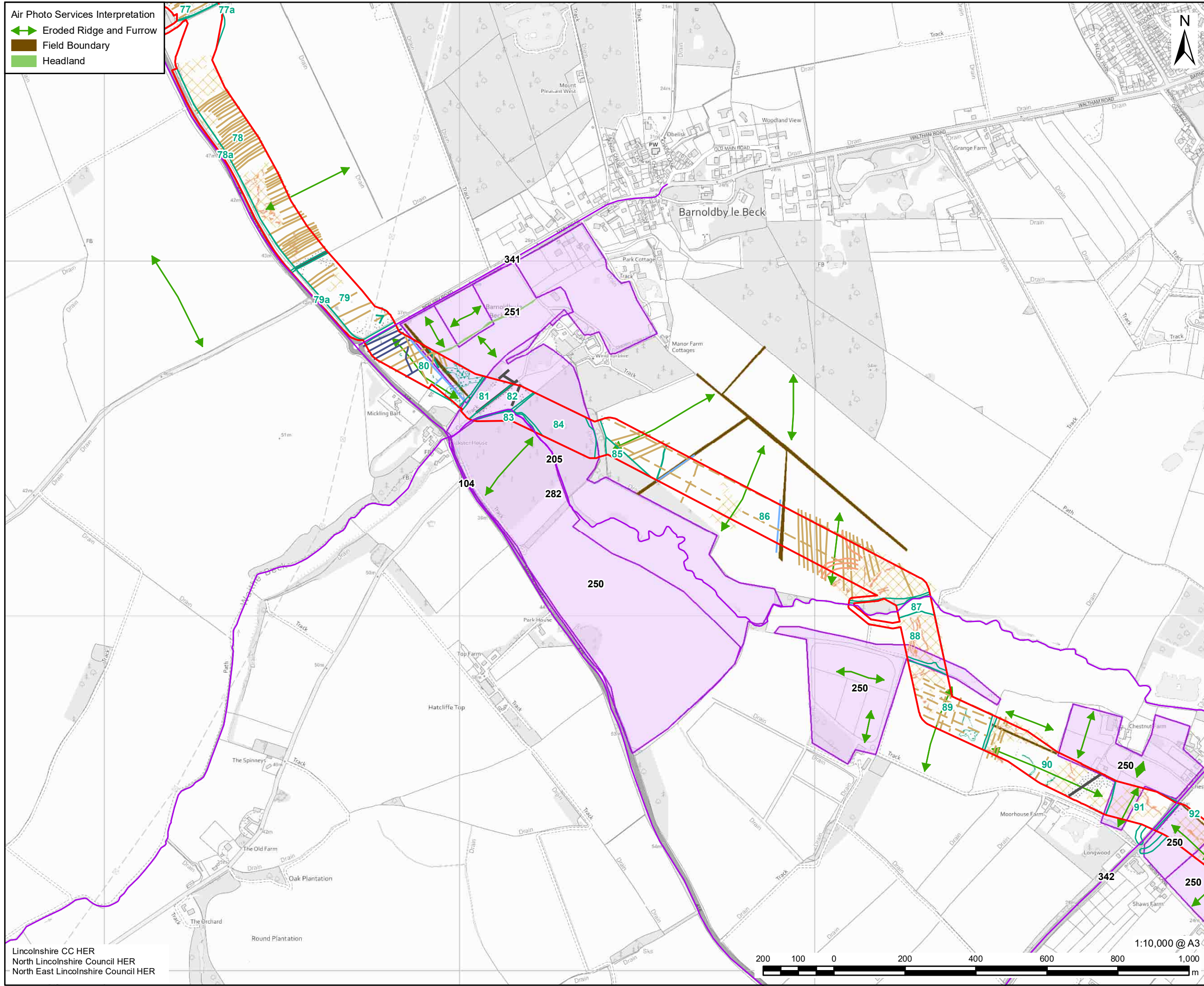


- LEGEND**
- DCO Site Boundary
 - Route Section Break
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Geophysical Survey Interpretation (AOC)
 - Linear Trend (Drainage)
 - Linear Trend (Geology/Natural)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Historic Feature)
 - Spread (Historic Feature)

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Lincolnshire CC HER
North Lincolnshire Council HER
North East Lincolnshire Council HER

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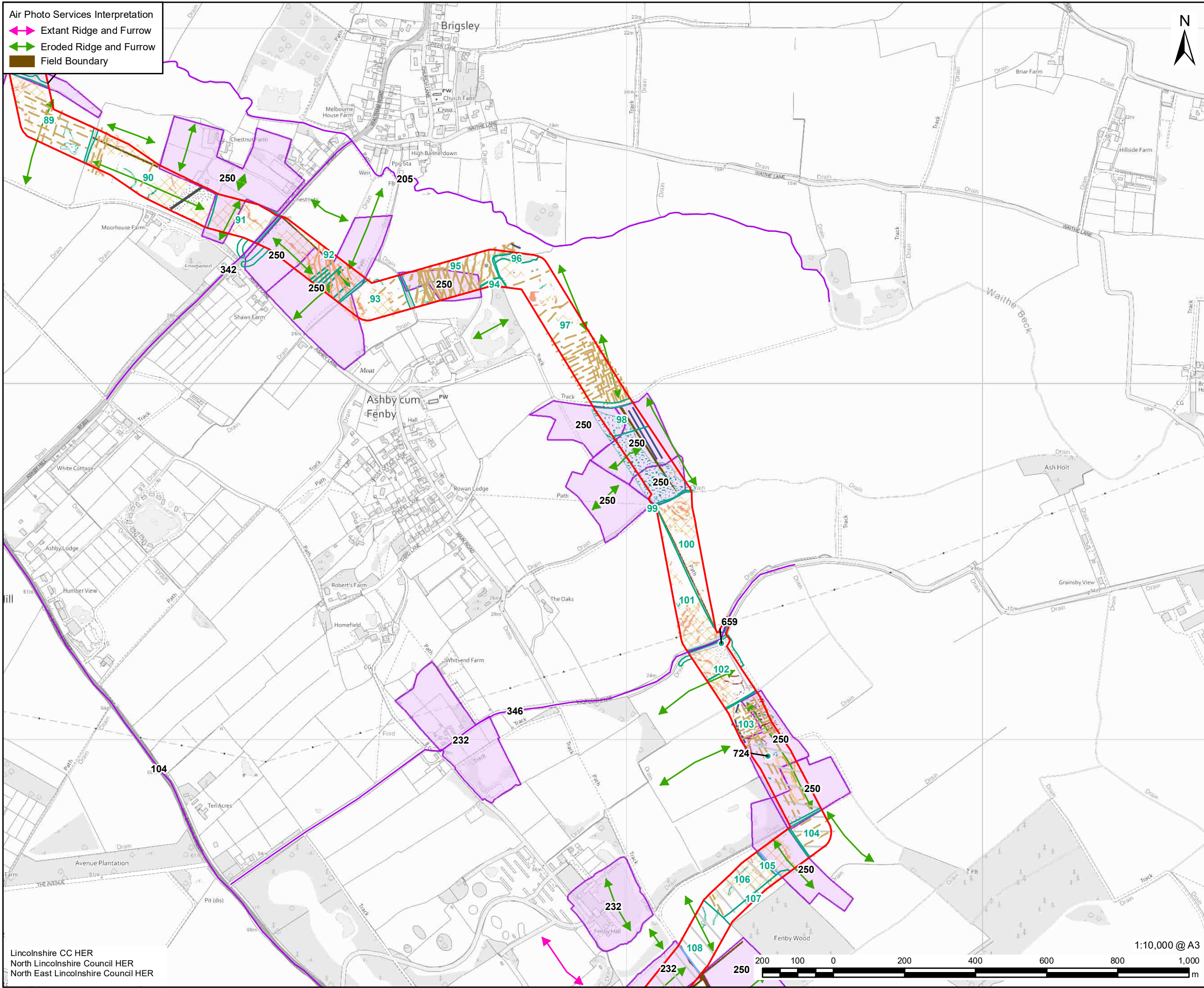
LEGEND

- DCO Site Boundary
- Geophysical Survey Area - AOC
- Field Numbers
- HER Monument - Point
- HER Monument - Line
- HER Monument - Area
- Geophysical Survey Interpretation (AOC)
- Linear Trend (Drainage)
- Linear Trend (Historic Feature)
- Linear Trend (Geology/Natural)
- Linear Trend (Agricultural, Ploughing)
- Linear Trend (Agricultural, Ridge and Furrow)
- Linear Trend (Service)
- Linear Trend (Unclear Origin)
- Anomaly (Magnetic Disturbance)
- Spread (Magnetic Disturbance)
- Anomaly (Geology/Natural)
- Spread (Geology/Natural)
- Anomaly (Ferrous/Iron Spike)
- Spread (Ferrous/Iron Spike)
- Anomaly (Unclear Origin)
- Spread (Unclear Origin)
- Spread (Historic Feature)

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FIGURE TITLE
Figure 1 (8 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
GEOPHYS ADDENDUM
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1



Air Photo Services Interpretation

- Extant Ridge and Furrow
- Eroded Ridge and Furrow
- Field Boundary

LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Geology/Natural)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Ferrous/Iron Spike)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Historic Feature)

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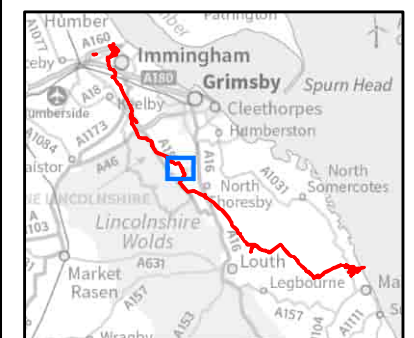
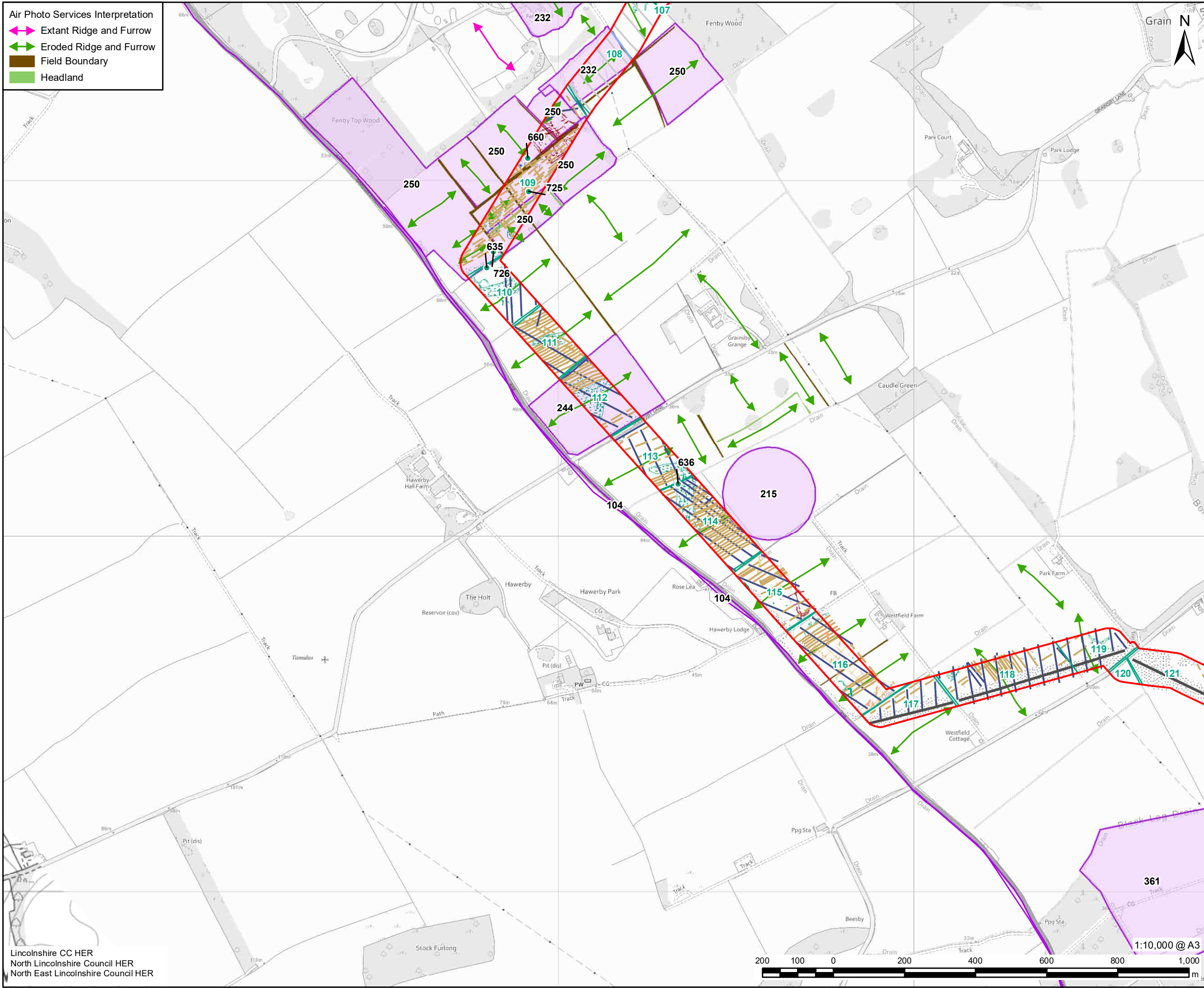


FIGURE TITLE
Figure 1 (9 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1

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Air Photo Services Interpretation

- Extant Ridge and Furrow
- Eroded Ridge and Furrow
- Field Boundary
- Headland



PROJECT

Viking CCS Pipeline

LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Geology/Natural)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Ferrous/Iron Spike)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Agricultural)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Historic Feature)

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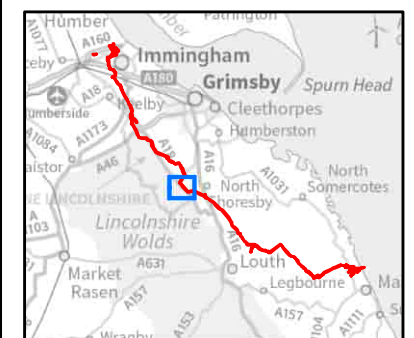
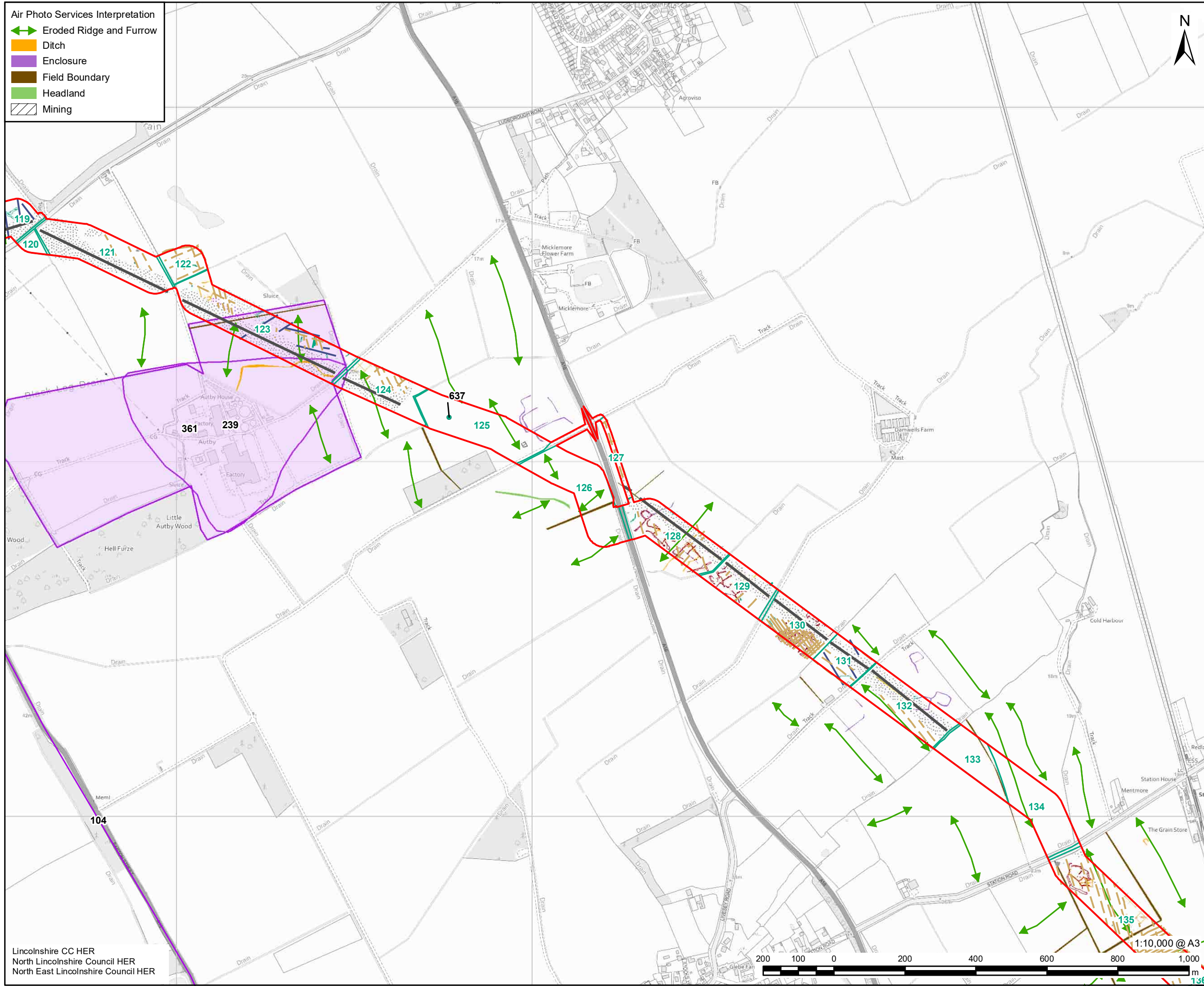
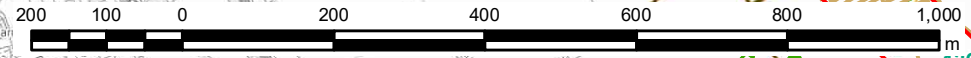


FIGURE TITLE

Figure 1 (10 of 20)
 Location of Non-Designated Heritage Assets and AOC and APS
 Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1



Lincolnshire CC HER
 North Lincolnshire Council HER
 North East Lincolnshire Council HER



- LEGEND**
- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Spread (Burned Area)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Custom Use)

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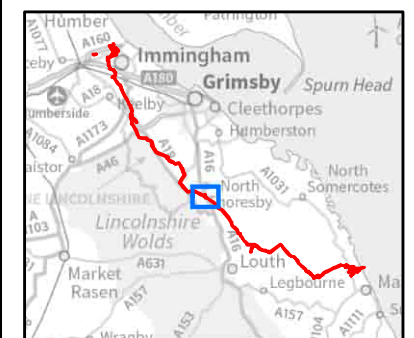
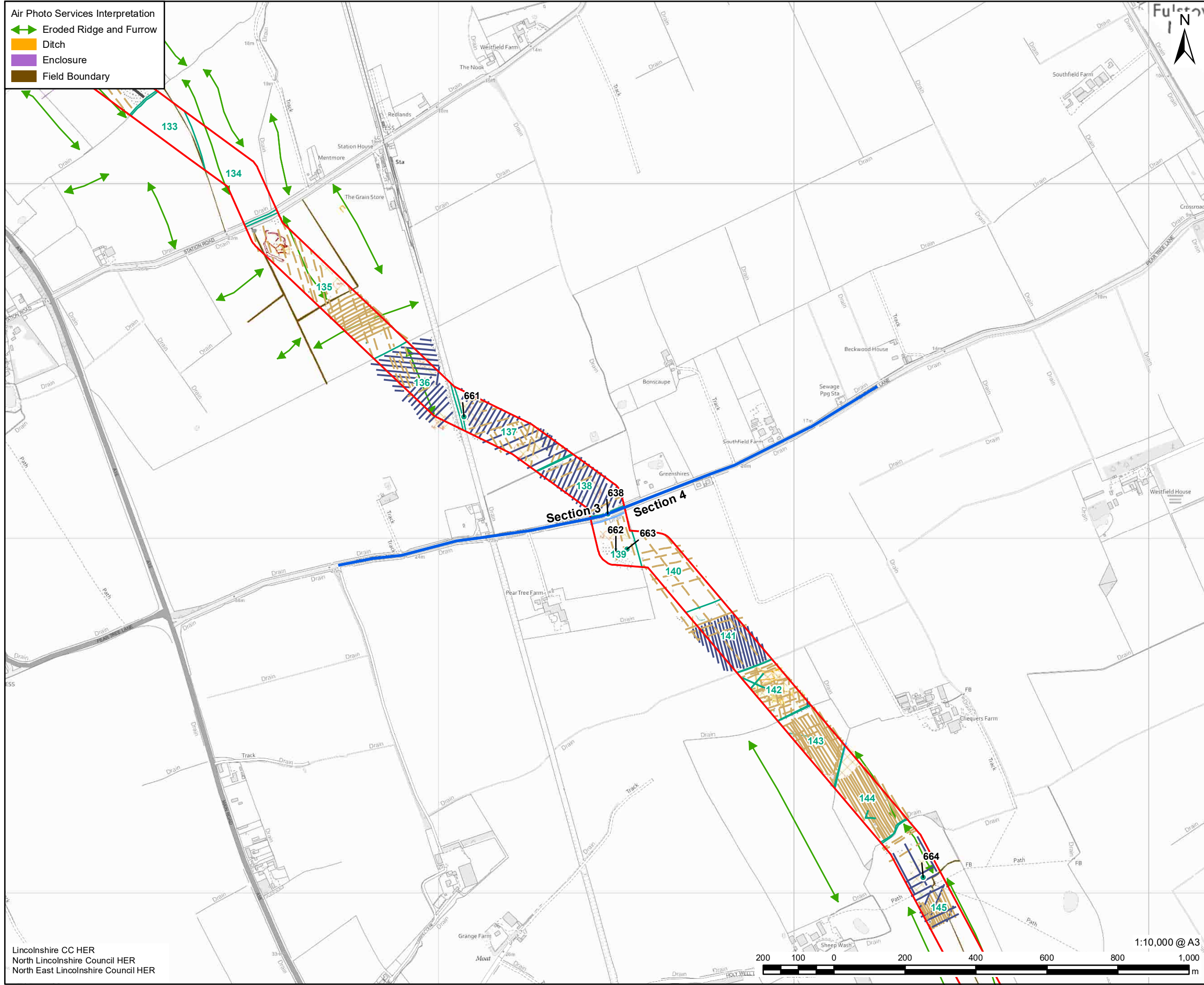


FIGURE TITLE
Figure 1 (11 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1



Air Photo Services Interpretation

- Eroded Ridge and Furrow
- Ditch
- Enclosure
- Field Boundary

- LEGEND**
- DCO Site Boundary
 - Route Section Break
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Spread (Burned Area)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Historic Feature)

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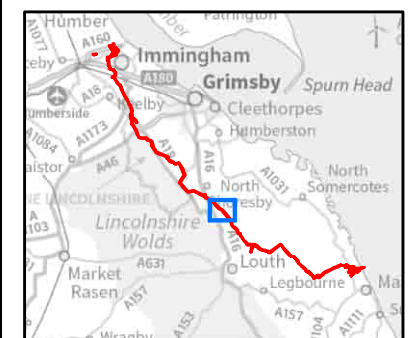
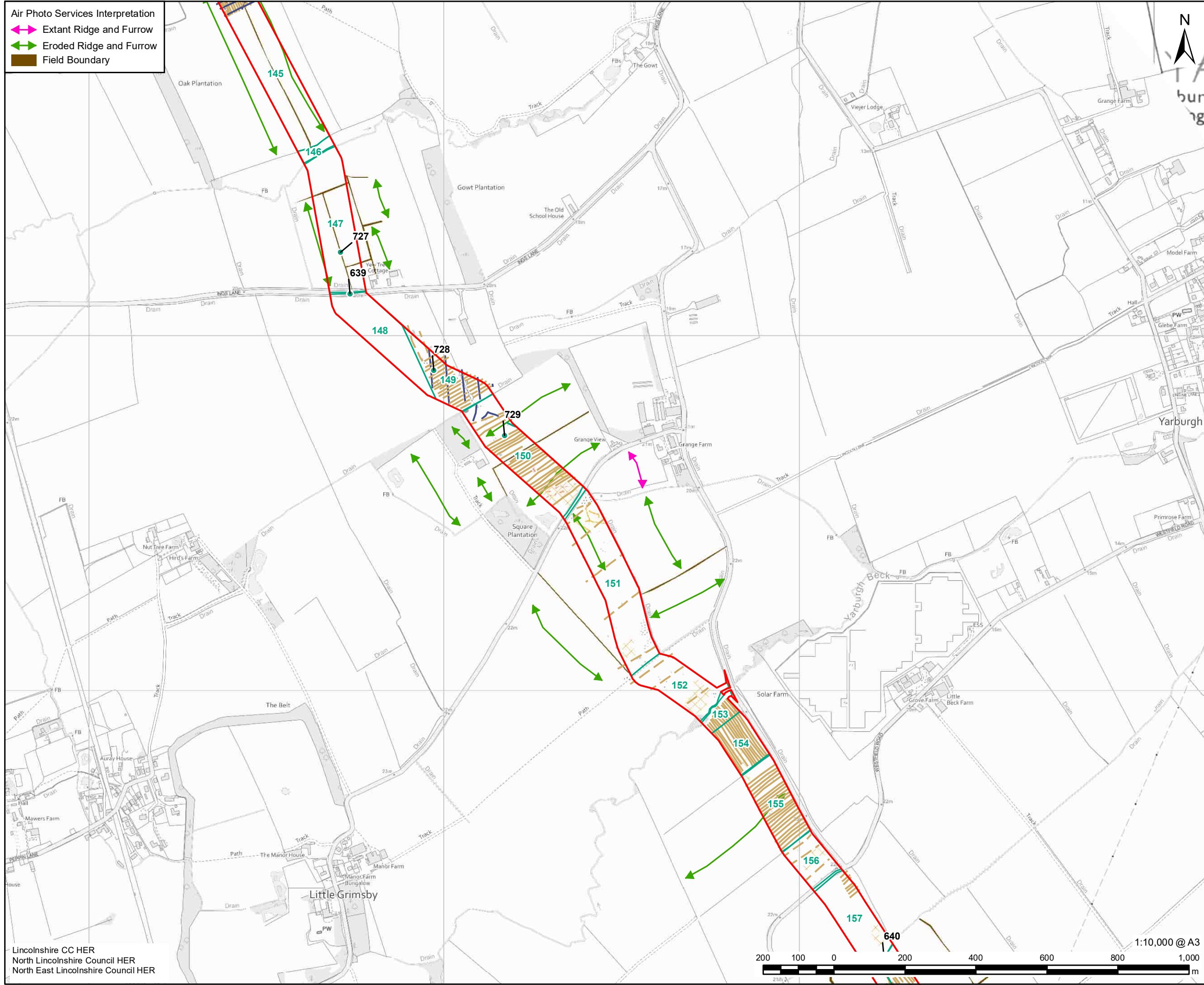


FIGURE TITLE
Figure 1 (12 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1

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Air Photo Services Interpretation

- Extant Ridge and Furrow
- Eroded Ridge and Furrow
- Field Boundary

- LEGEND**
- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Unclear Origin)
 - Anomaly (Possible)
 - Spread (Possible)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)

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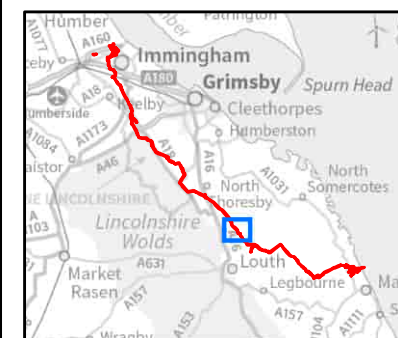
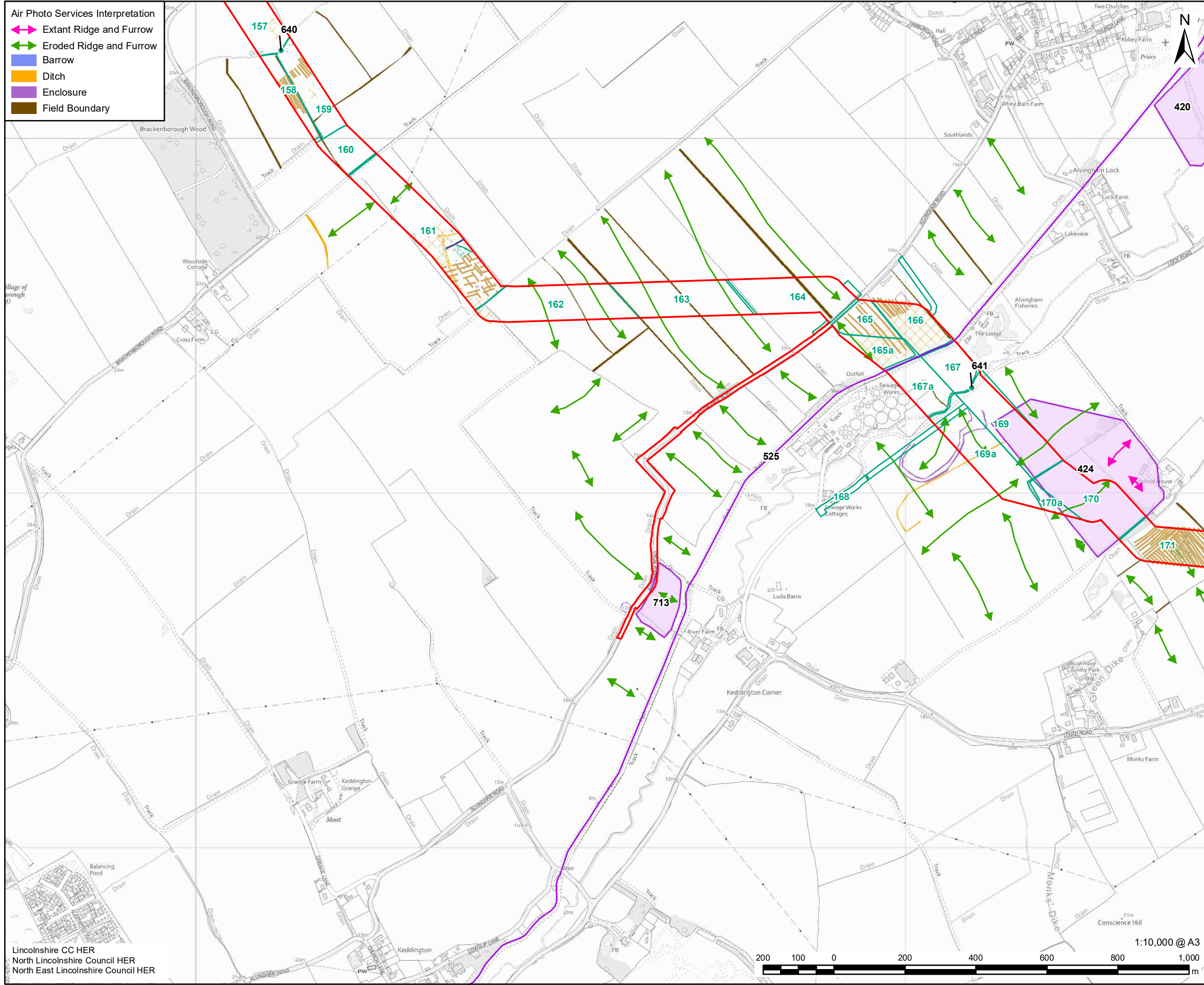
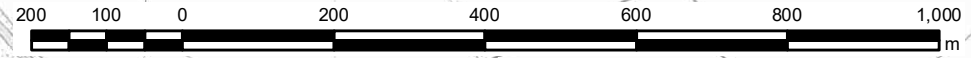


FIGURE TITLE
Figure 1 (13 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1

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Lincolnshire CC HER
 North Lincolnshire Council HER
 North East Lincolnshire Council HER



LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated
- Geophysical Survey Interpretation (AOC)
- Linear Trend (Drainage)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Anomaly (Possible)
 - Spread (Possible)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Historic Feature)

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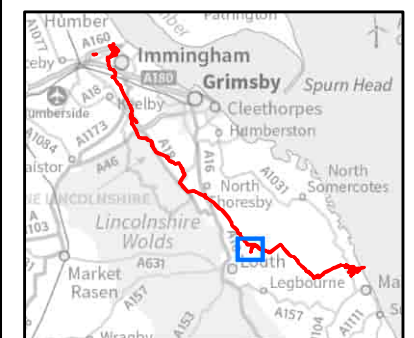
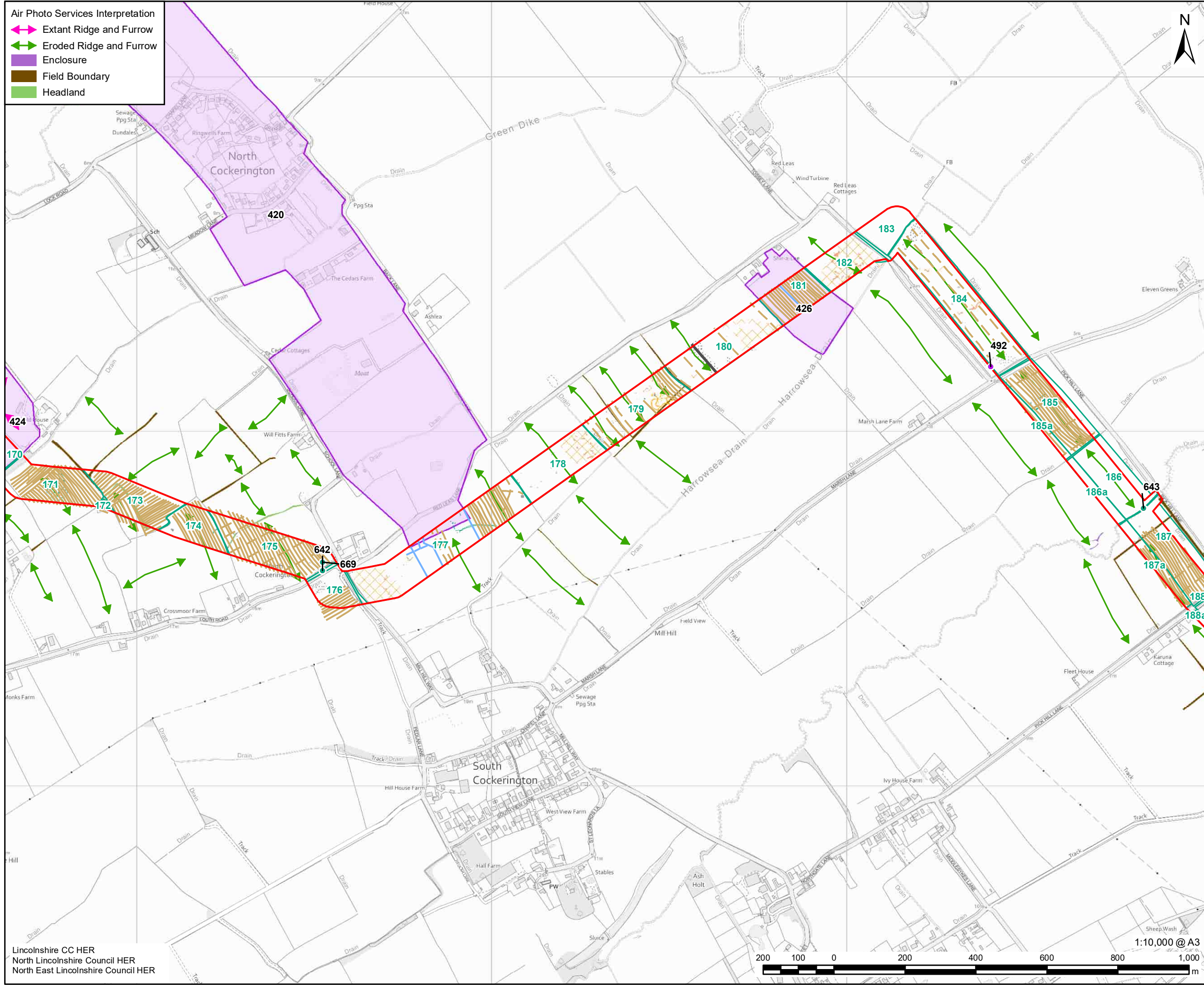


FIGURE TITLE
Figure 1 (14 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1



Air Photo Services Interpretation

- ↔ Extant Ridge and Furrow
- ↔ Eroded Ridge and Furrow
- Enclosure
- Field Boundary
- Headland

LEGEND

- DCO Site Boundary
- Geophysical Survey Area - AOC
- Field Numbers
- HER Monument - Point
- HER Monument - Line
- HER Monument - Area
- Additional Non-Designated

Geophysical Survey Interpretation (AOC)

- Linear Trend (Historic Feature)
- Linear Trend (Agricultural, Ploughing)
- Linear Trend (Agricultural, Ridge and Furrow)
- Linear Trend (Service)
- Anomaly (Possible)
- Spread (Possible)
- Anomaly (Magnetic Disturbance)
- Spread (Magnetic Disturbance)
- Anomaly (Agricultural)
- Spread (Agricultural)
- Anomaly (Geology/Natural)
- Spread (Geology/Natural)
- Anomaly (Ferrous/Iron Spike)
- Spread (Ferrous/Iron Spike)
- Anomaly (Unclear Origin)
- Spread (Unclear Origin)

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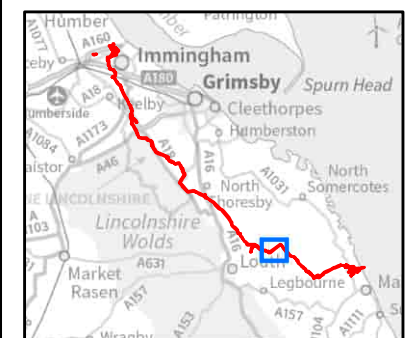
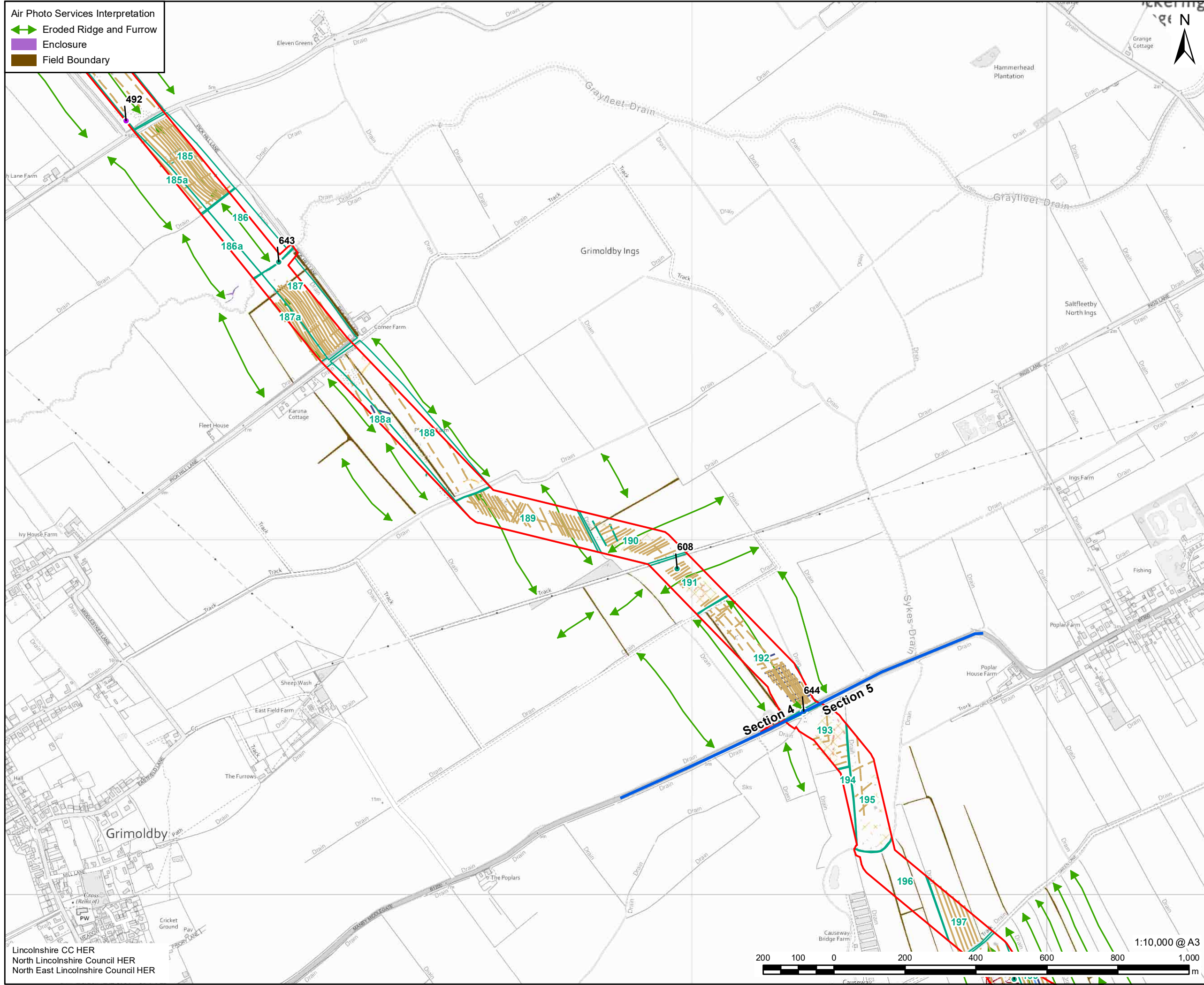


FIGURE TITLE
Figure 1 (15 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation

ISSUE PURPOSE
 GEOPHYS ADDENDUM

PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1



LEGEND

- DCO Site Boundary
 - Route Section Break
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Unclear Origin)
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)

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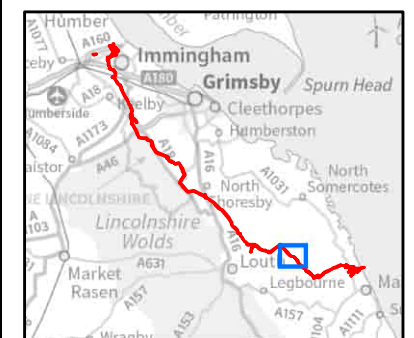
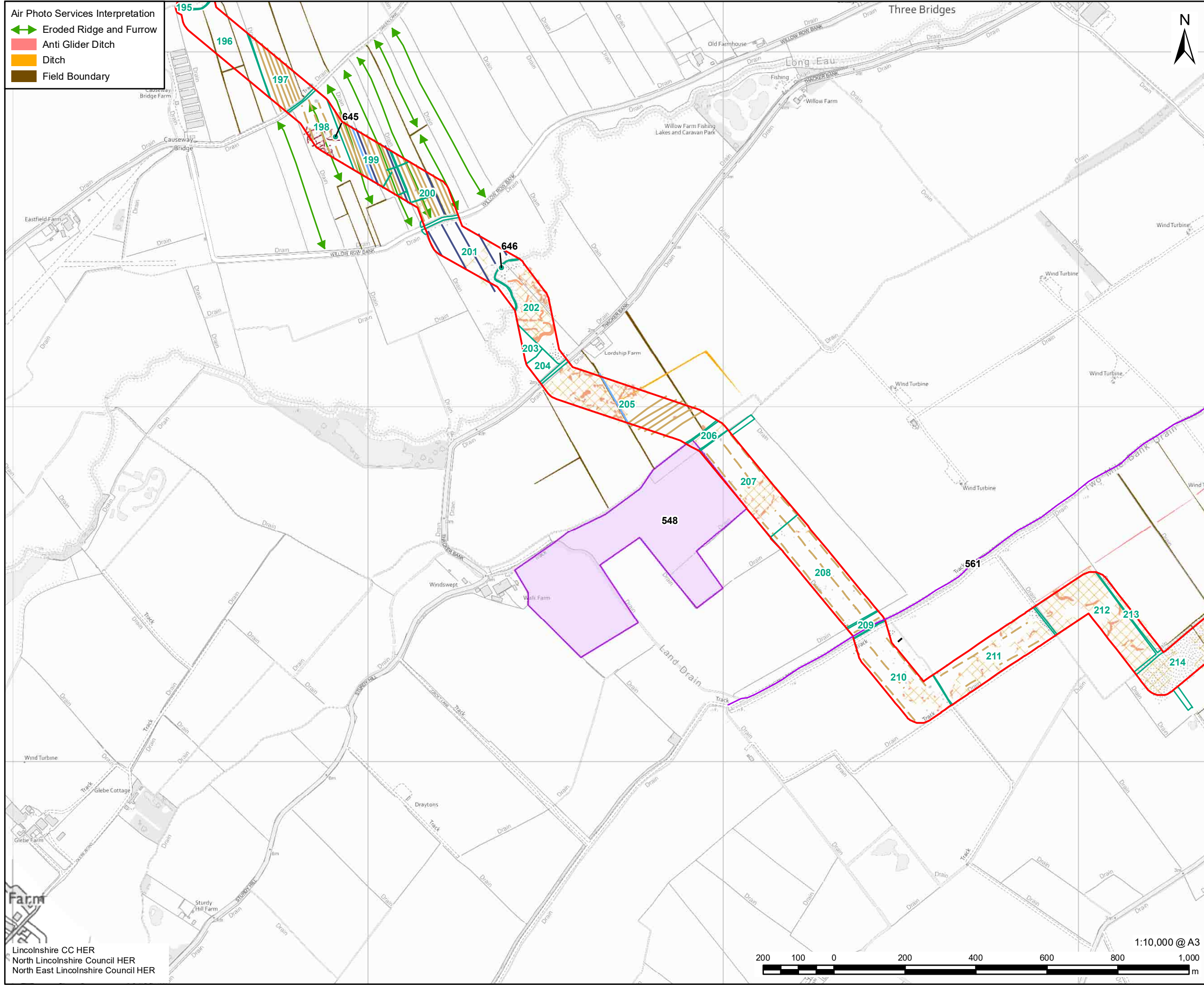


FIGURE TITLE

Figure 1 (16 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
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LEGEND

- Red outline: DCO Site Boundary
- Green outline: Geophysical Survey Area - AOC Field Numbers
- Purple dot: HER Monument - Point
- Purple line: HER Monument - Line
- Purple area: HER Monument - Area
- Green dot: Additional Non-Designated Asset
- Blue line: Linear Trend (Drainage)
- Light blue line: Linear Trend (Historic Feature)
- Orange line: Linear Trend (Geology/Natural)
- Yellow line: Linear Trend (Agricultural, Ploughing)
- Light green line: Linear Trend (Agricultural, Ridge and Furrow)
- Dark green line: Linear Trend (Unclear Origin)
- Black dashed line: Linear Trend (Magnetic Disturbance)
- Red square: Anomaly (Probable Archaeology)
- Red hatched square: Spread (Probable Archaeology)
- Black hatched square: Spread (Magnetic Disturbance)
- Orange square: Anomaly (Geology/Natural)
- Yellow hatched square: Spread (Geology/Natural)
- Grey square: Anomaly (Ferrous/Iron Spike)
- Black hatched square: Spread (Ferrous/Iron Spike)
- Green square: Anomaly (Unclear Origin)

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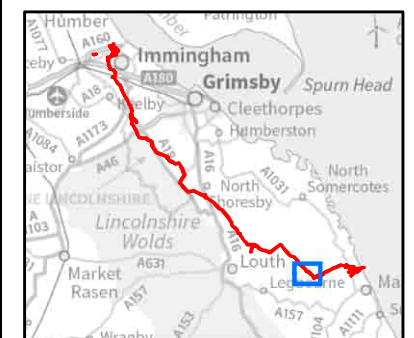


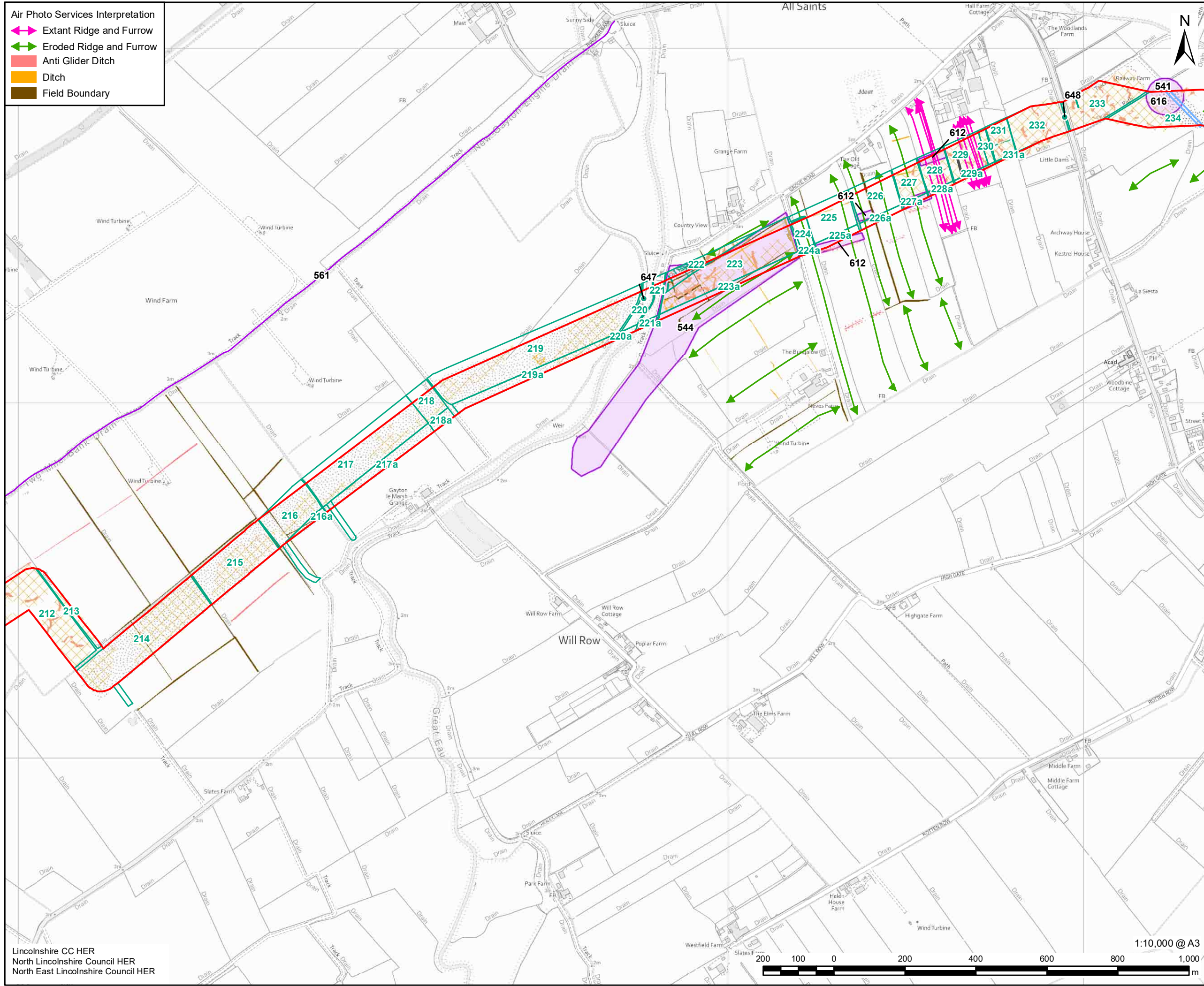
FIGURE TITLE

Figure 1 (17 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
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Air Photo Services Interpretation

- Extant Ridge and Furrow
- Eroded Ridge and Furrow
- Anti Glider Ditch
- Ditch
- Field Boundary



PROJECT

Viking CCS Pipeline

LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - Field Numbers
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Possible)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)

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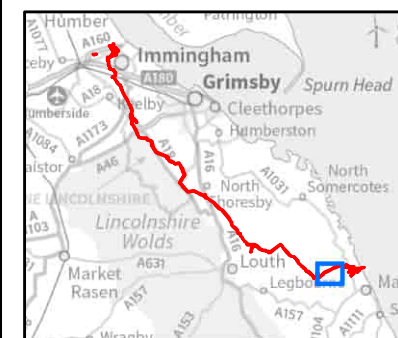


FIGURE TITLE

Figure 1 (18 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation

ISSUE PURPOSE

GEOPHYS ADDENDUM

PROJECT NUMBER / REFERENCE

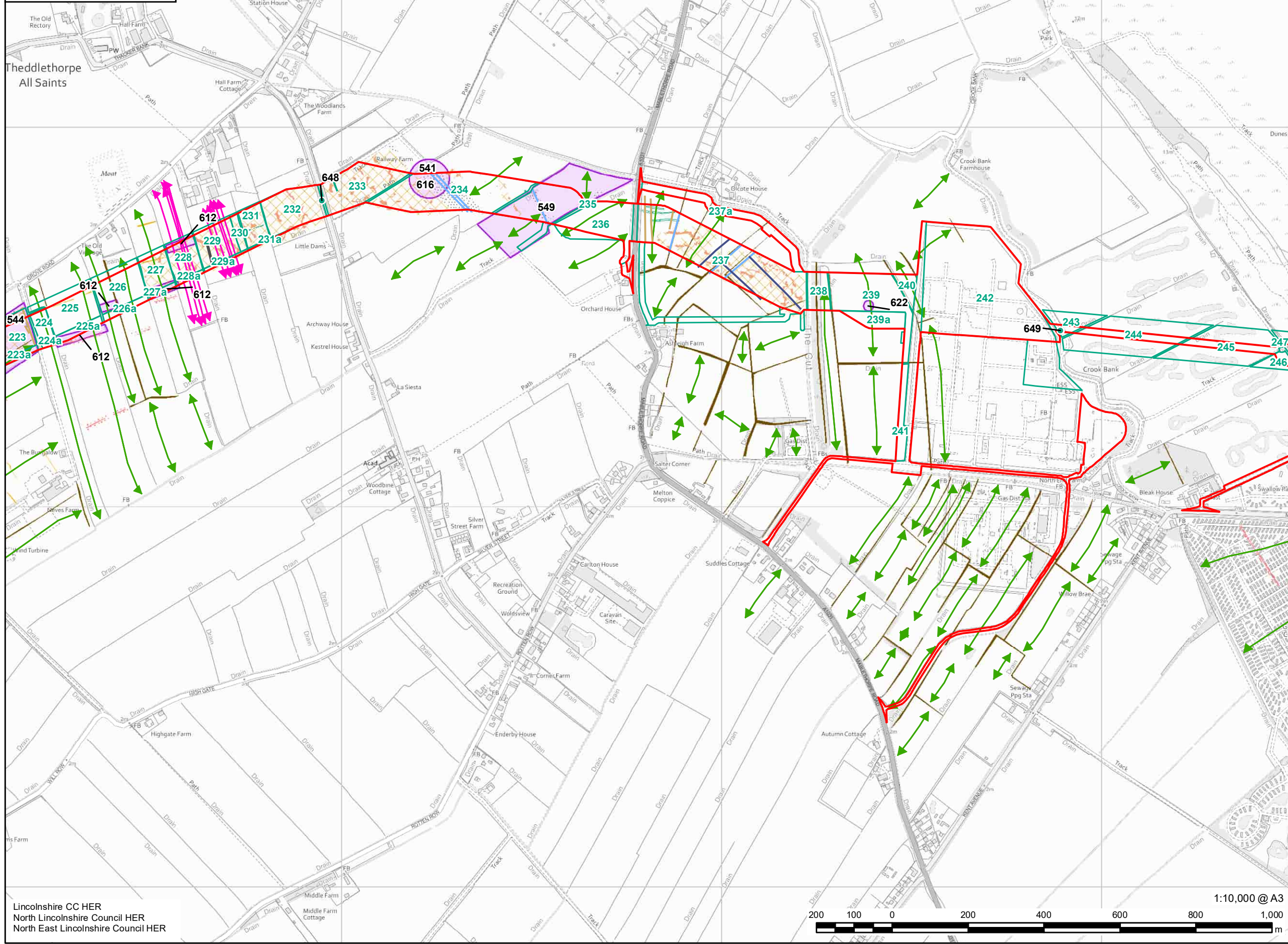
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Air Photo Services Interpretation

- Extant Ridge and Furrow
- Eroded Ridge and Furrow
- Anti Glider Ditch
- Ditch
- Field Boundary



LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Linear Trend (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)

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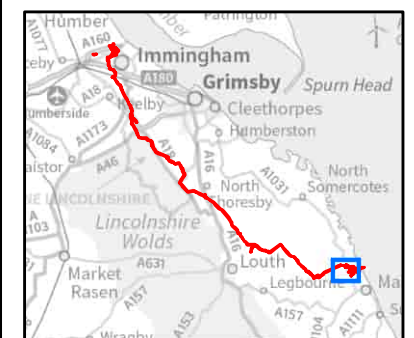


FIGURE TITLE

Figure 1 (19 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation

ISSUE PURPOSE

GEOPHYS ADDENDUM

PROJECT NUMBER / REFERENCE

60668955 / VCCS_240130_GA_1

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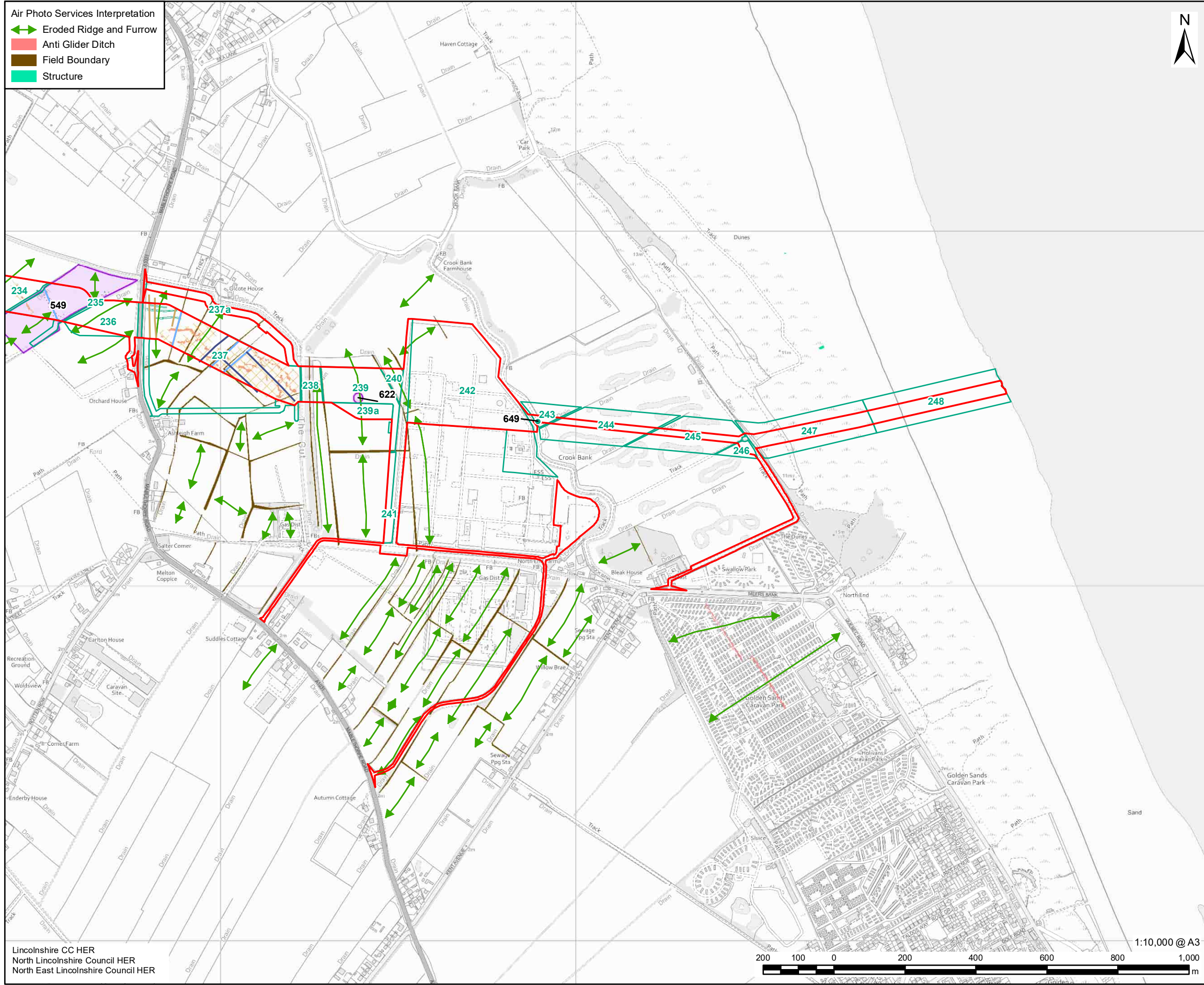
Air Photo Services Interpretation

- Eroded Ridge and Furrow
- Anti Glider Ditch
- Field Boundary
- Structure



LEGEND

- DCO Site Boundary
 - Geophysical Survey Area - AOC
 - HER Monument - Point
 - HER Monument - Line
 - HER Monument - Area
 - Additional Non-Designated Asset
- Geophysical Survey Interpretation (AOC)**
- Linear Trend (Drainage)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Spread (Magnetic Disturbance)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)



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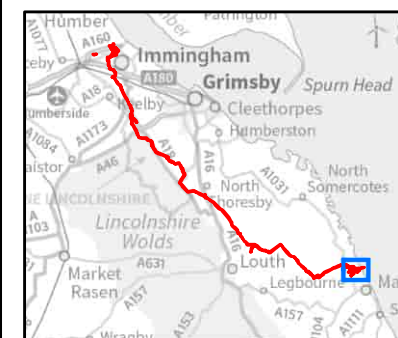


FIGURE TITLE
Figure 1 (20 of 20)
Location of Non-Designated Heritage Assets and AOC and APS
Geophysical Survey Interpretation
ISSUE PURPOSE
 GEOPHYS ADDENDUM
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_240130_GA_1

Appendix B - Geophysical Survey Report

**Viking CCS Pipeline
Archaeological Geophysical
Survey**

Date: December 2023

Quality information

Prepared by	Checked by	Verified by	Approved by
Dr Anna Chmielowska ACIfA	Susan Ovenden BSc (Hons) PhD MCIfA FSA Scot	Susan Ovenden BSc (Hons) PhD MCIfA FSA Scot	James Lawton BSc MSc MCIfA

Revision History

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Non-technical Summary

AOC Archaeology Group was commissioned to assess the subsurface archaeological potential of approximately 732.25ha of land between Immingham and Theddlethorpe, in Lincolnshire, known as Viking CCS Pipeline Project (the Proposed Scheme). This is an interim report to discuss results of investigations carried out between the 15th of December 2022 and the 24th of October 2023. The interpretation presented in this interim report may change due to further evaluation. At the time of writing this report, the route of the scheme has been subsequently changed. This report informs the baseline conditions for a Cultural Heritage chapter to an Environmental Statement for the Proposed Scheme.

Gradiometer survey has been successfully completed across c. 612.25ha and is reported on in this interim report. The survey area has been divided into 5 sections running from the north to the south of the scheme. Anomalies of probable and possible archaeological origin have been identified within all sections. These includes probable settlements and enclosure systems with double-ditched trackways. Agricultural features including extensive ridge and furrow cultivation, former mapped and unmapped field boundaries, modern ploughing and drains have also been identified.

Across the survey extent, multiple anomalies classified as 'Unclear' were identified, and archaeological interpretations for these cannot be excluded. The impact of modern activity is broad and consists of underground services, green waste, and utilities around field perimeters. Modern interference is a limiting factor in interpretation, as some weaker anomalies could be obscured. Natural variations have been identified within the west and centre of the survey area due to variations in the composition of superficial deposits.

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Appendices

1 Introduction

1.1 Introduction

- 1.1.1 AOC Archaeology Group was commissioned by AECOM on behalf of Chrysaor Production (U.K.) Limited, a Harbour Energy Company to undertake an archaeological geophysical gradiometer survey of a site at the proposed V Net Zero Pipeline Project boundary (The V Net Zero Pipeline Project comprises the development of a 55 kilometre (km) pipeline between Immingham and Theddlethorpe, Lincolnshire. The results presented in this interim report are based on survey that was conducted between the 15th of December 2022 and the 24th of November 2023. Further investigation is in progress and the final results will be submitted after survey has been completed (Figures 1- 1.6)
- 1.1.2 Archaeological geophysical survey uses non-intrusive and non-destructive techniques to determine the presence or absence of anomalies likely to be caused by archaeological features, structures or deposits, as far as is reasonably possible (ClfA, 2014).
- 1.1.3 The survey was carried out to provide information on the extent and significance of potential buried archaeological remains within the Development Consent Order limits.
- 1.1.4 The initial scope was to undertake a survey over the 50m wide pipeline corridor within the 100m wide development boundary, approximately 732ha. This was subsequently increased to the full 100m wide development boundary after discussions with the Local Planning Authorities and Historic England.

1.2 Site Location and Description

- 1.2.1 The Viking CCS Pipeline Project (the Proposed Scheme) forms part of the larger Harbour Energy V Net Zero CO₂ Transport & Storage project, which intends to transport compressed and conditioned CO₂ from the offtake facility at Immingham to store in depleted gas reservoirs 9000 feet below the seabed in the Southern North Sea.
- 1.2.2 Development Consent Order limits for the pipeline corridor, which is typically 100 m wide, runs from Immingham to Theddlethorpe (Figure 1). Due to the length of the pipeline the site has been divided into five sections between the Pipeline Offtake Facility at Immingham in the north and the Mean Low Water Springs (MLWS) near Theddlethorpe Gas Terminal in the south. It is divided as follows:
- Section 1: Pipeline Offtake Facility at Immingham to A180 road, south of Immingham;
 - Section 2: A180 road to A46 road, south of Laceby;
 - Section 3: A46 road to Pear Tree Lane, Covenham St Bartholomew;
 - Section 4: Pear Tree Lane to B1200 road, Grimoldby; and
 - Section 5: B1200 road to Theddlethorpe and MLWS mark
- 1.2.3 Gradiometer survey is suggested to provide a good response over limestones, especially over Jurassic limestone bedrocks (David et al. 2008, 15). In this case, the clarity of the geophysical results were good, and the local geology was deemed not to have had a detrimental effect on the visibility of trends within the dataset.

1.3 Topography and Geology

Section 1

- 1.3.1 Ground levels across Section 1 are generally at or below the 10 m contour (contour heights are expressed above Ordnance Datum (aOD)) with slightly higher ground at the western side of the Section. Historically this coastal landscape strip mainly comprised seasonal saltmarsh grazing utilised by settlements located on the higher ground. At the start of the pipeline route the ground level is c. 5 m aOD and rises to c. 11 m aOD at Habrough Road (B1210).
- 1.3.2 Most of this Section is underlain by superficial geological deposits comprising Glacial Till, a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape (diamicton). Tidal Flat Deposits are also present which comprise a consolidated soft silty clay, with layers of sand, gravel, peat and alluvium present along localised watercourse channels around Immingham. These deposits comprise soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. The bedrock geology underlying this Section is Chalk of the Burnham Chalk Formation. Comprising white, thinly-bedded chalk with common tabular and discontinuous flint bands and sporadic marl seams.
- 1.3.3 Detailed outline of ground conditions at time survey, geology and soils for specific survey areas of Section 1 are outlined in Appendix 1.1

Section 2

- 1.3.4 At the start of Section 2 the ground level is at c. 9 m aOD and rises to c. 17 m aOD at Roxton Farm. Between this point and Riby Road (A1173) ground levels are generally at c. 17 m aOD, although they are lower in the floodplain of North Beck Drain (13 m aOD). South of Riby Road the ground levels drop to c. 15 m aOD where the route passes Riby Gap. West of Aylesby, the topography becomes gently undulating and rises again to c. 22 m aOD.

Between Barton Street (A18 road) and the end of the Section the ground level rises further to 48 m aOD where the pipeline route approaches the low foothills of the Lincolnshire Wolds west of Laceby.

- 1.3.5 The underlying superficial geology of Section 2 comprises mostly glacial till, glaciofluvial deposits are also present around Aylesby and between Irby Upon Humber and Laceby (sand and gravel with rare clay interbeds). Lacustrine Deposits are present around Irby Upon Humber, which form small, localised pockets commonly comprising laminated clay and silt which may contain thin layers of organic material or sand. Alluvium is also present along localised watercourse channels, for example alongside North Beck Drain (south of Greenlands Farm) and between Irby Upon Humber and Laceby (tributaries of Laceby Beck). The solid geology is Chalk of the Burnham Chalk Formation. Chalk of the Welton Chalk Formation is present towards the southern end of the section, generally comprising white, massive or thickly bedded chalk with common flint nodules, lacking tabular flint bands.
- 1.3.6 Detailed outline of ground conditions at time survey, geology and soils for specific survey areas of Section 2 are outlined in Appendix 1.2.

Section 3

- 1.3.7 At the start of Section 3 the ground level is at c. 53 m aOD falling gradually to 44 m aOD west of Scrub Holt Farm and then to 28 m aOD as the pipeline route passes the earthwork remains of a scheduled Civil War earthwork fort (northeast of Walk Farm). Between the A18 road and Waithe Beck, west and south of Barnoldby Le Beck, the ground level varies between 28 m and 41 m aOD, dipping to the 18 m contour where the pipeline route crosses the broad valley of Waithe Beck, south of Waltham Road, Brigsley (B1203 road). South of Ashby cum Fenby the ground level again rises to 40 m aOD as the pipeline approaches and follows the alignment of the A18. As the route crosses Whites Road and the A16 Louth Road, south of North Thoresby the ground levels drop to c. 21 m aOD. Between the A16 and the end of the section at Pear Tree Lane the ground level is between 21 m and 24 m aOD.
- 1.3.8 Superficial deposits of glacial till cover most of this section, with localised alluvium present along watercourses, including Laceby Beck, Waithe Beck and more extensively around Old Fleet Drain on the south side of Grainsby. Lacustrine and glaciofluvial deposits are present in localised features (Glaciofluvial Deposits are recorded around Grainsby, and north of Ludborough there are Lacustrine Deposits). Chalk bedrock of the Burnham Chalk Formation underlies the northern end of the section, although elsewhere it is Chalk of the Welton Chalk Formation (the Welton Formation follows the orientation of the A18 between Aylesbury and Brigsley and generally comprises white, massive or thickly bedded chalk with common flint nodules, lacking tabular flint bands).
- 1.3.9 Detailed outline of ground conditions at time survey, geology and soils for specific survey areas of Section 3 are outlined in Appendix 1.3.

Section 4

- 1.3.10 At the start of Section 4 between Pear Tree Lane and Alvingham Road the ground level gently undulates between the 24 m and 17 m contour lines, with lower ground where the route crosses the floodplain of Poulton Drain and its tributaries west of Covenham St Mary (10 m aOD) and Yarburgh Beck / Black Dike (12 m aOD), southwest of Yarburgh. From Alvingham Road the ground level drops to 9 m aOD where the route crosses the Louth Canal / Navigation between Alvingham and North Cockerington. Between North Cockerington and South Cockerington the ground rises slightly onto the 13 m contour before dropping again onto the 7 m contour to the east of South Cockerington. Between South Cockerington and the end of the section at Manby Middlegate (B1200 road) the topography is low lying and relatively flat at between 7 m and 4 m aOD.

- 1.3.11 Superficial geology deposits mostly comprise glacial till. Alluvium is present along watercourses, including Poulton Drain catchment area (western side of Covenham St Mary), Yarburgh Beck / Black Dike and its tributaries (south of Yarburgh), and more extensively around Louth Canal and the River Lud to the south of Alvingham. East of South Cockerington the pipeline route crosses Pock Hill Lane and runs along the interface of an area of glacial till and tidal flats deposits. The bedrock geology in this Section comprises Chalk of the Welton Chalk Formation, although the pipeline route crosses into the Ferriby Chalk Formation to the east of Brackenborough.
- 1.3.12 Detailed outline of ground conditions at time survey, geology and soils for specific survey areas of Section 4 are outlined in Appendix 1.4.

Section 5

- 1.3.13 Ground levels throughout Section 5 are generally flat, around 3 m to 4 m aOD as the pipeline route crosses the coastal fenland strip. The superficial geology covering most of this section comprises tidal flat deposits, with small areas of glacial till immediately south of Manby Middlegate Road (B1200). The northern end of this section is underlain by Chalk of the Welton Chalk Formation and then Chalk of the Burnham Formation from east of Walk Farm, Great Carlton to the end of the section.
- 1.3.14 Detailed outline of ground conditions at time survey, geology and soils for specific survey areas of Section 5 are outlined in Appendix 1.5.

1.4 Archaeological Background

- 1.4.1 The archaeological background below is drawn from the desk-based assessment of the site, prepared and provided by the client (AECOM, 2022).

Prehistoric and Roman periods – Section 1

- 1.4.2 Archaeological evidence shows that the estuary has been a key trade and communication route between the North Sea and the Pennines, and also to the Midlands (River Trent), since prehistoric times. Significant palaeo-environmental and archaeological evidence preserved within wetland locations includes Bronze-age boats and fish traps. There is also evidence of early settlement on higher, drier land, while the lower wetlands provided fishing and fowling as well as summer grazing for the surrounding settlements. 8.5.65 Research on the Humber wetlands has suggested that at the beginning of the Holocene, the onset of warmer conditions led to the establishment of dense vegetation cover over undulating boulder clay. At the same time, kettle-holes and poorly draining hollows would have allowed the formation of a series of organic peaty sediments and fluctuating sea levels would have led to increasing sedimentation through the process of alluviation and the formation of marshlands. The Humber continued to have great importance throughout the Roman and medieval periods for trade and communication and it is possible that on the north bank of the estuary drainage of the marshes began as long ago as the second century AD.
- 1.4.3 Prehistoric flintwork (waste material and tools) of Late Mesolithic to Early Bronze Age date have been found within the study area during investigations including surface artefact collection and excavations [MNL3927, MLS19799, MLS21544, MLS1615, MLS1614, MLS19831, MLS19832, MLS19834]. There are other findspots of prehistoric flintwork (waste flakes and cores in the wider area, south of Station Road (MLS19726).
- 1.4.4 Archaeological evaluation at the Humber Refinery, c.300 m northeast of the survey area has recorded evidence of Bronze Age activity and a late prehistoric and Roman settlement with associated evidence for salt-making and iron smelting [MLS21553, MLS21554, MLS21555, MLS21556]. Charcoal from a ditch was radiocarbon dated to the Early Bronze Age and, sealed beneath 0.4 m of alluvial clay, was a charcoal-rich deposit (burnt stone and charcoal) that was radiocarbon dated to the Late Bronze Age. A spread of burnt material which lay over a possible buried soil was also sealed beneath the alluvium which produced a Middle Bronze Age date. The Iron Age (and early Roman occupation) appears to occupy the driest ground, towards the west of the investigated area. Many of the features coincided with geophysical anomalies (possibly representing Iron Age enclosure ditches) and it is possible that salt making was carried out on the wetter ground to the east.
- 1.4.5 Close to the northern end of the survey area an archaeological trial trench evaluation in 2016 at Rosper Road identified multiperiod activity, including several Iron Age ditches [MLS20103, MLS20422, MLS20424]. An earlier excavation either side of Rosper Road, that was carried out between 2000 to 2002 adjacent to the Conoco Refinery, suggested that the original early Iron Age settlement was located on the lower ground near to a former creek on the shore of the River Humber. There then appears, on the basis of the pottery sequence, to have been a hiatus in the mid- to late Iron Age, and the subsequent late Iron Age and Romano-British settlement, representing possibly a small farmstead, developed on higher ground further north on the palaeo-shoreline, centred around a driveway and a pattern of enclosures [MLS19771, MLS1614, MLS20078].
- 1.4.6 Further evidence for Iron Age occupation was found west of Rosper Road, within the survey area, during trial trenching in 2010 related to the A160-A180 road improvements, where two Iron Age ditches were recorded [MLS22428].

- 1.4.7 There are several cropmark features of possible Iron Age date, including west of Habrough Road where a linear feature is visible [MLS20077] and a series of three possible enclosures [MLS20780]. From the same general area, a late Iron Age enclosure which was also visible on aerial photographs was identified by geophysical survey and trial trenching [MLS1611].
- 1.4.8 Late Roman dated ditches were also recorded north of Marsh Lane (c.100 m north of the survey area) during trial trenching in 2012 and 2013. These are likely to represent a continuation of the small farmstead recorded on the west side of Rosper Road [MLS22743].
- 1.4.9 At East End Farm (c.130 m west of the survey area) archaeological geophysical survey has detected a trackway and a complex series of rectangular ditches either side of the trackway. Additional evidence included a walled building which could represent a series of small Romano-British farmsteads, or a single large farm, or perhaps even a structure of military or ritual origin [MLS20152]. Metal detection in the same area also recovered Roman coins and metalwork.
- 1.4.10 A droveway and enclosure of possible Roman date are visible on aerial photographs next to Ulceby Road and the woodland known as Sinks Covert [MLS8765].
- 1.4.11 South of East End Farm, and c.75 m west of the survey area, archaeological geophysical survey detected the buried remains of a Roman enclosure northeast of Glebe Farm which is also associated with Roman coins and pottery [MNL820].
- 1.4.12 A sherd of possible imitation Samian pottery has been found within the survey area [MNL1508]. Late Iron Age pottery and Roman pottery has also been found west of Habrough Road during archaeological excavations [MLS19829, MLS19830]. A large hoard of Roman coins was also discovered by a metal-detectorist in the same area [MLS16344].
- 1.4.13 In the wider area there is evidence of a high status Roman settlement and industrial site at Mauxhall Farm / Stallingborough Interchange (MNL4490, MNL4763). Trial trenching at this archaeological site has revealed a substantial settlement belonging to two main phases (1st to 2nd centuries and 3rd centuries) followed by the site's abandonment.

Early medieval and medieval - Section 1

- 1.4.14 Evidence of early medieval and medieval occupation tends to be concentrated within and close to the historic settlements that the pipeline route passes, however, the surrounding area also contains evidence for activity and occupation as a result of shifting settlement patterns and landscape changes. Within much of the study area the majority of the evidence is represented by former cultivation systems, and it is likely that some of these also continued in use until enclosure in the post-medieval period. There are several findspots of medieval pottery recovered during surface collection surveys [MNL1507, MLS20275]
- 1.4.15 Immingham is mentioned in Domesday, the Lindsey Survey (c.1115) and the Early Yorkshire Charters (1090-6) and it formed a small cluster of settlements with place names indicating early Anglo-Saxon settlement [MNL287]. The form of the settlement appears to have been a chain of farmsteads or hamlets laid out along a pair of parallel roads, with a denser core around the parish church. Archaeological trial trenching has recovered early medieval pottery and also pottery of 13th to 14th century and post-medieval date. Alluvial layers show that the area was also prone to flooding and that in some places, which were most vulnerable, was used for seasonal farming activities. Habrough is also mentioned in various historic documents (Domesday, the Lindsey Survey (c.1115), Assize Rolls (1202), the Valuation of Norwich (1254) and Pipe Rolls (1197)) [MNL205].
- 1.4.16 Settlement evidence has been identified within and surrounding Immingham. The scheduled Manor Farm medieval moated site is located in North Killingholme and was occupied into the post-medieval period [NHLE1008044, NHLE1346854, NHLE1214980]. A possible area of medieval settlement is located northeast of Houlton's Covert, from fieldname evidence,

which may correspond to the small close shown on Russell's pre-enclosure map of Killingholme, on the edge of Summergates [MLS19827].

- 1.4.17 The possible remains of a shrunken medieval village have been found at South Killingholme [MLS1613], c.270 m north of the survey area, comprising a rectilinear enclosure, ditches and ridge and furrow (visible on aerial photographs but now largely built over, although elements of the site may survive).
- 1.4.18 A possible medieval moated site was found during an archaeological evaluation and excavation west of Luxmore Farm (complex of ditches and pits that respected Immingham Road) [MNL2373].
- 1.4.19 A series of linear earthwork features (drainage systems, trackways and enclosures) at Homestead Park, Immingham [MNL284] (c.486 m southeast of the survey area) is suggestive of medieval settlement. Waterlogged deposits of possible late medieval origin were recorded during monitoring in 1994.
- 1.4.20 Evidence of extensive ridge and furrow cultivation, of likely medieval to post-medieval date, is visible on aerial photographs at a number of different locations.
- 1.4.21 Although there are no identified salterns within the study area, salt working was an important local industry along the coastal margins in the medieval and earlier Roman periods and is likely to have been carried out on a seasonal basis (salt extracted from salt-encrusted sand from the foreshore was treated and dumped in large mounds).
- 1.4.22 The pipeline route passes several designated parish churches which were constructed in the medieval period.

Post-medieval and modern – Section 1

- 1.4.23 There are a series of historic roads of post-medieval to modern date in Immingham that are recorded on the early OS maps, including Stallingborough Road [MNL3514] and Mill Lane [MNL3521], and also Immingham Road, Habrough [MNL3525]. It is possible that Roxton Road, Immingham [MNL3515] and Habrough Road, Immingham [MNL3516] have earlier, medieval origins.
- 1.4.24 The HERs record several landscape features, including an osier bed [MNL2450], a possible landscape park in Immingham [MNL3934] and historic hedgerows in South Killingholme parish [MLS20570, MLS22660].
- 1.4.25 Historic OS maps also record the presence of several features associated with coastal navigation and transportation, including several lighthouses - Killingholme High Lighthouse, South Killingholme [NHLE1103706]; Killingholme South Low Lighthouse, South Killingholme [NHLE1215093], and Killingholme North Low Lighthouse, South Killingholme [NHLE1103707].
- 1.4.26 There are numerous post-medieval and later farms / farmsteads within the study area in this Section that are either extant or demolished (for example, Glebe Farm [MNL1818], Church Farm, Habrough [MNL2302], Luxmore Farm, Habrough Road [MNL2449], Elm Tree Farm, South Killingholme [MLS25002], Willows Farm, Immingham [MNL2451]) and also rural dwellings / houses (for example, Belmont Cottage [NHLE1161631], The Nook, South Killingholme [NHLE1215113], Churchfield Manor, Immingham [NHLE1161630, MNL288], Appletree Cottage, Habrough [NHLE1161587] and Roxlyn House, Habrough [MNL2311]).
- 1.4.27 Immingham Dock was established by the Humber Commercial Railway and Dock Company in association with the Great Central Railway (Humber Commercial Railway and Dock Act of 1904, and subsequent amendments).

- 1.4.28 A 20th century railway signal box [MNL3041] and an extensive complex of railway lines and sidings were integrated into Immingham dock (London and North Eastern Railway - Immingham Dock Branch) [MNL3039]
- 1.4.29 From the 16th and 17th centuries defensive structures were constructed to protect the coastline from attack and the threat of invasion. The importance for defence continued into the late-19th-century (coastal artillery battery and minefield control centre built at Paull Point on the north bank of the estuary), followed by a 20th century World War 1 acoustic mirror near Kilnsea and two forts at the estuary mouth. During World War 1 Immingham Docks was a base for British D-class submarines (later used for cruise ships in the 1930s, including vessels of the Orient Steam Navigation Company, White Star Line and Blue Star Line). Following the end of World War 1 trade declined (as it did elsewhere along the east coast), including demand for shipping services and new ships, however, World War 2 revived its prospects but, together with other ports along the east coast such as Hull, it became the target of bombing raids. During World War 2 it became a naval base and the headquarters for the Royal Navy and a series of anti-aircraft batteries and bombing decoys were built to protect the docks and nearby military airfields from attack.
- 1.4.30 Within the study area there were several types of World War 2 military installations, including heavy anti-aircraft battery installations at Immingham [MNL1523] and next to Sinks Covert [MLS17455], a searchlight emplacement at North Killingholme [MLS26168] and aircraft obstructions that are now levelled at Immingham [MLS21322]. A possible bomb crater was also identified on aerial photographs at South Killingholme [MLS26149]. In the wider area were former barrage balloon sites (MNL4651, MNL4684, MNL4675), and other military buildings and installations (MNL4644, MNL4689).

Undated – Section 1

- 1.4.31 There are several heritage assets that are undated and which are mostly visible on aerial photographs as cropmarks. An undated possible square enclosure, that is now beneath the Immingham CHP Plant, was identified as a cropmark [MLS21321] and there are several undated cropmark features south of Ulceby Road [MLS20124, MLS1608, MLS1609, MLS20781, MLS8766, MLS25944, MLS1610, MLS21317]. 8.5.96 Archaeological geophysical survey in South Killingholme detected a series of linear anomalies at East End Farm that are undated [MLS20273, MLS20274] and an undated linear feature, west of Rosper Road [MLS21315].

Prehistoric and Roman – Section 2

- 1.4.32 There is no evidence of significant prehistoric activity within the study area along this Section of the pipeline route. In the wider area to the west of the pipeline route there is evidence of Neolithic and Bronze Age burial activity. Southwest of Riby Grove Farm are the remains of a Neolithic long barrow and a Bronze Age round barrow (NHLE1018838) that are located on a spur of land overlooking several dry valleys. Prehistoric flintwork has been found during surface artefact collection but only in small quantities or as a single findspot [MNL4760, MNL3924, MNL3922, MNL3923].
- 1.4.33 Barton Street forms the parish boundary between several settlements and has been identified as a possible late Iron Age routeway that continued in use into historic times [MNL2583, MLI116141]. Oldfleet Drain (formerly Healing Beck) is a landscape feature of possible prehistoric to modern date [MNL897].
- 1.4.34 Evidence for a possible Roman settlement have been found southeast of Greenlands Farm, Stallingborough [MNL2689]. The site appears to occupy an area of higher ground and comprises a complex of small enclosures alongside a trackway. Pottery from the site included possible Iron Age and early medieval material suggesting the site may have earlier origins and was occupied into the post-Roman periods. The discovery of fragments of

Roman brick and tile in Stallingborough are possible indicators of Romano-British settlement / occupation [MNL3920, MNL3921]. There is also a scatter of findspots of other Roman material (pottery and metalwork) that indicate a Roman presence in the area [MNL1906, MNL3925, MNL3926, MNL834]. It is possible that several of the undated cropmarks in this Section could date to the Roman period.

Early medieval and medieval – Section 2

- 1.4.35 The pipeline route passes close to several historic settlements that have their origins in the early medieval and medieval periods. Aylesby is mentioned in Domesday (1086) and the Lindsey Survey (c.1202) and the village is probably a later Saxon foundation (occupation focused on Barton Street) [MNL125]. Evidence of Anglo-Scandinavian occupation has been recorded (pottery and other finds) in the village which suggests occupation from at least the 10th century.
- 1.4.36 Stallingborough is mentioned in Domesday, the Lindsey Survey (c.1115), the British Museum Charters (c.1130), the Episcopal Registers (1233) and the Valuation of Norwich (1254). Along with Healing, Immingham and a lost settlement called Lopingham, it forms a small cluster of settlements with place names indicating early Anglo-Saxon settlement [MNL371].
- 1.4.37 There is evidence of early medieval occupation outside of the study area at Riby. A substantial middle Saxon settlement comprising field and enclosure ditches and elements of probable post-built and sunken buildings have been investigated at Riby Crossroads [ML152885], associated with an extensive pattern of cropmarks.
- 1.4.38 Surface artefact collection north of Greenlands Farm, Immingham recovered a sherd of possible Saxo-Norman pottery [MNL4199].
- 1.4.39 Aerial photography has recorded several areas of medieval / post-medieval ridge and furrow surrounding and extending from the historic villages and settlements, for example, at Stallingborough [MNL2235] and Aylesby [MNL2225].
- 1.4.40 Several medieval moated sites are recorded in the study area, including the scheduled Healing Hall [NHLE1010947], Roxton Farm [MNL283] and a probable moated site south of Manor Farm, Aylesby [MNL120]. Church end Farm, Keelby that contains a former manor house was originally moated [NHLE1359820].
- 1.4.41 The pipeline route passes several designated churches and associated features that are of medieval and post-medieval date.

Post-medieval and modern – Section 2

- 1.4.42 The pipeline route passes several gravel and chalk extraction pits that are shown on OS maps from the end of the 19th century [MNL1565, MNL1566, MNL1569, MNL2175] and an extant windmill tower (The Mill) at Riby Road, Stallingborough [NHLE1103468, MNL341].
- 1.4.43 The HERs also record numerous farmsteads and dwellings within the study area that are located within the historic settlements or the surrounding farmland and which date to the post-medieval and modern periods.
- 1.4.44 There are several post-medieval churches and religious buildings / structures within this Section of the pipeline route, including the Haagensen Memorial and Vault at Laceby Cemetery [NHLE1422159] and the Church of St Peter and St Paul, Church Lane, Stallingborough that was built at the end of the 18th century [NHLE1346978].
- 1.4.45 Rush Hills Covert [MNL1917] is a tract of woodland that is shown on OS maps of 1887-9 and is recorded in 1833 as 'Rash Hills Cover', and as Scrub Holt in 1828. Foxhole Wood [MNL1880] and Roxton Wood [MNL1882] are also marked on OS maps of 1887-9 and are

recorded at least as far back as 1824. North Beck Drain [MNL1796] is marked on OS maps of 1887-9.

- 1.4.46 Brocklesby Park [NHLE1063419] is a country house surrounded by early 20th century formal gardens by Reginald Blomfield, set within a large late 18th century landscaped park and is located c.1.5 km south of the elements contained within the survey area.
- 1.4.47 The Manchester, Sheffield and Lincoln Railway – Cleethorpes to Barton railway line [MNL1302], which opened in 1848 (Cleethorpes extension added around 1863, part of a transpennine route from Manchester via Sheffield), crosses the pipeline route at the north end of the Section (south of the A180 road). A railway level crossing is marked along the line on OS maps of 1887-9 at Roxton [MNL3081]. Railway sidings at Immingham [MNL2960] are shown on the OS maps of 1887-9, located alongside Roxton Road, and an historic wooden railway signal box that is extant (Roxton Siding Signal Box) [MNL2820].
- 1.4.48 The pipeline passes several historic roads of post-medieval date (marked on OS maps of 1887-9), although some are also likely to have medieval origins.
- 1.4.49 There are several World War 2 military installations at the northern end of the Section that are part of the defensive arrangements for Immingham Docks, including the Heavy Anti Aircraft Battery H37 at Immingham Grange [MNL1524] (possibly never built), and a pair of designated World War 2 heavy anti-aircraft batteries at Stallingborough (grade II* listed) [NHLE1403222, MNL1525], which in 1946 became a Nucleus Force Battery headquarters. A group of closely spaced circular or sub-circular earthworks at Healing Wells Farm, identified on aerial photographs from the 1940s, possibly represent the site of a World War 2 searchlight battery [MNL4346]. There is also a 1960s underground Royal Observer Corps monitoring post at Stallingborough which is also designated [NHLE1403218, MNL1900].

Undated – Section 2

- 1.4.50 There are several heritage assets that are undated which have been identified as cropmarks, or as a result of archaeological geophysical survey or archaeological assessment. It is possible that some of these could represent prehistoric to medieval or later occupation. Cropmarks 200 m southwest of Barton Street represent a small enclosure and field boundaries of possible medieval to post-medieval date [MNL123]. Undated ditches, pits and a possible palaeochannel have been detected by archaeological geophysical survey at Immingham [MNL3915] and Stallingborough [MNL3914], and a substantial but undated ditch was recorded during archaeological trial trenching also at Stallingborough [MNL4366]. An undated cropmark south of Gatehouse Farm, Stallingborough [MNL1234] was not located during construction work for a linear pipeline scheme in 1996 (a large deposit of organic sediment was recorded during archaeological investigations close to the site).

Prehistoric and Roman – Section 3

- 1.4.51 Evidence of prehistoric activity within the study area comes from findspots and cropmarks along this Section of the pipeline route. Small amounts of prehistoric flintwork comprising tools and waste material have been recovered at Irby Upon Humber [MNL1213], Holton le Clay [MLI41238], Ashby cum Fenby [MNL2110, MNL2111] and near Grainsby [MLI41215]. Neolithic flints (two flint scrapers and numerous flint flakes, including a human tooth) were discovered in Hatcliffe, located in discrete patches that possibly reflect disturbed features [MNL2081].
- 1.4.52 There is a possible prehistoric burial mound at Waltham that is visible as a subcircular cropmark on aerial photographs [MNL2554]; and in the extended wider area there is a scheduled Bronze Age round barrow cemetery at Tetney (visible as low earthworks and cropmarks) [NHLE1469975].

- 1.4.53 A possible late prehistoric or Roman enclosure, with an opening to the east and a small enclosure at the northwest corner, has been identified from aerial photographs at Ludborough [MLI98689]. Another possible late prehistoric farmstead with an associated field system have been identified from cropmarks, but it is situated outside of the study area (west of North Thoresby) [MLI87920]. Iron Age pottery from a ditch at Ashby cum Fenby is possibly indicative of late Iron Age activity in the study area [MNL4398]. There is evidence for more extensive Romano-British occupation and settlement within the study area. A possible Roman villa [MNL850] is visible as a cropmark to the west of Barnoldby le Beck.
- 1.4.54 At Irby upon Humber a dark soil on the south side of Wellbeck Hill has produced Roman finds (abundant animal bone, burnt material and Roman pottery) [MNL1952]. The presence of early medieval pottery at the same site suggests that occupation may have extended into later periods.
- 1.4.55 Surface artefact collection, archaeological geophysical survey and archaeological excavations of a cropmark site has revealed evidence of a Romano-British settlement at Hatcliffe [MNL211].
- 1.4.56 Southwest of Hatcliffe Mill another Roman settlement is suggested by possible building platforms, that are visible on aerial photographs alongside an old road [MNL208], with abundant Roman pottery from an adjacent field.
- 1.4.57 In Ashby cum Fenby a Romano-British pit or ditch was uncovered during a watching brief in 1995 [MNL2370]. Roman material has also been found near Ashby Hill, west of Ashby cum Fenby [MNL96], and Roman coins (together with early medieval and medieval material) has been reported by the Portable Antiquity Scheme near Ashby cum Fenby.
- 1.4.58 An extensive Romano-British field system covering approximately 12 acres, that is associated with a possible vineyard, is visible on aerial photographs at North Thoresby [MLI41207]; and pottery that is associated with dark soilmarks at Grainsby may indicate the presence of kilns and a buried cultivation system [MLI41216].

Early medieval and medieval – Section 3

- 1.4.59 The pipeline route passes several historic settlements that have their origins in the early medieval and medieval periods, however, not all settlements prospered, and there are a number of shrunken and deserted settlements (de-population caused by social and economic factors). Irby upon Humber (whose historic core is outside of the study area [MNL67]) is mentioned in Domesday, the Lindsey Survey (c.1115AD) and the Assize Rolls (1202AD) and likely has early medieval origins.
- 1.4.60 Barnoldby le Beck also has early medieval origins and is mentioned in historical sources (Domesday (1086), the Lindsey Survey (c.1115), and the Index to the Charters and Rolls (1202)) [MNL137]. In the post-medieval period, it was de-populated and emparked.
- 1.4.61 Remains dating to the 13th and 14th centuries have been recorded during archaeological investigations and there are earthworks representing the former medieval extent of settlement to the south of Main Road and Waltham Road (building platforms, paddocks and trackways).
- 1.4.62 Archaeological investigations in Brigsley have uncovered evidence for early medieval to medieval occupation (ditches containing Ipswich ware and Northern Maxey Ware) [MNL2320].
- 1.4.63 The settlement of Holton le Clay is first documented in the Domesday Book and is subsequently documented throughout the medieval period [MLI80552]. The remains of parts of the medieval settlement are visible on aerial photographs. There is evidence to suggest that the origins of the village lie in the late Anglo-Saxon period, if not earlier. Saxon graves were found during excavations at the church and finds dating from the mid- to late Saxon

period were also recovered. Archaeological investigations elsewhere in the village have produced late Saxon and medieval pottery and medieval and post-medieval features.

- 1.4.64 Ashby cum Fenby is also mentioned in Domesday (1086), the Lindsey Survey (c.1115) and the Curia Regis Rolls (1205). Archaeological investigations have found evidence of 9th to 15th century occupation [MNL2249; MNL2113; MNL3102, MNL98]. Aerial photographs and historic documents suggest that the settlement comprised dwellings interspersed with garths, paddocks and crofts.
- 1.4.65 Hawerby is an historic settlement known to have existed since the early medieval period [MNL233]. The former settlement pattern is of house platforms and crofts, arranged along a single central road, with the church and rectory to the west and a small country house with its associated farmstead to the north.
- 1.4.66 The pipeline route passes close to an Anglo-Saxon cemetery on Welbeck Hill [MNL64] that spreads along a gravel spur projecting from the hilltop. This was investigated in 1962 and 1979. A soil mark area to the northeast of the cemetery could represent either contemporary settlement or possibly a pyre associated with the cremations found in the cemetery [MNL71].
- 1.4.67 There is evidence of medieval settlement and cultivation across this Section with a cluster at and around the settlements that had their origins in the early medieval period. Southwest of North Thoresby, traces of the deserted medieval settlement of Autby [MLI41208] have been identified in the northwest corner of Autby Park [MLI41209]. The scheduled remains of the deserted medieval village of Beesby [NHLE1003553] are located on the edge of the study area, north of Cadeby Hall (northwest of Ludborough); south of Cadeby Hall are the remains of the deserted medieval village of North Cadeby [NHLE1003611]
- 1.4.68 Beyond the study area lie the remains of Waithe deserted medieval village (located alongside the A16 road) [MLI41233] and the shrunken medieval settlement of Grainsby which extends either side of Grainsby Lane [MLI41222].
- 1.4.69 There are several medieval moated sites in this Section, including east of Manor House, Irby upon Humber [MNL2511], where a square enclosure is flanked and respected by ridge and furrow; and at Ashby cum Fenby where there is a moated site and other possibly associated features at Hall Farm [MNL411]. At Barnoldby le Beck an L-shaped fishpond which is marked on OS maps of 1887-9, is potentially the remains of another moated site [MNL1590].
- 1.4.70 Aerial photography has identified several areas of medieval / post-medieval ridge and furrow throughout this Section. At Barnoldby le Beck extensive ridge and furrow earthworks almost surround the village core, were preserved in the two landscape parks to the south of the village [MNL2228] and are also recorded at Welbeck Hill, northwest of Barnoldby le Beck [MNL2237]. At Brigsby, numerous disparate areas of ridge and furrow earthworks [MNL2230] suggest that these remains are part of more extensive cultivation systems (a geophysical survey identified linear features which might be the remains of ridge and furrow along with other field boundaries). In Ashby cum Fenby there are also extensive earthwork remains of ridge and furrow cultivation features visible on aerial photographs from the late 1940s [MNL2224]. Ridge and furrow cultivation features are also recorded at Laceby [MNL2243], Hatcliffe [MNL2236], Grainsby Grange [MLI98651, MLI98650], Hawerby [MNL2226] and northeast of Ludborough [MLI125503].
- 8.5.153 The pipeline route passes several designated parish churches and associated features that are of medieval date.

Post-medieval and Modern – Section 3

- 1.4.71 The pipeline route passes several gravel and chalk extraction pits that are marked on OS maps from the end of the 19th century (Irby upon Humber [MNL1922, MNL1925]), Barnoldby le Beck [MNL1587], Beelsby [MNL1593], Hatcliffe [MNL1838, MNL1840] and Ashby cum Fenby [MNL1547]).

- 1.4.72 Southeast of Irby upon Humber and below Welbeck Hill is a scheduled Civil War earthwork fort [NHLE1007735, MNL62]. The 17th century fort comprises a rectangular earthen rampart with projecting bastions at each of its four corners, an enclosing ditch, and a counterscarp bank. It is situated on high ground close to the road from the Humber to Boston and Kings Lynn (Barton Street, A18), and within easy reach of the road from Newark to the Humber via Gainsborough (Grimsby Road, A46).
- 1.4.73 Several demolished post-medieval buildings and structures are located within the study area (mostly within and surrounding the historic settlements), including dwellings / houses at Barnoldby le Beck [MNL4282, MNL1571], Ashby cum Fenby [MNL343, MNL1553] and Hawerby [MNL1868]; former farms / farmsteads are recorded on the HERs at Barnoldby le Beck [MNL1592], Waltham [MNL2203], Holton le Clay [MLI116714], Brigsley [MNL2471], Ashby cum Fenby [MNL4259, MNL1555, MNL2472], Beesby [MNL1864] and Ludborough [MLI117126].
- 1.4.74 The pipeline route passes numerous extant farms, farmsteads, farm buildings, cottages, dwellings and related features that date to the post-medieval and modern periods within this Section of the study area (many identified as a result of the Lincolnshire Farmstead Mapping Project).
- 1.4.75 The pipeline route passes several historic roads of post-medieval date (marked on OS maps of 1887-9), although some are likely to have medieval origins.
- 1.4.76 RAF Waltham [MLI88745, MNL1423] was originally a small civil airport that opened on 12 June 1933 but was taken over as a training ground for the Royal Air Force Volunteer Reserve from June 1938. RAF Waltham was also known as RAF Grimsby which was requisitioned by the government for the RAF in May 1940, when concrete runways were laid, and it became a bomber station. After World War 2, the airfield was placed on a care and maintenance footing until it was decommissioned in 1950. In 1958 the land was sold, and parts of the airfield have been put to a variety of purposes. Associated with the World War 2 airfield are a range of other features, including a control tower [MNL3143], an air raid shelter [MNL3135], a B1 Type Hangar [MNL3136] and an unclassified hanger [MNL3142], components store [MNL3140] and a firing range [MNL3144]. A World War 2 searchlight battery and possible command post are visible on aerial photographs at Ashby cum Fenby [MNL2223].

Undated – Section 3

- 1.4.77 The pipeline route passes several undated cropmark features (enclosures and linear features) which could belong to any period (prehistoric to modern), including at Irby upon Humber (faint cropmarks indicating a possible sub-rectangular enclosure and trackway, [MNL409]) and at Waltham (cropmark of a possible undated small enclosure [MNL2544] and linear features [MNL2555]).

Prehistoric and Roman – Section 4

- 1.4.78 This Section crosses the edge of the low-lying Mablethorpe Outmarsh in an area where there are few known heritage assets of prehistoric or Roman date. There are no find spots of prehistoric date, although in the wider area prehistoric flintwork has been found at South Cockerington [MLI81617, MLI43242]. Possible prehistoric enclosures are also recorded at Keddington [MLI87925, MLI87928], a probable ring ditch was detected during an archaeological geophysical survey at South Cockerington [MLI116056], and possible Bronze Age barrows have been identified on aerial photographs at Keddington [MLI82192] and south of Covenham St Mary [MLI87809], but all these assets are situated outside the study area. Within the study area is a probable Bronze Age barrow at Alvingham [MLI82175].

Early medieval and medieval – Section 4

- 1.4.79 The historic settlements of Covenham St Bartholomew, Covenham St Mary, Yarburgh, North End, Alvingham, North Cockerington, South Cockerington and Grimoldby were likely founded in the early medieval or medieval periods, and all are documented since the medieval period. Several of the villages are outside of the study area (Covenham St Bartholomew [MLI81752], Covenham St Mary [MLI87799], Yarburgh [MLI41248] and Grimoldby [MLI88070], but are often associated with ridge and furrow and other settlement related features (crofts, tofts and former field boundaries and lanes) which extend beyond their historic cores and which are visible on aerial photographs (Covenham St Bartholomew [MLI87811], Covenham St Mary [MLI87807, MLI87808], Yarburgh [MLI87851]).
- 1.4.80 Alvingham was recorded as Alvingeham in Domesday [MLI41254]. Extensive earthworks have been noted in and around the village (tofts, crofts and strip fields) spreading out from the present village core and other features include enclosures, linear features, a boundary, a boundary bank and a pond.
- 1.4.81 The scheduled earthwork and buried remains of the deserted medieval village of Brackenborough are located c.1 km west of the survey area [NHLE1003616].
- 1.4.82 Between Meadow Lane and Red Lease Lane, on the south side of North Cockerington, there is a scheduled medieval moated site (rectangular enclosure surrounded by a ditch) [NHLE1004988, MLI43595].
- 1.4.83 South Cockerington [MLI43243] is first documented in Domesday and it probably has its origins in the Anglo-Saxon period. The regular road layout is possibly the result of deliberate planning. Earthworks associated with medieval settlement (crofts and trackways) have been identified and archaeological watching briefs have recorded evidence of medieval occupation.
- 1.4.84 Several areas of medieval / post-medieval ridge and furrow have been identified within and surrounding the historic settlements (also often extending beyond the study area, for example, at Alvingham [MLI5866, MLI116055]) visible on aerial photography and identified by archaeological geophysical survey and earthwork survey at Alvingham [MLI87867], North Cockerington [MLI87881, MLI87883, MLI87887, MLI87886], South Cockerington [MLI88026, MLI88027, MLI99468], Keddington [MLI99449] and Grimoldby [MLI97316].
- 1.4.85 A possible medieval water channel [MLI98758] is visible on aerial photographs between the River Lud and the Louth Canal, north of Keddington Corner Farm, East Keddington and there is a former medieval / post-medieval windmill mound alongside Marsh Lane, South Cockerington [MLI41379]. 8.5.184 There are a sparse number of find spots of medieval date, including a medieval cauldron or skillet found at North Cockerington [MLI41372].
- 1.4.86 The pipeline route passes several designated abbeys, parish churches and associated features which were constructed in the medieval period. Many of these are located within the historic settlement cores.

Post-medieval and modern – Section 4

- 1.4.87 The pipeline route passes a large post-medieval mill mound [MLI41375] at North Cockerington that is next to an area of ridge and furrow. The mound was originally identified as a burial mound (tumulus) on early OS maps.
- 1.4.88 The pipeline route crosses the historic Louth Navigation [MLI86587] between Alvingham and North Cockerington. Construction of the canal began in 1767 and linked inland Louth with coastal Tetney. A small inland port developed at Louth and the canal remained open until the 20th century (canal closed to navigation in 1924). Several designated (listed grade II) historic canal locks of red brick and ashlar limestone construction are located within the

study area, including Ticklepenny Lock TF 351889 [NHLE1063048] and Willows Lock TF 352892 [NHLE1063049] at Keddington; Alvingham lock and inverted syphon [NHLE1063080, MLI89033] and Salter Fen lock at Alvingham [NHLE1063081, MLI89034]

- 1.4.89 There are several demolished farms / farmsteads of post-medieval to modern date that are within the study area at Brackenborough [MLI117737], North Cockerington [MLI117810], South Cockerington [MLI117796, MLI117794 MLI117800] and Grimoldby [MLI117828, MLI117829].
- 1.4.90 The pipeline route also passes numerous extant farmsteads, farm buildings, cottages, dwellings and related features of post-medieval to modern date (many identified as a result of the Lincolnshire Farmstead Mapping Project).
- 1.4.91 The pipeline route crosses a demolished railway line of post-medieval to modern date (Great North Railway, Mablethorpe Branch line, marked on OS maps from 1888: Lincolnshire Sheet XLVIII.SE) northeast of Eastfield Farm, Grimoldby, which is visible as a soilmark (Google Earth images) (part of the same line is also visible at Theddlethorpe All Saints).
- 1.4.92 The study area in this Section contains two World War 2 anti-aircraft obstructions at Grimoldby which are part of a larger network of similar features constructed to deter an invading landing force [MLI88037, MLI88040]. At Covenham St Bartholomew and Grimoldby there are war memorials dedicated to the fallen of World War 1 and World War 2 which are designated assets (listed grade II): Covenham St Bartholomew War Memorial [NHLE1469632, MLI116049] and Grimoldby War Memorial [NHLE1440860].

Undated – Section 4

- 1.4.93 There are several undated enclosures visible as cropmarks on aerial photographs which have been found at North Cockerington (possible moated site) [MLI42854] and near South Cockerington [MLI88025, MLI88024]. Undated linear cropmarks are also visible at Grimoldby [MLI88041].

Prehistoric and Roman – Section 5

- 1.4.94 This Section of the pipeline route is located on the low-lying Mablethorpe Outmarsh area where there are few known heritage assets of prehistoric or Roman date. A prehistoric flint scraper [MLI87326] was found between Two Mile Bank and Pyewipe Farm during archaeological monitoring for the Maltby le Marsh to Manby Replacement Water Main.
- 1.4.95 An archaeological watching brief near Walk Farm, Great Carlton recorded evidence of a Romano-British field system and occupation remains [MLI87322] suggesting the possible presence of a nearby settlement (ditches, gully, hearth, pit, pottery and possible industrial activity). A sherd of Roman pottery was found during archaeological monitoring at Gayton le Marsh [MLI87325].

Early medieval and medieval – Section 5

- 1.4.96 There is extensive evidence for medieval settlement and cultivation within this Section of the pipeline route. Northeast of Great Carlton the route passes the remains of a medieval field system and settlement at Walk Farm [MLI42821]. Here the remains sit on slightly higher ground above the neighbouring enclosed fen that forms the marshland parish (features visible on aerial photographs include crofts, tofts, building platforms, a moat, ridge and furrow and a linear boundary feature). An archaeological geophysical survey (2003) identified a series of archaeological anomalies, including linear and rectilinear features (possibly representing field systems and/ enclosures) and several pit-like features (represented by burning or possible domestic dumping). During a subsequent archaeological watching brief (Maltby le Marsh to Manby Replacement Water Main) ridge and furrow was recorded and a sherd of medieval pottery. Next to the medieval settlement

a boundary earthwork is also visible on aerial photographs [MLI88280]. There is also an undated earthwork north of Walk Farm that could be part of the settlement [MLI88283]. 8.5.199 An area of historic settlement is documented at Theddlethorpe All Saints [MLI88255] which is mentioned in Domesday (although there is no distinction between Theddlethorpe All Saints and Theddlethorpe St Helens) and remains of the settlement have been identified on aerial photographs (enclosures and a moat). Pottery from Theddlethorpe All Saints suggests possible early medieval / medieval occupation west of Mablethorpe Road [MLI80941] and near to Railway Farm [MLI80945].

- 1.4.97 A possible late Saxon / medieval farmstead has also been recorded next to Station Road [MLI80963].
- 1.4.98 A medieval moated site known as 'Keleshall' was found in 1956 along Grove Road [MLI41411].
- 1.4.99 Between Slates Farm and Will Row on the western side of Theddlethorpe All Saints more remains of likely medieval settlement have been found (cropmark and earthwork remains of tofts and a trackway visible on aerial photographs next to the Great Eau) [MLI88207].
- 1.4.100 Areas of medieval / post-medieval ridge and furrow have been identified associated with the evidence of settlement activity, including at Pyewipe Farm, Gayton [MLI84714] and at Theddlethorpe All Saints, alongside Highgate and east of Highgate Farm, [MLI88216] and either side of Station Road [MLI80946]. Extensive areas of ridge and furrow are also present at Theddlethorpe St Helen [MLI98954] and either side of Mablethorpe Road, [MLI80943, MLI98724, MLI88266, MLI98722, MLI88264]. West of Mablethorpe Road there are other linear and pit-like features (recorded during archaeological monitoring) that are undated but which could belong to this period [MLI80940, MLI80942, MLI80944].
- 1.4.101 Medieval pottery has been found at Gayton le Marsh during surface artefact collection for a linear scheme [MLI84716, MLI84718, MLI84724], and a medieval candlestick was found during drainage work on the edge of Long Eau at Dowsey Fen [MLI41309] and these could be related to the medieval settlement near Walk Farm.
- 1.4.102 A probable medieval salters' route [MLI82703] follows the parish boundaries between Gayton le Marsh and Great Carlton that corresponds to an earthwork that is recorded on the 1st edition OS map of 1988 (Two Mile Bank).
- 1.4.103 The pipeline route passes several designated parish churches (listed grade I and grade II*) and associated features which date to the medieval and post-medieval periods.

Post-medieval and Modern – Section 5

- 1.4.104 This Section of the pipeline route contains several demolished farms / farmsteads of post medieval to modern date, including at Saltfleetby [MLI117784, MLI117785, MLI117786], Manby [MLI118194], Gayton le Marsh [MLI118412], Theddlethorpe All Saints [MLI118152] and at Mablethorpe and Sutton [MLI118366].
- 1.4.105 The pipeline route passes a post-medieval pumping station [NHLE1063090, MLI92978] and numerous extant farms, farmsteads, farm buildings, houses, dwellings and related features that are of post-medieval to modern date (many identified as a result of the Lincolnshire Farmstead Mapping Project).
- 1.4.106 The pipeline route crosses a demolished railway line of post-medieval to modern date at Theddlethorpe All Saints (Great North Railway, Mablethorpe Branch line, marked on OS maps from 1888: Lincolnshire Sheet XLIX.SE & XLIXA.SW) which is visible as a soilmark.
- 1.4.107 There are several World War 2 aircraft obstruction sites which are visible on aerial photographs within the study area, including at Theddlethorpe All Saints [MLI88212, MLI88213] and at Theddlethorpe St Helen [MLI88267]. These are part of a larger group of

former coastal defence installations that are in the wider area (pillbox and gun emplacements [MLI43272]; anti-aircraft pillbox [MLI125949, MLI125950]; and possible site of a World War 2 store [MLI43393]).

Undated – Section 5

1.4.108 The pipeline route passes other features which are also visible on aerial photographs, but which remain undated. These include linear features at Theddlethorpe All Saints, on the eastern side of the Great Eau [MLI88208, MLI88209] and close to the centre of the village [MLI88217]; and two enclosures at Theddlethorpe St Helen [MLI88265, MLI98810].

1.5 Methodology

- 1.5.1 All geophysical survey work was carried out in accordance with recommended good practice specified in the EAC guideline documents published by Historic England (Schmidt et al. 2016) and the Chartered Institute for Archaeologists Standard and Guidance for archaeological geophysical survey (2014).
- 1.5.2 Parameters and survey methods were selected that were suitable for the prospective aims of the survey and in accordance with recommended professional good practice (Schmidt et al. 2016).
- 1.5.3 Digital photographs of every survey parcel were taken before, during and after geophysical survey to show any changes to field conditions following the programme of works. The photos were downloaded and stored off site.
- 1.5.4 The gradiometer survey was carried out using Bartington Grad601-2 fluxgate gradiometers (see Appendix 2). The survey was conducted within a grid system, across grids measuring 30m by 30m which were marked out using temporary markers at each grid node.
- 1.5.5 Grid nodes were set out and recorded using a Trimble R8 / R10 dGPS with an error no greater than +/- 0.05m. The GPS system uses the Trimble "VRS Now" service to provide instant access to real-time kinematic (RTK) corrections enabling an accuracy of < 2cm. It was connected via a SIM card run on the Vodafone network with good cellular signal in the survey areas, meaning a repeater was not required.
- 1.5.6 Data was collected in the field on an east-west alignment using zig-zag traverses, with a sample interval of 0.25m and a traverse interval of 1m. A total of c.20.72 ha was surveyed using this method.
- 1.5.7 Before each session of use, each gradiometer was balanced around a single set up point within the survey area specifically chosen for use by all instruments used in the survey. This point is magnetically quiet and balancing the machine around this point, produces a more uniform dataset throughout and allows all data to be plotted with ease within a standard range as appropriate to the survey environment. Striping of the data may occur due to instrument drift; it is decided in the field if this is within a sensible and acceptable limit; if it is not, the grid(s) in question are re-collected.
- 1.5.8 Care was also taken to attempt to avoid metal obstacles present within the survey area, such as metal objects within and adjacent to the survey area as gradiometer survey is affected by 'above-ground ferrous disturbance' and avoiding these improves the overall data quality and results obtained.
- 1.5.9 The gradiometer data were downloaded using Bartington Grad601 PC Software v313 and processed using Geoscan Geoplot v4.0, the details of which can be found in Appendices 2 and 3. Data processing, storage and documentation were carried out in accordance with the good practice specifications detailed in the guidelines issued by the Archaeology Data Service (Schmidt and Ernenwein, 2009).
- 1.5.10 Interpretations of the data were created as layers in AutoCAD LT 2019 / ArcGIS Pro and the technical terminology used to describe the identified features can be found in Appendix 4.
- 1.5.11 The gradiometer survey was carried out using a Bartington Non-Magnetic Cart. The cart system utilises six Grad-01 fluxgate gradiometer sensors mounted upon a carbon fibre frame, along with data logging equipment and batteries (see Appendix 3). Before each session of use, the cart system was balanced around a single set up point within the Site specifically chosen for being magnetically quiet. In balancing the machine around this point, it produces a more uniform dataset throughout and allows all data to be plotted with ease.
- 1.5.12 A total of c. 127.85ha were surveyed using the Bartington cart.

- 1.5.13 Care was taken to attempt to avoid metal obstacles present within the survey area, such as metal fencing around hedge boundaries as gradiometer survey is affected by 'above-ground noise' and avoiding these improves the overall data quality and results obtained.
- 1.5.14 The data was downloaded from MLGrad601 and converted into a .xyz file in Geomar MultiGrad601 before being processed along with the GPS data in TerraSurveyor v3.0.34.10. The details of these processed can be found in Appendices 3 and 4.
- 1.5.15 Interpretations of the data were created in ArcGIS Pro and the technical terminology used to describe the identified features can be found in Appendix 5.

2 Overview of Results

2.1 Overview – Section 1

- 2.1.1 Section 1 contain areas 1 to 29. Probable and possible archaeological activity has been detected within this section, spreading across fields 11, 22, 23, 24, 26 and 29 (Figures 2.1 -2.2, 3.1- 3.2, 4.1 – 4.8; 5.1 – 5.11, 6.1 – 6.11).
- 2.1.2 Anomalies of probable archaeological origins have been interpreted as potentially parts of settlements and enclosure systems as well as a probable double-ditched trackway. There is a potential of salt working production within Area 11, as some Early Iron Age settlement and salt production site has been identified in the immediate vicinity (See Section 1).
- 2.1.3 Historic and modern agricultural activity has been identified across this section in the form of mapped historic field boundaries, ridge and furrow cultivation, and drainage systems. Modern ploughing trends are also visible. Anomalies of natural origins has been identified mostly in the northern part of the section and reflect variations in superficial deposits.
- 2.1.4 Natural anomalies covered the majority of Area 12 and 13. Modern interference is mostly limited to the edges of the survey area nevertheless, 7 pipelines have been identified within this section.
- 2.1.5 Anomalies classified as undetermined have been detected across this section, and while their exact origin is unclear, the archaeological connotation cannot be excluded.
- 2.1.6 The narrow scope of the survey area is a limiting factor in providing more complex interpretation, as many anomalies continue beyond the project boundaries.

2.2 Overview – Section 2

- 2.2.1 Section 2 contains areas 30 to 66 (Figures 2.3 – 2.9; 3.3 – 3.9; 4.10 – 4.48; 5.10 -5.48; 6.10 – 6.48). Probable and possible archaeological activity has been identified within this section across fields 30, 32, 33, 38, 45 57a, 57b, 62, 64 and 66.
- 2.2.2 The most extended complex has been detected within Area 45 and was interpreted as a probable settlement system with a double-ditched trackway of probable Roman chronology. This focus is known from previous geophysical survey and fieldwalking (MNL2689) (See section 1). Other anomalies of probable and possible archaeological origin in this section consist of enclosure systems.
- 2.2.3 Historic and modern agricultural activity has been identified across this section and is extensive. Multiple regimes of ridge and furrow cultivation, and drainage systems as well as modern ploughing are present across the landscape. Anomalies of natural origins has been identified mostly in the central part of the section and reflect variations in superficial deposits.
- 2.2.4 Modern interference is visible in the majority of this section and create a limiting factor, as its presence obscures weaker anomalies. Green waste spreads cover whole fields 32, 49, 50, 51 which limits broadly the interpretation.
- 2.2.5 Anomalies classified as undetermined have been detected across this section, and while their exact origin is unclear, the archaeological connotation cannot be excluded.
- 2.2.6 The narrow scope of the survey area is a limiting factor in providing more complex interpretation, as many anomalies continue beyond the project boundaries.

2.3 Overview – Section 3

- 2.3.1 Section 3 contains areas 67 to 138 (Figures 2.9 – 2.17; 3.9 – 3.17; 4.48 – 4.90; 5.48 – 5.90; 6.48 – 6.90). Probable and possible archaeological activity has been identified across multiple fields: 70, 70a, 77, 102, 103, 109, 115, 123, 128, 129, 130 and 135.
- 2.3.2 Anomalies of probable archaeological origins are represented abundantly in the form of probable settlements within Areas 103, 109 and across fields 128, 129 and 130. Some isolated clusters have been identified as probable enclosure systems. A possible double-ditched trackway has been detected as well.
- 2.3.3 It is worth mentioning that immediately to the south of field 70 an Anglo-Saxon cemetery was excavated (MNL64) (See Chapter 1). The area immediately to the west of fields 75 and 76 called 'Welbeck Hill' was included into geophysical prospection, in order to determine the existence of abovementioned funerary complex. Unfortunately, no anomalies of such origin were detected.
- 2.3.4 Historic and modern agricultural activity has been identified across this section in forms of ridge and furrows, former mapped field boundaries and drains. Modern ploughing trends are also present across this section. Anomalies of natural origins has been identified across the survey area and reflect variations in superficial deposits.
- 2.3.5 Modern interference is visible at the edges of survey areas, as well as 7 pipelines. Green waste spreads cover whole fields 73 and create a limiting factor, as its presence obscures weaker anomalies.
- 2.3.6 Anomalies classified as undetermined have been detected across this section, and while their exact origin is unclear, the archaeological connotation cannot be excluded.
- 2.3.7 The narrow scope of the survey area is a limiting factor in providing more complex interpretation, as many anomalies continue beyond the project boundaries.

2.4 Overview – Section 4

- 2.4.1 Section 4 contains areas 139 to 192 (Figures 2.24-2.26; 3.24-26; 4.122 – 4.131; 5.122 – 5.131; 6.122 – 6.131). Anomalies of possible archaeological origin have been identified within fields: 142, 150, 151, 161, 171, 179, 188.
- 2.4.2 Possible archaeological anomalies could represent former enclosures or undated field regimes. Anomalies of undetermined origin have been recorded throughout the survey area and their archaeological origin cannot be completely ruled out.
- 2.4.3 Historic and modern agricultural activity has been identified across this section in the form of multiple alignments of ridge and furrow cultivation, former mapped field boundaries and modern ploughing trends.
- 2.4.4 Anomalies of natural origin are visible across this section with a visible concentration in its centre and reflect variations in superficial deposits as well as a pipeline.
- 2.4.5 Magnetic disturbance is limited to the edges of the survey area and moderate ferrous spreads likely related to modern debris in the topsoil as well as services.
- 2.4.6 The narrow scope of the survey area is a limiting factor in providing more complex interpretation, as many anomalies continue beyond the project boundaries.

2.5 Overview – Section 5

- 2.5.1 Section 5 contains areas 193 to 248 (2.26 – 2.30; 3.26 – 3.30; 4.135 – 4.147; 5.135 – 5.147; 6.135 – 6.147). No anomalies of a probable archaeological origin have been identified within

this section, except fields 219 and 223 where possible archaeology was detected; anomalies of undetermined origin have been recorded throughout the survey area and their archaeological origin cannot be completely ruled out.

- 2.5.2 It is worth to acknowledged that toft earthworks and cropmarks of probable Medieval chronology have been recognized within Area 223 (MLI88214) (See Chapter 1).
- 2.5.3 Anomalies of natural origin have been primarily detected within this section and cover majority of surveyed fields. These are likely related to the variations in superficial deposits.
- 2.5.4 Magnetic disturbance is caused by wide spread of green waste in the topsoil, especially in area between fields 214-219. Magnetic disturbance appears also at the edges of the survey area and is caused by fencing.
- 2.5.5 The narrow scope of the survey area is a limiting factor in providing more complex interpretation, as many anomalies continue beyond the project boundaries.

3 Detailed Survey Results

Table key:

	Unsurveyable
	To be surveyed
	Surveyed as part of another field

3.1 Table 1: Specific Anomalies Table - Section 1

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
1 (Not surveyable due to above ground infrastructure)					
2 (Not surveyable due to above ground infrastructure)					
3 (Not surveyable due to above ground infrastructure)					
4 (Not surveyable due to above ground infrastructure)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
5 (Not surveyable due to above ground infrastructure)					
6 (Not surveyable due to above ground infrastructure)					
7 (Not surveyable due to above ground infrastructure)					
8 (Not surveyable due to above ground infrastructure)					
9 (Not surveyable due to above ground infrastructure)					
10 (Not surveyable due to above ground infrastructure)					
11	A group of linear and curvilinear anomalies, with strong positive magnetic signals, consistent with cut features such as ditches. These have a magnetically strongly enhanced infilling and have been identified within an area c.100m×70m towards the north of Area 11 [11a] (Figures 2.1, 3.1, 4.10 and 5.10). The formation of the anomalies suggests the presence of at least four conjoining enclosures, with a possible double-ditched track running south to north across its centre. Inside the eastern half of the	Broken anomalies with a strong magnetic signal extending northwards from the complex of [11a], and weak ephemeral anomalies extending southwards of the complex. These anomalies could relate to infilled cut features such as ditches, though it is not clear from the magnetic signals of the anomalies.	None	Linear striations running southwest to northeast are indicative of ploughing activity. A linear alignment of magnetic dipoles running northwest to southeast is indicative of a ceramic drainage pipe.	Band of strong dipolar anomalies indicative of natural intertidal and alluvial deposits runs northeast to southwest, across the south of the survey area. A band of magnetic disturbance running along the northeast boundary is indicative of the presence a service.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
	complex is a concentration of strong dipolar magnetic anomalies consistent with magnetically strongly enhanced deposits. There is a potential that some of these anomalies could be related to the salt working, known from archaeological records (see Section 1).				
12	None	None	Linear, strong positive anomalies have been recorded within a geological formation. These are the most probable of geological origin nevertheless due to their regular morphology an archaeological origin cannot be completely ruled out.	Linear striations running southwest to northeast are indicative of ploughing activity.	Band of strong dipolar anomalies indicative of natural intertidal and alluvial deposits running across centre of the survey area.
13	None	None	Linear, strong positive anomalies have been recorded within geological formation. These are the most probable of geological origin nevertheless due to their regular morphology archaeological origin cannot be completely ruled out.	Linear striations running north-northeast to south-southwest are indicative of ploughing activity. Several linear alignments of magnetic dipoles in the north of the survey area are indicative of the presence of ceramic drainage pipes.	Majority of the survey area is covered by strong dipolar anomalies indicative of natural intertidal and alluvial deposits.
14 (Not surveyable due to woodland)					
15 (Not surveyable waiting on access)					
16 (Not surveyable due to woodland)					
17 (Not surveyable due to woodland)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
18 (Not surveyable due to woodland)					
19 (Not surveyable due to woodland)					
20 (Not surveyable due to woodland)					
21 (Not surveyable due to woodland)					
22	Linear and curvilinear anomalies, consistent with infilled cut features such as ditches, appear to demark two enclosures in the centre of the survey area (Figures 2.1, 3.1, 4.16 and 5.16). The southernmost enclosure is positioned on the southern boundary of the survey area and appears to be sub-square in shape [22a], and the second enclosure, [22b], is also sub-square in shape, though ephemeral anomalies to the north suggest the enclosures may extend northwards [22c]	Series of weak linear anomalies, indicative of infilled ditches have been detected to the north and west of probable enclosures. Ephemeral anomalies to the north suggest the enclosures may extend northwards [22c]. Ephemeral anomalies to the west of these enclosures could relate to infilled features such as ditches, however, their context is limited, therefore a 'Possible Archaeology' category has been ascribed.	Several linear and discrete, small curvilinear anomalies have been interpreted across the area. These may reflect the location of infilled cut features such as pits and ditches respectively, however, the anomalies are either too isolated or ephemeral to be confident with such an interpretation.	Parallel linear anomalies running west-northwest to east-southeast in the east of the area, are indicative of former ridge and furrow cultivation. Towards the centre of the survey area weak, linear anomalies align with a historic field boundary identified on historic maps. Running west-northwest to east-southeast across the east of the survey area, is a negative curvilinear anomaly, which may relate to a former footpath [22d]. Magnetically strong, parallel, linear anomalies running north to south across the west and centre of the survey area have a formation consistent with drainage activity.	Running across the southeast corner of the area is a band of strong magnetic measurements consistent with a service. A spread of ferrous debris has been detected within enclosure [22a] and has been recognised as a former building mapped on historical sources.
23	Magnetically strong, linear anomalies, consistent with infilled cut features	None	None	None	Running across the area is a band of strong magnetic

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
	such as ditches have been identified in the southwestern corner [23a]. These are an extension of complex recognized within neighbouring Area 24 [24a]				response consistent with a service.
24	Magnetically strong, linear anomalies, consistent with infilled cut features such as ditches, demark a complex of rectilinear enclosures with internal divisions [24a] (Figures 2.1, 3.1, 4.17 and 5.17). The complex runs along a possible double-ditched track running south to north beside the eastern edge of the survey area [24b]. Overlapping anomalies suggest more than one phase of activity associated with the complex and linear anomalies mark smaller enclosures both in and outside the larger enclosures.	Weak, linear and discrete circular anomalies that could suggest infilled cut features such as pits are also identified both in and outside the complex; nevertheless, due to their fragmented and ephemeral morphology a 'Possible Archaeology' category has been ascribed.	None	Parallel linear anomalies running east to west across the area, are indicative of former ridge and furrow cultivation. Linear striations running east to west are indicative of ploughing activity is also visible.	Magnetic disturbance is visible along the southern edge of the survey area. Several isolated ferrous responses are likely to relate to modern debris in the topsoil.
25	None	A weak linear anomaly runs southwards from the northern boundary towards the southern boundary [25a] (Figures 2.1, 3.1, 4.4, 4.5, 5.17-18 and 5.17-18). The anomaly aligns with double-ditched track of the complex in Area 24 and could indicate an extension of the track. Nevertheless, these anomalies are relatively ephemeral and therefore a 'Possible Archaeology' category has been ascribed.	Few linear positive anomalies have been identified across the survey area. These are most likely of geological or agricultural origin nevertheless an archaeological origin cannot be completely ruled out.	Parallel linear anomalies running east to west across the area, are indicative of former ridge and furrow cultivation	Weak, curvilinear anomalies likely to relate to Devensian till deposits are visible in the southern part of the survey area. A band of magnetic disturbance consistent with a service runs east to west across the south of the area.
26	None	Several weak, linear and curvilinear anomalies, which may relate to infilled cut features such as ditches are	Cluster of weak magnetic dipoles of uncertain origin is located towards the north of the survey area.	In the centre of the survey area weak, a linear trend aligns with a historic field	A weak curvilinear anomaly in the east of the area is likely to relate to Devensian till deposits.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		located towards the north of the survey area.		boundary identified on historic mapping. Linear striations running across the survey area are indicative of ploughing activity.	A band of magnetic disturbance consistent with a service runs northeast to southwest through the centre of the survey area. A concentration of strong dipolar anomalies collocates with debris along the southern edge identified in field.
27	None	None	None	Parallel sinuous anomalies running east-southeast to west-northwest across the area, are indicative of former ridge and furrow cultivation. Linear alignments of magnetic dipoles indicative of ceramic drainage pipes have been interpreted in herringbone formations across the survey area. Some of these drains appear to align with former field boundaries identified on historical maps. It is likely that former field boundaries have been reused for drainage.	Concentration of dipolar anomalies consistent with debris, is collocated with a former building near the northern boundary. Two bands of magnetic disturbance consistent with a service run across the centre and northeast corner of the survey area.
28	None	None	None	Two linear alignments of magnetic dipoles are indicative of ceramic drainage pipes. Some of these drains appear to align with former field boundaries identified on historical maps. It is likely that former field boundaries have been reused for drainage	Magnetic disturbance identified along eastern, western and southern edges, attributable to adjacent domestic properties.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
29	Linear anomalies, consistent with infilled cut features such as ditches, demark a possible rectilinear enclosure, c.70m×25m, is located near the northern boundary [29a] (Figures 2.2, 3.2, 4.20 and 5.20).	A curvilinear anomaly adjacent to [29a], is consistent with an infilled cut feature such as a ditch. A few discrete and circular anomalies situated further north could also reflect potential pits. Due to a lack of coherent morphology, these anomalies have been categorised as 'Possible Archaeology'.	None	Parallel, sinuous anomalies running west-southwest to east-northeast and across the area, are indicative of former ridge and furrow cultivation. Magnetically strong parallel linear anomalies run northwest to southeast across the survey area with a formation consistent with drainage activity.	Two bands of magnetic disturbance running along the northern and southern boundaries are consistent with the presence of a service.

3.2 Table 2: Specific Anomalies Table – Section 2

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
30	None	A few curvilinear anomalies of positive weak and strong signals, indicators of ditch-like features have been detected in the western and central parts of the survey area [30a]. Due to their morphology these have been categorised as 'Possible Archaeology'; nevertheless, they could be also of agricultural origin.	A few strong, positive discrete anomalies have been recorded across the survey area. These are most likely of agricultural origin nevertheless an archaeological origin cannot be completely ruled out.	Linear striations running northwest to southeast as well as northeast to southwest are indicative of ploughing activity. A linear, strong positive anomaly has been identified crossing the western part of the survey area. This anomaly correlates with a former field boundary visible on historical mapping. There is a possibility that this old field boundary has been reused as a land drain.	A band of magnetic disturbance consistent with a service is located in the east of the survey area. The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area. A weak, positive anomaly of amorphous shape has been detected in the western part of the survey area and reflect most probably alluvial deposits.
31	None	In the northern part of the survey area, a rectilinear set	A few weak linear and curvilinear anomalies have	Linear striations running northwest to southeast as	Dipolar anomalies spread across the survey area

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		of positive weak anomalies have been identified [31a]. These could indicate a former enclosure, nevertheless due to its weak morphology against a magnetically noisy background only a 'Possible Archaeology' has been ascribed	been detected in the eastern and western corners of the survey area. The western anomalies are a continuation of two anomalies visible within Area 30. These are most likely of an agricultural origin nevertheless an archaeological origin cannot be completely ruled out.	well as northeast to southwest are indicative of ploughing activity.	indicative of the presence of green waste.
32	A group of linear and curvilinear anomalies, with strong magnetic signals, consistent with infilled cut features such as ditches, are identifiable against the strong magnetic background of the green waste, towards the centre of the survey area [32a] (Figures 2.3, 3.3, 4.23-24 and 5.23-24). The anomalies form a complex of two or three enclosures within an area c. 100m×50m.	Diffuse, linear anomalies appear to extend northwards and southwards from the complex of [32a] (Figures 2.3, 3.3, 4.23-24 and 5.23-24); the magnetic signal of these anomalies though are not so readily interpretable against the magnetic background of the green waste; therefore a 'Possible Archaeology' category has been ascribed.	None	Linear striations running north-northwest to south-southeast are indicative of ploughing activity.	Dipolar anomalies spread across the survey area indicative of the presence of green waste. A band of magnetic disturbance consistent with a service is located in the east of the survey area.
33	A group of linear and curvilinear anomalies, with strong magnetic signals, consistent with infilled cut features such as ditches, have been identified in the northern part of the survey area [33a] (Figures 2.3, 3.3, 4.24 and 5.24). The anomalies form a fragmented complex of two or three enclosures. These anomalies are probably an extension of the cluster located within Area 32.	A weak, linear anomaly has been identified within the enclosure, nevertheless its morphology and placement within the cluster, could indicate the agricultural origin; therefore a 'Possible Archaeology' has been ascribed.	None	Parallel, sinuous anomalies running northeast to southwest and across the area, are indicative of former ridge and furrow cultivation. Linear striations running north-northwest to south-southeast are indicative of ploughing activity.	Bands of magnetic disturbances are visible at the edges of the survey area.
34	None	None	None	Linear striations running north-northwest to south-	Bands of magnetic disturbances from modern utilities are visible in the

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				southeast are indicative of ploughing activity.	middle and southern part and at the edges of the survey area.
35 (surveyed as 34)					
36 (surveyed as 34)					
37	None	None	A few strong, positive discrete anomalies have been recorded in the centre of the survey area. These most likely of geological origin nevertheless their archaeological origin cannot be completely ruled out, given the archaeological activity in the closest vicinity.	Weak, linear anomalies have been identified across the majority of the survey area. These anomalies are indicators of ploughing activity.	A spread of strong and weak curvilinear anomalies has been identified in the centre of the survey area. These anomalies are likely to relate superficial deposits.
38	Across the survey area multiple linear, curvilinear and discrete anomalies of strong and weak positive signal have been identified (Figures 2.3, 3.3, 4.26 and 5.26). These anomalies form two distinctive clusters concentrated in the north [38a] and south [38b] of the survey area. Anomalies located in the northern focus, are characterised by strong, positive magnetic signal and continuous linear morphology, indicatives of infilled ditches. These anomalies form a possible enclosure system with internal divisions visible. Southern anomalies are also characterised by strong, positive magnetic signal, nevertheless their morphology is fragmented and discrete compared to the northern focus. These anomalies also form possible enclosures.	Few strong and ephemeral, linear and discrete anomalies have been detected in the northern part of the survey area. It is possible that these are also part of the enclosure system, nevertheless their weak and fragmented morphology could suggest different origin.	None	Weak, linear anomalies have been identified in the southern part of the survey area. These anomalies are indicators of ploughing activity.	Band of strong dipolar anomalies indicative of natural intertidal and alluvial deposits running has been detected in the eastern part of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
39	None	None	A few strong, positive discrete anomalies have been recorded in the centre of the survey area. These are the most probable of geological origin nevertheless their archaeological origin cannot be completely ruled out, given the archaeological activity in the closest vicinity.	None	Band of strong dipolar anomalies indicative of natural intertidal and alluvial deposits covers the entire survey area.
40	None	Linear, curvilinear, rectilinear and circular anomalies of both weak and strong magnetic signal have been identified across the survey area [40a] (Figures 2.3, 3.3, 4.27 and 5.27). These anomalies could be consistent with cut features, and therefore have a potential to be anthropogenic in origin and a possible archaeological categorisation has been given. These anomalies could form part of a former field system or parts of enclosures, yet they lack characteristics that would allow for a confident interpretation. Few weak, oval anomalies have been detected within the centre of the survey area and could be associated with points of extraction.	Weak, positive, magnetically quiet amorphous anomaly with smooth edges, has been identified in the centre of the survey area. The anomaly is likely related to natural deposits, but an archaeological origin cannot be completely ruled out, as it could be a point of extraction, therefore an 'unclear' category has been ascribed.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Band of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area. Magnetic disturbance is present in the centre of the survey area, and it is caused by a service.
41	None	Linear, curvilinear, rectilinear and circular anomalies of	None	A weak linear anomaly has been identified crossing in	Dipolar anomalies spread is visible in the central part of

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		both weak and strong magnetic signal have been identified across the survey area [41a and b] (Figures 2.4, 3.4, 4.28 and 5.28). These anomalies could be consistent with cut features, and therefore have a potential to be anthropogenic in origin and a possible archaeological categorisation has been given. These anomalies could form part of a former field system or parts of enclosures, yet they lack characteristics that would allow for a confident interpretation.		the central part of Area 41. Due to its morphology and signal, it is possible that this anomaly relates to a former unmapped field boundary. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified across the survey area with a formation consistent with drainage activity.	the survey area indicative of the presence of green waste. The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.
42	None	None	None	A strong, linear anomaly has been identified crossing the centre of Area 42. Due to its morphology and signal, it is possible that this anomaly relates to a former unmapped field boundary. It is also a continuation of anomaly recorded in Area 41. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.
43	None	None	None	Magnetically strong, linear anomalies have been identified across the survey area with a formation	A strong and broad magnetic disturbance has been recorded running across the survey area on northwest to

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				<p>consistent with drainage activity.</p> <p>Weak, linear anomalies have been identified running across of the survey area.</p> <p>These anomalies are indicators of ploughing activity.</p>	<p>southeast alignment and it is caused by service.</p>
44	None	None	None	<p>Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation.</p>	<p>A strong and broad magnetic disturbance has been recorded running across the survey area on northwest to southeast alignment and it is caused by service.</p>
45	<p>Across the survey area, multiple linear, rectilinear, curvilinear and circular anomalies of both weak and strong positive signals have been detected [45a] (Figures 2.4, 3.4, 4.30 and 5.30). These anomalies form a possible settlement with field system and double-ditched trackway running to the west on the north to south alignment. Anomalies form visible enclosures with multiple internal divisions. The entire focus covers the area of approximately 1.8ha and continues to the south and possibly to the east and north-east beyond the survey area extend. The complex is known from previous geophysical survey and is recorded as a complex of Roman enclosures alongside a trackway (MNL2689) (See Section 1).</p>	None	None	<p>Weak, linear anomalies have been identified running across of the survey area.</p> <p>These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbances are visible at the edges of the survey area.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
46	In the northern part of the survey area, a few linear curvilinear and circular anomalies of positive weak and strong signal have been detected [46a] (Figures 2.4, 3.4, 4.31 and 5.31). These anomalies are a continuation of the settlement system identified within Area 45.	A few faint, linear and curvilinear anomalies have been detected as a possible extension of the settlement system; nevertheless due to a very ephemeral signal of these anomalies, only a 'Possible Archology' category has been ascribed.	Anomalies of unclear origins have been detected across the survey area. The sinuous anomaly has been identified running on northwest to southeast alignment in the centre of the survey area [46b]. This anomaly could be of potential archaeological origin, as it aligns well with parts of the settlement; nevertheless, its morphology suggests more of natural connotations; therefore the 'Unclear' category has been ascribed as none of origins can be excluded with certainty.	Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation.	Magnetic disturbances are visible at the edges of the survey area. In the southern part of the survey area, a spread of natural origin has been detected and it is related to alluvial activity and represents a part of a former river channel. Magnetic disturbances are visible at the edges of the survey area.
47	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area. Magnetic disturbances are visible at the edges of the survey area.
48	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste. Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the southern end of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					Magnetic disturbances are visible at the edges of the survey area.
49	None	None	None	Parallel, sinuous anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.	Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste. Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the eastern and northern parts of the survey area.
50	None	A few linear and rectilinear anomalies have been identified within the central part of the survey area. Their visibility is limited due to a spread of a green waste present; nevertheless, some strong, positive, ditch-like anomalies have been detected. These anomalies are regular in shape and could indicate parts of former enclosures, therefore a 'Possible Archaeology' category has been ascribed.	In the central part of the survey area, a linear, strong positive anomaly has been identified. This anomaly could indicate a former field boundary visible on historical mapping, although it is not well aligned with it therefore the 'Unclear' category has been ascribed.	None	Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste. Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
51	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.
52/52a	None	None	Two ditch-like anomalies of weak and strong positive signals have been identified in the northern and central part of the field. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Strong isolated responses are visible across the survey area and area indicative of the presence of green waste.
53b	None	None	Few discrete anomalies of weak and strong positive signals have been identified in the northern part of the field. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance has been detected at the edges of the survey area.
54a	None	None	Few discrete anomalies of weak and strong positive signals have been identified across the field. These have no distinctive signal or shape. The anomalies likely relate to	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance has been detected along two services cutting through the field, as well as at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.		
55a	None	None	None	Linear, dipolar anomalies have been identified running across the survey area and indicate field drains.	Bands of strong and weak positive anomalies indicative of natural deposits have been identified across the survey area.
56a	None	None	A single curvilinear anomaly has been identified in the northern part of the survey area. This has no distinctive signal or shape. The anomalies likely relate to natural variations or agricultural activity, but an archaeological origin cannot be completely ruled out.	Two weak linear dipolar anomalies have been identified in southern part of the survey area. Those could be indicators of ceramic drains.	Bands of strong and weak positive anomalies indicative of natural deposits have been identified in the southern part of the survey area.
57a	None	Multiple scattered discrete positive anomalies have been recorded in the northwestern corner of the field [57a'a]. Although fragmentary the responses are coherent, and therefore these have been categorised as Possible Archaeology. These could reflect former enclosures, potentially disturbed by later agricultural activity.	A few discrete anomalies of weak and strong positive signals have been identified in the central part of the field. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural, or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Parallel, regular anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.	Magnetic disturbance has been detected along two services cutting through the field, as well as at the edges of the survey area.
57b	A cluster of strong and weak linear, curvilinear, and circular anomalies have been identified in the central part of the survey area [57b'a]. These	Additional discrete anomalies have been detected in the vicinity of Probable archaeology cluster [57b'b]. These anomalies could be	Few discrete anomalies of weak and strong positive signals have been identified in the central part of the field.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are	Magnetic disturbance has been detected at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
	anomalies exhibit a coherent shape and could indicate a former enclosure.	related to it nevertheless their morphology could also suggest geological origin; therefore, the Possible Archaeology category has been ascribed.	These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	indicators of ploughing activity. Parallel, regular anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.	
58a	None	None	Weak linear trends have been detected in the south of the survey area. These have no distinctive signal or shape. The anomalies likely relate to natural variations or agricultural activity, but an archaeological origin cannot be completely ruled out.	Magnetically strong, linear anomalies have been identified running across the survey area and indicate drainage features.	Magnetic disturbance has been detected along a service cutting through the field, as well as at the edges of the survey area.
59	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Parallel, regular anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.	A broad, sinuous, positively enhanced anomaly has been detected in the northern part of the survey area and reflect the superficial deposits. The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area. Magnetic disturbance has been detected along a service cutting through the field, as well as at the edges of the survey area.
60	None	None	None	A singular positive anomaly was recorded cutting through the field. It is most likely a	Amorphous zones of enhanced magnetism have been detected within the survey area. These are

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				former unmapped field boundary. Parallel, regular anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.	typical of natural subsurface variations.
61	None	None	None	Parallel, regular anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.	Zones of magnetic disturbance along the northwestern limits of the survey area are due to adjacent fences and modern debris.
62	None	Multiple discrete positive anomalies have been recorded in the southern part of the survey area [62a]. Their general layout exhibits some regularity, and therefore these have been categorised as Possible Archaeology. These could reflect former enclosures.	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	None
63	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	None
64	None	Multiple scattered discrete positive anomalies have been recorded in the northern part of the survey area [64a]. This cluster is an extension of anomalies found in field 62 to the north. Their general layout exhibits some	Weak linear trends and discrete anomalies have been identified in the centre and south of the field, respectively. These have no distinctive signal or shape. The anomalies likely relate to	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong and weak positive anomalies indicative of natural deposits have been identified across the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		regularity, and therefore these have been categorised as Possible Archaeology. These could reflect former enclosures.	natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.		
65	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance has been detected at the edges of the survey area.
66	None	In the south-eastern corner of the survey area, strong and weak positively enhanced anomalies have been identified [66a]. Together, those linear and rectilinear anomalies create a semi-rectangular shape, that could indicate part of a former enclosure. The feature most likely continues to the east, beyond the limits of the survey area. Due to limited context and morphology, these anomalies have been classified as 'Possible Archaeology'.	Two ditch-like anomalies of weak and strong positive signals have been identified crossing the possible enclosure on north-east to south-west alignment. These have no distinctive signal or shape. The anomalies likely relate to natural variations, but an archaeological origin cannot be completely ruled out.	Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation.	The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.

3.3 Table 3: Specific Anomalies Table – Section 3

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
67/67a	None	None	Across the survey area several anomalies have been classified as 'Unclear', including strong, discrete	Weak, linear anomalies have been identified running across of the survey area. These anomalies are	Magnetic disturbance has been detected at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			anomalies and weak, curvilinear anomalies. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	indicators of ploughing activity.	
68/68a	None	None	In the northern part of the survey area an amorphous positive anomaly has been identified. This anomaly has no distinctive signal or shape. The anomaly likely relates to natural variations or modern debris, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance has been identified in the southern end of the survey area and was caused by a service. Bands of strong and weak positive anomalies indicative of natural deposits have been identified across the survey area.
69/69a	None	None	Across the survey area amorphous, linear and circular positive anomalies have been identified. These responses have no distinctive signal or shape. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong and weak positive anomalies indicative of natural deposits have been identified across the survey area. In the north-western part of the survey area, a magnetic disturbance caused by a service is visible.
70	In the central part of the survey area a series of linear, curvilinear, rectilinear and discrete anomalies have been detected [70a] (Figures 2.10, 2.11, 3.10, 3.11, 4.51-52 and 5.51-52). These anomalies seem to create a	Running on west to east alignment a series of strong and weak positive linear and curvilinear anomalies have been detected [70b] (Figures 2.10, 2.11, 3.10, 3.11, 4.51-	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the eastern part of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
	<p>cluster of possible enclosures or field divisions. Many anomalies overlap on each other, which could suggest multi-phased usage of this area. Extensive agricultural activity visibly limits the interpretation as cluster is cut with multiple ploughing lines.</p>	<p>52 and 5.51-52). These anomalies cutting through the cluster of enclosures and their exact relationship is unknown. It is possible that these anomalies are related to a double-ditched trackway, that was either contemporaneous or of different chronology to the enclosure system. Nevertheless, due to a limited context and abundance of natural formations within the broader landscape, a 'Possible Archaeology' category has been ascribed. Multiple linear and curvilinear anomalies have been detected north and northwest to the enclosure system. These could indicate the extension of the complex, nevertheless due to their weak morphology only 'Possible Archaeology' category has been ascribed.</p>			
<p>70a</p>	<p>In the central part of the field another cluster of anomalies that forms a visible extension of abovementioned probable enclosure system [70a] has been detected.</p>	<p>Within northwestern corner of the survey area multiple linear anomalies have been detected. These anomalies form an extension of a previously detected cluster in area 70 [70b].</p>	<p>A few linear and curvilinear positive anomalies have been detected. These are the most probable of geological origin nevertheless due to their regular morphology, their archaeological origin cannot be completely ruled out.</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p> <p>Parallel anomalies running north to south of the area are possible indicative of former ridge and furrow cultivation.</p>	<p>Magnetic disturbance has been detected at the edges of the survey area.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
71	None	None	Multiple linear and curvilinear positive anomalies have been detected within geological spread. These are the most probable of geological origin nevertheless due to their regular morphology, their archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running in western part of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area
72	None	None	Linear and curvilinear positive anomalies have been detected across the survey area. These are the most probable of geological or agricultural origin nevertheless due to their regular morphology, their archaeological background cannot be completely ruled out.	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area
73	None	None	Multiple discrete and circular, positive anomalies have been detected across the survey area. These are the most probable of geological origin nevertheless due to their morphology, and archaeological findings in the closest vicinity of the survey area, their archaeological potential cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste. Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area.
74	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are	Magnetic disturbance has been detected at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				indicators of ploughing activity. Magnetically strong, linear anomaly has been identified running across the survey area and indicate a drainage activity.	
75 Welbeck Hill Area	None	None	Multiple scattered, circular, dipolar anomalies have been detected in the northeastern part of the field. These have no distinctive pattern; however, their morphology could suggest anthropological activity and therefore their archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies have been detected across the survey area and reflect changes in superficial deposits. Several strong, positive, amorphous anomalies detected within the geological spread, overlap with known gravel pit recorded on historical mapping [W1]. Magnetic disturbance has been detected at the edges of the survey area.
75/75a	None	None	Two linear, positive anomalies have been detected in the centre of the survey area. These have no distinctive signal or shape. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area.
76	None	None	None	None	Bands of strong dipolar and positive anomalies indicative

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					of natural intertidal and alluvial deposits have been identified across the survey area.
77	None	In the south-eastern corner of the survey area a series of strong and weak positive linear and rectilinear anomalies have been detected [77a]. These anomalies are indicatives of ditch-like features, and their alignment could suggest a small enclosure. Nevertheless, due to a limited context, extensive agricultural activity, as well as abundance of natural anomalies a 'Possible Archaeology' category has been ascribed.	A linear anomaly of strong positive signal has been detected in the southern part of the survey area. This anomaly is the most probable of geological or agricultural origin nevertheless its archaeological background cannot be completely ruled out.	Parallel anomalies running west to east and across the area are indicative of former ridge and furrow cultivation. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance has been detected at the edges of the survey area.
78	None	None	None	Parallel anomalies running SW-NE and across the area are indicative of former ridge and furrow cultivation.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance has been detected at the edges of the survey area.
79	None	None	Few linear, positive anomalies have been detected in the southern part of the survey area. These have no distinctive signal or shape. These anomalies likely relate to natural,	Parallel anomalies running SW-NE and across the area are indicative of former ridge and furrow cultivation.	Bands of strong dipolar and positive anomalies have been detected in the central part of the survey area and reflect changes in superficial deposits.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.		Magnetic disturbance has been detected at the edges of the survey area.
80	None	None	Multiple discrete, positive anomalies have been detected across the survey area. These anomalies are the most probably of geological or agricultural origins, nevertheless an archaeological cause cannot be completely ruled out.	<p>Two linear anomalies have been detected in the centre of the survey area. These correlate with former field boundaries visible on historical mapping and it is also probable that these old field boundaries have been reused as land drains.</p> <p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate drainage features.</p>	<p>Bands of strong dipolar and positive anomalies have been detected in the southeastern part of the survey area and reflect changes in superficial deposits.</p> <p>Magnetic disturbance has been detected at the edges of the survey area.</p>
81	None	None	None	None	Magnetic disturbance has been detected at the edges of the survey area and around services which run through the survey area.
82	None	None	None	None	Magnetic disturbance has been detected at the edges of the survey area and around service which run through the survey area.
83					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
(Christmas tree farm)					
84 Christmas tree farm)					
85 (Christmas tree farm)					
86	None	None	A linear anomaly of weak positive signal has been detected in the western half of the survey area. This anomaly is the most probable of agricultural origin nevertheless its archaeological background cannot be completely ruled out.	<p>Weak, linear, dipolar anomalies have been identified in the central part of the survey area. These anomalies align with field boundaries recorded on 2nd Edition OS mapping.</p> <p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p> <p>Parallel anomalies running in two different alignment and respecting historical boundary regime are visible within the survey area. These are indicative of former ridge and furrow cultivation.</p>	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the central and southeast corner of the survey area.</p> <p>Magnetic disturbance has been detected at the edges of the survey area.</p>
87 (Ground Conditions)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
88	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
89	None	None	Two linear anomalies exhibiting weak and strong magnetic signal as well as a spread of discrete anomalies have been identified in the southern part of the survey area. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern and southern parts the survey area.
90	None	None	In the centre of the survey area, several positive, discrete and circular anomalies have been detected. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear, positive anomalies have been identified in the northern part of the survey area, running on north to south alignment. These anomalies broadly align with field boundaries recorded on 2nd Edition OS mapping. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. In the southern part of the survey area a magnetic disturbance has been identified and caused by a service.
91	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					identified across the survey area.
92	None	None	Few linear anomalies have been detected in the southern part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>
93	None	None	A single, curvilinear anomaly has been detected in the northern part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.
94 (Bank/trees)					
95	None	In the western corner of the survey area, a semi-annular strong positive anomaly has been identified accompanied by a circular positive anomaly situated in the	Linear, positively enhanced, anomalies have been detected in the northern part of the survey area. These anomalies likely relate to natural or agricultural	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity and tram lines.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		centre of the abovementioned form [95a]. These could indicate parts of a possible ring-ditch with some internal structures. However, due to extensive agricultural activity and a strong geological background a more definite interpretation is not possible and therefore a 'Possible Archaeology' category has been ascribed.	activity, but an archaeological origin cannot be dismissed.	Parallel anomalies running north to south and across the area are indicative of former ridge and furrow cultivation.	
96 (Bank/trees)					
97	None	None	Two linear, positively enhanced anomalies have been detected in the northern part of the survey area. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.
98	None	In the southeastern corner of the survey area, anomalies of positive weak and strong signal have been identified [98a]. Due to their semi-rectilinear shape, these have been categorised as 'Possible Archaeology'; nevertheless their context is limited.	Positively enhanced, broad anomalies have been identified across the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.	Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area. Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
99 (Surveyed as 98)					
100/101	None	None	Several curvilinear and circular, positively enhanced, anomalies have been detected in the central part of the survey area. These anomalies likely relate to natural or agricultural activity, but an archaeological origin cannot be dismissed.		Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
102	In the southern part of the survey area strong, positive anomalies, indicative of ditch-like features, as well as pit like anomalies have been identified [102a] (Figures 2.13-14, 3.13-14, 4.72 and 5.72). These anomalies form a regular pattern that extends beyond Area 102 and continues as a more defined cluster of regular anomalies within Area 103 [103a]. These anomalies could reflect parts of a former settlement. It appears that settlement continues to the north-east beyond the survey extent boundaries.	None	In the centre of Area 102, a strong, discontinuous anomaly has been identified. It is unclear what is its origin, as it could be an indicator of a land drain; nevertheless, with the archaeological activity nearby, an archaeological origin cannot be completely ruled out.	A magnetically strong, linear anomaly has been identified running across the survey area and indicates a drainage feature.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. A spread of isolated ferrous responses is visible in the northern part of the survey area is caused by modern debris in the topsoil.
103	A series of linear, curvilinear, circular and discrete anomalies, of varying strength, have been identified in the northern part of the survey area [103a] (Figures 2.13-14, 3.13-14, 4.72-73 and 5.72-73). Their regularity and rectilinear forms indicate parts of a former settlement. It appears that settlement continues to the north-east beyond the survey extent boundaries.	Several more ephemeral anomalies have been detected in the centre of the survey area [103b]. These anomalies, due to their morphology, differ to the regular recliner anomalies in the northern part, therefore due to a limited context and abundance of natural formations within the broader landscape, a 'Possible	A series of discrete, positive anomalies has been detected in the centre of the survey area. These do not present any distinctive shape; nevertheless, due to the proximity to the archaeological anomalies their archaeological background cannot be excluded.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		Archaeology' category has been ascribed.			
104	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area.
105	None	None	A set of linear, weak, positive anomalies has been identified in the centre part of the survey area. These are the most probable of geological origin, nevertheless their regularity and continuity, as well as an opposite alignment to geological forms detected nearby could suggest their anthropological origin.	A negative, linear anomaly has been detected in the southwestern part of the survey area, cutting through the geological formation. This anomaly corresponds with a former field boundary visible on a historical mapping. Weak, linear anomalies have been identified running in the western part of the survey area. These anomalies are indicators of ploughing activity	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
106 (Surveyed as 105)				.	
107 surveyed as 105					
108			A series of linear, discrete anomalies have been identified in the northern part of the survey area. Due to	In the centre of Area 108 a linear trace of dipolar and positive weak anomalies has been identified. These	

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			the limited context and generic morphology, these anomalies have been classified as 'Unclear', nevertheless the archaeological origin cannot be completely ruled out.	anomalies correspond with a former field boundary visible on historical mapping. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	
109	A series of positive, linear, rectilinear, and circular, anomalies have been identified in the northern part of the Area 109 [109a] (Figures 2.17, 3.14, 4.75 and 5.75). These anomalies cover an area of approximately 2.5 ha. The size, regularity of forms and magnetic signal, suggest existence of an undated settlement. It appears that the settlement continues beyond the survey extent to the west and to the east of the survey area.	None	A spread of discrete linear and circular positive strong anomalies has been detected in the southern part of the survey area. These could be of geological origin, nevertheless their archaeological background cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity. In the central part of Area 109, a dipolar anomaly of circular shape has been detected. This anomaly could reflect an existence of a former pond, visible on historical mapping.	Magnetic disturbance is visible at the edges of the survey area.
110	None	None	Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.	Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area.
111		A series of positively enhanced, discrete rectilinear and circular	Linear, positively enhanced, broad anomalies have been identified crossing the centre	Parallel anomalies running west to east and across the	None

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		anomalies have been identified [111a]. Due to their morphology and signal these anomalies have been identified as 'Possible Archaeology', as they appear to form regular clusters that continue into Area 112; however, these could be of geological origin.	of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.	area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	
112	None	A few weak, positively enhanced anomalies have been identified in the northern corner of the Area 112 [112a]. These are the continuation of clusters recognised within Area 111, that have been identified as 'Possible Archaeology'.	Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.	Parallel anomalies running west to east and across northern half of the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area.
113	None	None	Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity. Parallel anomalies running west to east in the southern part the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the	None

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				survey area and indicate a drainage activity.	
114	None	None	Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.	Parallel anomalies running southwest to northeast in the southern part the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	None
115	In the southeastern corner of the survey area, a set of both strong and weak positive anomalies has been identified [115a]. These anomalies form rectilinear responses and possibly reflect an enclosure system or a former field system. Some circular anomalies could represent post holes.	Further to the north of the cluster [115a] a set of scattered, discrete anomalies has been identified [115b]. These anomalies are far more ephemeral when compared to the southern cluster and far more discrete. Some rectilinear forms are still visible, and therefore a Possible Archaeology category has been ascribed.	Several circular, positively enhanced, anomalies have been detected in the central part of the survey area. These anomalies likely relate to natural or agricultural activity, but an archaeological origin cannot be dismissed.	Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area.
116	None	None	Several positively enhanced anomalies of various morphology have been identified across the survey area. These do not exhibit any specific layout or shape, and therefore an undefined category has been ascribed to them. However, in the northern part of the field a set of anomalies reflecting possibly rectilinear form with	Parallel anomalies running southwest to northeast in the southern part the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			<p>internal circular anomaly has been detected [15a]. The ephemeral form of this set as well as magnetic disturbance in the vicinity, limits more certain interpretation, nevertheless its shape could suggest an archaeological potential.</p>		
117	None	None	<p>Two positively enhanced anomalies have been detected in the central part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.</p>	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area as well as around a service.</p>
118/ 119	None	None	<p>Several positively enhanced anomalies have been detected in the central part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.</p>	<p>Parallel anomalies running NW-SE in the western half the survey area are indicative of former ridge and furrow cultivation.</p> <p>Weaker, linear anomalies have been identified running SW-NE. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area as well as around a service.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
119 (surveyed as 118)					
120					
121	None	None	A strong, positive small discrete anomaly has been identified in the eastern part of the survey area. It lacks any characteristic shape or signal and therefore has been categorised as 'Unclear'. It may indicate natural variations or more deeply buried ferrous or fired material.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area and around a service which runs NW-SE through the southern half of the survey area.
122	None	None	A group of strong, discrete responses have been identified in the centre of the survey area. They lack any characteristic shape or signal and therefore have been categorised as 'Unclear'.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area.
123	None	A set of discrete linear and circular anomalies have been identified in the western part of the survey area [123a]. These anomalies have a rectilinear form with possible internal features. It is possible that these anomalies indicate former enclosure. However, they are fragmentary and the rich geological background is a limiting factor and therefore only 'Possible Archaeology' category has been ascribed.	Weak, positive linear trends and pit type anomalies have been recognised across the survey area. These are most likely agricultural in nature, but archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area and around a service which continues from Area 121. A spread of isolated ferrous responses is visible in the northern part of the survey area is caused by modern debris in the topsoil. In the centre of the survey area a spread of magnetically quiet, amorphous positively enhanced anomalies have

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					been identified [123b]. These could indicate former quarrying activity.
124	None	None	A strong, positive pit type anomaly has been identified in the eastern part of the survey area. It lacks any characteristic shape or signal and therefore has been categorised as 'Unclear'.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area and around a service. Broad discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
125					
126					
127 (Surveyed as 128)					
128	A series of linear, curvilinear, rectilinear and pit like anomalies have been identified across Area 128 [128a] (Figures 2.17, 3.17, 4.88-90, 5.88-90). These anomalies create a regular cluster and could indicate a settlement, that continues into Areas 129 and 130. The interpretation is severely limited due to a pipeline crossing the northern part of the survey area as well as limited survey extent.	Positively enhanced, linear anomalies have been detected across the survey area [128b and c]. These could be of archaeological origin, as anomalies of probable Archaeology have been detected in the immediate vicinity. Unfortunately, due to a service running across the area and the limited survey extent, a 'Possible Archaeology' category has been ascribed.	Few weak, curvilinear and linear anomalies have been detected in the western and northern part of the survey area. These do not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area and around a service.
129	A series of linear, curvilinear, rectilinear and circular anomalies have been identified across Area 129 [129a]	A singular isolated, positive linear anomaly has been detected in the northern part	Two amorphous positive anomalies have been identified in the centre of	Weak, linear anomalies have been identified running across of the survey area.	Magnetic disturbance is visible at the edges of the

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
	(Figures 2.17, 3.17, 4.88-90, 5.88-90). These are a continuation of the settlement pattern recognised within Area 129.	of the survey area. Its signal is affected by the service crossing in between the settlement and the anomaly, and therefore the context of this anomaly is limited and distorted.	Area 129 in the vicinity of the archaeological anomalies. Their origin is unclear, as their morphology is uncharacteristic, therefore these has been classified under this category.	These anomalies are indicators of ploughing activity.	survey area and around a service.
130	A series of linear, curvilinear, rectilinear and circular anomalies have been identified across Area 130 [130a] (Figures 2.17, 3.17, 4.88-90, 5.88-90). These anomalies create regular clusters and could indicate a settlement, that continues across Areas 129 and 128. A possible double-ditched trackway is visible, unfortunately cut by the service which limits the interpretation. It is probable that the settlement continues beyond the survey extent to the south and north. It is also possible that within this settlement traces of burning activity are present.	None	Few amorphous positive anomalies have been identified in the western part of Area 130 in the vicinity of the archaeological anomalies. Their origin is unclear, but an archaeological origin cannot be excluded given the wider context	Parallel anomalies running on two different alignments across the survey area are indicative of former ridge and furrow cultivation. This extensive agricultural activity has impacted archaeological interpretation.	Magnetic disturbance is visible at the edges of the survey area and around a service.
131	None	None	A single positively enhanced anomaly of curvilinear shape has been detected in the south of the survey area. This could relate to an agricultural activity; however, an archaeological origin cannot be completely ruled out.	Weak, parallel trends aligned NW-SE are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area and around a service which runs the length of the survey area.
132	None	None	A set of positively enhanced anomalies of annular form with a pit like response at its centre has been detected in the northern part of the survey area. These	Weak, parallel trends aligned NW-SE are indicators of ploughing activity. Magnetically strong, linear anomalies have been	Magnetic disturbance is visible at the edges of the survey area and around a service.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			anomalies are strongly affected by a halo caused by the service and therefore more confident interpretation is limited; however, an archaeological origin cannot be ruled out.	identified running across the survey area and indicate a drainage activity.	
133					
134					
135	In the northern part of the field a broad cluster or linear and rectilinear anomalies have been detected [135a]. The spatial organisation of these anomalies suggest a former enclosure system or unmapped, undated field regime.	In the southern part of the field, several positively enhanced anomalies of linear and curvilinear shape have been identified [135b]. These are far more ephemeral compared to anomalies [135a] and their spatial organisation is not defined distinctively, and therefore a Possible Archaeology category has been ascribed.	A singular positively enhanced anomaly of circular shape has been detected in the southern part of the survey area. This anomaly could relate to a geological, agricultural, or modern activity; however, an archaeological origin cannot be completely ruled out.	Parallel anomalies aligned SW-NE across the survey area are indicative of former ridge and furrow cultivation. Weak, linear anomalies aligned NNW-SSE reflect modern ploughing.	Magnetic disturbance is visible at the edges of the survey area
136	None	None	None	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
137	None	None	None	Weak, linear anomalies have been identified running across of the survey area in two alignments. These	Broad sinuous, positively enhanced anomalies have been identified across the

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				<p>anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>
138	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>

3.4 Table 4: Specific Anomalies Table – Section 4

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
139	None	None	None	<p>Weak, linear anomalies aligned NNW-SSE reflect modern ploughing.</p>	<p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area as well as around a mapped field boundary which could</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					<p>indicate that a service is running there as well.</p> <p>A spread of isolated ferrous responses is visible in the northern part of the survey area is caused by modern debris in the topsoil.</p>
140/141	None	In the central part of the survey area, two ephemeral positively enhanced rectilinear anomalies have been identified [140a]. The morphology of the responses could suggest that these are parts of former enclosures or field systems, however due to their fragmented appearance, only a Possible Archaeology category has been ascribed.	In the vicinity of anomaly [140a] two scattered, discontinuous anomalies of weak positive enhancement have been detected. These due to their weak morphology have been categorised as unclear in origin, nevertheless their archaeological background cannot be completely ruled out.	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	Magnetic disturbance is visible at the edges of the survey area.
141					
142(Surveyed as 141)	None	Across the entire survey area, a cluster of discrete positively enhanced linear, circular and rectilinear anomalies have been identified. Due to the strong impact of local geology as well as intensive ploughing, these anomalies have been categorised as Possible Archaeology, as further interpretation is limited.	Few weak, curvilinear and linear anomalies have been detected in the western and southern part of the survey area. These do not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
143	None	None	A weak, linear anomaly has been detected in the northwestern of the survey area. This anomaly does not	Weak, linear anomalies have been identified running across of the survey area in two alignments. These	

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	anomalies are indicators of ploughing activity. Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	
144	None	None	Few weak, linear anomalies have been detected in the western and southern part of the survey area. These do not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
145	None	None	None	Weak, linear trend aligned SW-NE reflect modern ploughing. Parallel anomalies aligned NNW-SSE are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
146					
147					
148					
149	None	None	A strong, curvilinear anomaly has been detected in the northeastern part of the survey area. This anomaly does not exhibit any characteristic shape, signal	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			or pattern and therefore have been categorised as 'Unclear'.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	
150	None	Several discrete linear and circular anomalies have been identified in the southeastern part of the survey area [150a]. Their ephemeral character does not allow for a more confident interpretation and therefore only a Possible Archaeology category has been ascribed. These could reflect former enclosures.	A weak, linear trend has been detected in the northeastern part of the survey area. This anomaly does not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation. Two dipolar linear anomalies have been detected in the northern part of the area and their signal suggest ceramic drains.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
151	None	Several linear and circular anomalies have been identified in the northeastern part of the survey area [151a]. Their ephemeral character as well as local geology, does not allow for a more confident interpretation and therefore only a Possible Archaeology category has been ascribed. These could reflect former enclosures.	None	Parallel anomalies aligned SW-NE reflect modern ploughing.	Discrete, linear and circular, positively enhanced anomalies have been identified in the southern part of the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
152	None	None	None	Parallel anomalies aligned SW-NE reflect modern ploughing.	Discrete, linear and circular, positively enhanced anomalies have been

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					<p>identified in the southern part of the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>
153/154	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	<p>Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>
154 (surveyed as 153)					
155	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
156				Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
157	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					Magnetic disturbance is visible at the edges of the survey area.
158	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
159					
160					
161	None	A linear set of ephemeral anomalies of both strong and weak positive signal has been identified across the survey area [161a]. These anomalies could reflect a former undated field division. The further interpretation is limited due to a strong influence of local geology, and therefore only Possible Archaeology category has been ascribed to it.	In the eastern part of the survey area, in the vicinity of the Possible Archaeology anomalies, a cluster of discrete linear and circular anomalies has been identified. These could be of geological origin, however some regularity of forms could suggest an anthropological cause.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
162 (Small part)	None	None	None	None	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
163					
164					
165	None	None	None	Parallel anomalies running across the survey area are	Broad sinuous, positively enhanced anomalies have

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				indicative of former ridge and furrow cultivation.	been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
166	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.
167					
168					
169					
170					
171	None	A series of scattered and discrete linear anomalies has been recorded in the western half of the survey area [171a]. These could be parts of former enclosures, nevertheless due to extensive agricultural activity and lack of any coherent morphology these anomalies have been categorised as Possible Archaeology only.	In the central part of the survey area a spread of positively enhanced scattered and discrete anomalies have been identified. It is difficult to differentiate those from geology, nevertheless an anthropological origin is not excluded.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation. The clear change in direction suggest the location of a former field division.	Magnetic disturbance is visible at the edges of the survey area.
172	None	None	None	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	None

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
173				Parallel anomalies running across the survey area in three different alignments are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
174	None	None	A weak, linear anomaly has been detected in the eastern part of the survey area. This anomaly does not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.
175			Two circular anomalies have been detected in the central part of the survey area. These anomalies do not exhibit any characteristic, signal or pattern and therefore have been categorised as 'Unclear'.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.
176	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area. A spread of isolated ferrous responses is visible in the northern part of the survey area is caused by modern debris in the topsoil.
177	None	None	Several linear and circular anomalies have been detected in the central part of the survey area. These anomalies do not exhibit any characteristic, signal or pattern and therefore have	Several linear anomalies of positive enhancement have been identified in the centre of the survey area. These anomalies partially overlap with known historical mapped field boundaries.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			been categorised as 'Unclear'.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.
178	None	None	None	None	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.
179	None	In the eastern part of the survey area, a series of discrete linear curvilinear and circular anomalies has been identified [179a]. These could reflect a possible enclosure system, however due to characteristic local geology a more confident classification is impossible.	A series of positive, linear, discrete and circular anomalies have been identified in the centre of Area 185. These do not have any distinctive shape or signal nevertheless due to their regular layout an archaeological origin cannot be ruled out completely.	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation and modern ploughing.	Magnetic disturbance is visible at the edges of the survey area.
180	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits. Magnetic disturbance is visible at the edges of the survey area and around a service.
181	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					Magnetic disturbance is visible at the edges of the survey area.
182	None	None	None	None	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits. Magnetic disturbance is visible at the edges of the survey area and around a service.
183					
184	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity	The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible at the edges of the survey area. Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.
185	None	None	A series of positive, linear, discrete and circular anomalies have been identified in the centre of Area 185. These do not have any distinctive shape or signal nevertheless due to their regular layout an archaeological origin cannot be ruled out completely.	Parallel anomalies running west to east in the southern part the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.
186					
187(partially done)	None	None	None	Parallel anomalies running across the survey area are	The moderate levels of isolated ferrous responses

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				indicative of former ridge and furrow cultivation.	are due to modern debris in the topsoil, visible at the edges of the survey area. Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.
188	None	In the northern and southern part of the survey area, a few ephemeral, positively enhanced anomalies have been identified [188a ; 188b]. These anomalies exhibit a morphology coherent with ditch-like features, and due to their regular layout has been categorised as Possible Archaeology.	One circular anomaly has been detected in the south of the survey area. This anomaly does not exhibit any characteristic, signal or pattern and therefore have been categorised as 'Unclear'.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity	Magnetic disturbance is visible at the edges of the survey area.
189	None	None	A curvilinear and a circular, positively enhanced anomalies have been detected in the central part of the survey area. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.
190	None	None	Two linear anomalies crossing the survey area on north-west to south-east alignment have been identified in the western part of the survey area. These anomalies likely relate to	Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area.
191	None	None	None	Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation.	Broad sinuous, positively enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits.
192	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Linear, dipolar anomalies have been identified running across the southern part of the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area.

3.5 Table 5: Specific Anomalies Table – Section 5

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
193	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					Magnetic disturbance is visible at the edges of the survey area.
194					
195	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits.
196					
197	None	None	None	Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation.	None
198	In the western part of the survey area a very regular arrangement of strong and weak positive, rectilinear, linear and circular anomalies has been identified [198a]. These anomalies could suggest part of a potential settlement. Unfortunately, any further interpretation is limited due to the survey limits. The cluster most likely continues beyond the survey limits.	None	Two amorphous positive anomalies have been detected in the centre of the survey area. The origin of these is unclear. These could be of geological or agricultural origin, nevertheless archaeological background cannot be excluded given archaeological activity in the closest vicinity.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. A dipolar linear anomaly has been detected in the eastern part of the survey area. It correlates with former mapped field boundary visible on historic mapping. Its magnetic signal suggests that it is possible that this field boundary was reused as a drain.	None
199	None	None	A few linear trends of unknown origin have been identified in the eastern part	Parallel anomalies running southwest to northeast and across the area are	None

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
			of the survey area. These could be of agricultural origin; nevertheless archaeological background cannot be fully excluded.	indicative of former ridge and furrow cultivation. A dipolar linear anomaly has been identified in the centre of the survey area. Its signal suggests a ceramic drain. In the centre of the survey area, a linear positive trend has been detected. It corresponds with a field boundary visible on historic mapping.	
200	None	None	A few linear and amorphous anomalies of unknown origin have been identified in the western part of the survey area. These could be of agricultural origin; nevertheless, archaeological background cannot be fully excluded.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. A dipolar linear anomaly has been detected in the eastern part of the survey area. It correlates with former mapped field boundary visible on historic mapping. Its magnetic signal suggests that it is possible that this field boundary was reused as a drain.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
201	None	None	None	Linear, dipolar anomalies have been identified running across the survey area and indicate a drainage activity.	Broad sinuous, positively enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits. Magnetic disturbance is

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					visible at the edges of the survey area.
202	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.
203					
204					
205	None	None	None	Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation. The linear trend aligned NW-SE corresponds with a former field boundary.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.
206	None	None	None	None	A band of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.
207	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				indicators of ploughing activity.	identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.
208	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area. Magnetic disturbance is visible at the edges of the survey area.
209	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area.
210	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the southern part of the survey area. Magnetic disturbance is visible at the edges of the survey area.
211	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					Magnetic disturbance is visible at the edges of the survey area.
212/ 213	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
213 (Surveyed as 212)					
214					<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>
215	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>
216	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					<p>identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>
217	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>
218	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>
219	None	In the central part of the survey area, a rectilinear cluster of numerous anomalies has been detected [219a]. Its regularity suggests an anthropological origin, nevertheless due to a strong geological background, as well as the	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		presence of magnetic noise in the topsoil caused by green waste any further interpretation is limited.			area and indicates the presence of green waste.
220					
221					
222	None	None	Few discrete, curvilinear and linear anomalies have been detected in the northern part of the survey area. These anomalies are most likely being of natural origin; nevertheless, their morphology could suggest anthropological connotations. The strong geological background limits possibilities of this interpretation and therefore an 'Unclear' category has been ascribed.	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.
223	None	A series of linear and curvilinear, positive anomalies have been identified in the south-western corner of the survey area [223a]. Due to extensive geology it is uncertain if these anomalies could be of anthropological origin, nevertheless given their morphology it is the 'Possible Archaeology' category has been ascribed. The presence of toft earthworks and cropmarks of probable Medieval chronology have been		None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
		recognized within the survey area, which also advocates for possible archaeological connotations (MLI88214) (See Section 1).			
224					
225					
226					
227/227a	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
228/228a	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
229/229a	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. A potential service is running across the survey area in the N-S alignment.
230	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
231	None	None	Two parallel, strong, positive, linear anomalies have been identified in the central part of the survey area. These could be of agricultural origin; nevertheless, the archaeological background could not be fully excluded as their context is limited and therefore these have been categorised as 'Unclear'.	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
232	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.
233	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.
234	None	None	A singular circular dipolar anomaly has been detected in the eastern part of the survey area. This anomaly could indicate a burning activity, but its origin is unclear.	None	In the central part of the survey area, a linear strong magnetic anomaly has been recorded. This anomaly correlates with a former railway track visible on historic mapping. Bands of strong dipolar and positive anomalies indicative of natural intertidal and

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
					alluvial deposits have been identified across the survey area.
235	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>In the central part of the survey area, a linear strong magnetic anomaly has been recorded. This anomaly correlates with a foot path track visible on historic mapping. The magnetic signal suggest that a service is running beneath the ground.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>
236					
237	None	None	Three linear positively enhanced anomalies have been recorded in the western corner of the survey area. These could be of agricultural or geological origin, nevertheless their archaeological background cannot be fully excluded.	<p>Few parallel anomalies running southwest to northeast are indicative of former ridge and furrow cultivation.</p> <p>Two linear trends aligned NE-SW and one NW-SE correspond with former mapped field boundaries.</p> <p>Linear, strong positive anomalies have been identified running across the</p>	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.

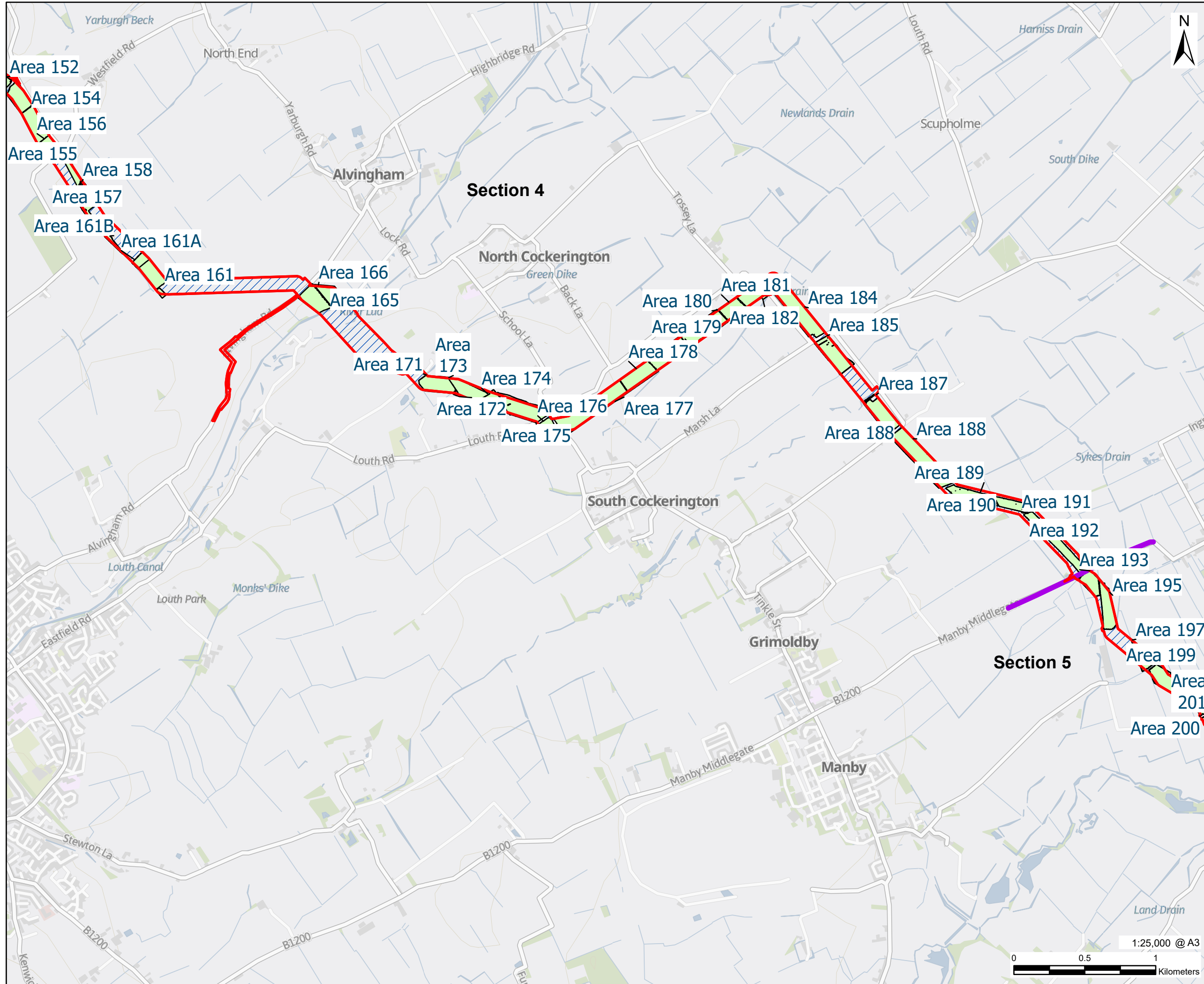
Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological
				southern part of the survey area and indicate a drainage activity.	
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4 Conclusion

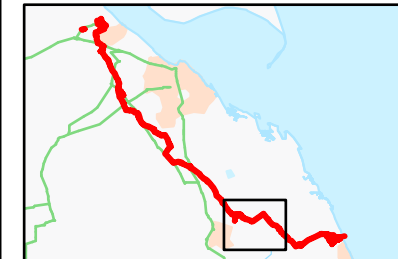
- 3.1. A gradiometer survey was successfully completed across approximately c. 612.25ha of the survey area.
- 3.2. Anomalies of both probable and possible archaeological origins have been detected across all sections. The most extensive focus consists of a settlement system with a double-ditched trackway of probable Roman chronology, and it is situated within Section 2. Other anomalies of probable and possible archaeological origins consist of possible settlements or enclosure systems, double-ditched trackways, or other former land divisions.
- 3.3. Multiple anomalies throughout the survey area have been classified as having an unclear origin as it has not been possible to definitively determine whether these anomalies are the result of archaeological, agricultural, or natural processes.
- 3.4. The geophysical results primarily reflect the long-term agricultural use of the survey area in the form of former mapped and unmapped field boundaries and extensive ridge and furrow regimes. Recent ploughing was also identified across parts the survey area, as well as drainage systems.
- 3.5. Anomalies resulting from natural processes have been identified across the survey area and has been interpreted as indicative of natural intertidal and alluvial deposits and other variations in the composition of the superficial deposits.
- 3.6. Magnetic disturbance was present across many of the survey areas due to underground services, green waste, and fencing. Modern interference affects the interpretation, as some weaker anomalies could be obscured. The narrow scope of the survey area is also a limiting factor, as many anomalies continue beyond the project boundaries.
- 3.7. In assessing the results of the geophysical survey against the specific aims set out in Section 1.1;
 - The survey has succeeded in locating, recording, and characterising surviving sub-surface remains within the corridor;
 - The survey will help in determining the next stage of works as it has provided evidence that remains of an uncertain origin are most likely present on site and has provided a number of targets for further investigation.

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- LEGEND
- Corridor Sections
 - Draft Order Limits
 - Survey Outstanding
 - Survey Outline



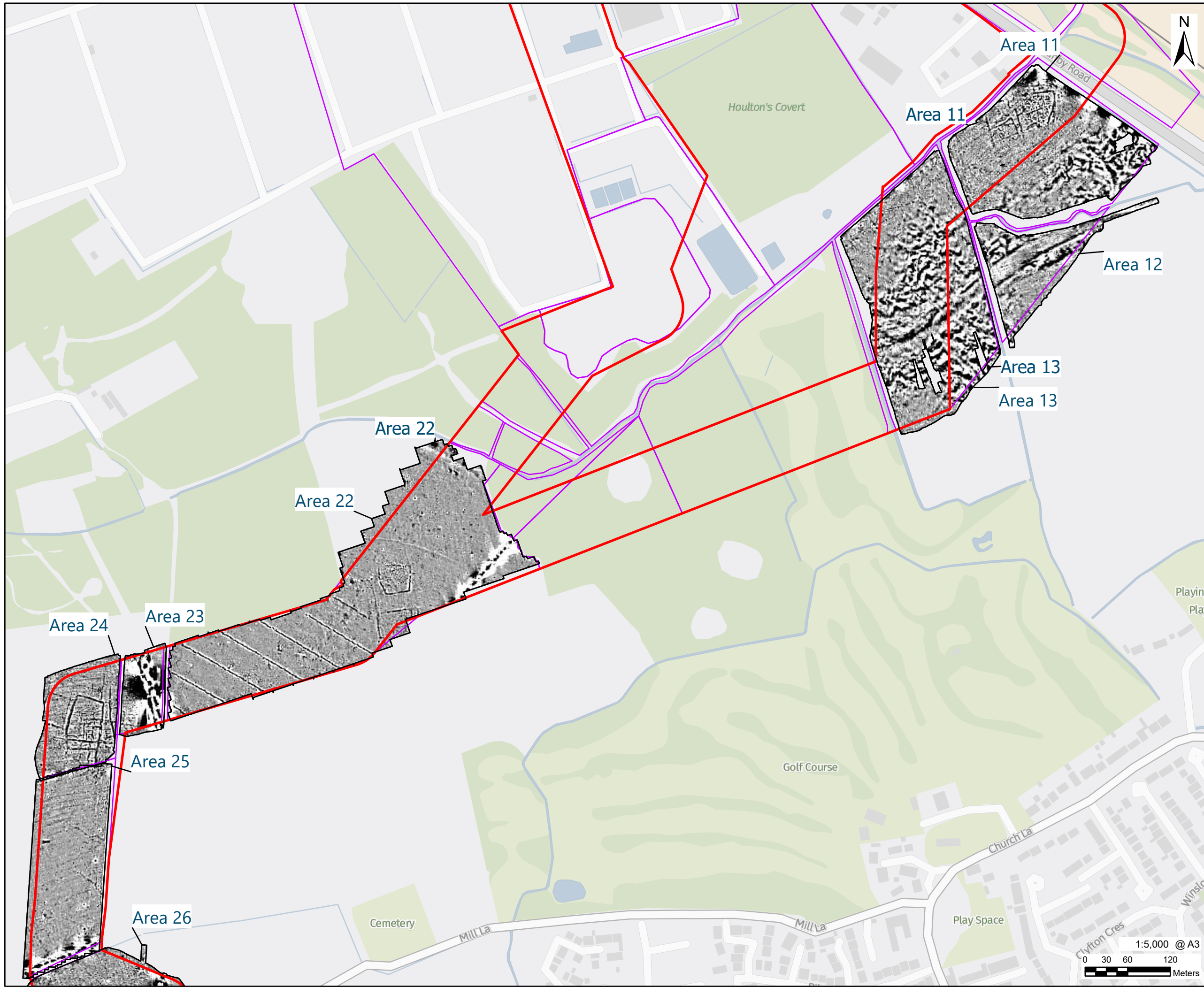
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FIGURE TITLE
**Figure 1-5
Location of Gradiometer Survey
Areas**

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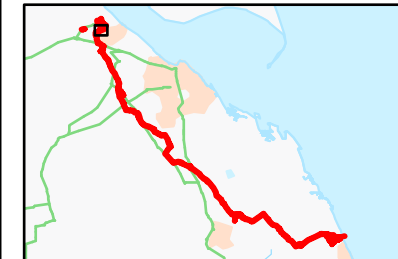


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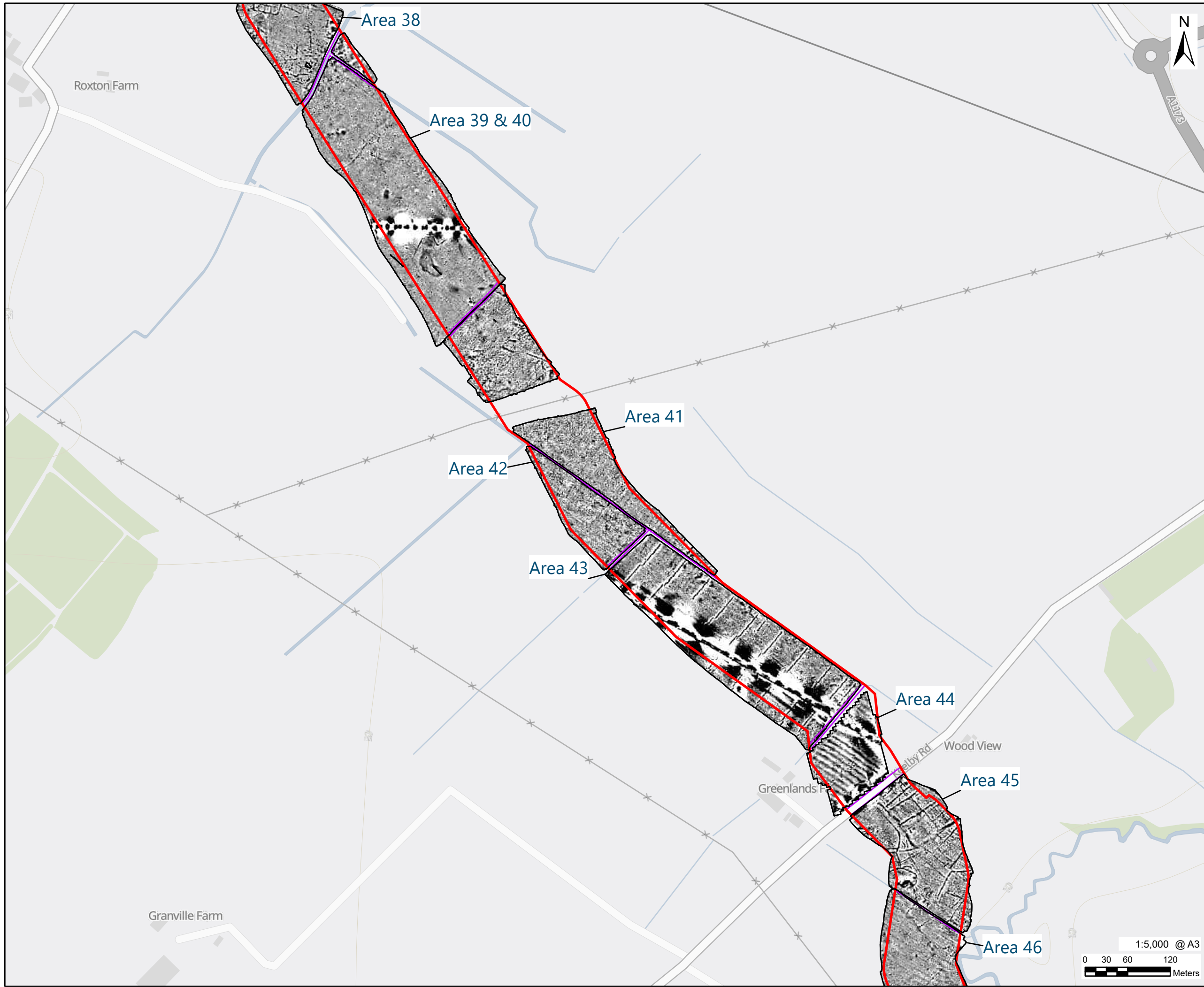
FIGURE TITLE
**Figure 2-1
Processed Gradiometer Data
Overview**

ISSUE PURPOSE
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PROJECT NUMBER / REFERENCE
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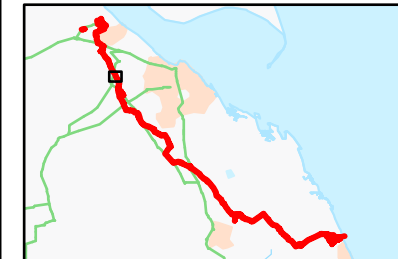
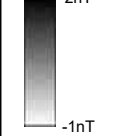
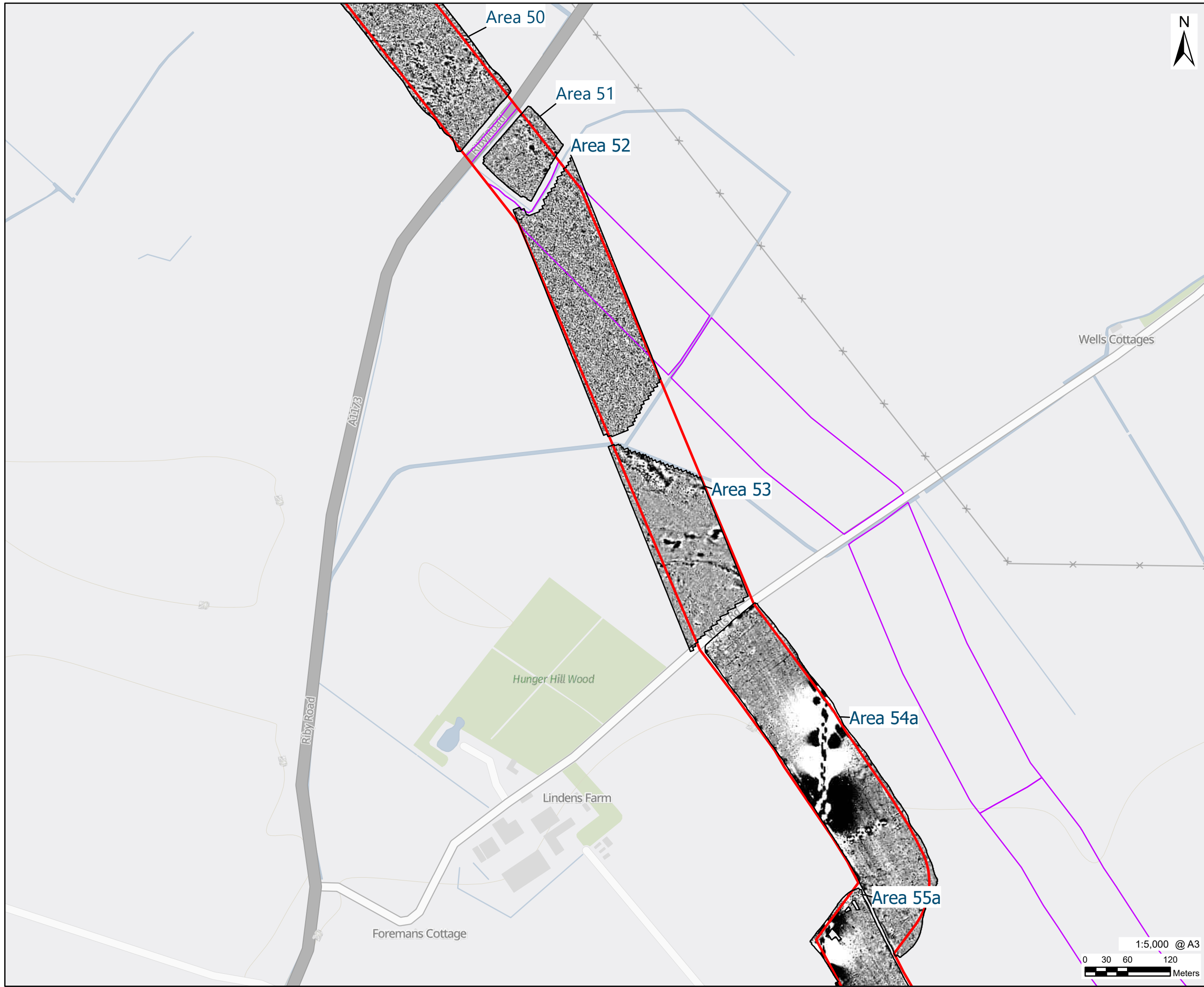
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FIGURE TITLE
**Figure 2-4
Processed Gradiometer Data
Overview**

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ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_24

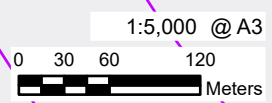
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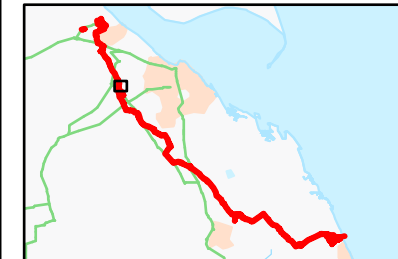
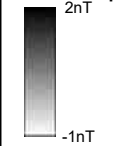
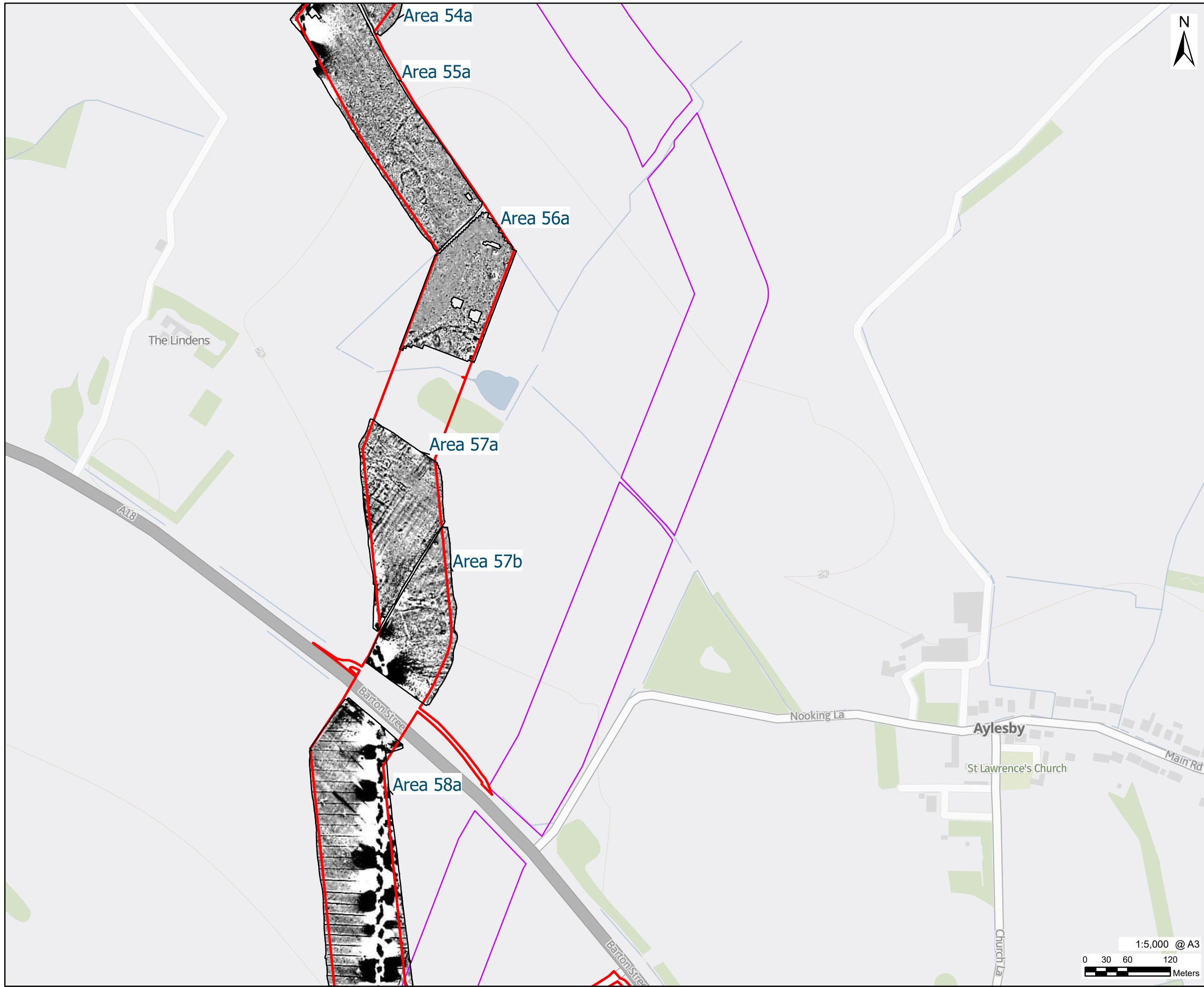
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FIGURE TITLE
**Figure 2-6
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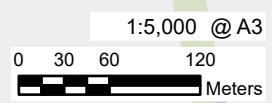
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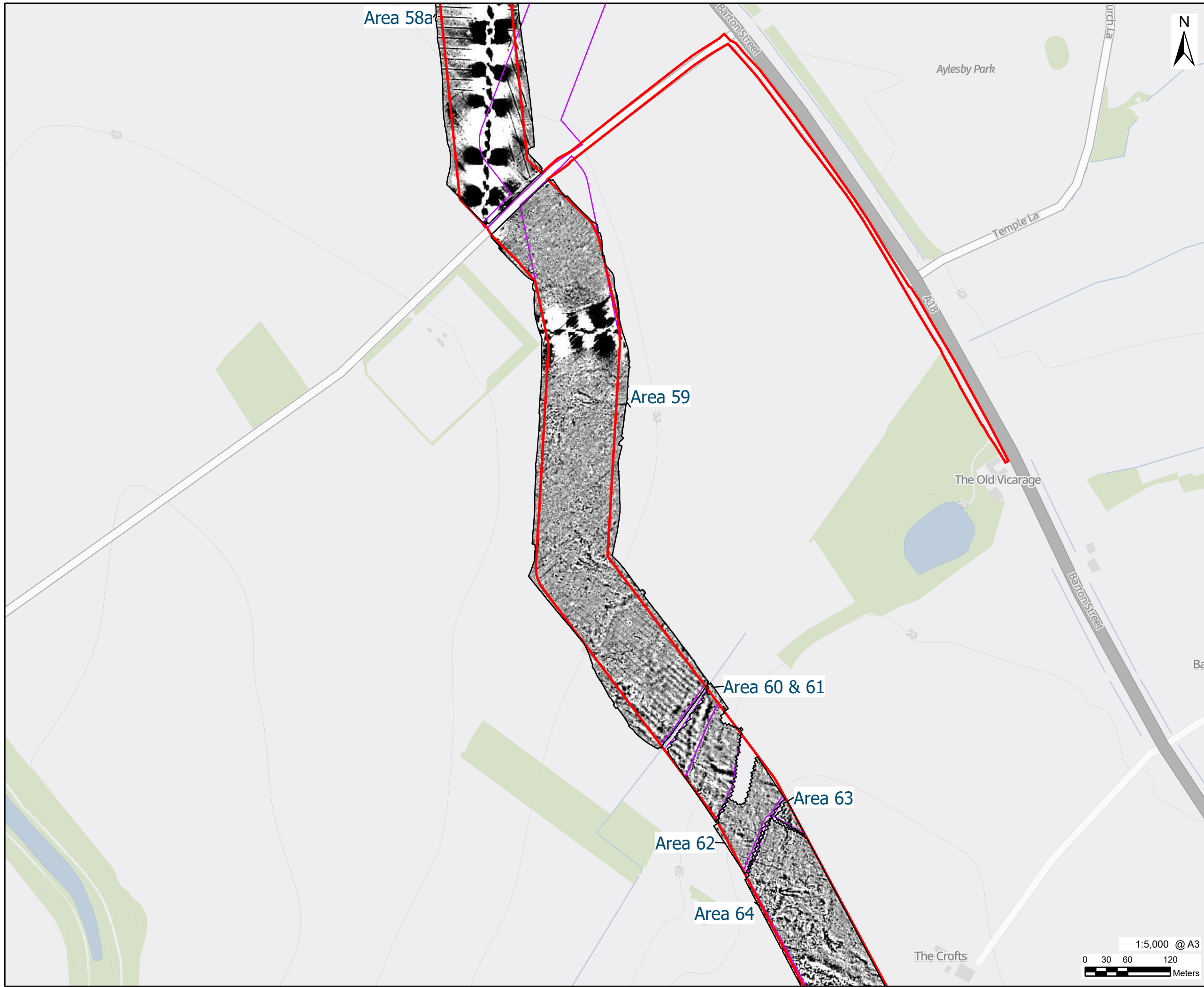
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FIGURE TITLE
Figure 2-7
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 PROJECT NUMBER / REFERENCE
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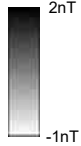


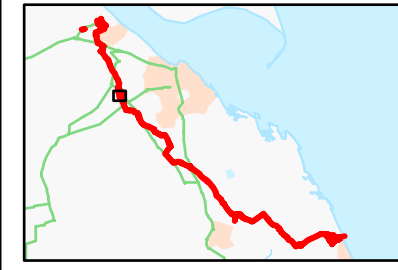
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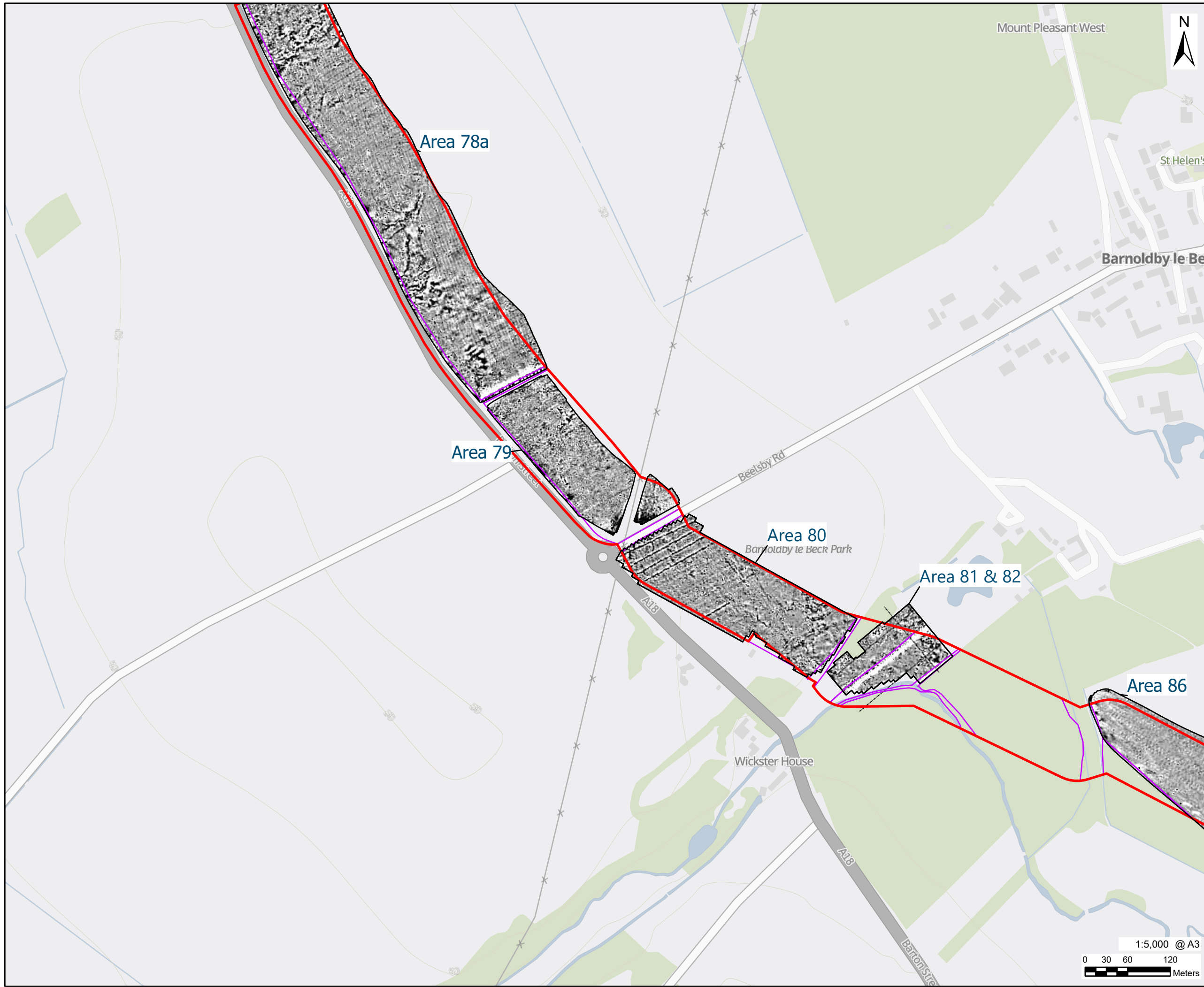
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FIGURE TITLE
**Figure 2-8
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 Overview**

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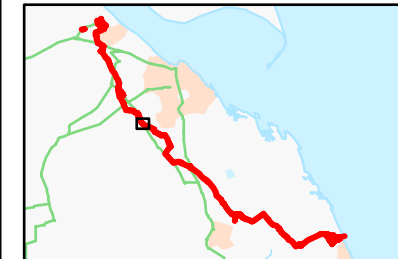
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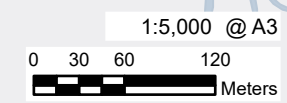


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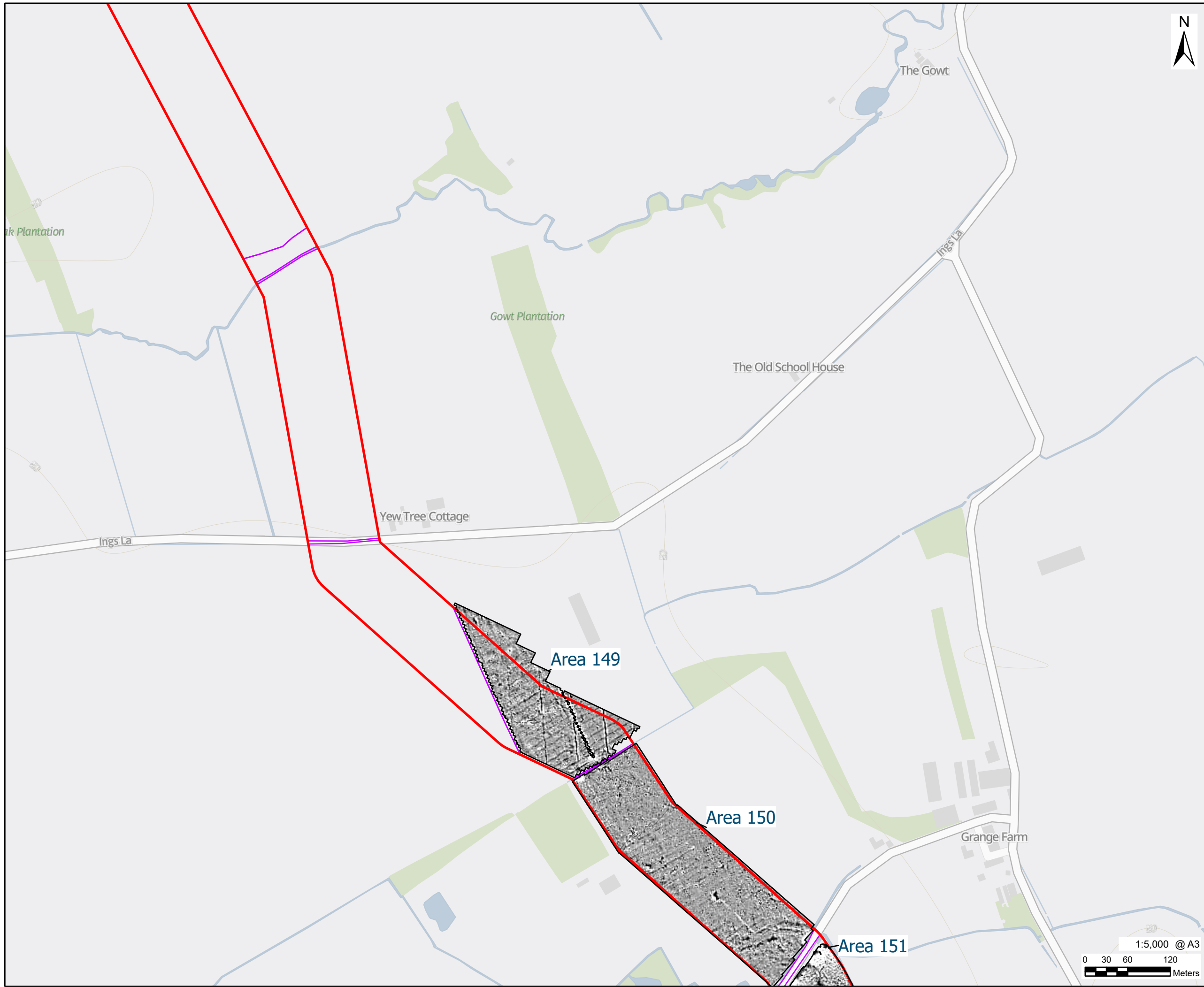
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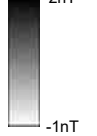
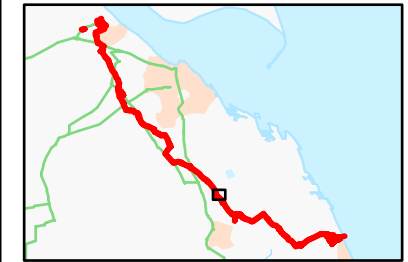


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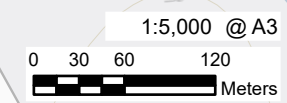
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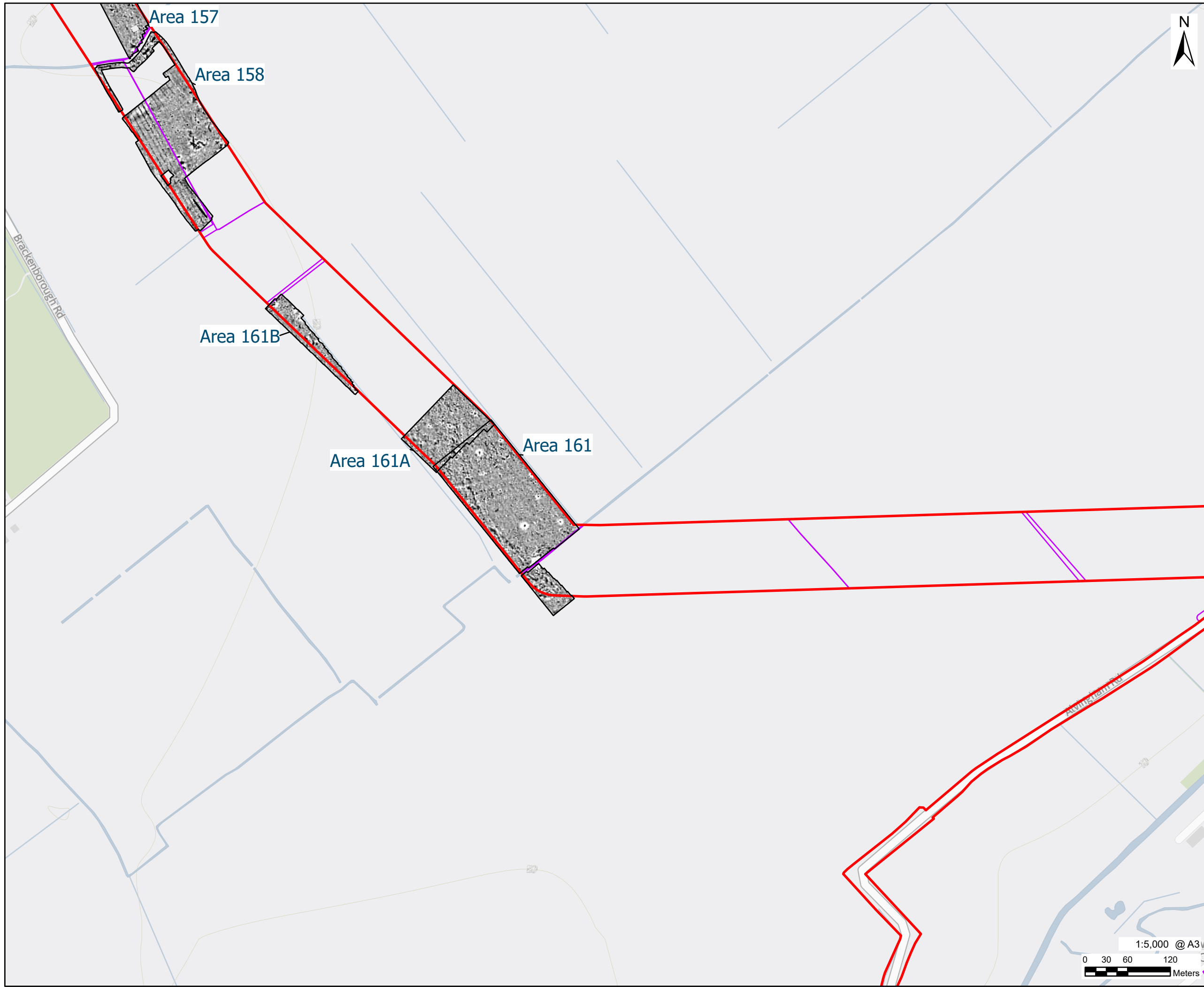
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FIGURE TITLE
**Figure 2-20
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- Initial Redline
- Updated Redline

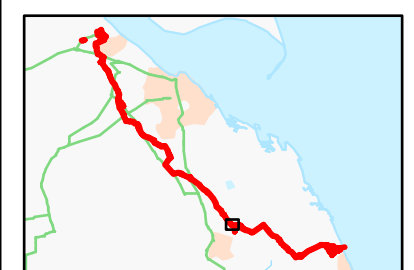
2nT
-1nT

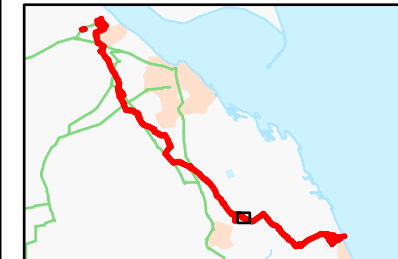
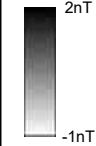
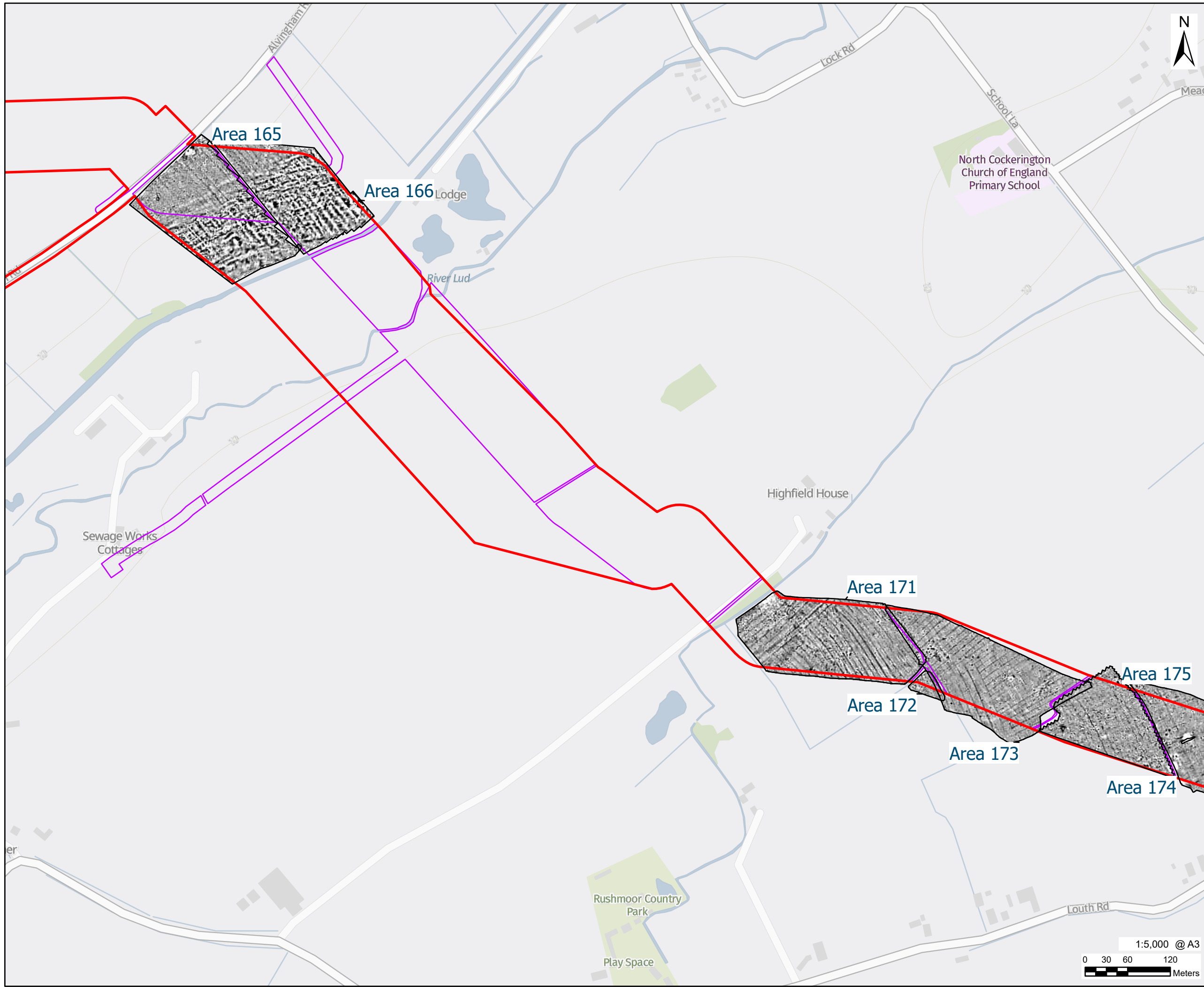
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FIGURE TITLE
**Figure 2-22
Processed Gradiometer Data
Overview**

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_2-22

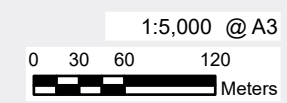




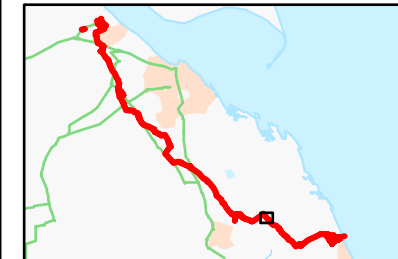
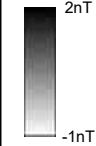
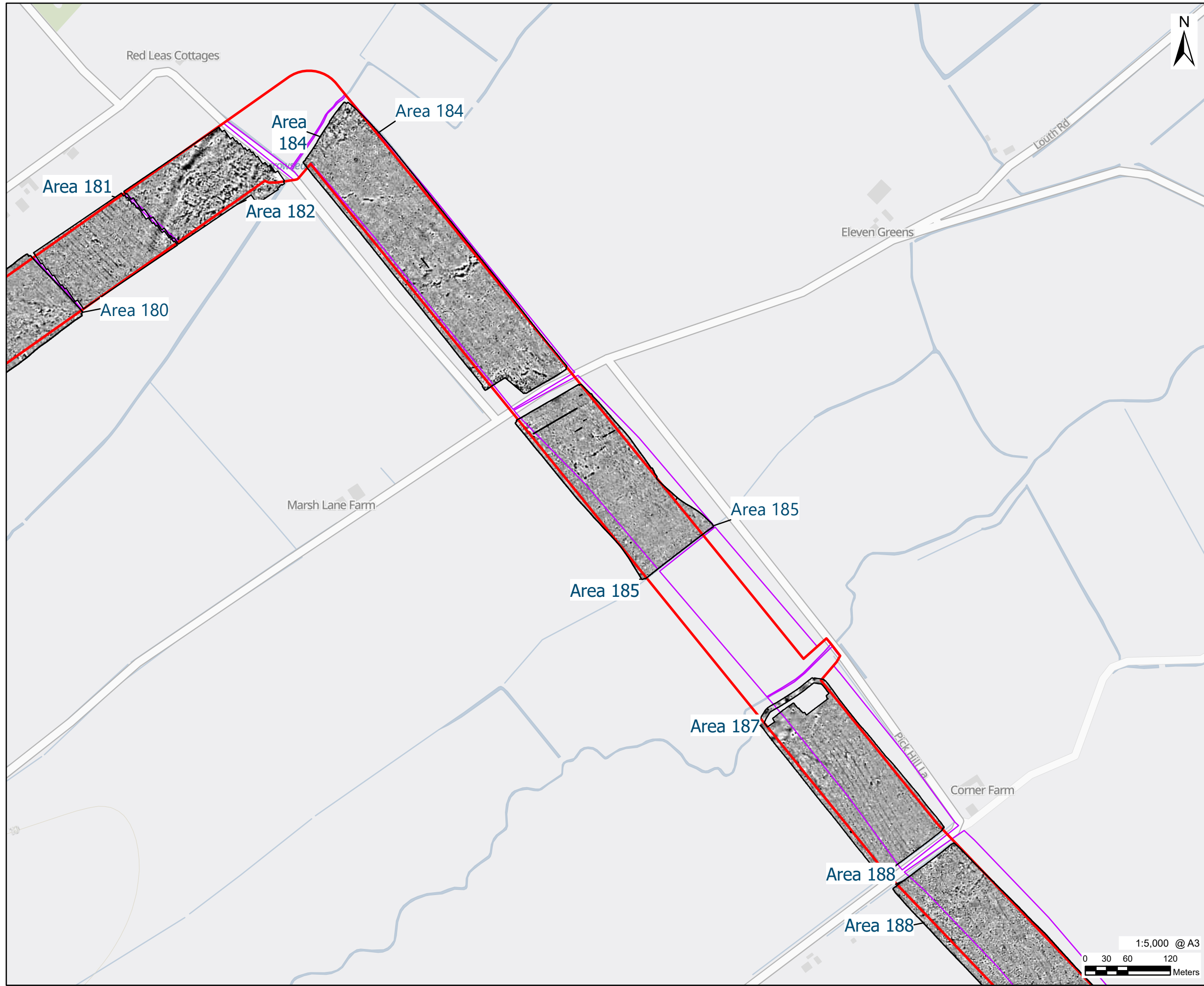
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FIGURE TITLE
Figure 2-23
Processed Gradiometer Data
Overview

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_2-23



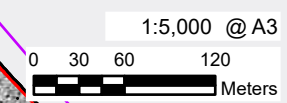
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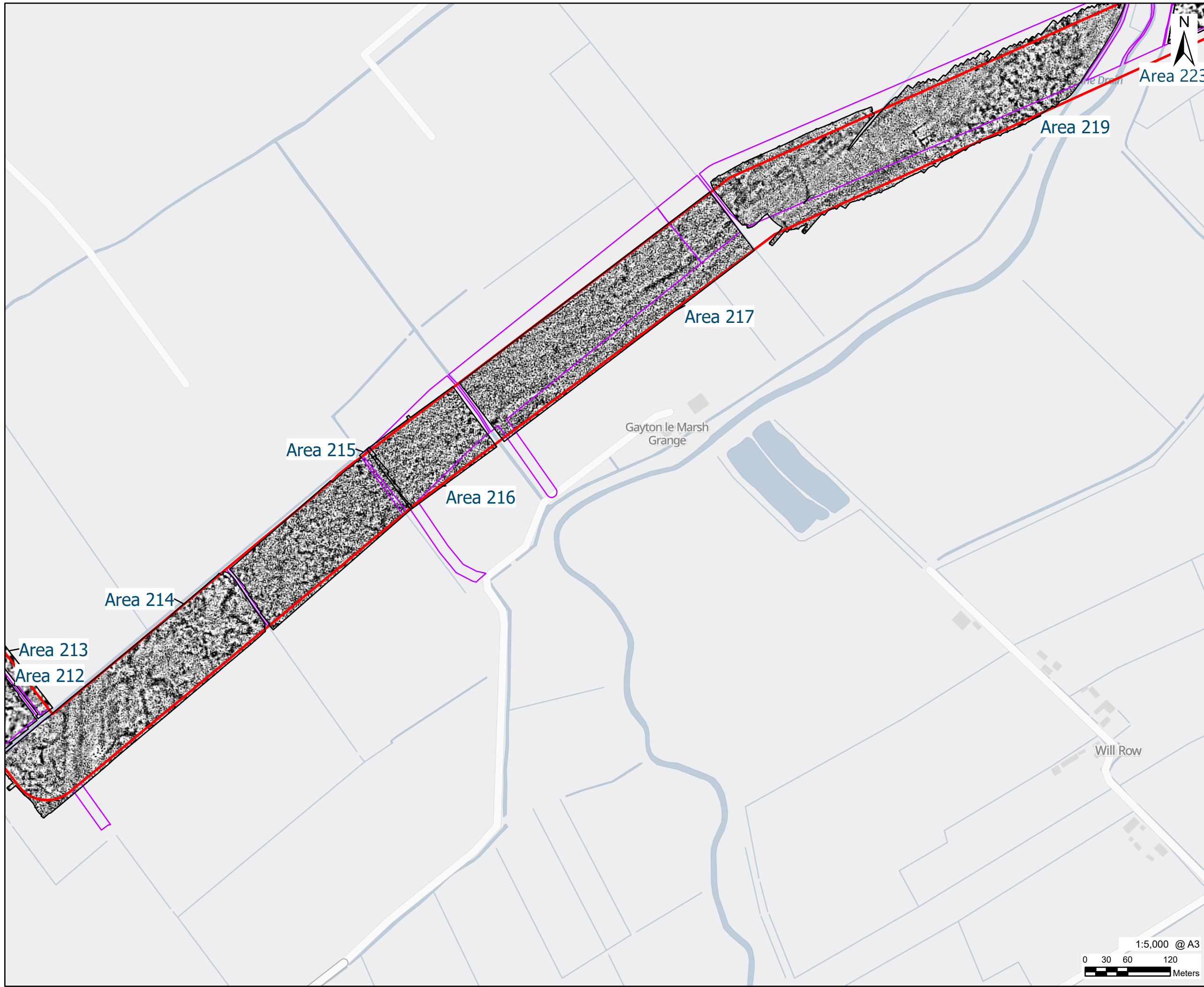
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FIGURE TITLE
Figure 2-25
 Processed Gradiometer Data
 Overview

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_2-25



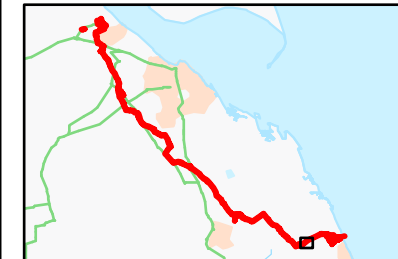
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LEGEND

- Initial Redline
- Updated Redline

2nT
-1nT

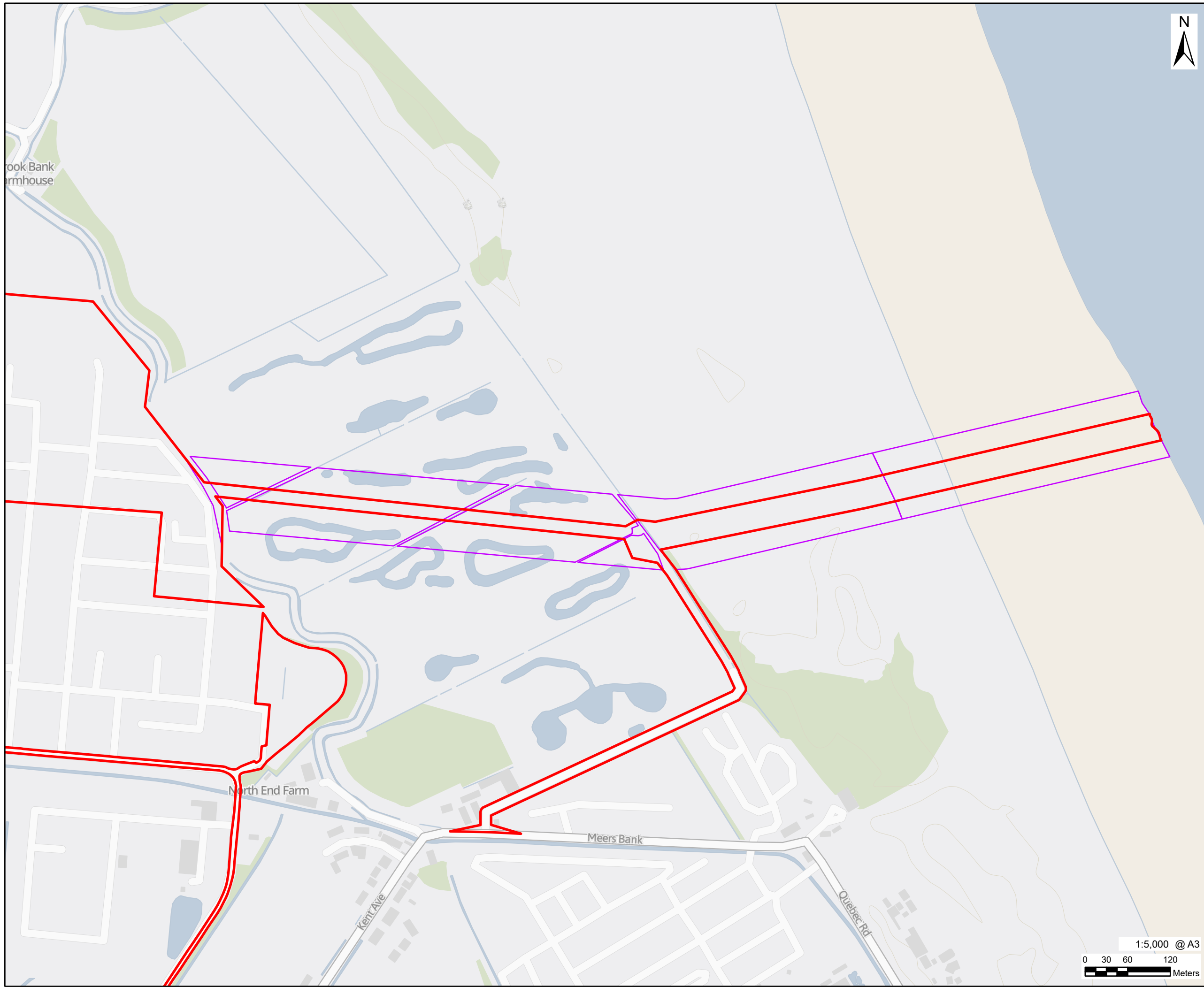


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FIGURE TITLE
Figure 2-29
Processed Gradiometer Data Overview

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_2-29

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PROJECT

Viking CCS Pipeline

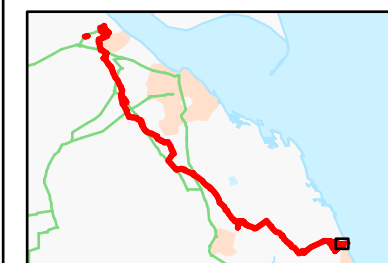
LEGEND

Initial Redline

Updated Redline



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FIGURE TITLE

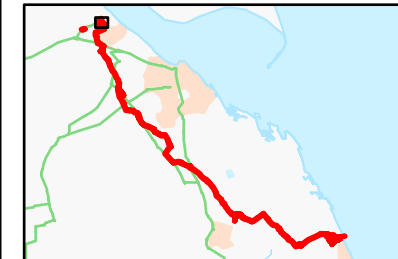
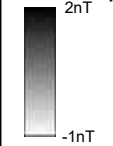
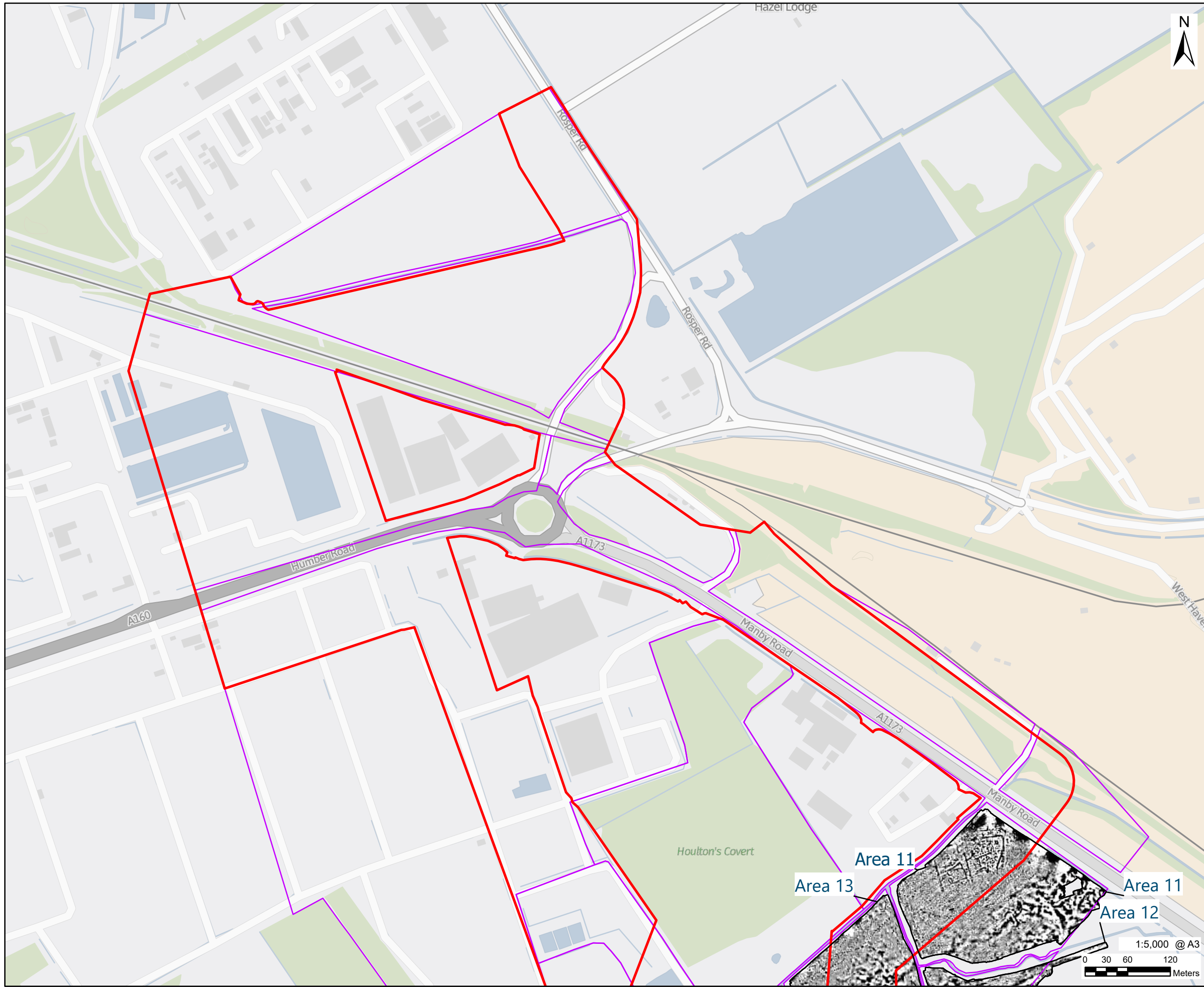
Figure 2-32
Processed Gradiometer Data
Overview

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

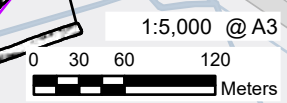
60668955 / VCCS_231212_ES_2-32



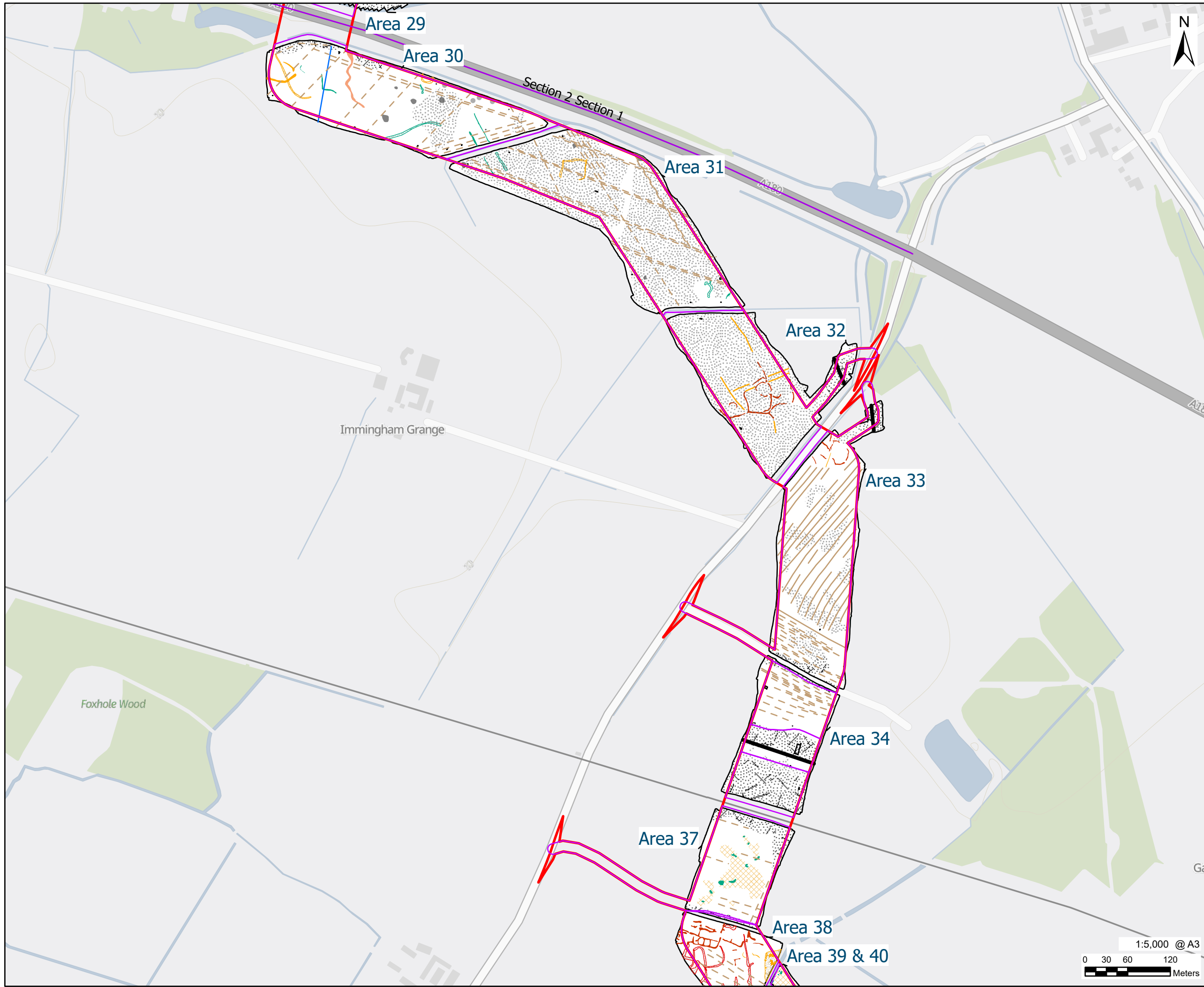
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FIGURE TITLE
Figure 2-33
 Processed Gradiometer Data
 Overview

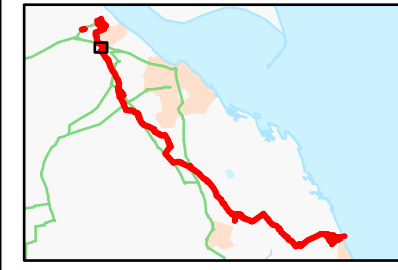
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_2-33



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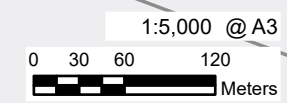


- LEGEND
- Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)
 - Ferrous Anomalies/Iron Spike

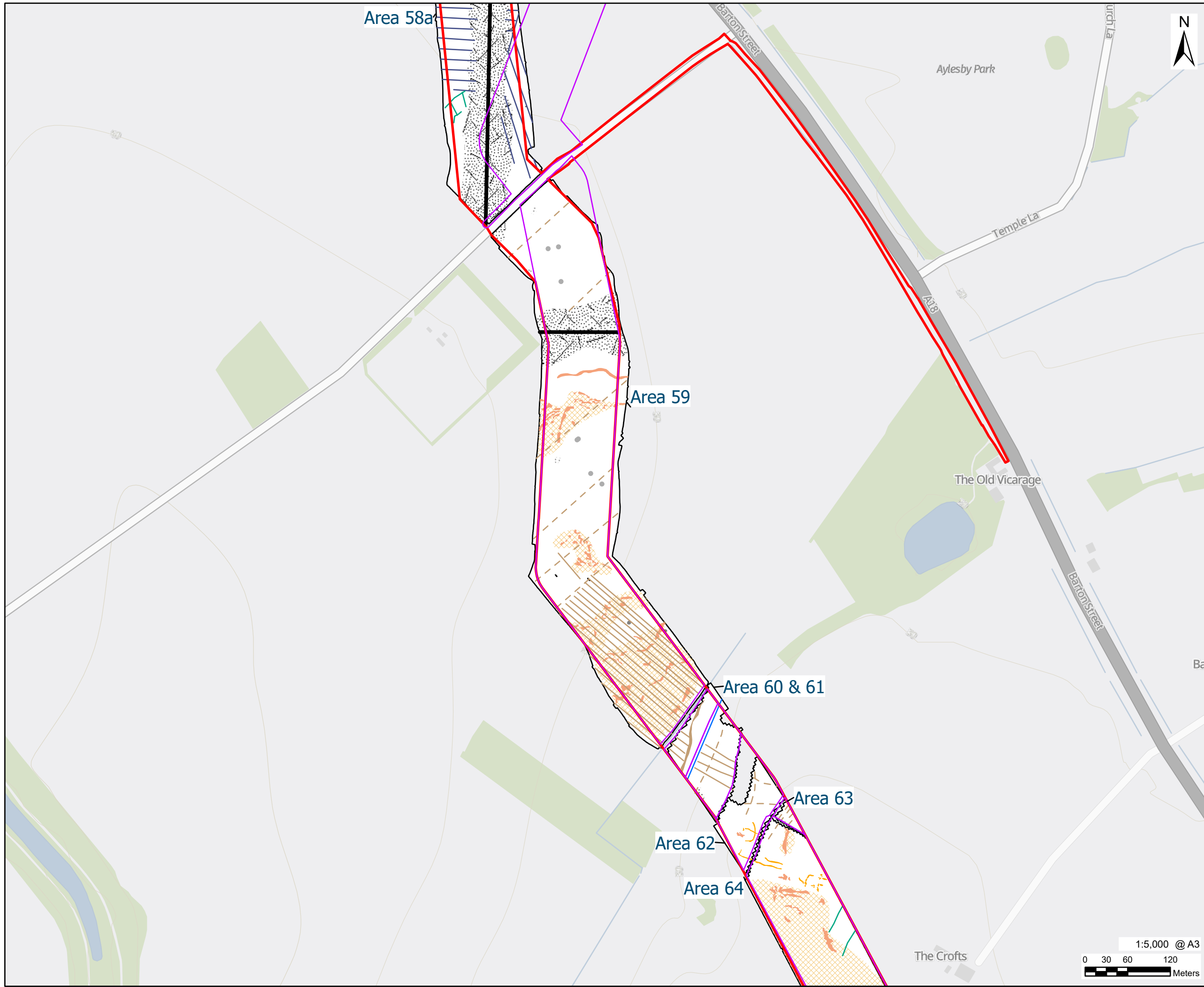


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FIGURE TITLE
**Figure 3-3
 Interpretation Of Gradiometer Data
 Overview**

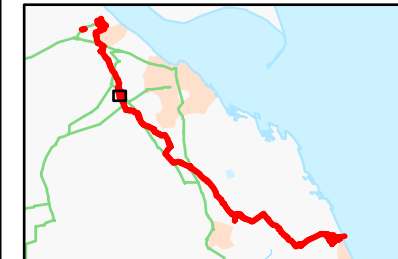


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- LEGEND
- Updated Redline
 - Anomaly (Possible Archaeology)
 - Anomaly (Agricultural)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Linear Trend (Service)
 - Ferrous Anomalies/Iron Spike

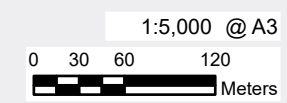
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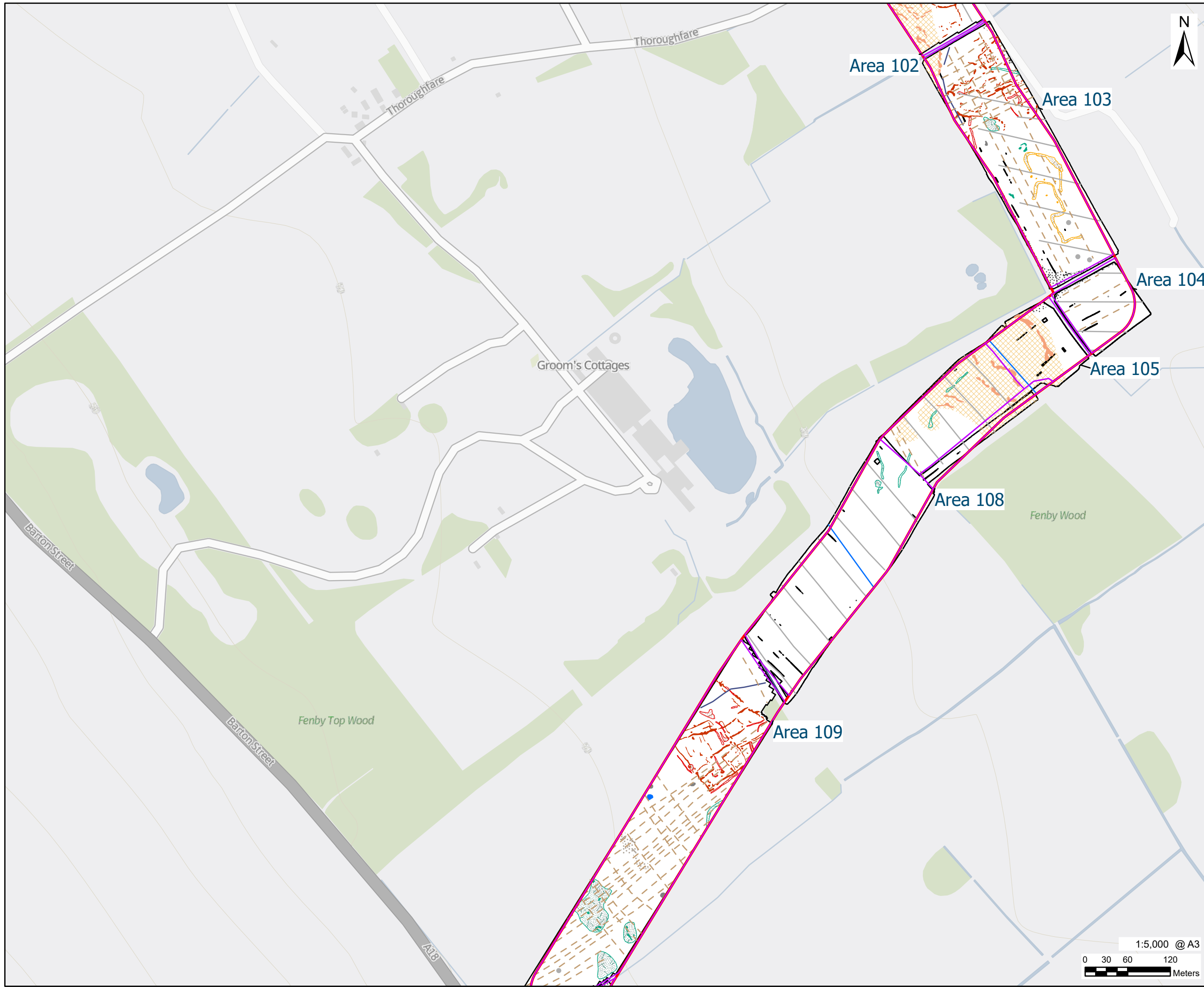


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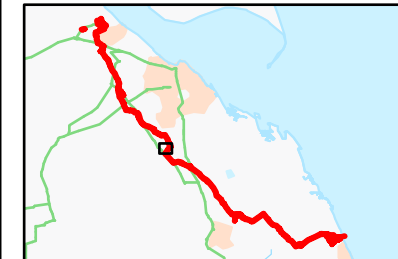
FIGURE TITLE
Figure 3-8
Interpretation Of Gradiometer Data Overview

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_3-8





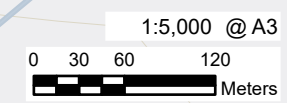
- LEGEND
- Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Historic Feature)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Agricultural)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)
 - Linear Trend (Ferrous/Iron Spike)
 - Ferrous Anomalies/Iron Spike



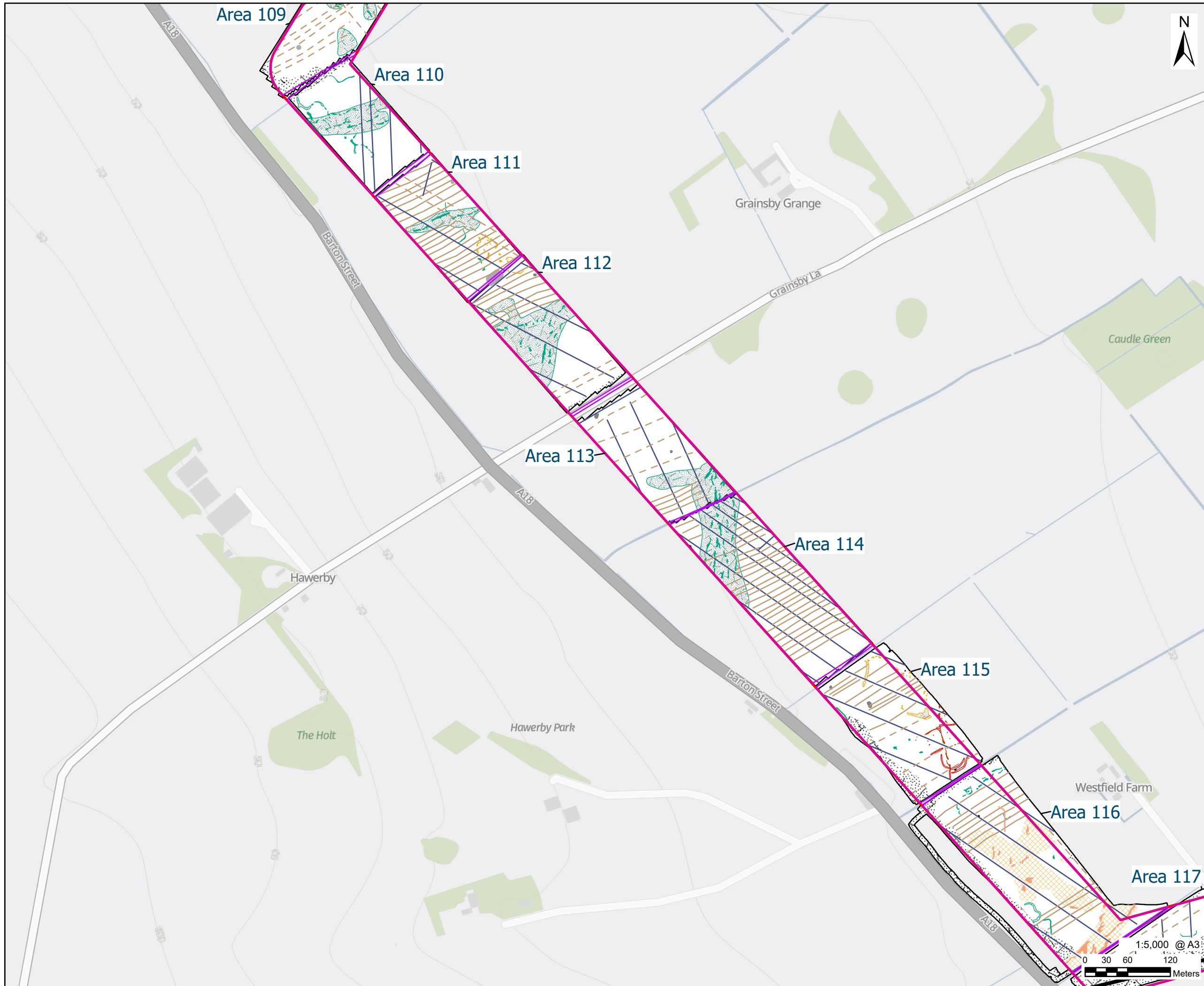
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FIGURE TITLE
Figure 3-14
Interpretation Of Gradiometer Data Overview

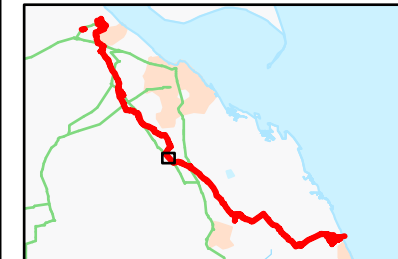
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_3-14



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- LEGEND**
- Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Linear Trend (Geology/Natural)
 - Linear Trend (Service)
 - Ferrous Anomalies/Iron Spike

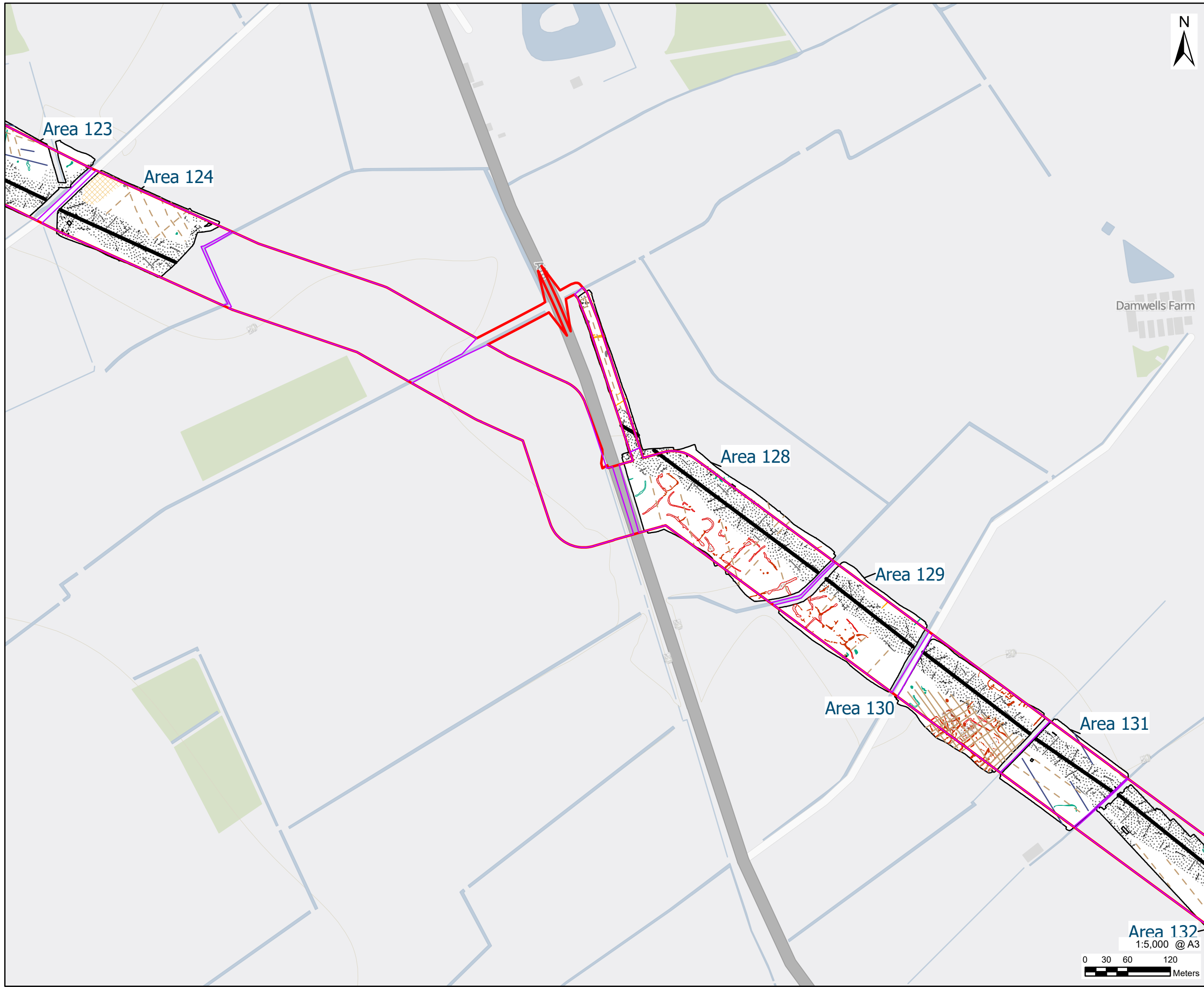


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FIGURE TITLE
Figure 3-15
Interpretation Of Gradiometer Data Overview

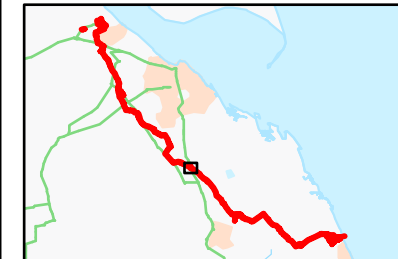
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_3-15

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- LEGEND**
- Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Burned Area)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Linear Trend (Service)

Damwells Farm



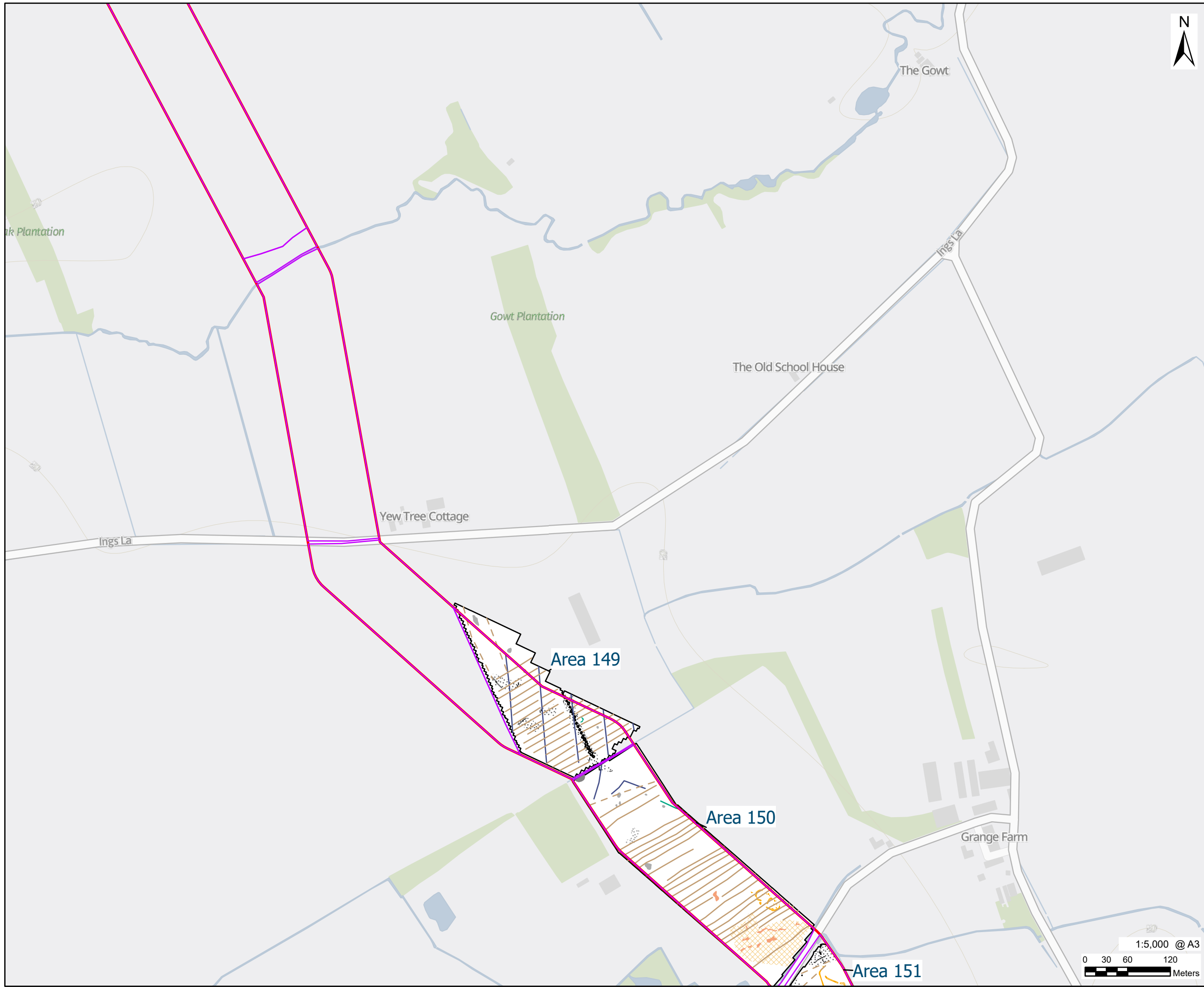
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FIGURE TITLE
Figure 3-17
Interpretation Of Gradiometer Data Overview

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_3-17

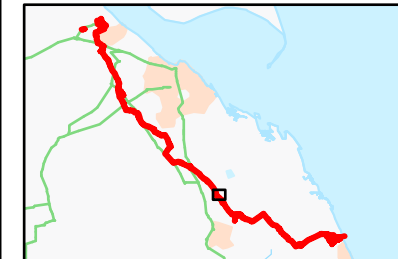
Area 132
1:5,000 @ A3
0 30 60 120
Meters

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- LEGEND**
- Updated Redline
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)

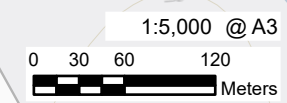
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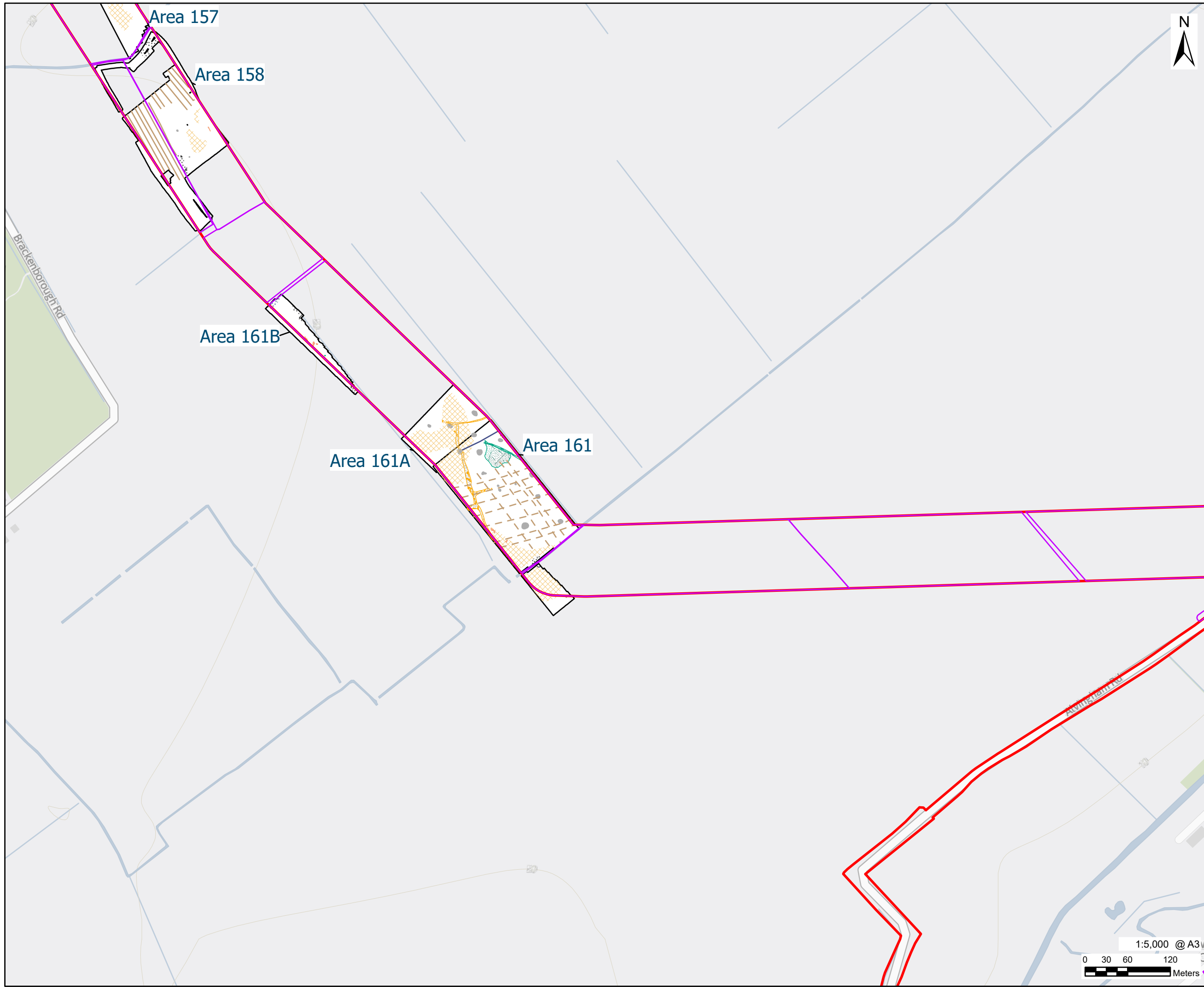


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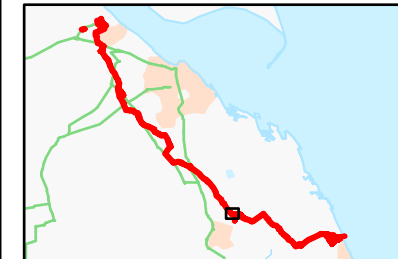
FIGURE TITLE
Figure 3-20 Interpretation Of Gradiometer Data Overview

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_3-20





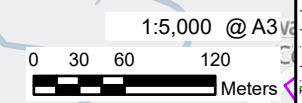
- LEGEND**
- Updated Redline
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Spread (Historic Feature)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)



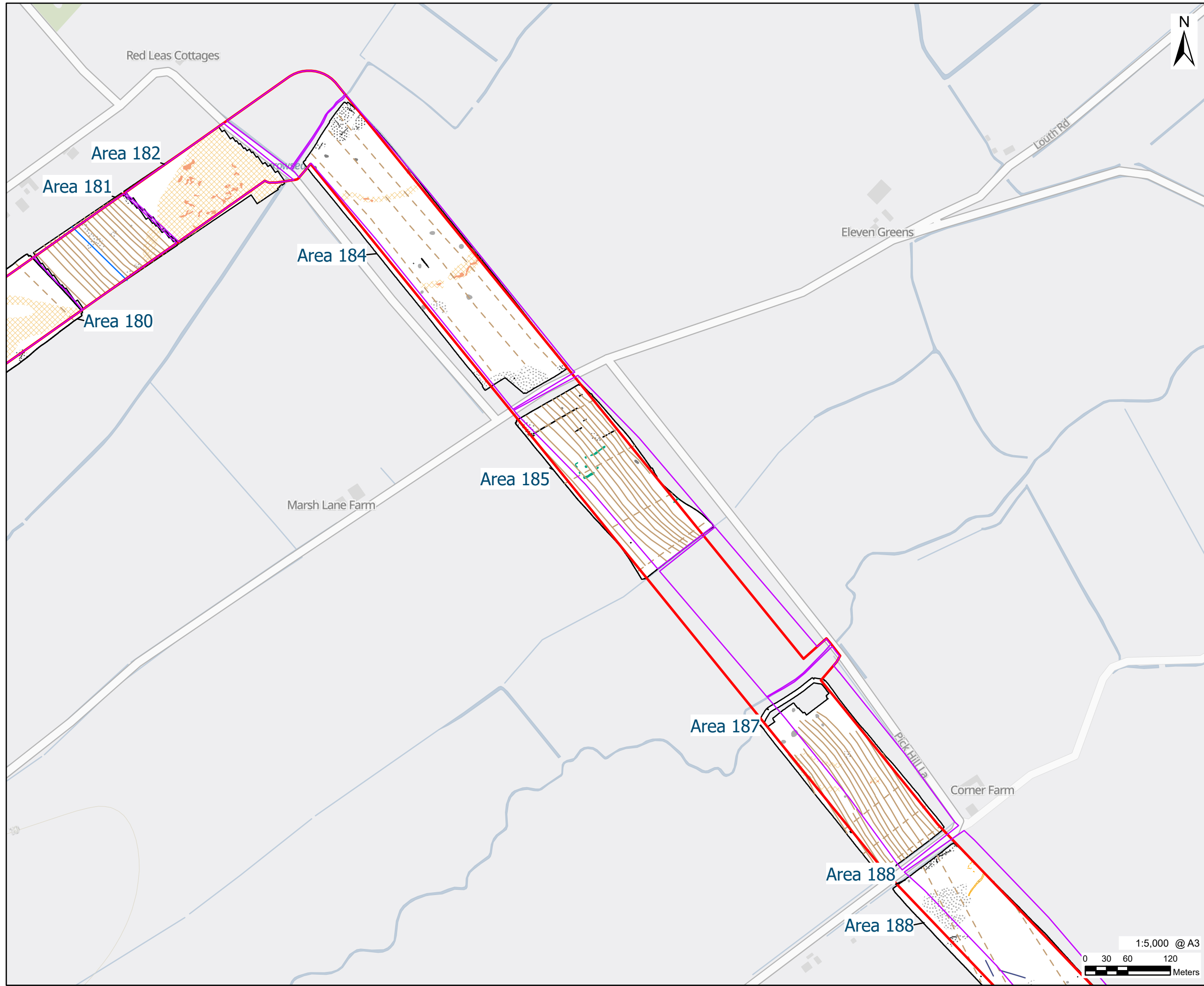
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FIGURE TITLE
Figure 3-22
Interpretation Of Gradiometer Data Overview

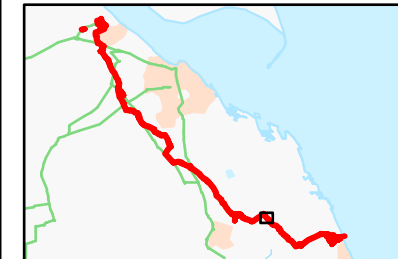
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_3-22



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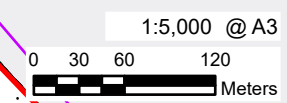
- LEGEND**
- Updated Redline
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Ferrous Anomalies/Iron Spike



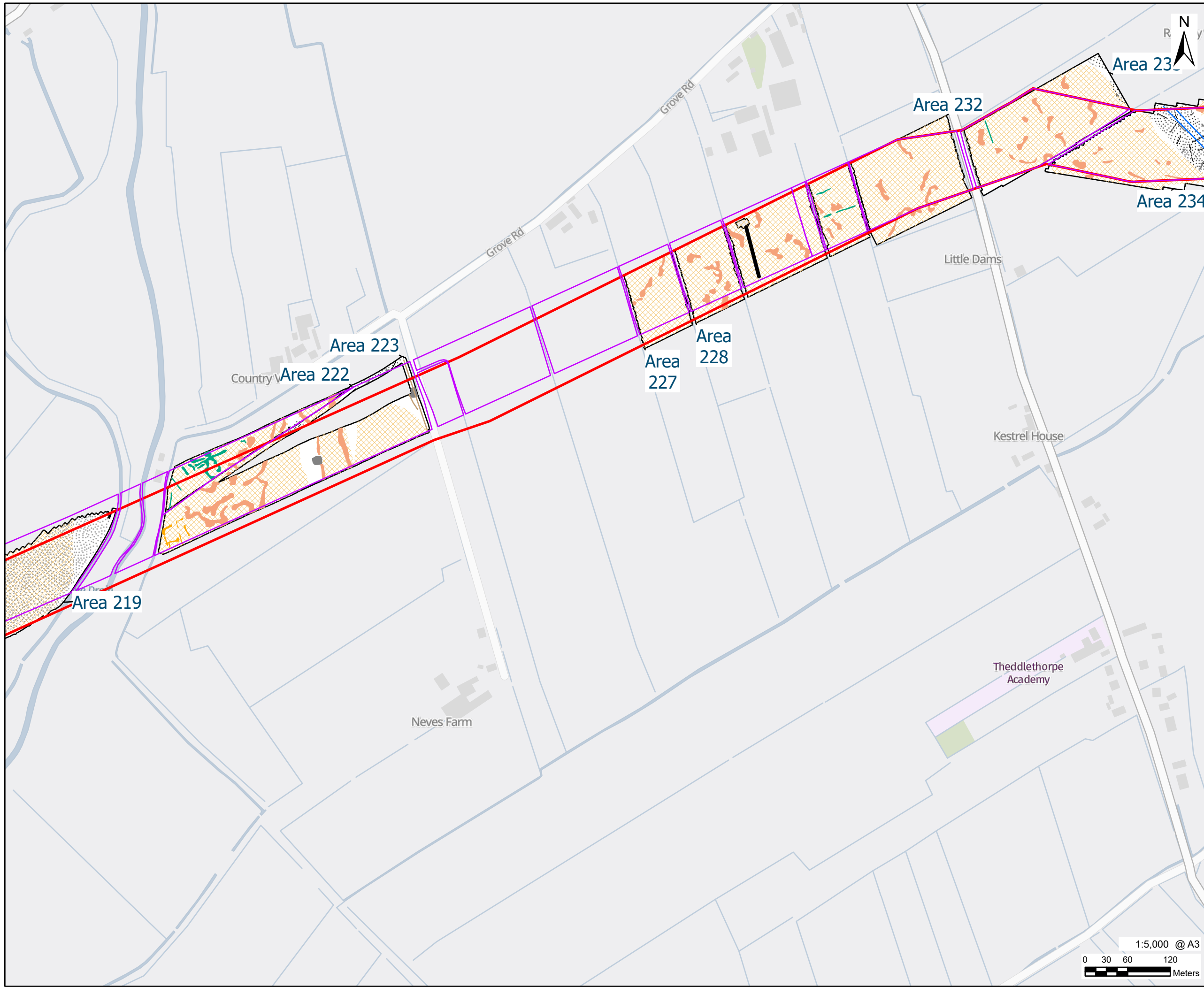
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FIGURE TITLE
Figure 3-25
Interpretation Of Gradiometer Data Overview

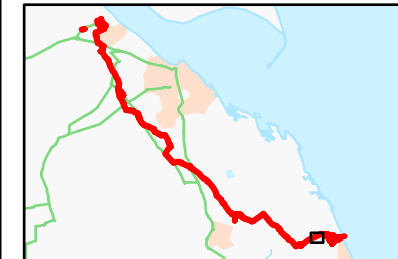
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_3-25



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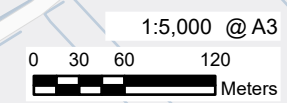
- LEGEND
- Updated Redline
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)



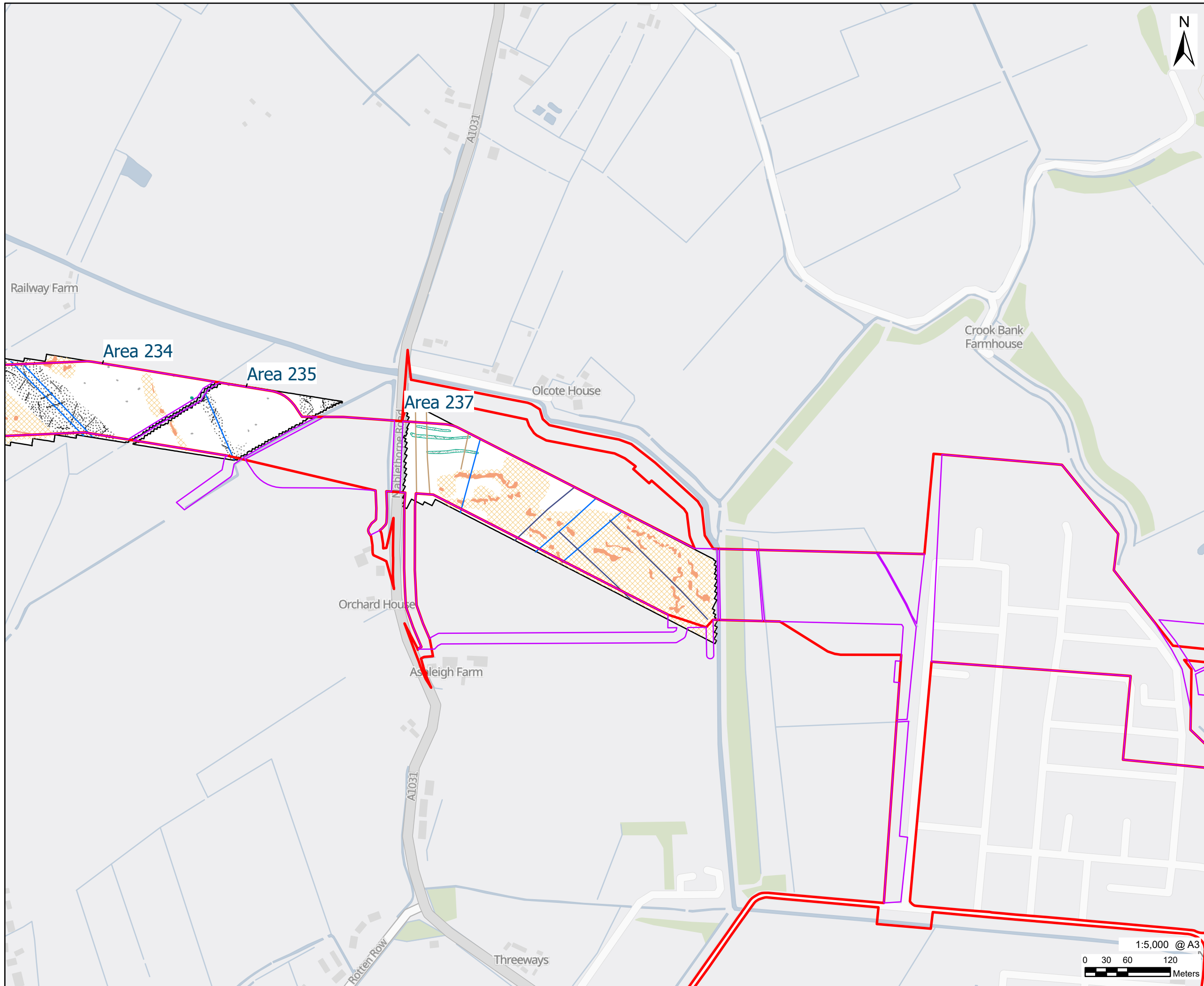
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FIGURE TITLE
Figure 3-30
Interpretation Of Gradiometer Data Overview

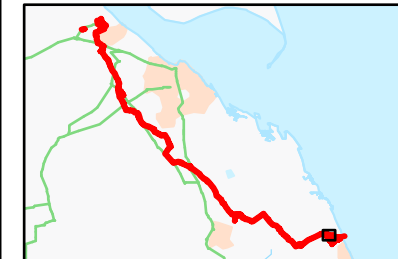
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_3-30



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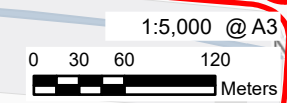
- LEGEND**
- Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)



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FIGURE TITLE
Figure 3-31
Interpretation Of Gradiometer Data Overview

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_3-31



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PROJECT

Viking CCS Pipeline

LEGEND

Updated Redline

Initial Redline



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FIGURE TITLE

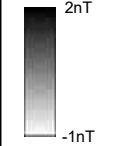
Figure 4-1
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-1



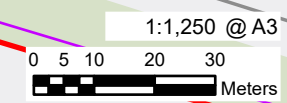
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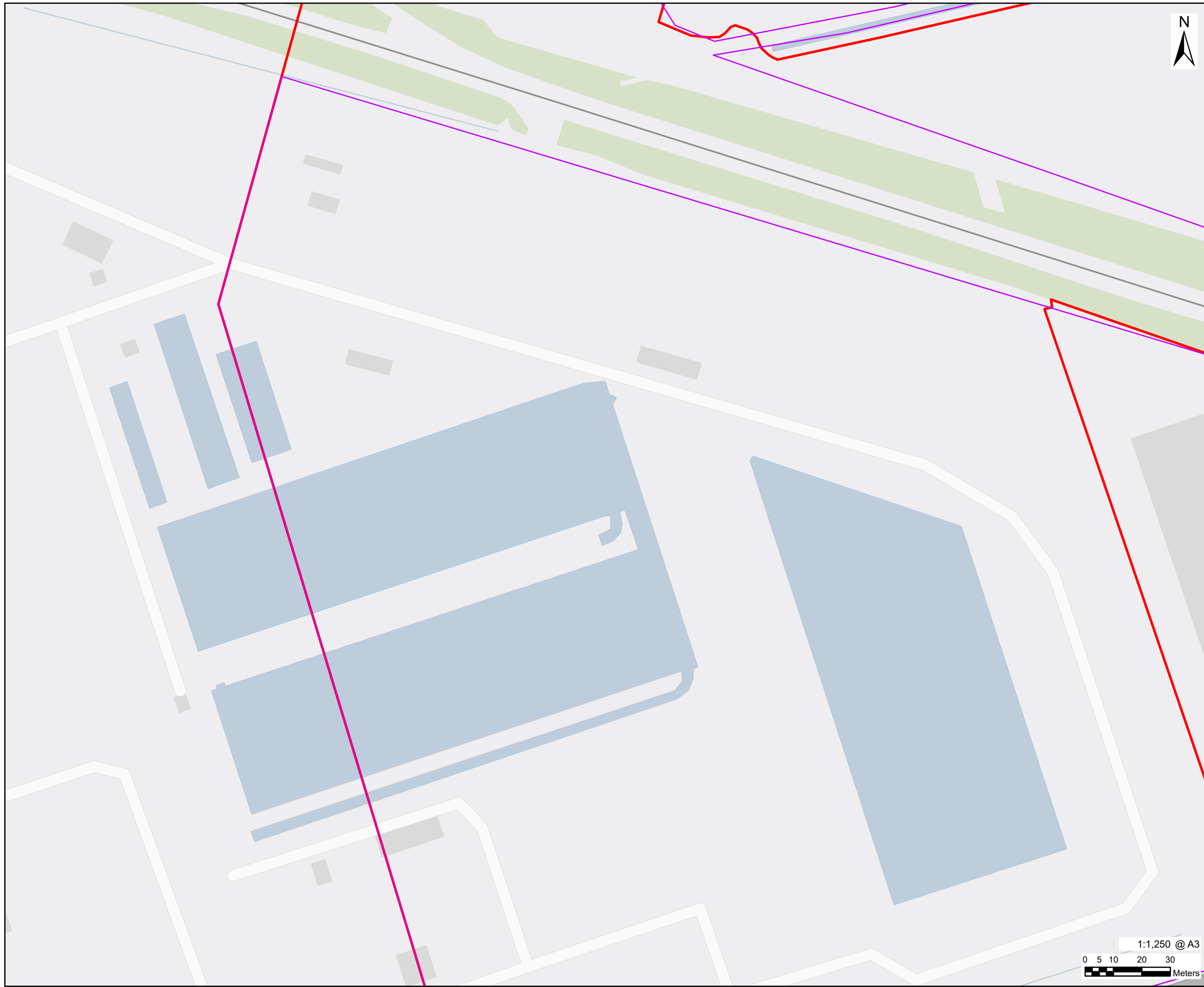


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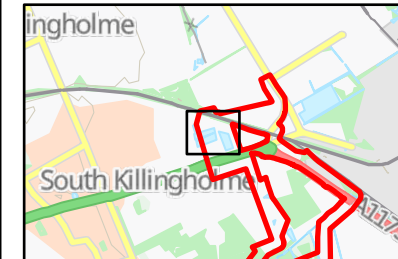
FIGURE TITLE
Figure 4-2
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-2





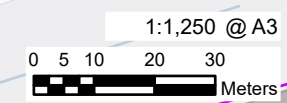
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FIGURE TITLE
**Figure 4-3
Processed Gradiometer Data
Detailed Greyscale Image**

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-3

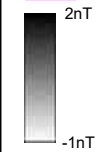




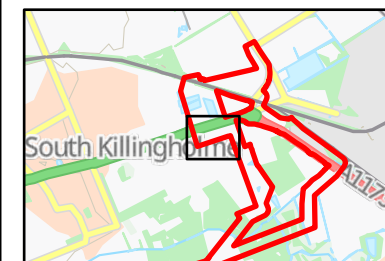
LEGEND

Updated Redline

Initial Redline



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FIGURE TITLE

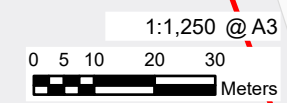
Figure 4-5
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-5





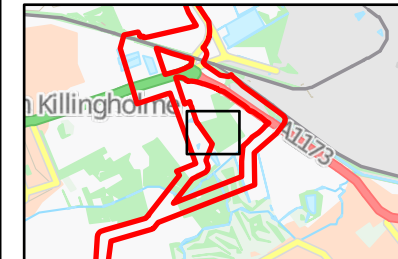
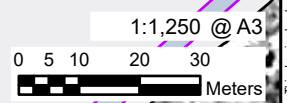
- LEGEND
- Updated Redline
 - Initial Redline



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Houlton's Covert

Area 13



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FIGURE TITLE

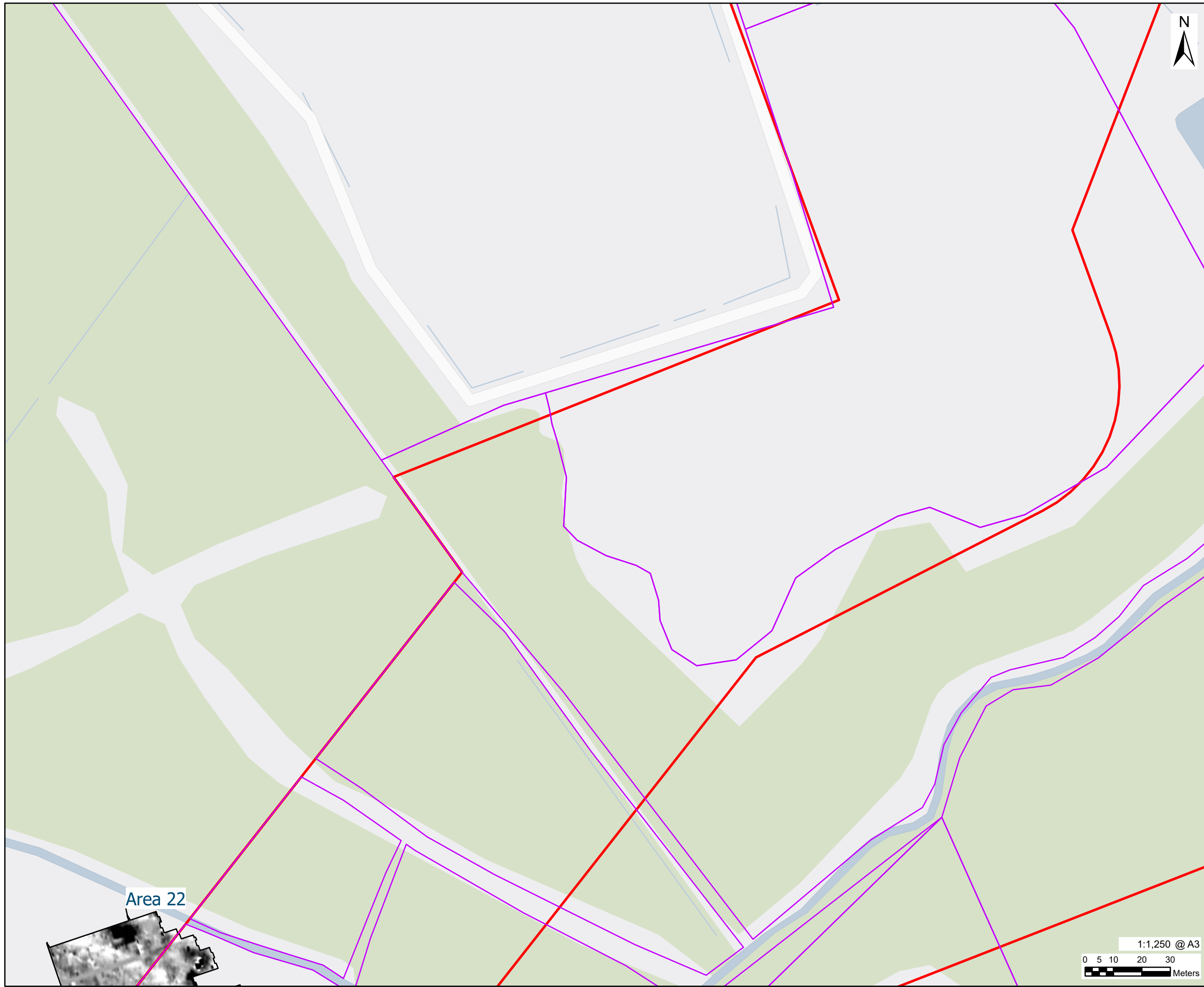
Figure 4-9
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

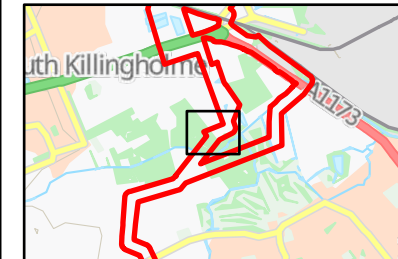
60668955 / VCCS_231212_ES_4-9



LEGEND

- Updated Redline
- Initial Redline

2nT
-1nT

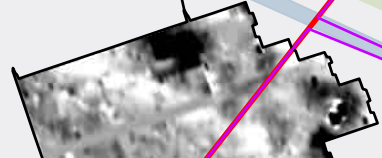


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FIGURE TITLE
**Figure 4-12
Processed Gradiometer Data
Detailed Greyscale Image**

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-12

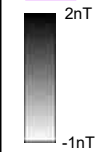
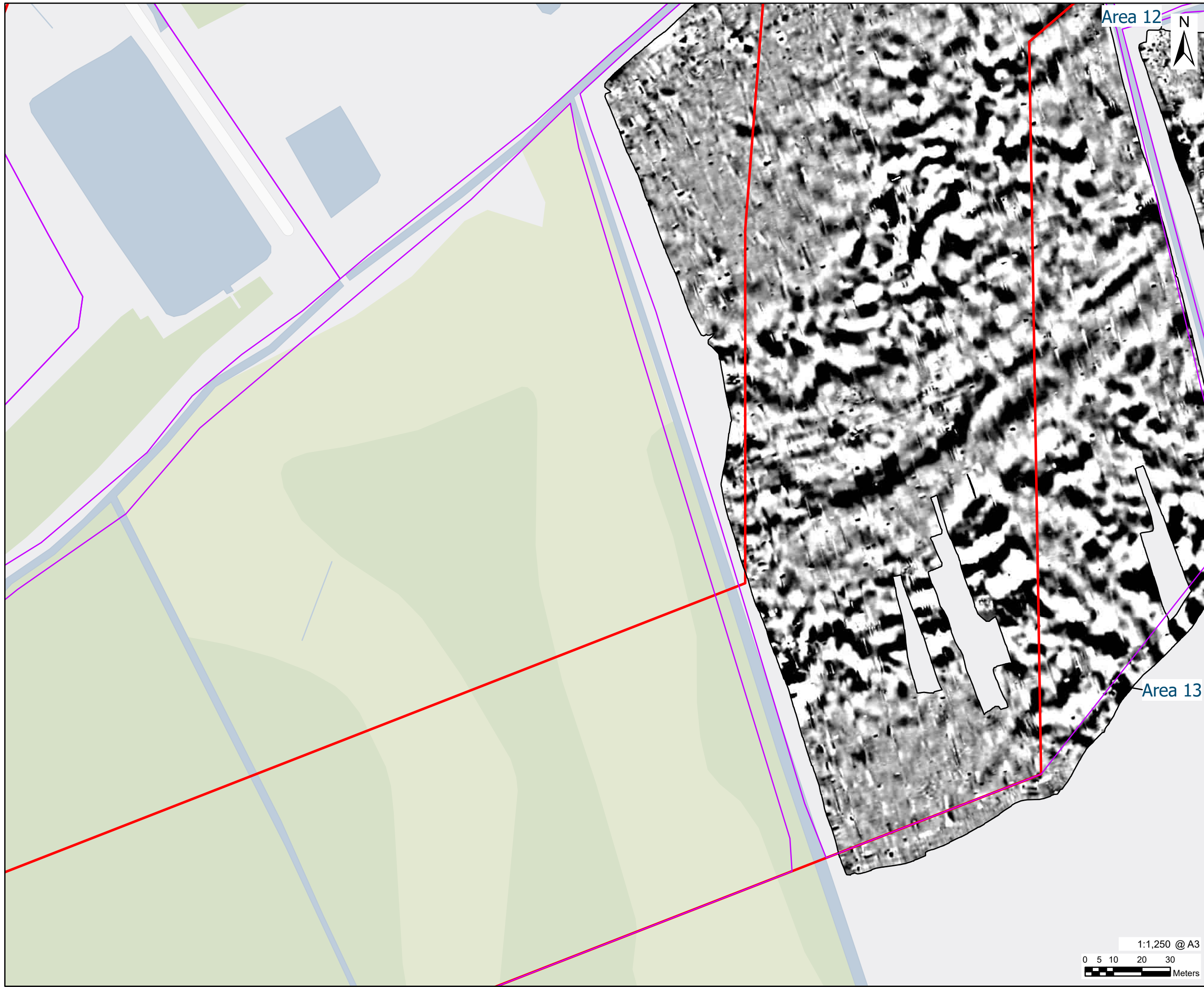
Area 22



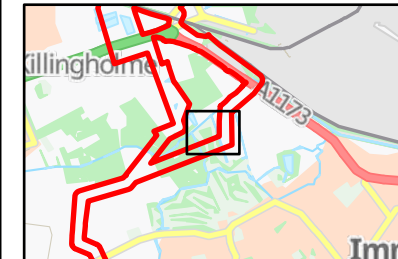
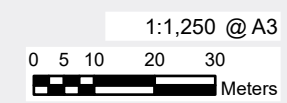
1:1,250 @ A3

Meters

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FIGURE TITLE
Figure 4-13
Processed Gradiometer Data
Detailed Greyscale Image

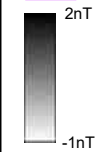
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-13



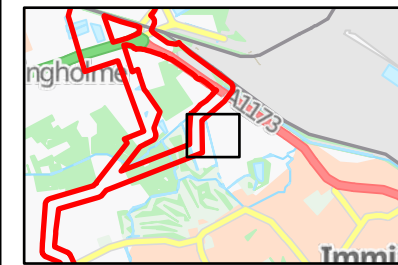
LEGEND

Updated Redline

Initial Redline



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FIGURE TITLE

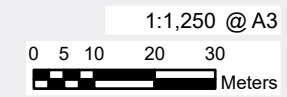
Figure 4-14
Processed Gradiometer Data
Detailed Greyscale Image

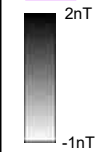
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

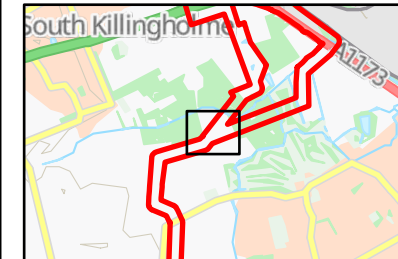
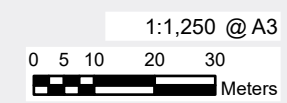
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-14





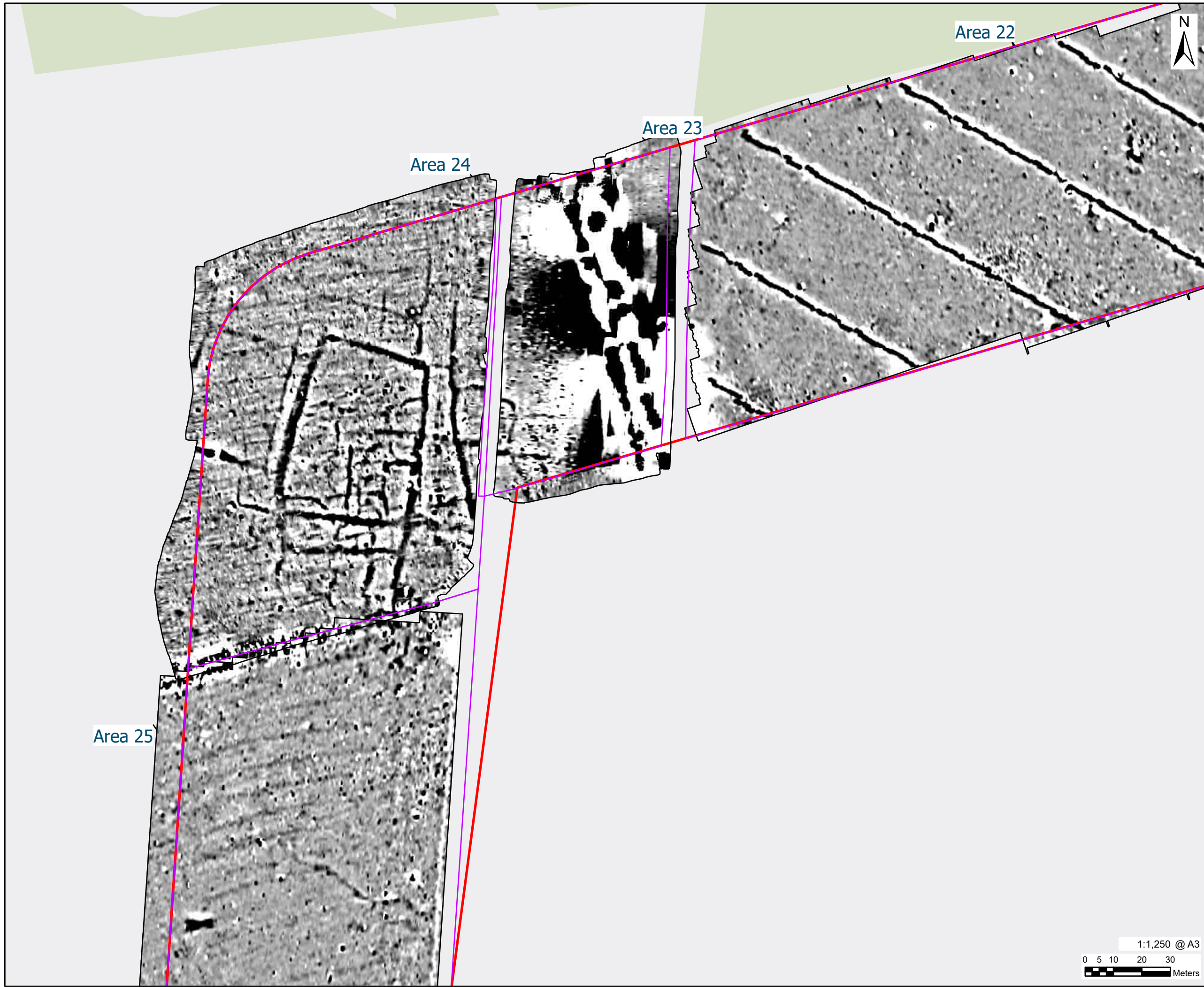
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FIGURE TITLE
Figure 4-16
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-16

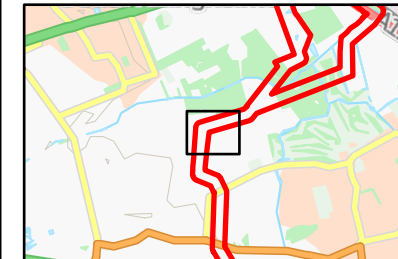


LEGEND

- Updated Redline
- Initial Redline

2nT

-1nT



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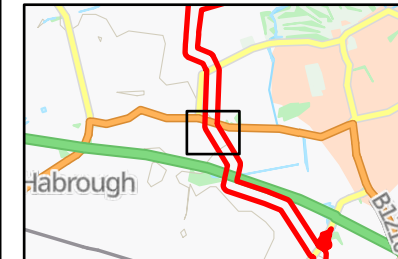
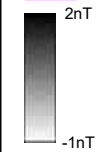
FIGURE TITLE
Figure 4-17
 Processed Gradiometer Data
 Detailed Greyscale Image

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-17

1:1,250 @ A3

Meters

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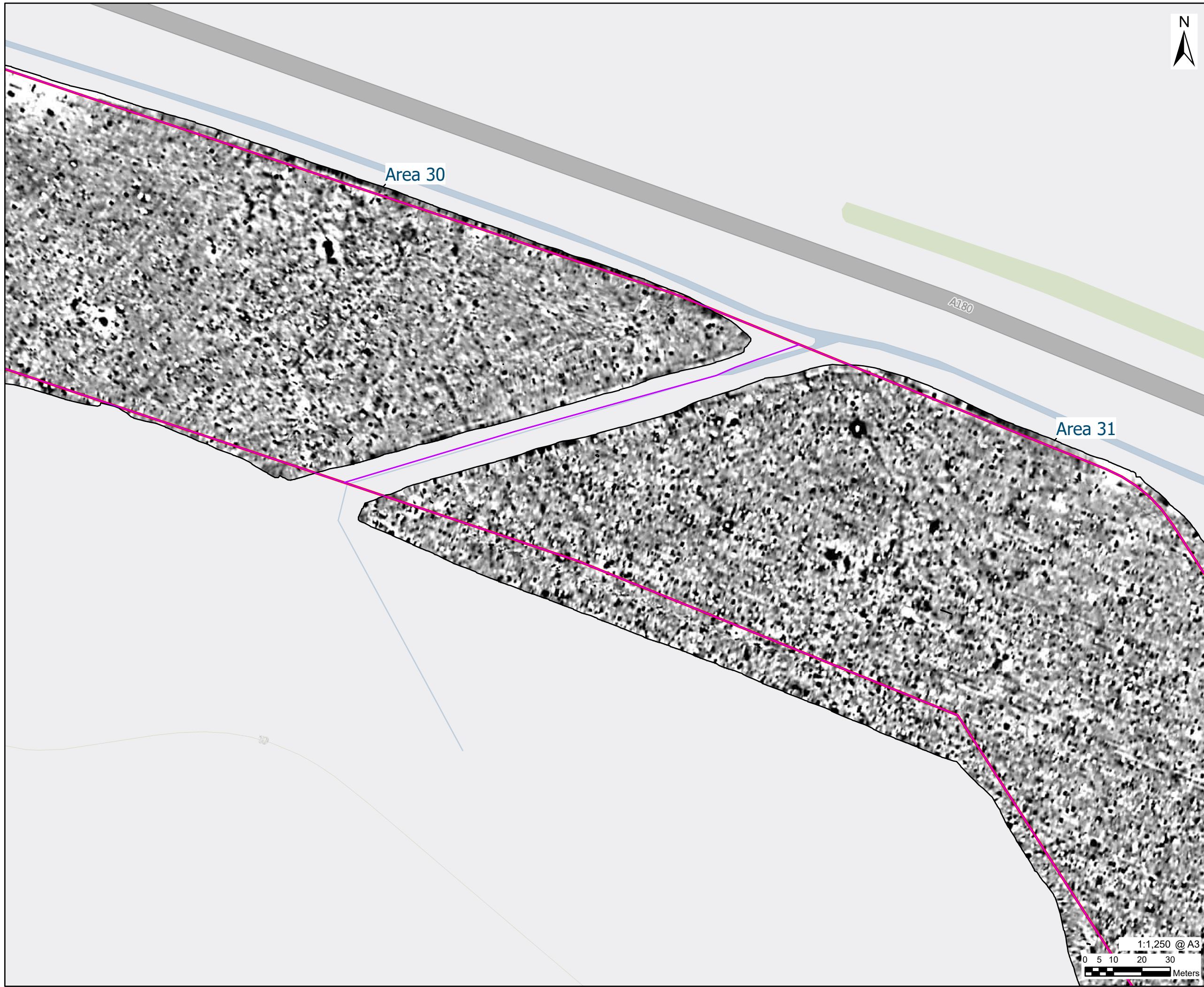


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FIGURE TITLE
Figure 4-20
 Processed Gradiometer Data
 Detailed Greyscale Image

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-20

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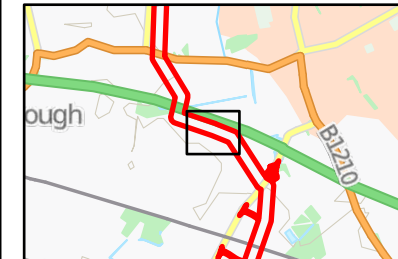
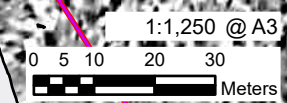


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Area 31

Area 30

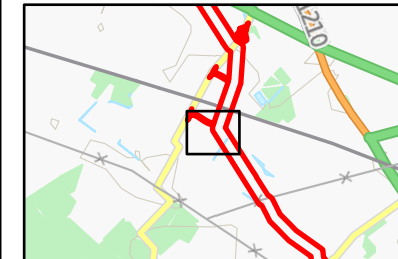
A180



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FIGURE TITLE
Figure 4-22
Processed Gradiometer Data
Detailed Greyscale Image

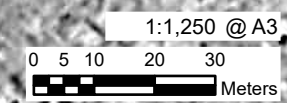
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-22



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FIGURE TITLE
Figure 4-26
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-26

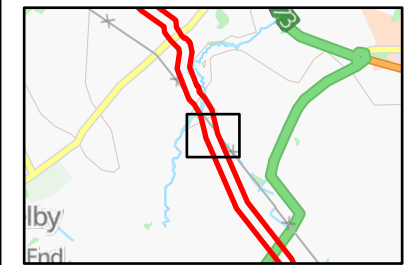


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LEGEND

- Updated Redline
- Initial Redline



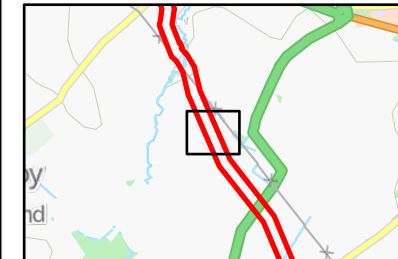
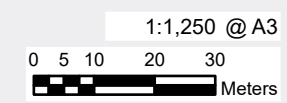
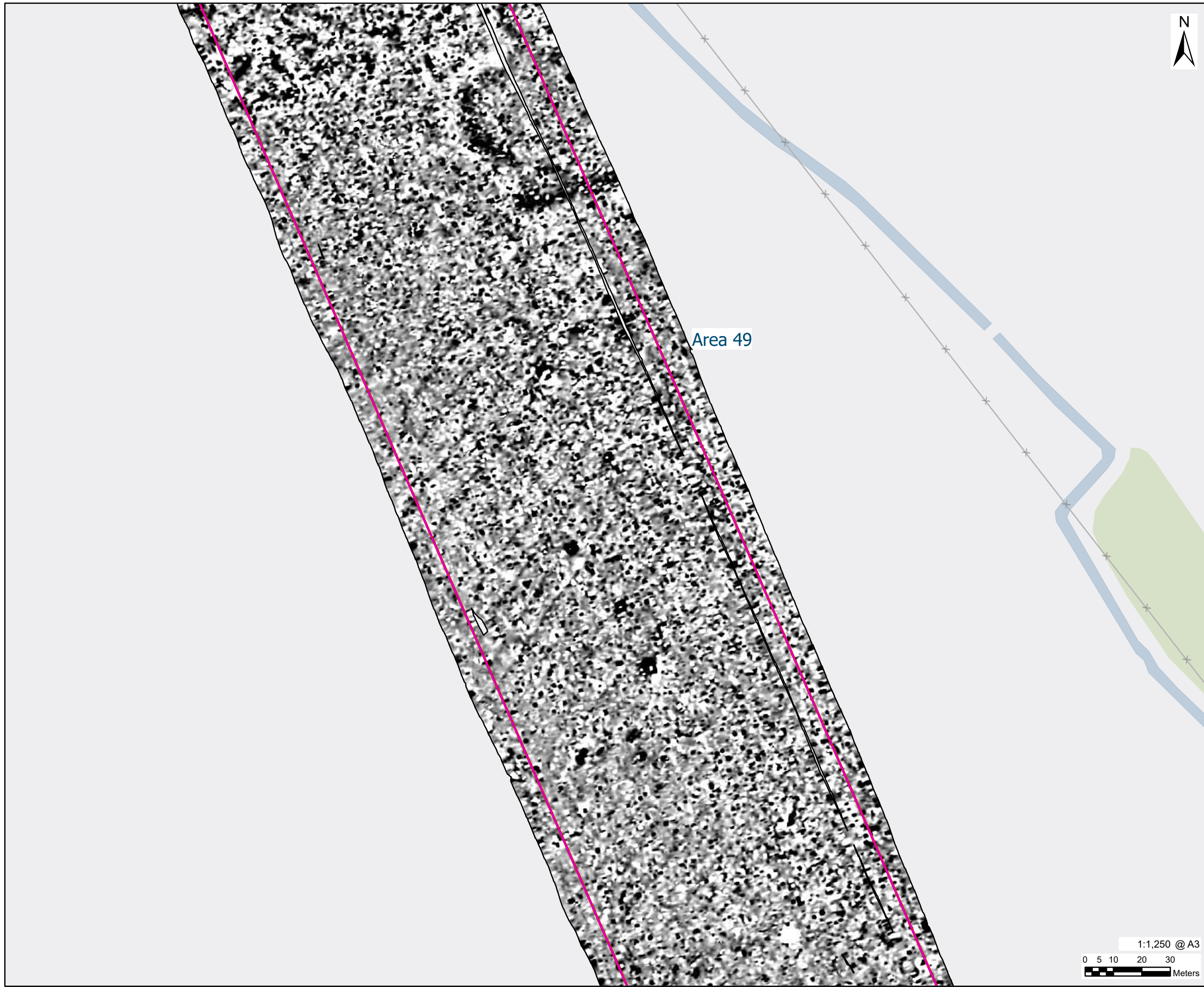
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FIGURE TITLE
Figure 4-32
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-32

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1:1,250 @ A3
0 5 10 20 30
Meters

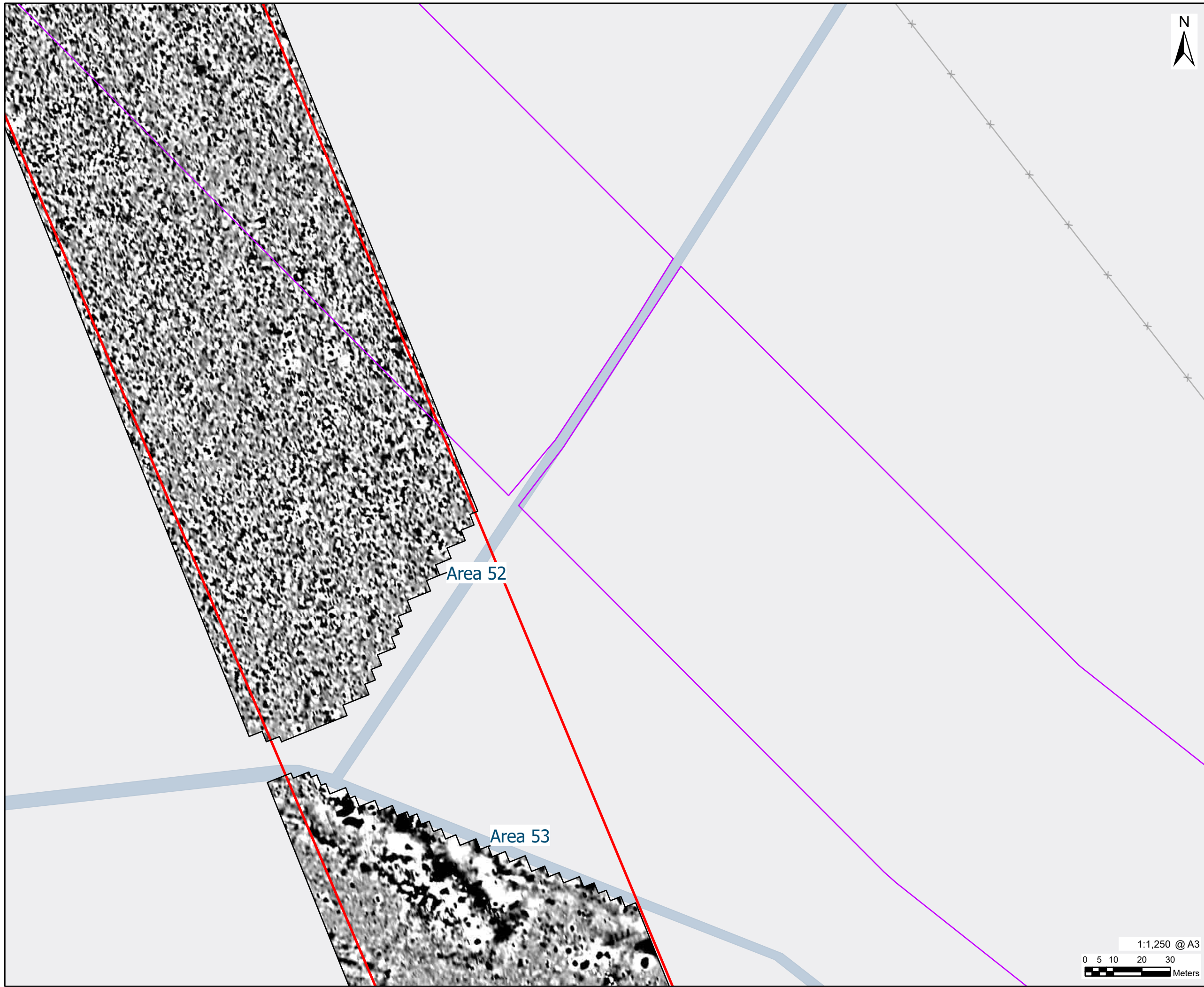


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FIGURE TITLE
Figure 4-33
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-33

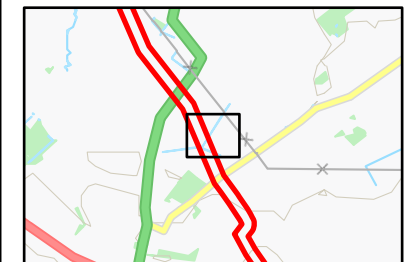
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LEGEND

- Updated Redline
- Initial Redline

2nT
-1nT



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FIGURE TITLE

Figure 4-36
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

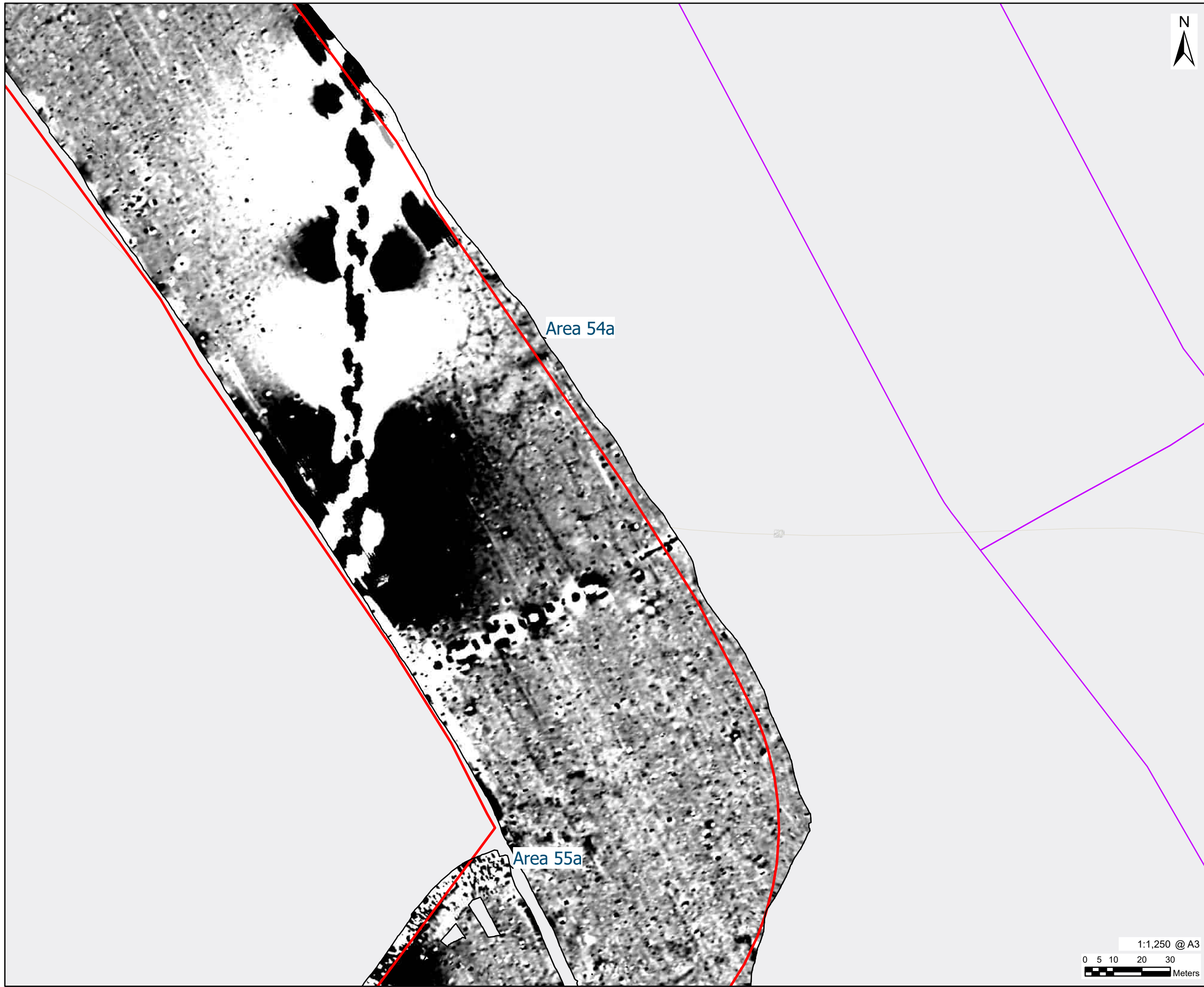
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-36

1:1,250 @ A3

0 5 10 20 30
Meters

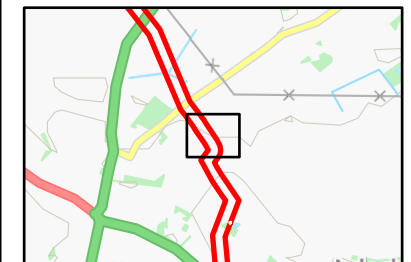
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LEGEND

- Updated Redline
- Initial Redline

2nT
-1nT



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FIGURE TITLE

Figure 4-38
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-38

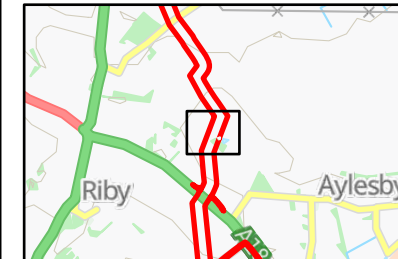
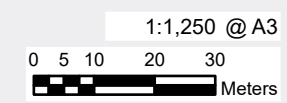
1:1,250 @ A3

Meters

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- LEGEND
- Updated Redline
 - Initial Redline



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FIGURE TITLE

Figure 4-40
Processed Gradiometer Data
Detailed Greyscale Image

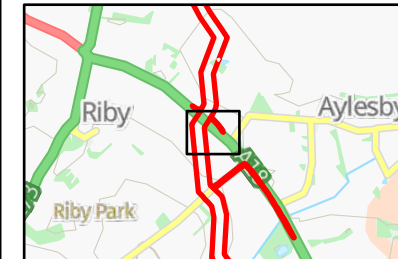
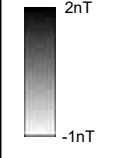
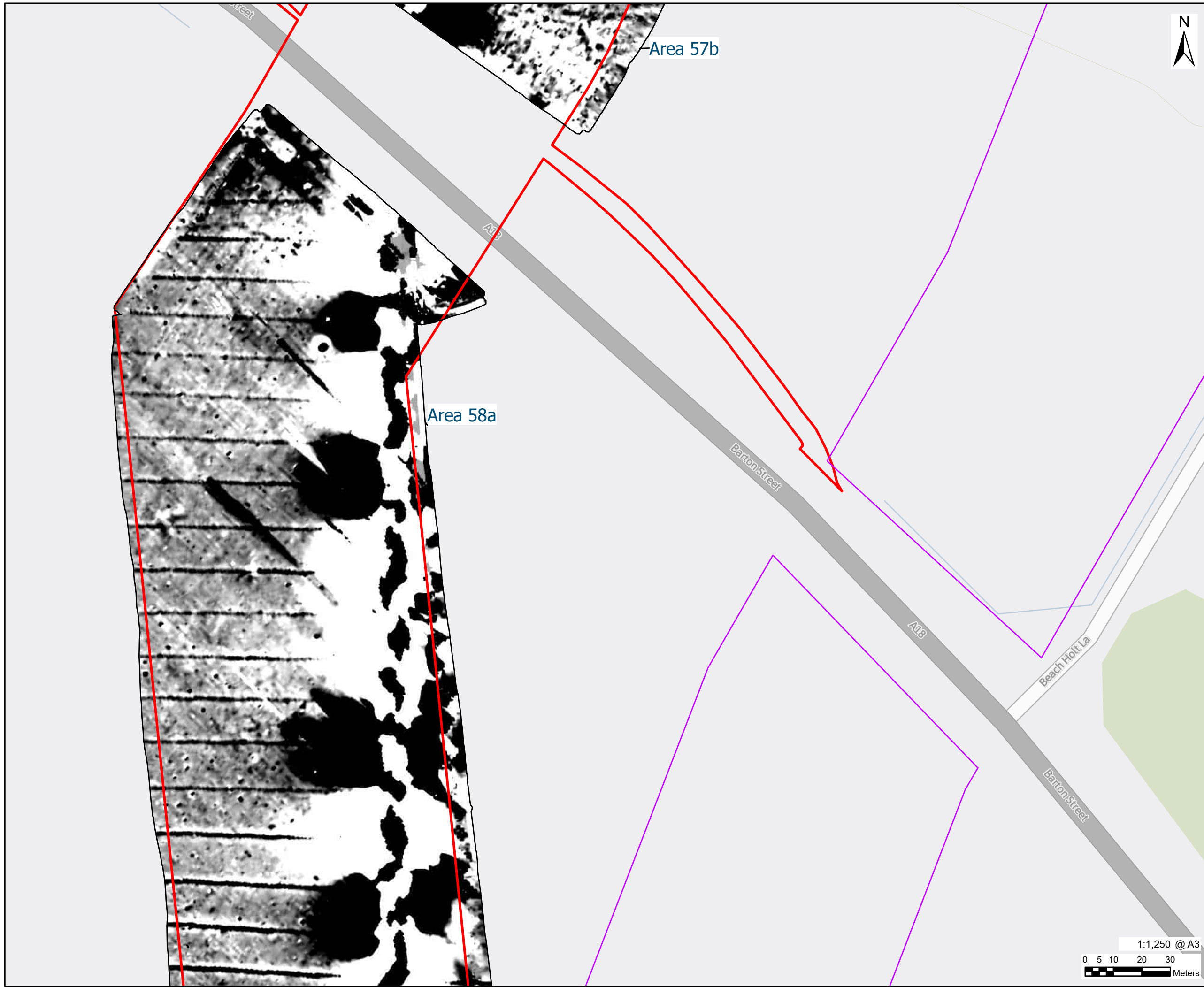
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-40

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FIGURE TITLE

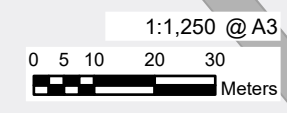
Figure 4-42
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

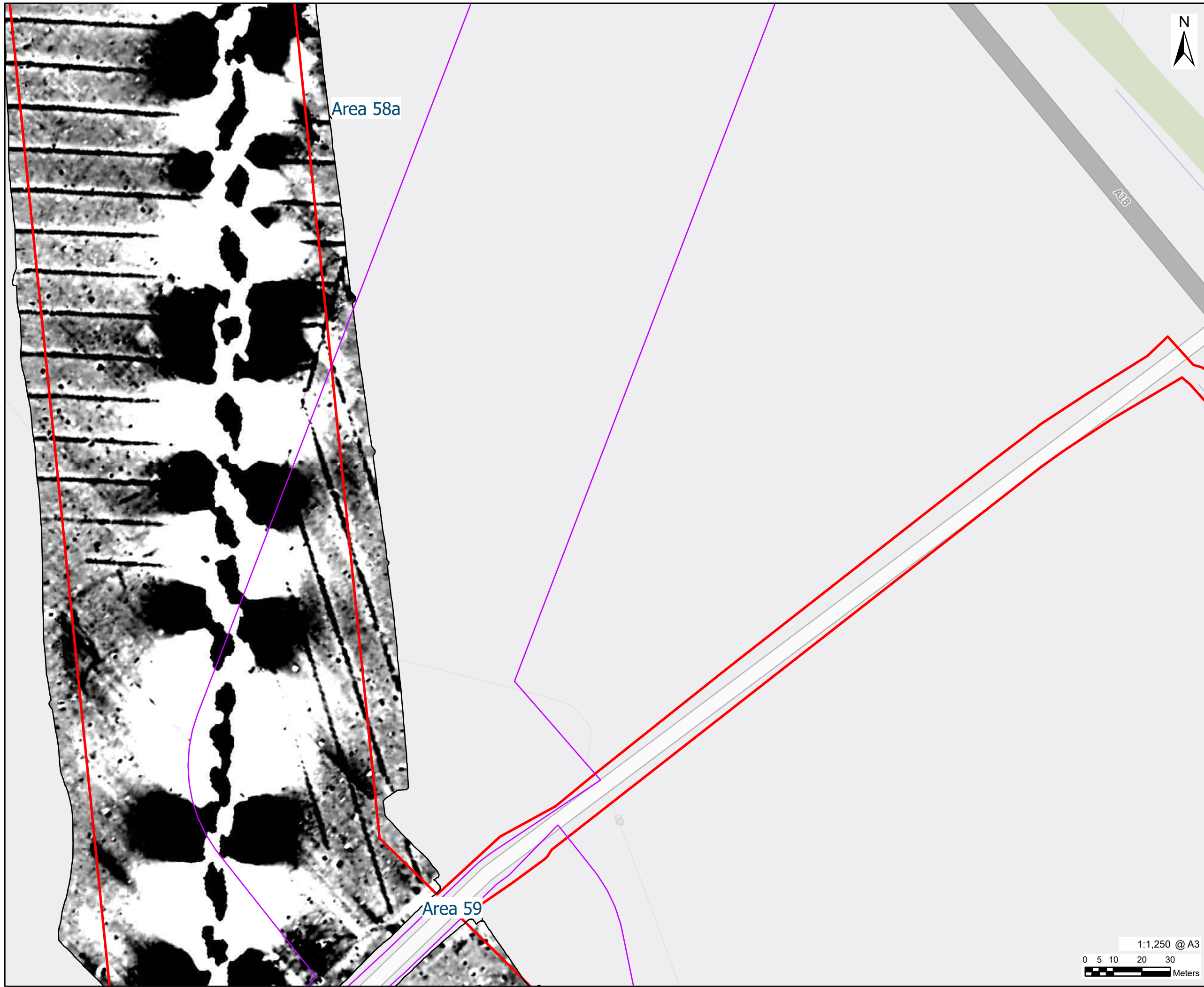
ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

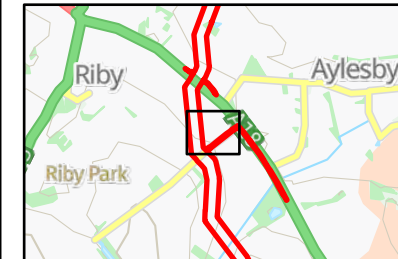
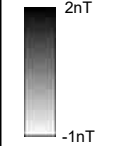
60668955 / VCCS_231212_ES_4-42



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- LEGEND**
- Updated Redline
 - Initial Redline



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FIGURE TITLE

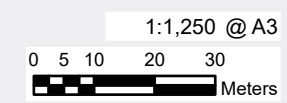
Figure 4-43
 Processed Gradiometer Data
 Detailed Greyscale Image

ISSUE PURPOSE

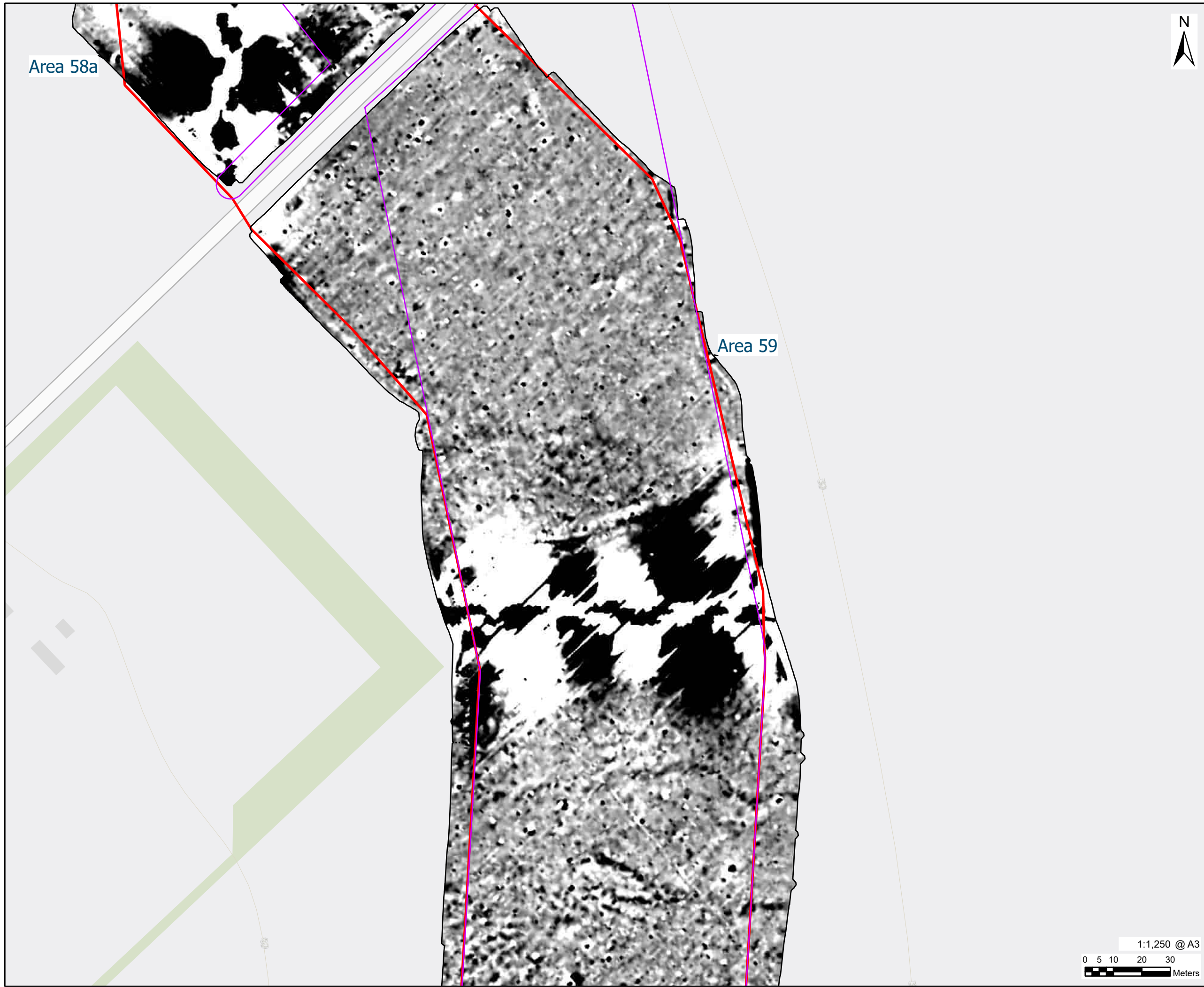
ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-43



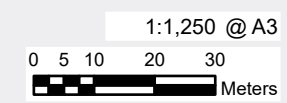
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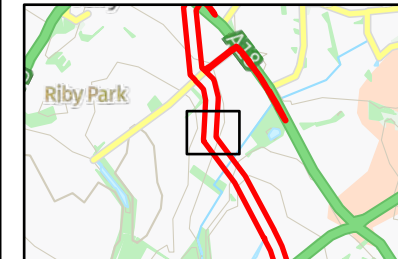
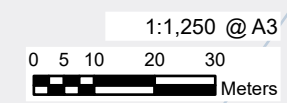
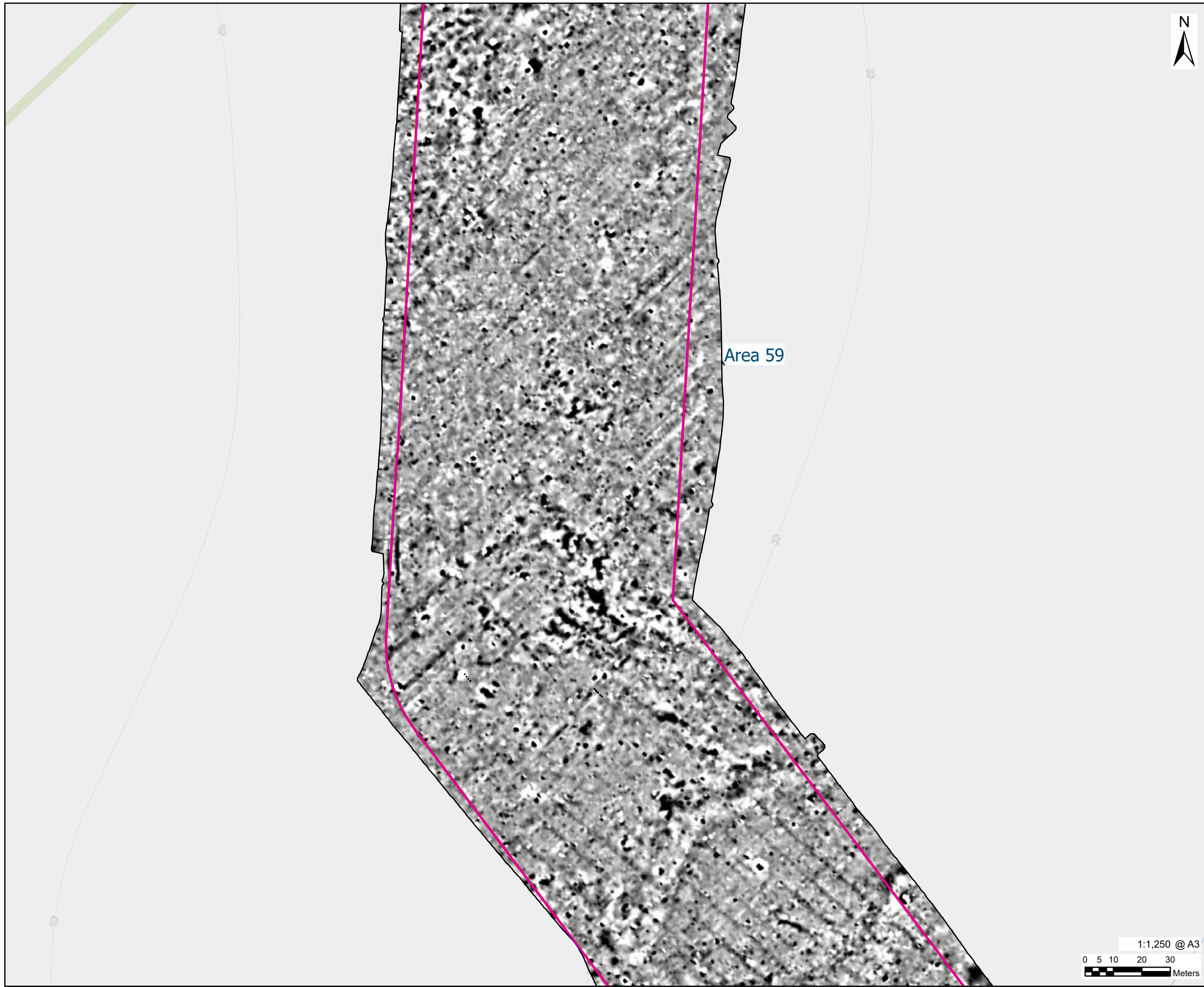
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FIGURE TITLE
Figure 4-44
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-44



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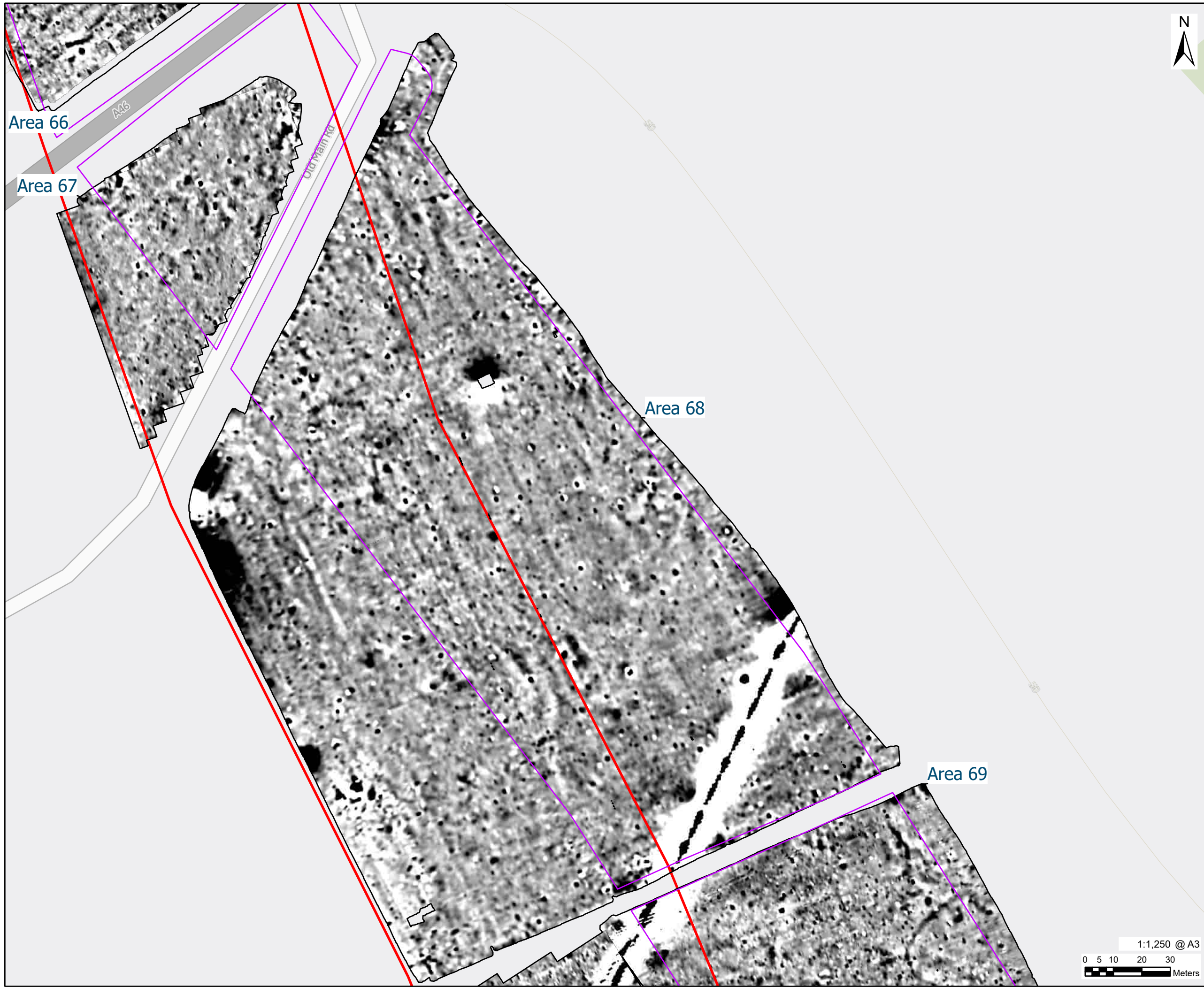




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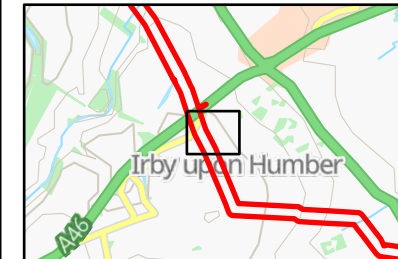
FIGURE TITLE
Figure 4-45
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-45

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- LEGEND
-  Updated Redline
 -  Initial Redline

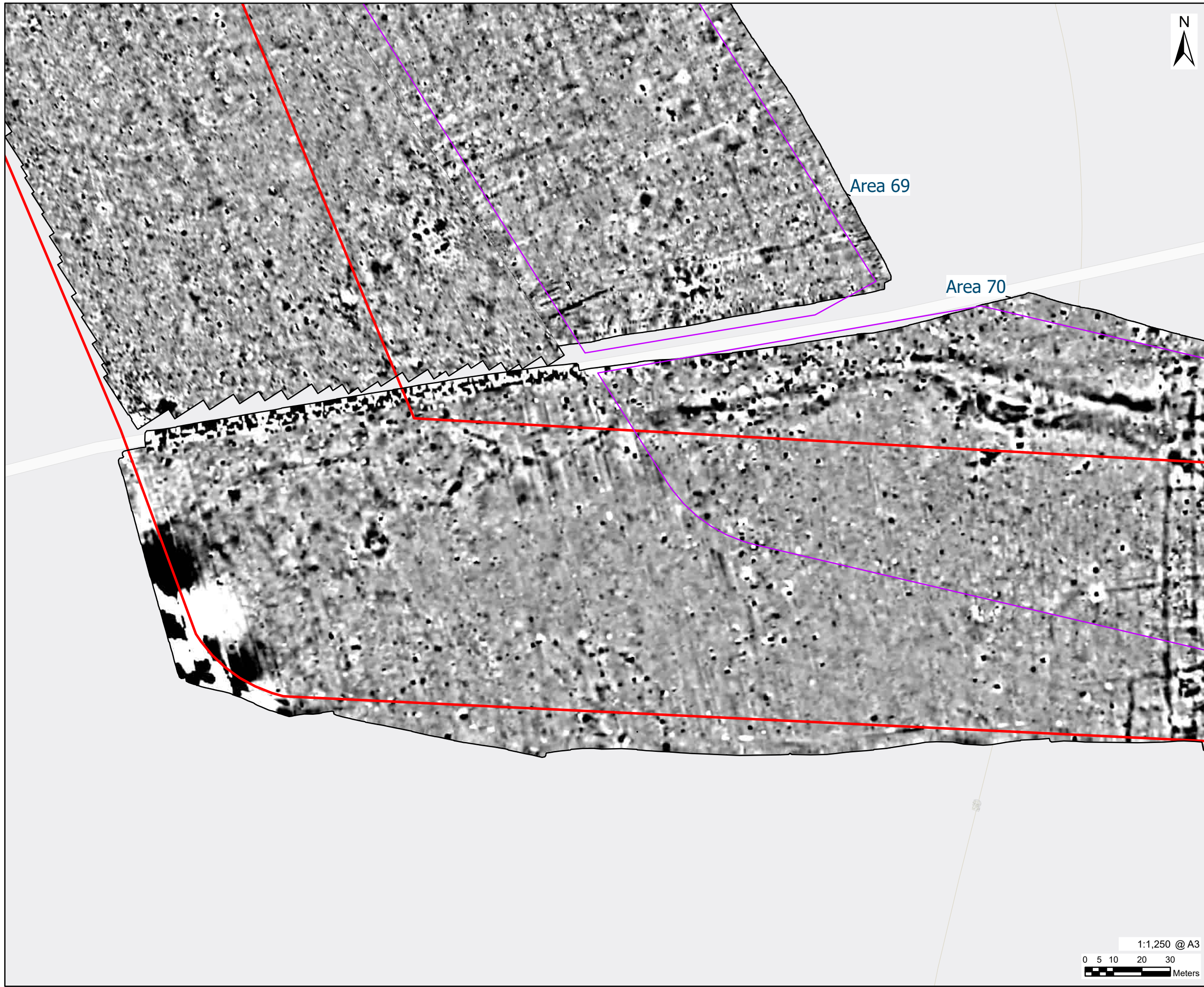


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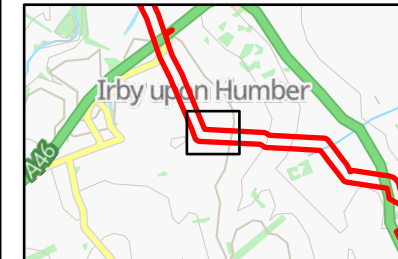
FIGURE TITLE
Figure 4-49
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-49

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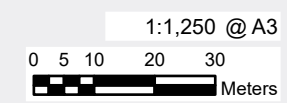
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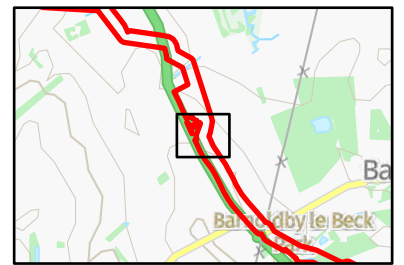
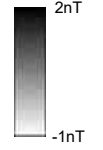


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FIGURE TITLE
Figure 4-51
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-51





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FIGURE TITLE

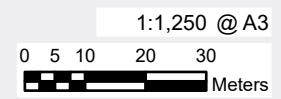
Figure 4-57
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

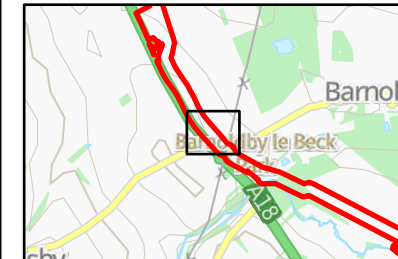
60668955 / VCCS_231212_ES_4-57



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FIGURE TITLE

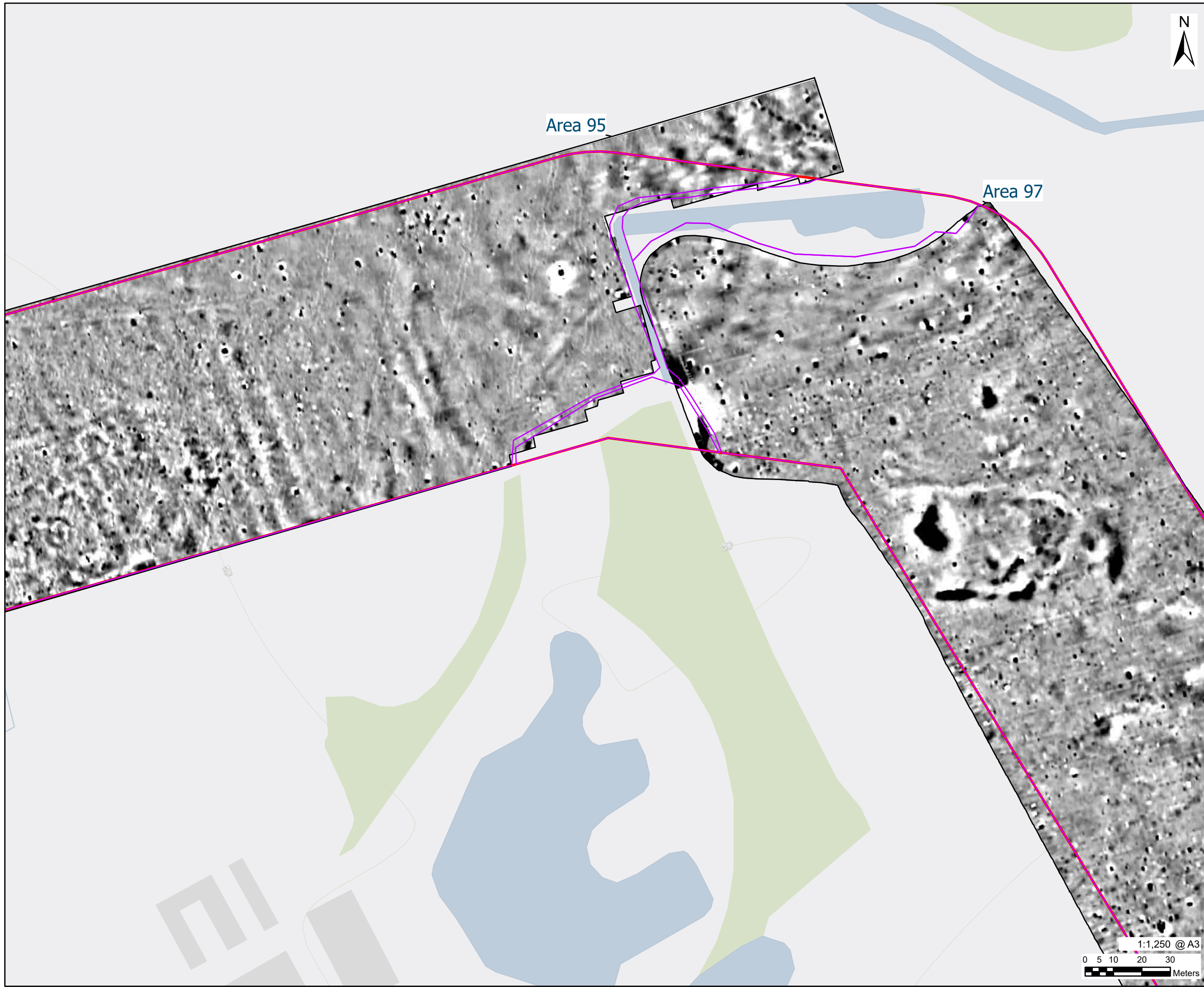
Figure 4-59
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-59



- LEGEND
- Updated Redline
 - Initial Redline



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FIGURE TITLE

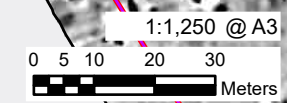
Figure 4-68
Processed Gradiometer Data
Detailed Greyscale Image

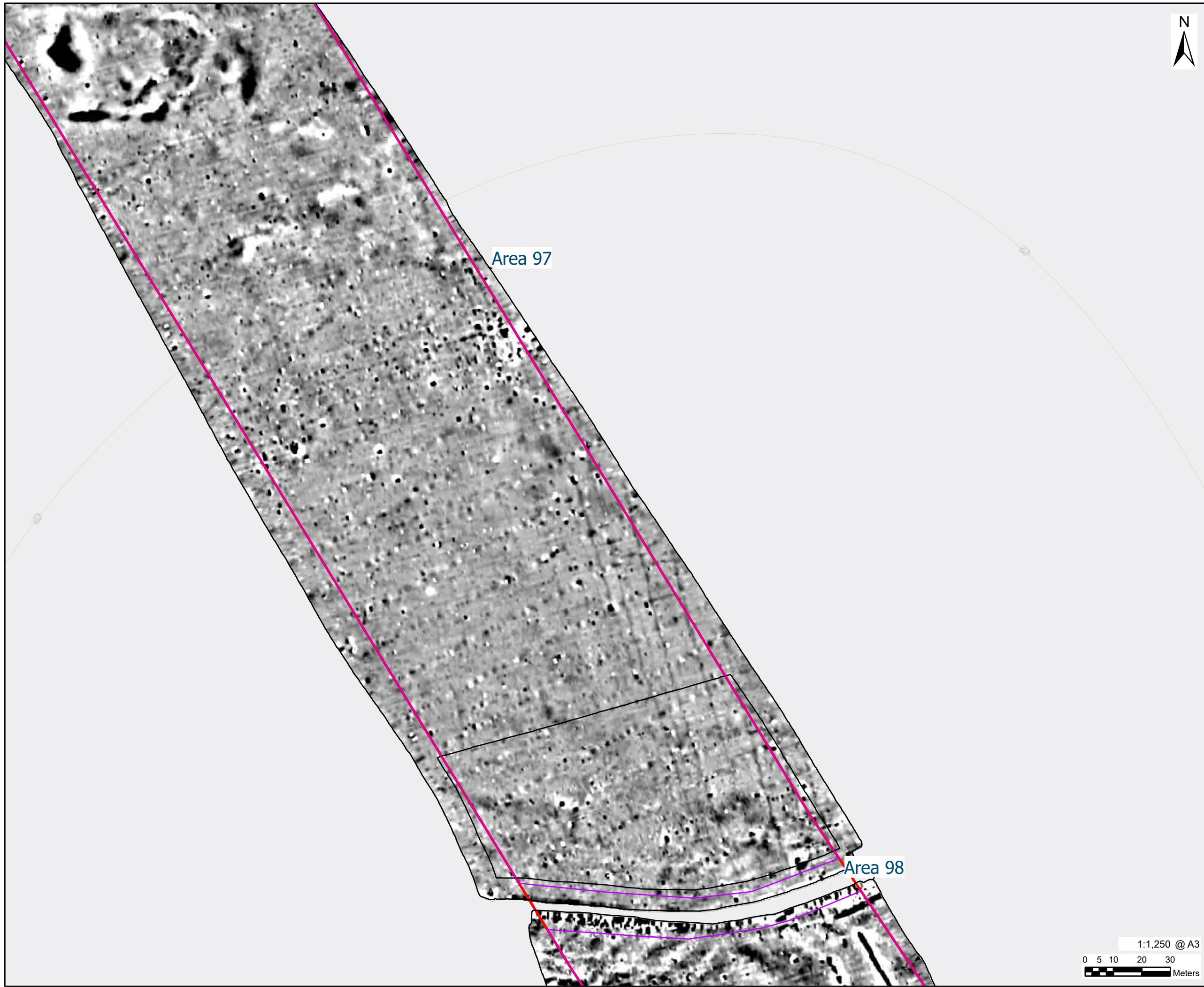
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY



PROJECT NUMBER / REFERENCE

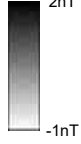
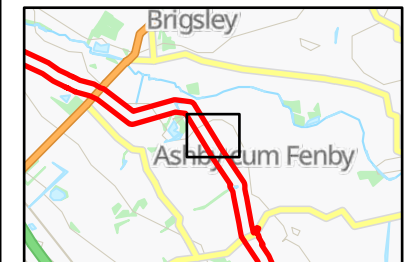
60668955 / VCCS_231212_ES_4-68





LEGEND

-  Updated Redline
-  Initial Redline

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FIGURE TITLE

Figure 4-69
Processed Gradiometer Data
Detailed Greyscale Image

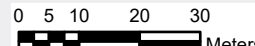
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-69

1:1,250 @ A3

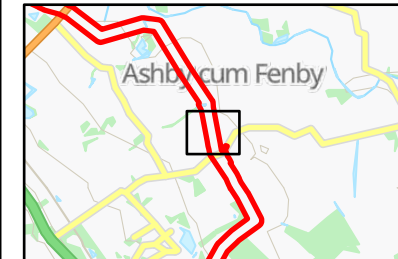


Meters

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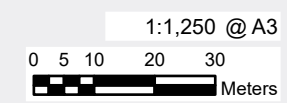
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FIGURE TITLE
Figure 4-71
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-71



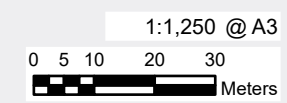


- LEGEND
- Updated Redline
 - Initial Redline



Area 108

Area 109

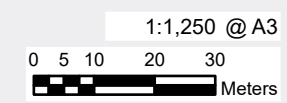
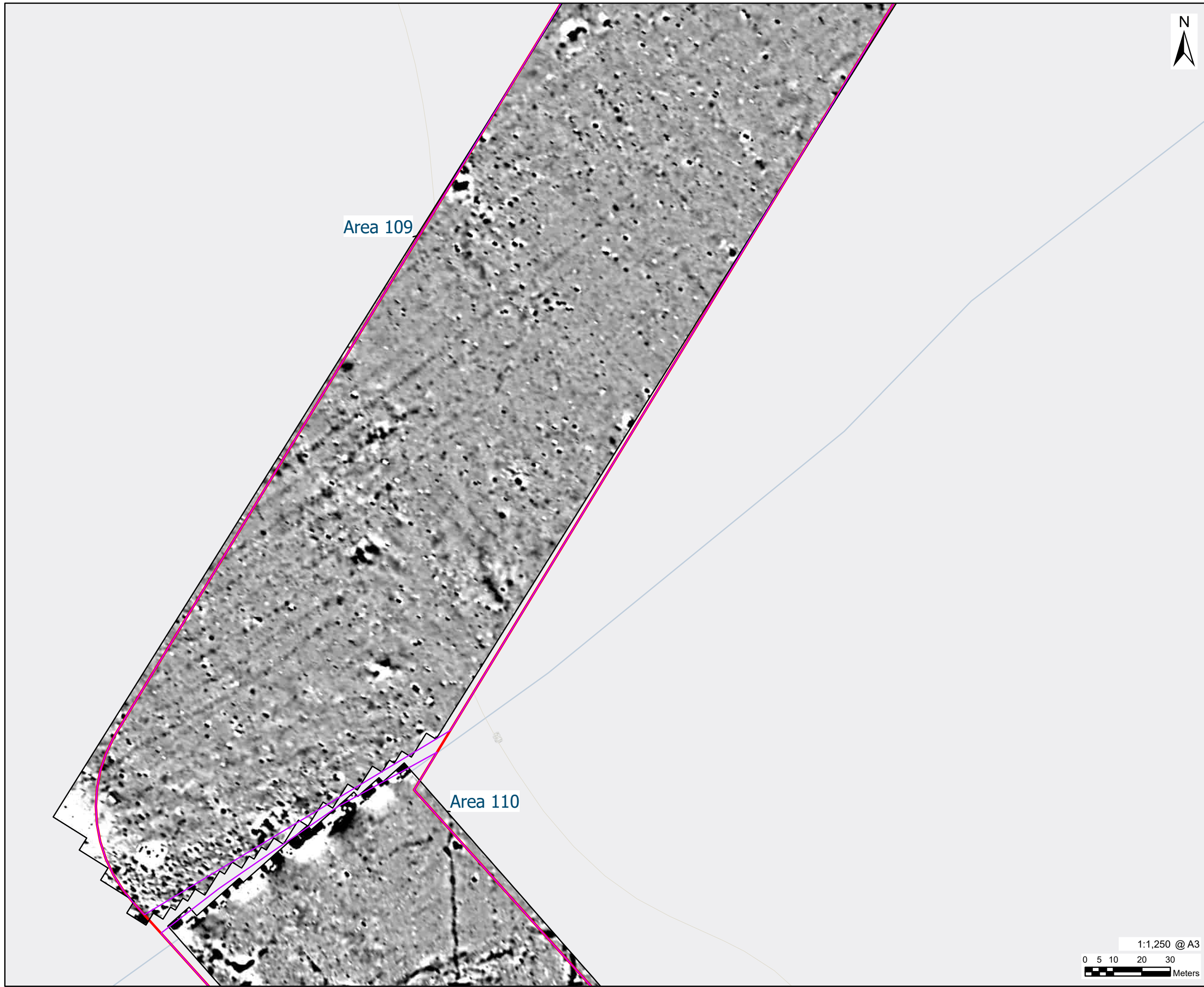


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FIGURE TITLE
Figure 4-75
 Processed Gradiometer Data
 Detailed Greyscale Image

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-75

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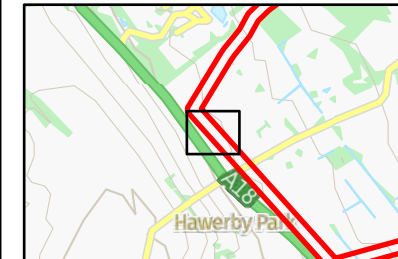


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FIGURE TITLE
Figure 4-76
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-76

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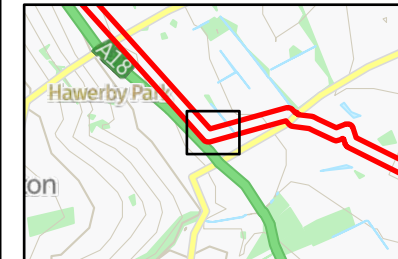
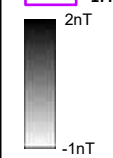


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FIGURE TITLE
Figure 4-77
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-77

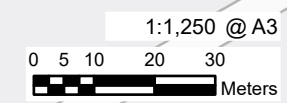
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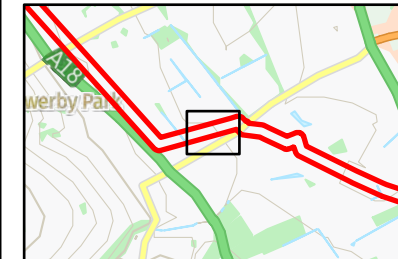
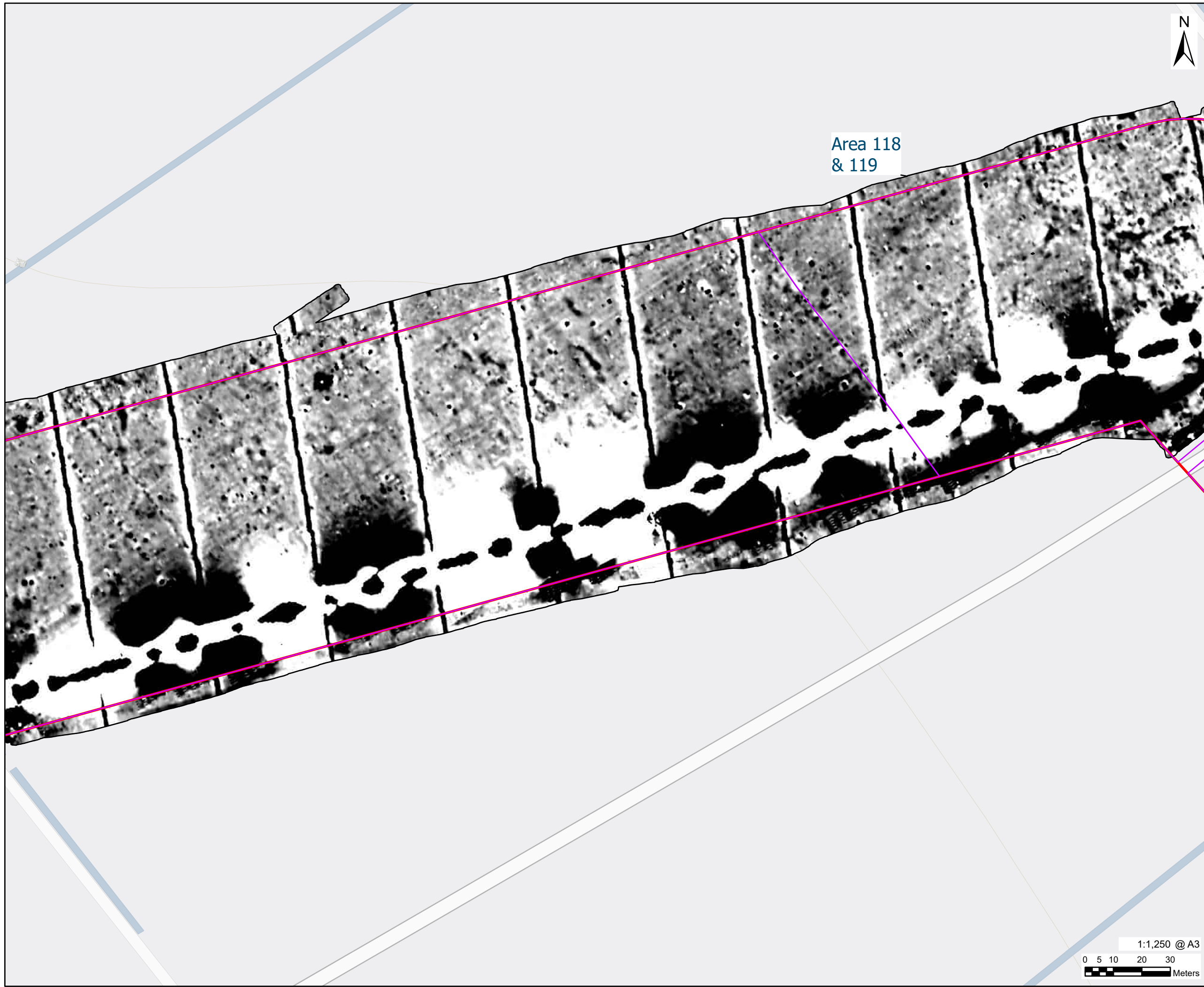
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FIGURE TITLE
Figure 4-81
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-81



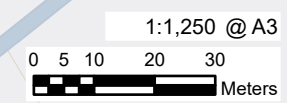
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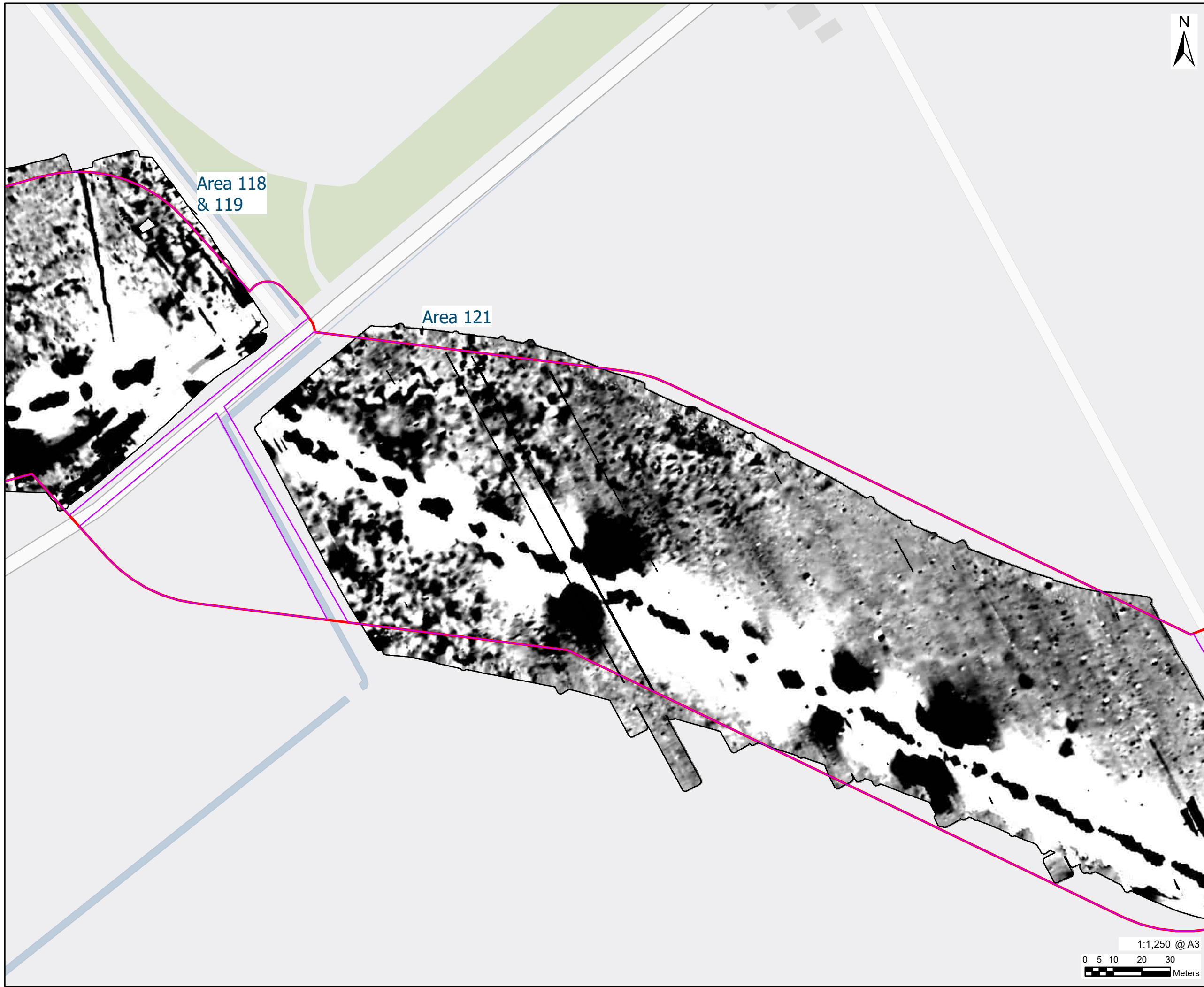
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FIGURE TITLE
Figure 4-82
Processed Gradiometer Data
Detailed Greyscale Image

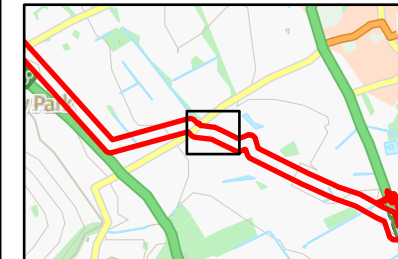
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-82



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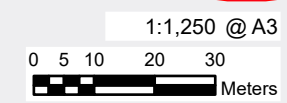
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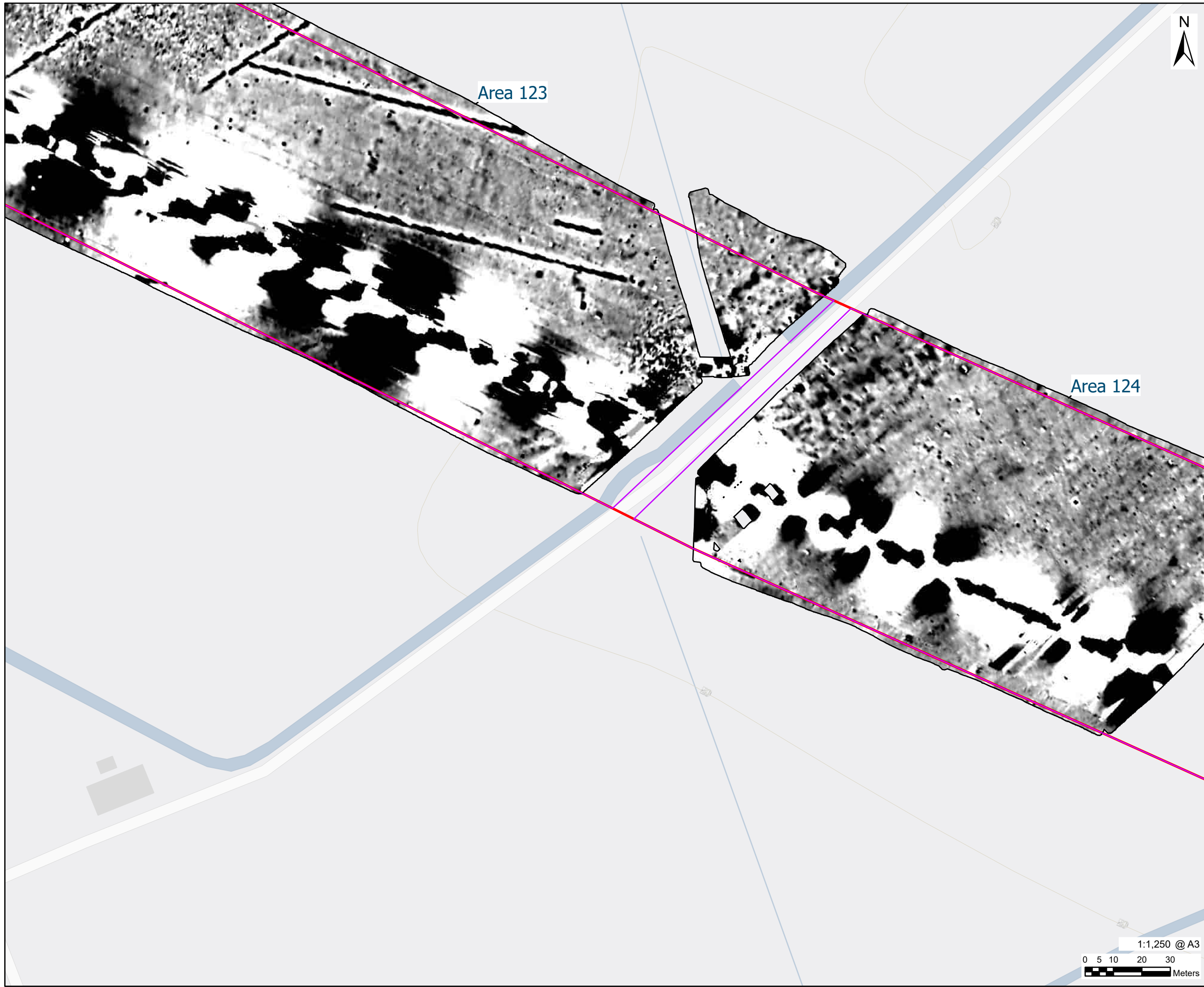


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FIGURE TITLE
Figure 4-83
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-83





Area 124

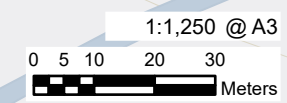
Area 123



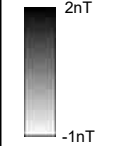
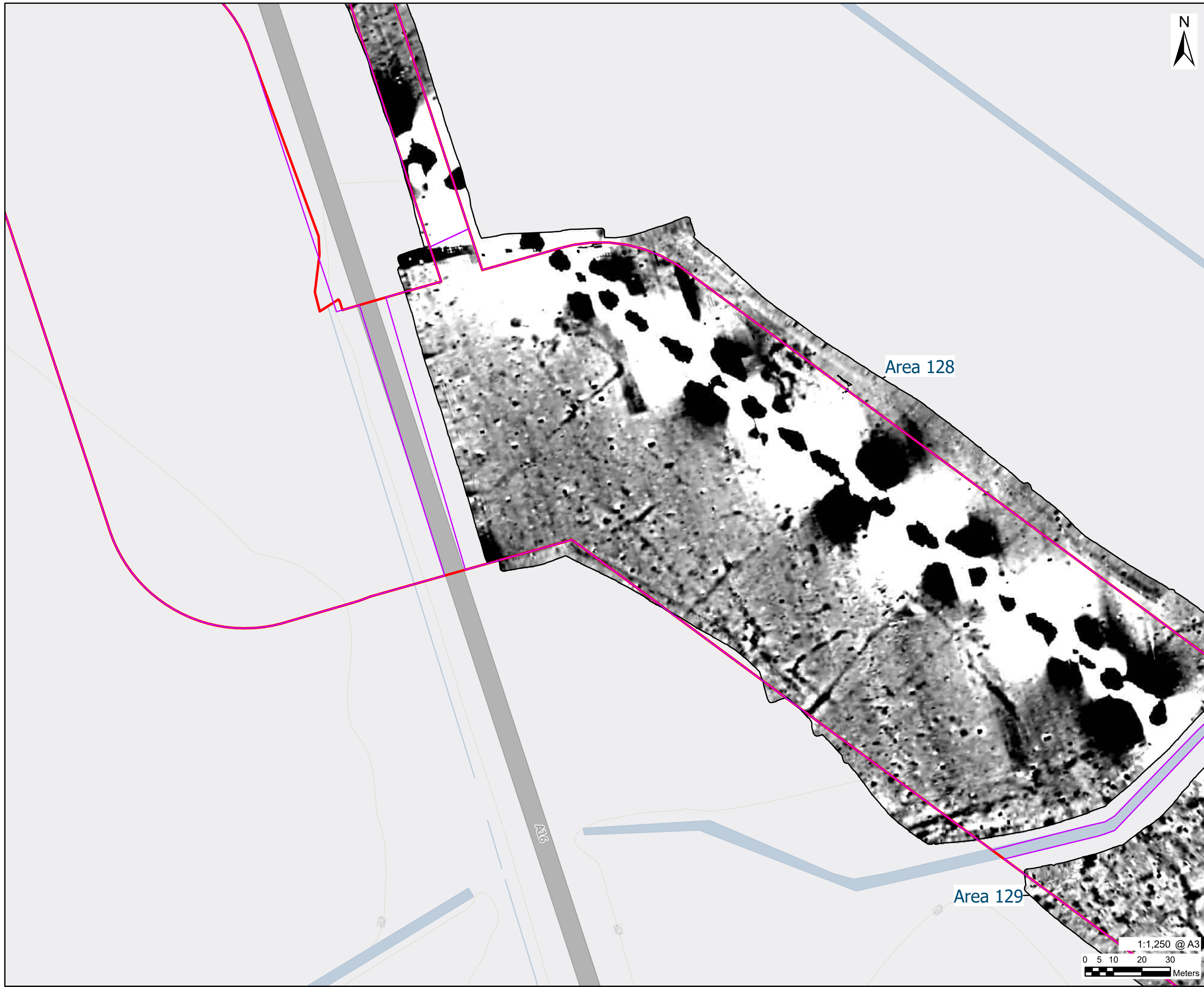
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FIGURE TITLE
Figure 4-85
Processed Gradiometer Data
Detailed Greyscale Image

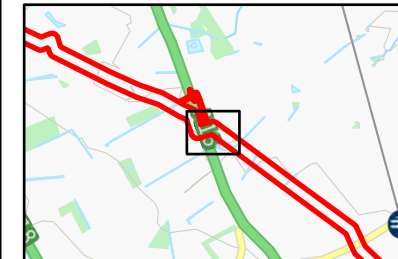
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-85



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FIGURE TITLE

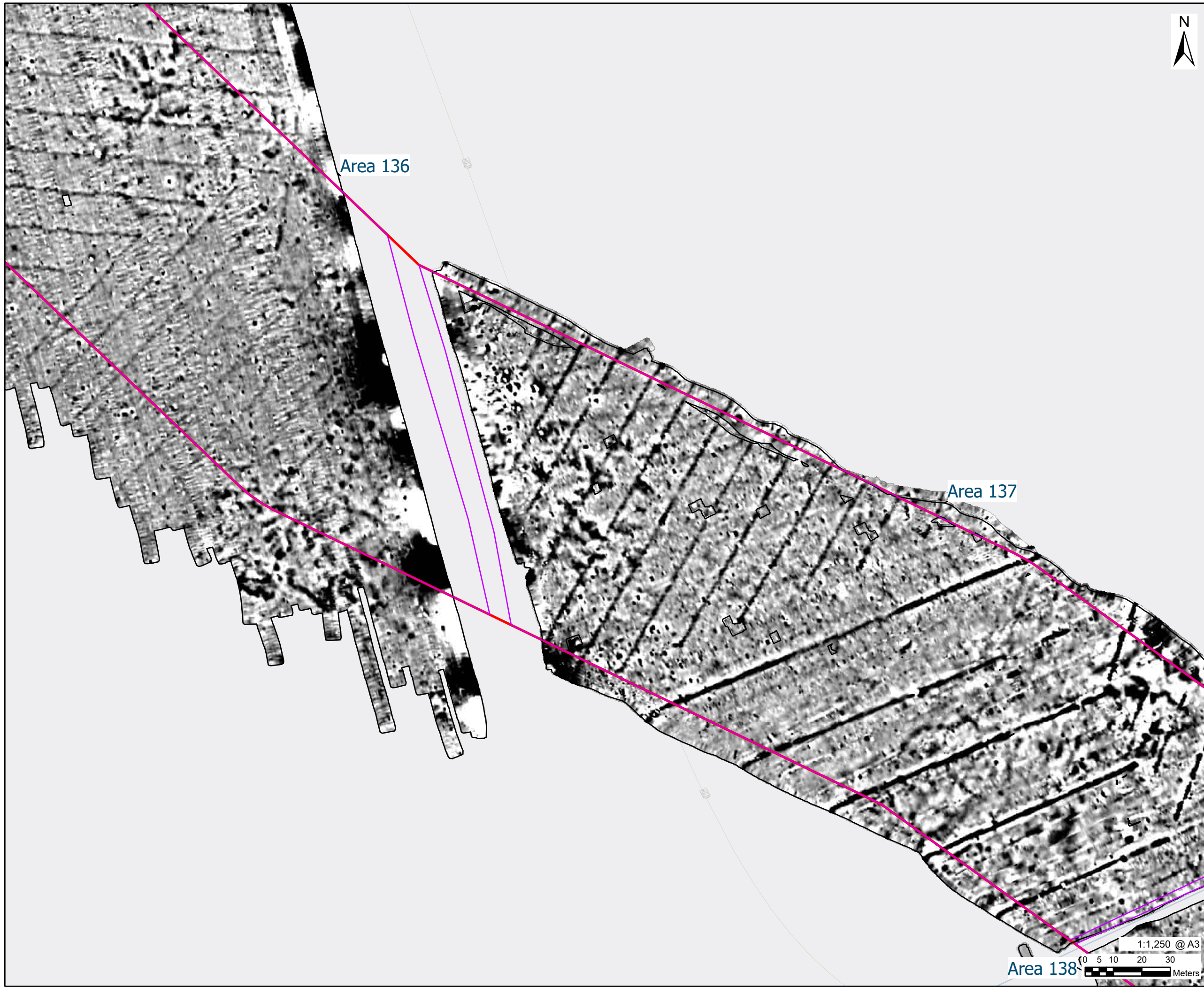
Figure 4-88
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

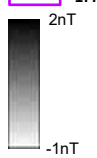
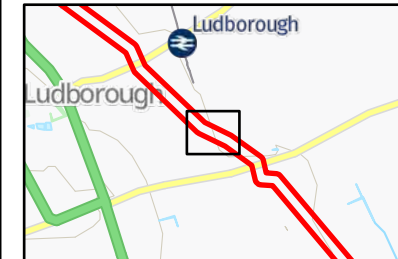
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-88



LEGEND

- Updated Redline
- Initial Redline

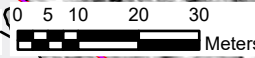



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FIGURE TITLE
Figure 4-94
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-94

1:1,250 @ A3

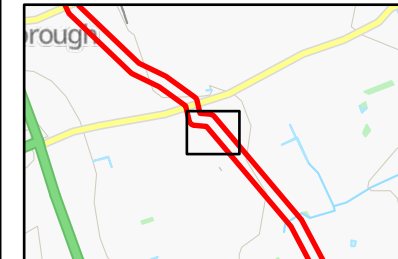


Meters

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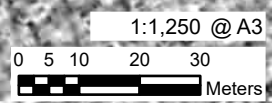
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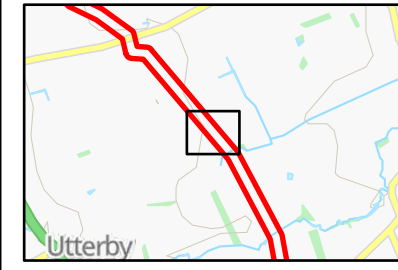
FIGURE TITLE
**Figure 4-96
Processed Gradiometer Data
Detailed Greyscale Image**

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-96





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FIGURE TITLE

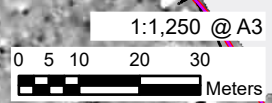
Figure 4-98
Processed Gradiometer Data
Detailed Greyscale Image

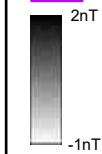
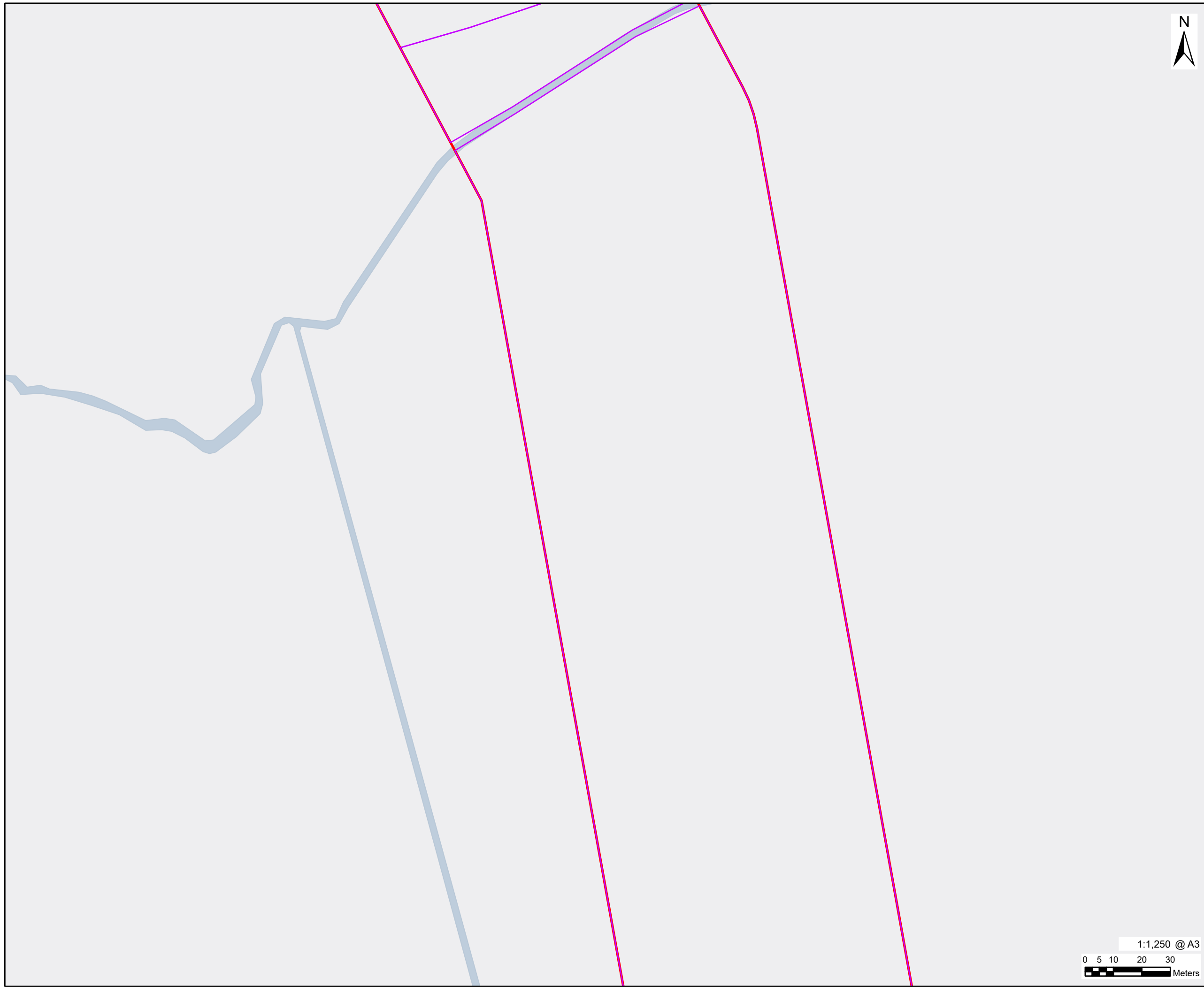
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

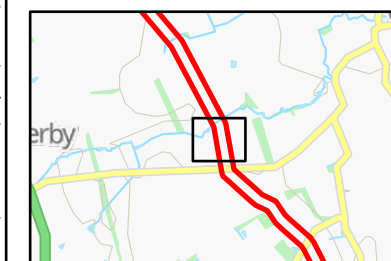
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-98





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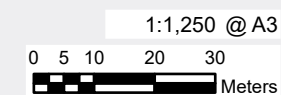


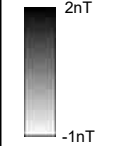
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FIGURE TITLE
Figure 4-101
Processed Gradiometer Data
Detailed Greyscale Image

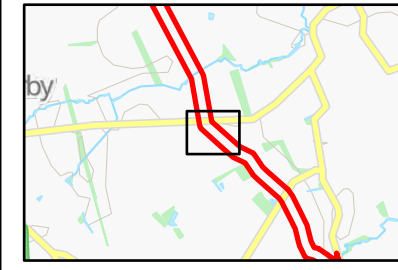
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-101





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FIGURE TITLE
Figure 4-102
Processed Gradiometer Data
Detailed Greyscale Image

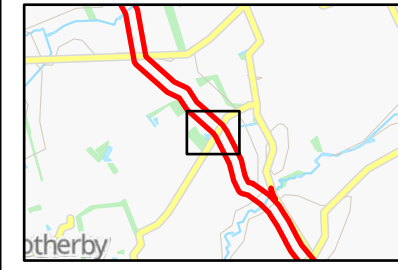
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-102



- LEGEND
-  Updated Redline
 -  Initial Redline



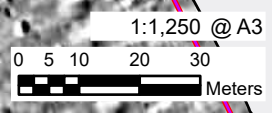
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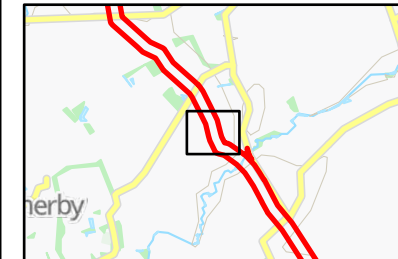
FIGURE TITLE
Figure 4-104
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-104





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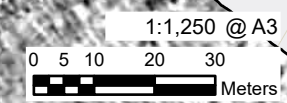


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FIGURE TITLE
Figure 4-105
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-105

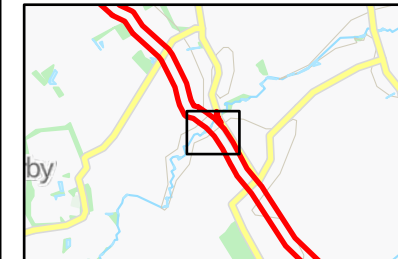




- LEGEND
-  Updated Redline
 -  Initial Redline



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FIGURE TITLE

Figure 4-106
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

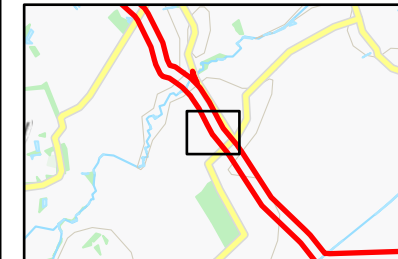
ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-106



- LEGEND
- Updated Redline
 - Initial Redline



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FIGURE TITLE

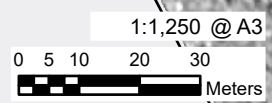
Figure 4-107
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

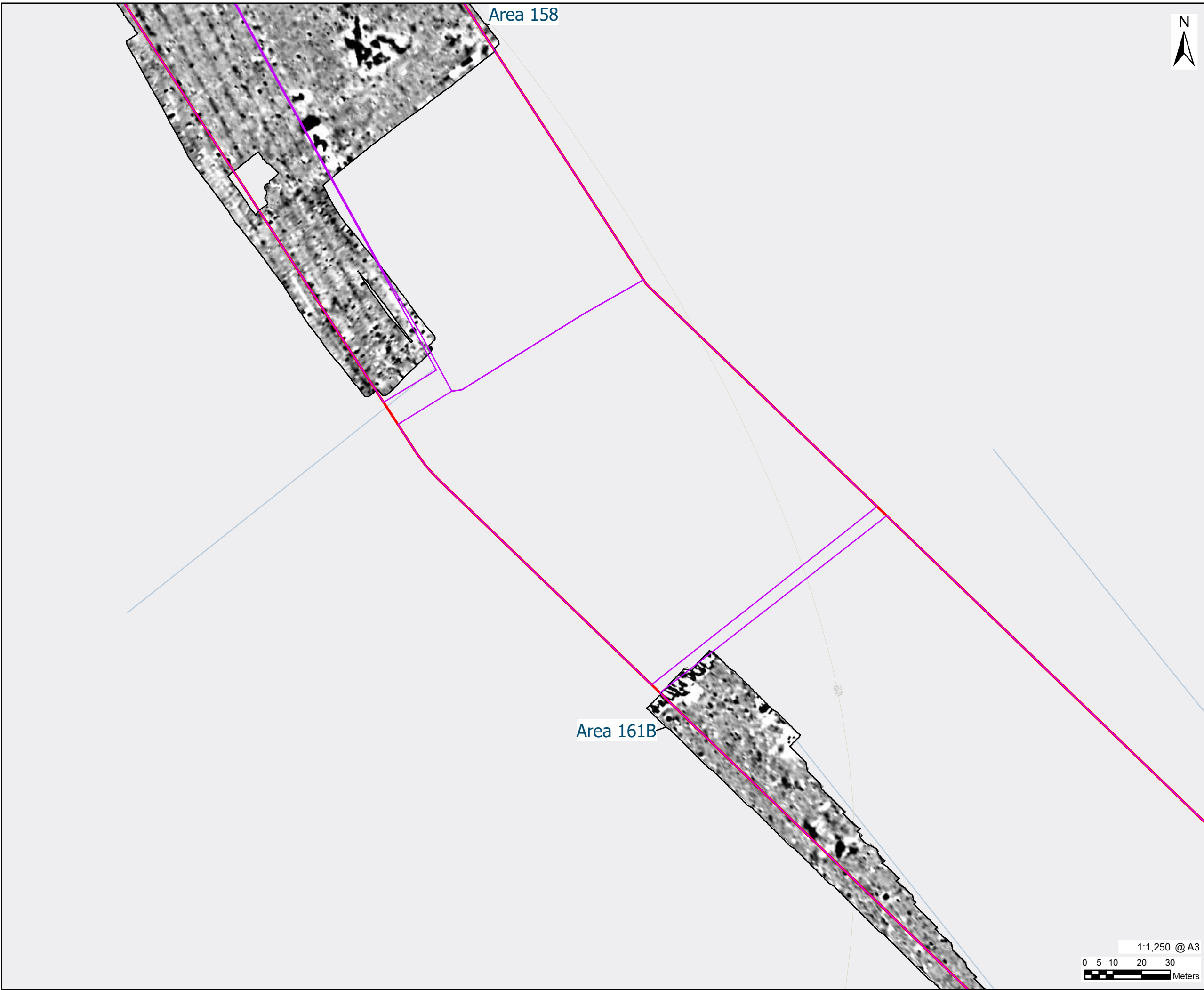
ARCHAEOLOGICAL GEOPHYSICAL SURVEY



PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-107



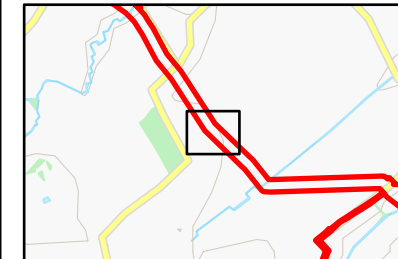
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- LEGEND
-  Updated Redline
 -  Initial Redline



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FIGURE TITLE

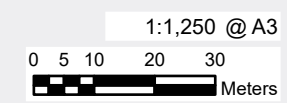
Figure 4-109
Processed Gradiometer Data
Detailed Greyscale Image

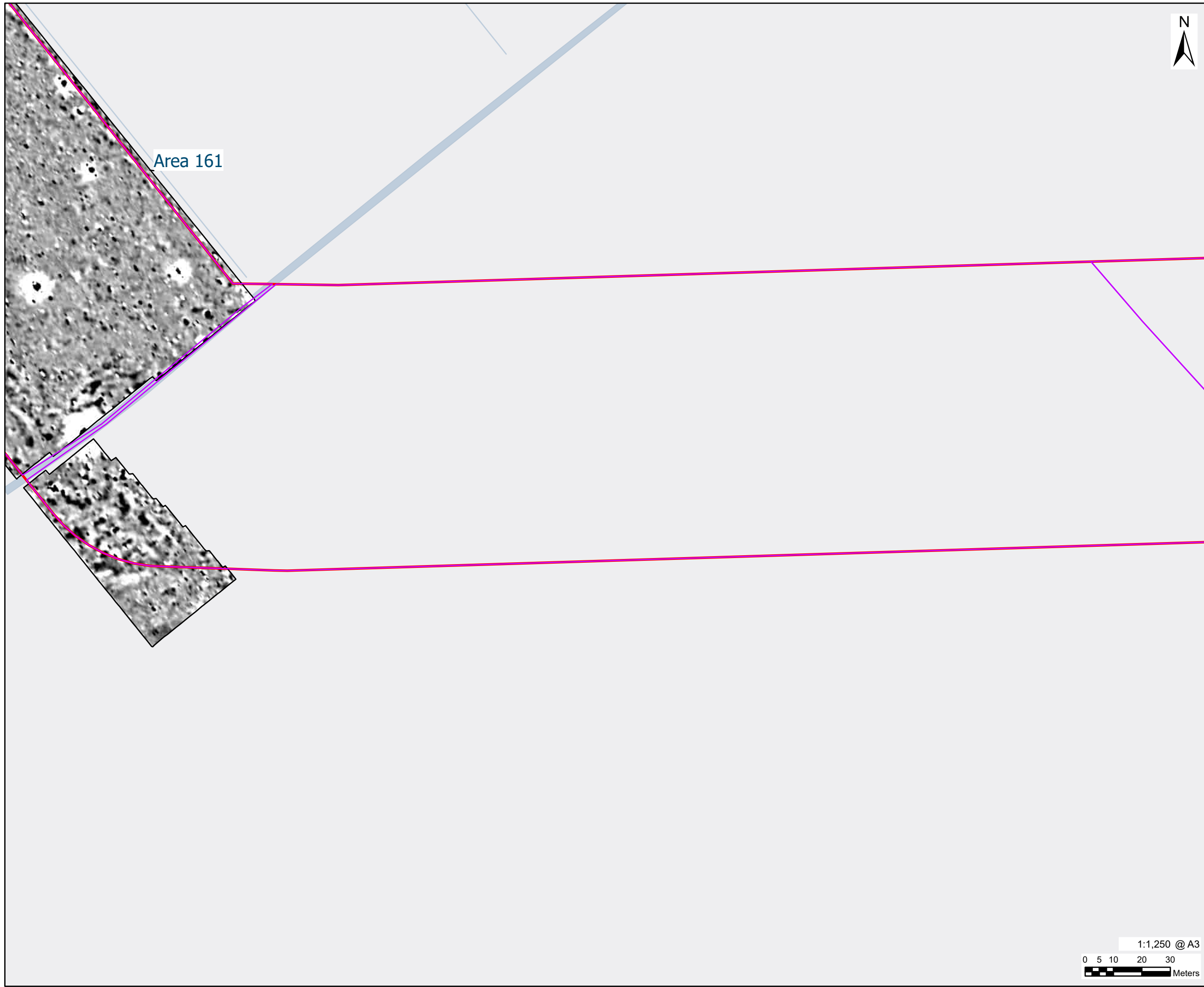
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

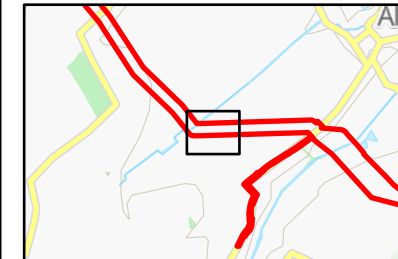
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-109





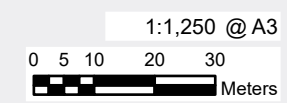
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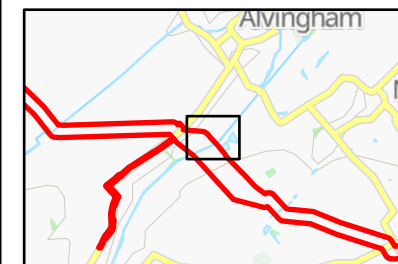
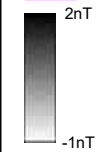
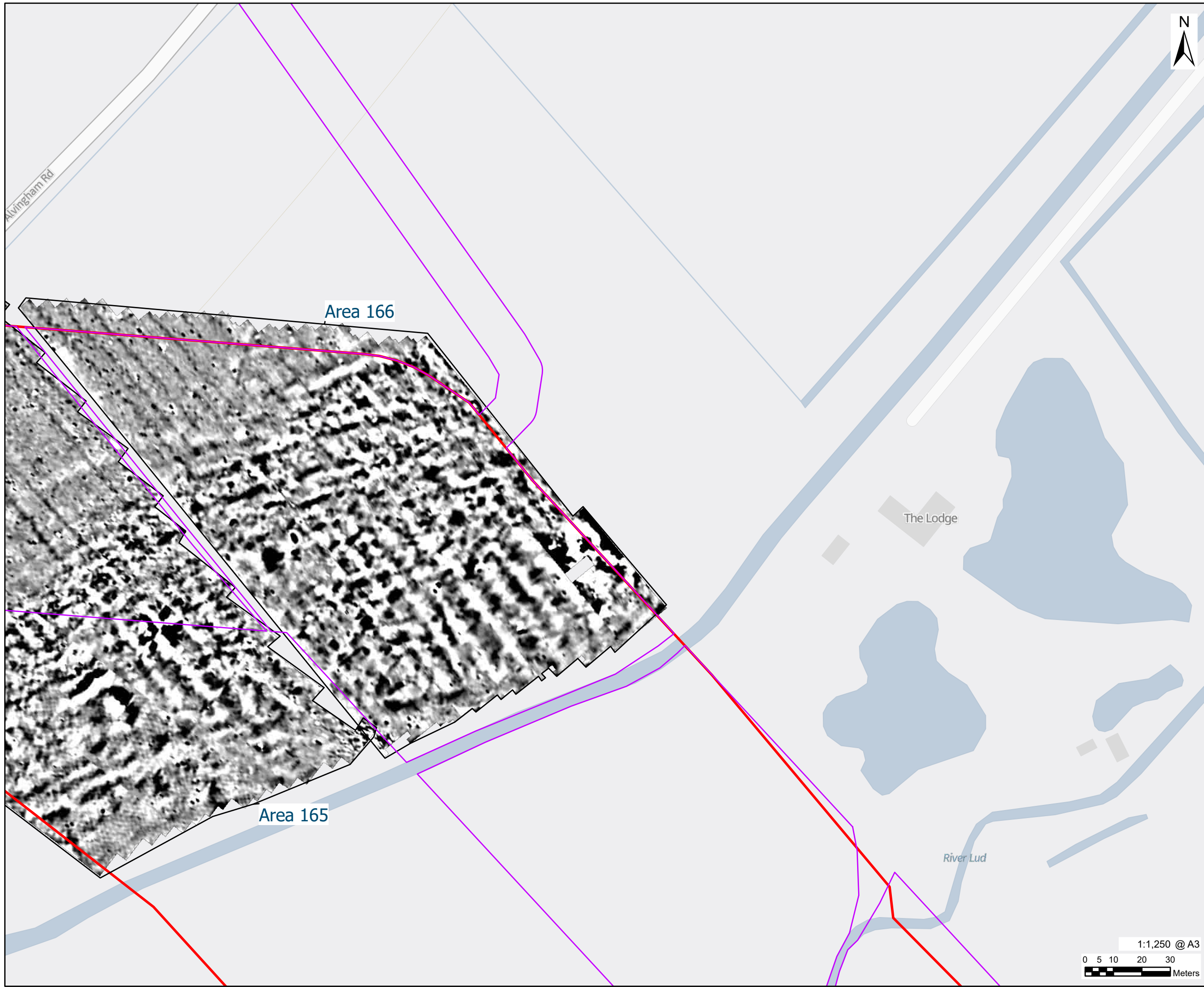


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FIGURE TITLE
Figure 4-111
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-111

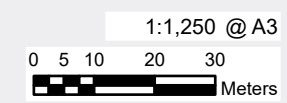




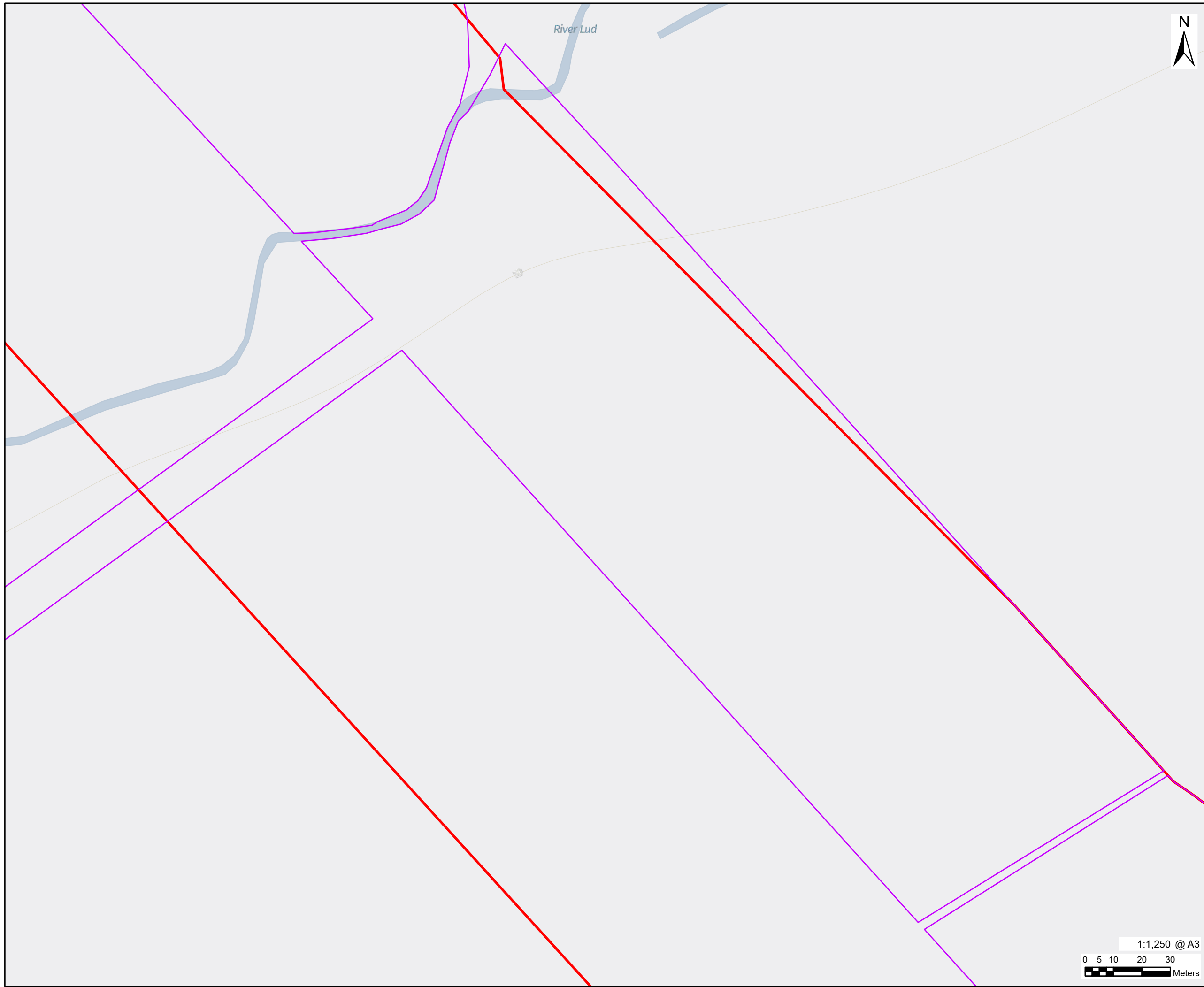
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FIGURE TITLE
Figure 4-114
 Processed Gradiometer Data
 Detailed Greyscale Image

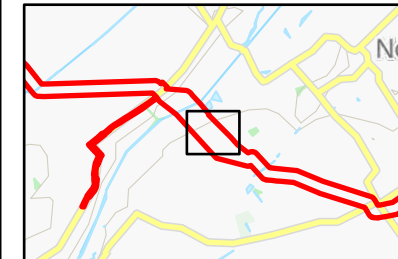
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_4-114



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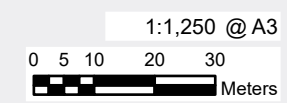
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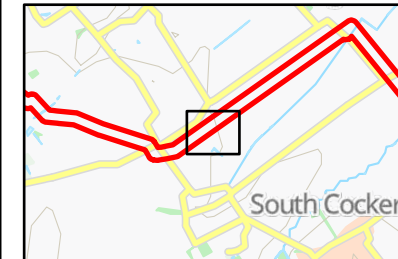
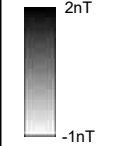


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FIGURE TITLE
Figure 4-117
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-117





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FIGURE TITLE

Figure 4-120
 Processed Gradiometer Data
 Detailed Greyscale Image

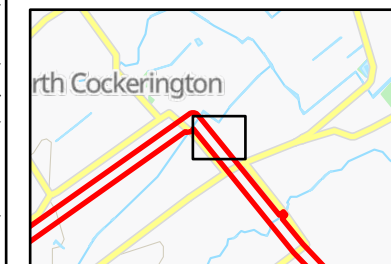
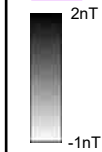
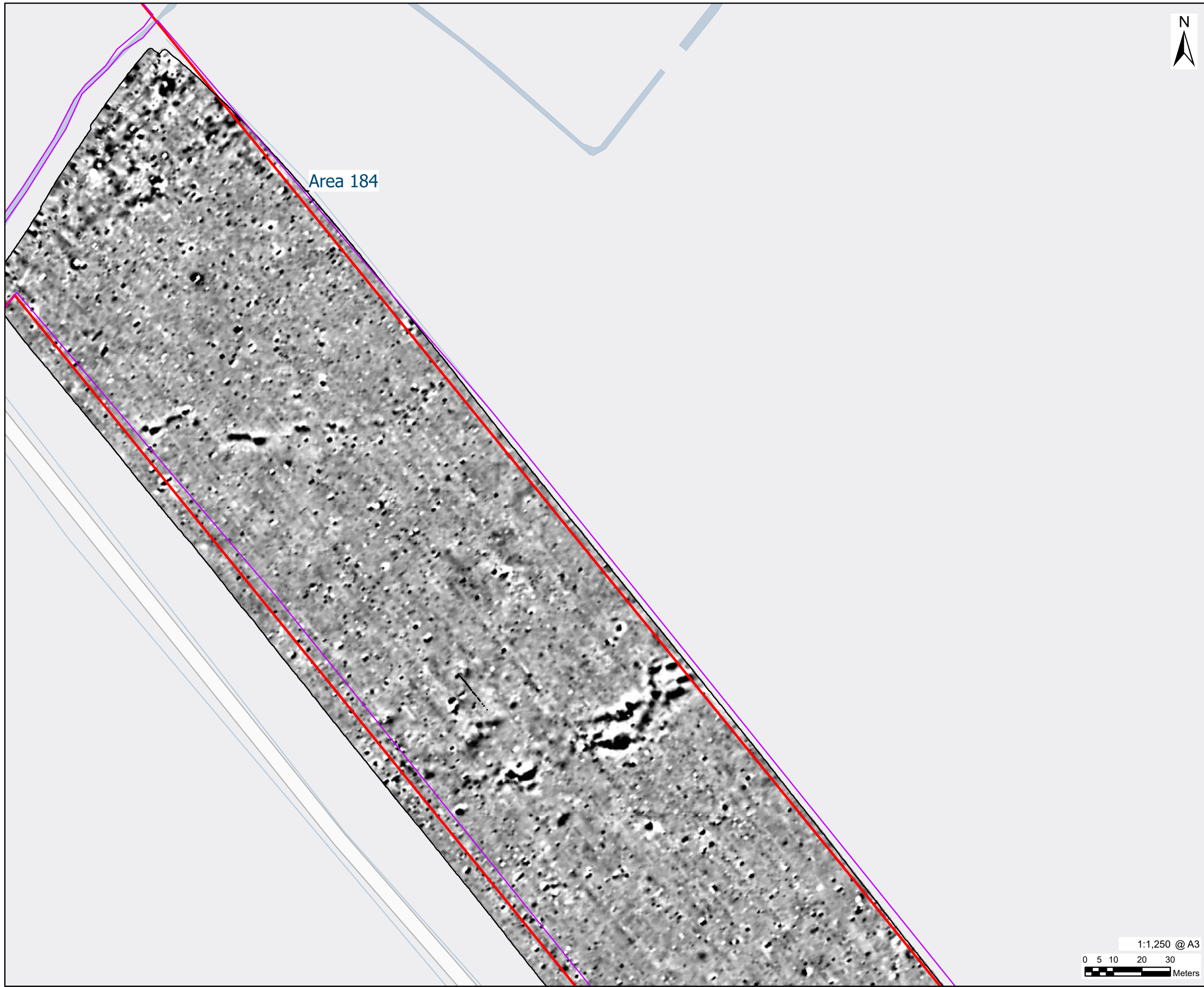
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-120

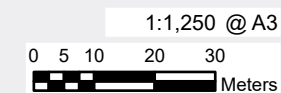
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FIGURE TITLE
Figure 4-124
Processed Gradiometer Data
Detailed Greyscale Image



ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-124




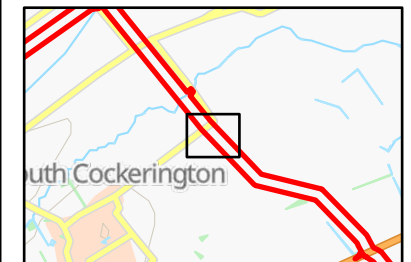
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LEGEND

-  Updated Redline
-  Initial Redline

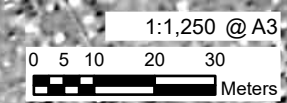
 2nT
-1nT



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FIGURE TITLE
Figure 4-127
Processed Gradiometer Data
Detailed Greyscale Image



ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-127




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LEGEND

-  Updated Redline
-  Initial Redline




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FIGURE TITLE

Figure 4-132
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-132

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FIGURE TITLE

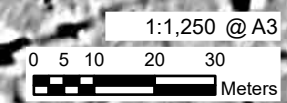
Figure 4-133
 Processed Gradiometer Data
 Detailed Greyscale Image

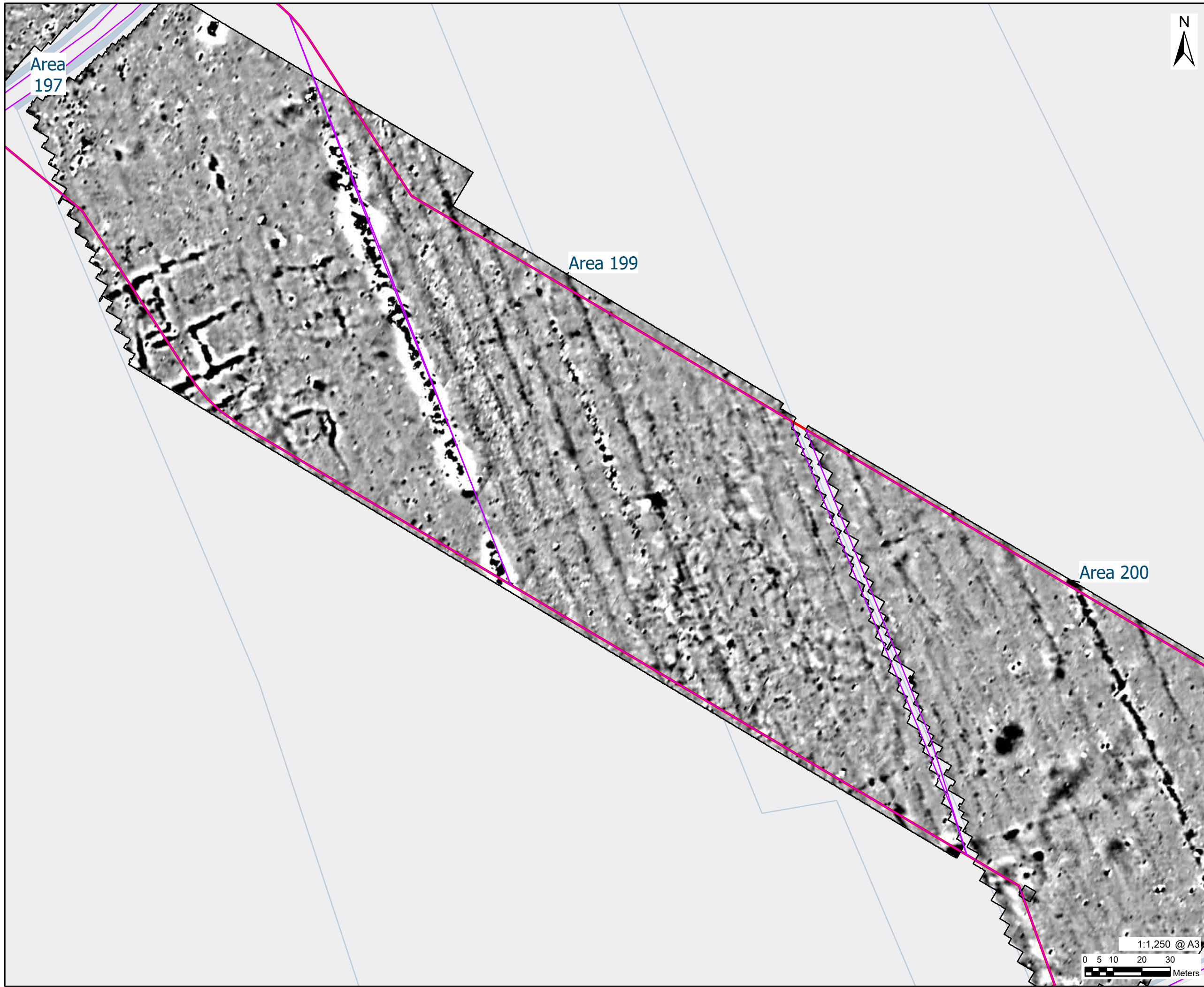
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

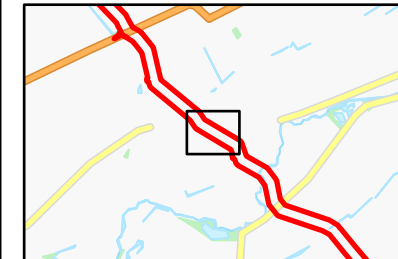
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-133





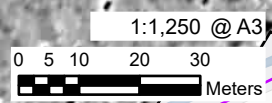
- LEGEND
- Updated Redline
 - Initial Redline



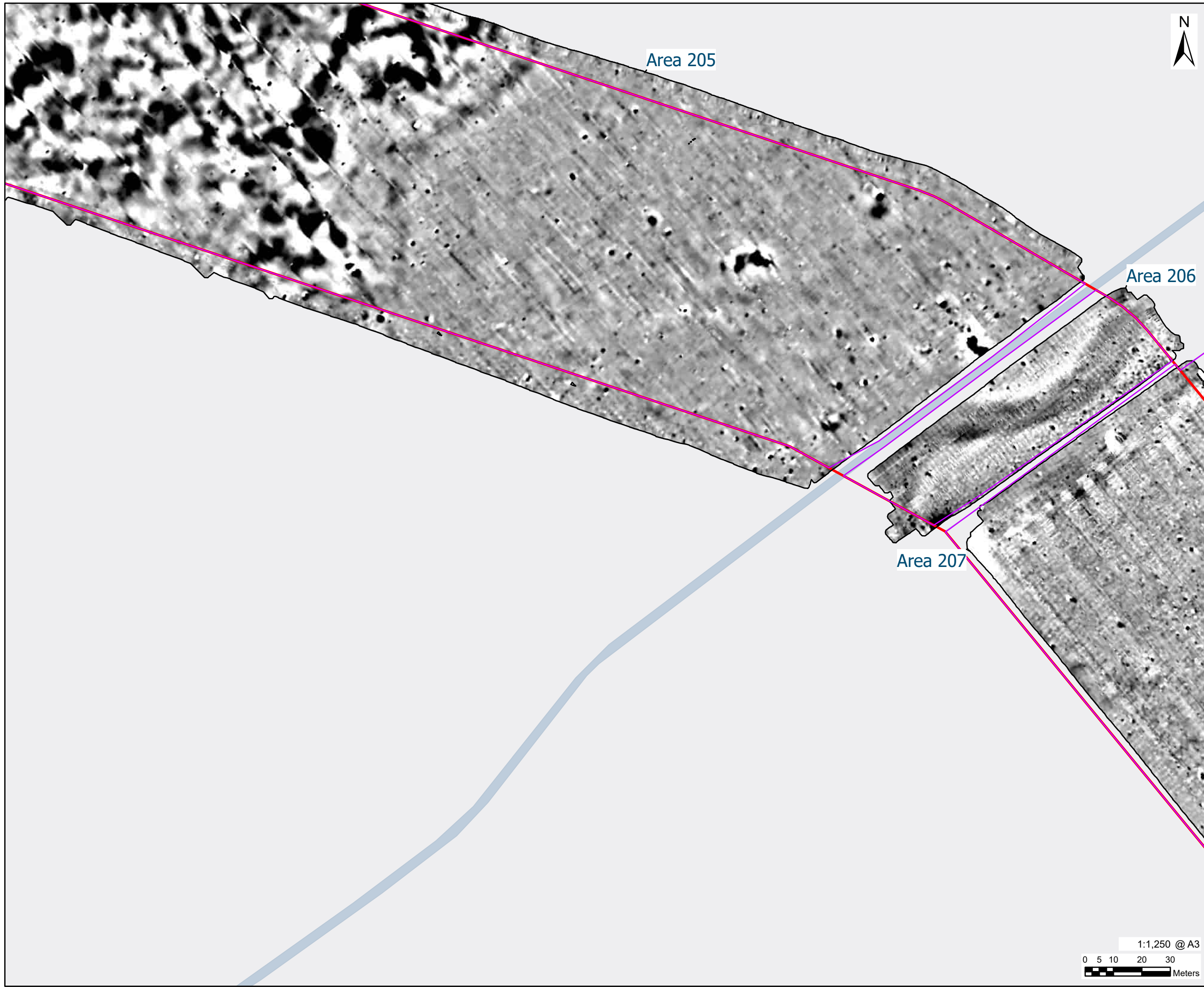
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FIGURE TITLE
Figure 4-134
Processed Gradiometer Data
Detailed Greyscale Image

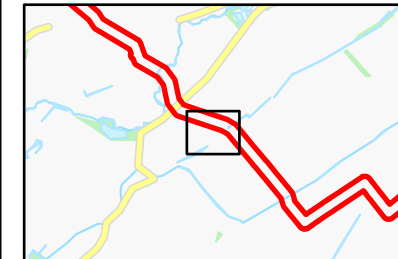
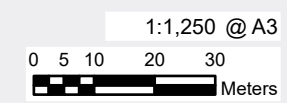
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-134



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FIGURE TITLE
Figure 4-137
Processed Gradiometer Data
Detailed Greyscale Image

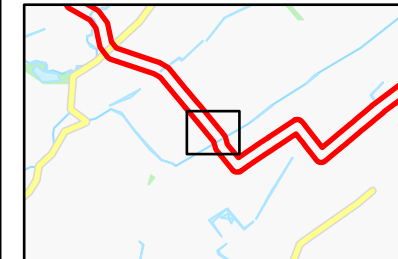
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-137



LEGEND

- Updated Redline
- Initial Redline

2nT
-1nT



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FIGURE TITLE

Figure 4-139
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

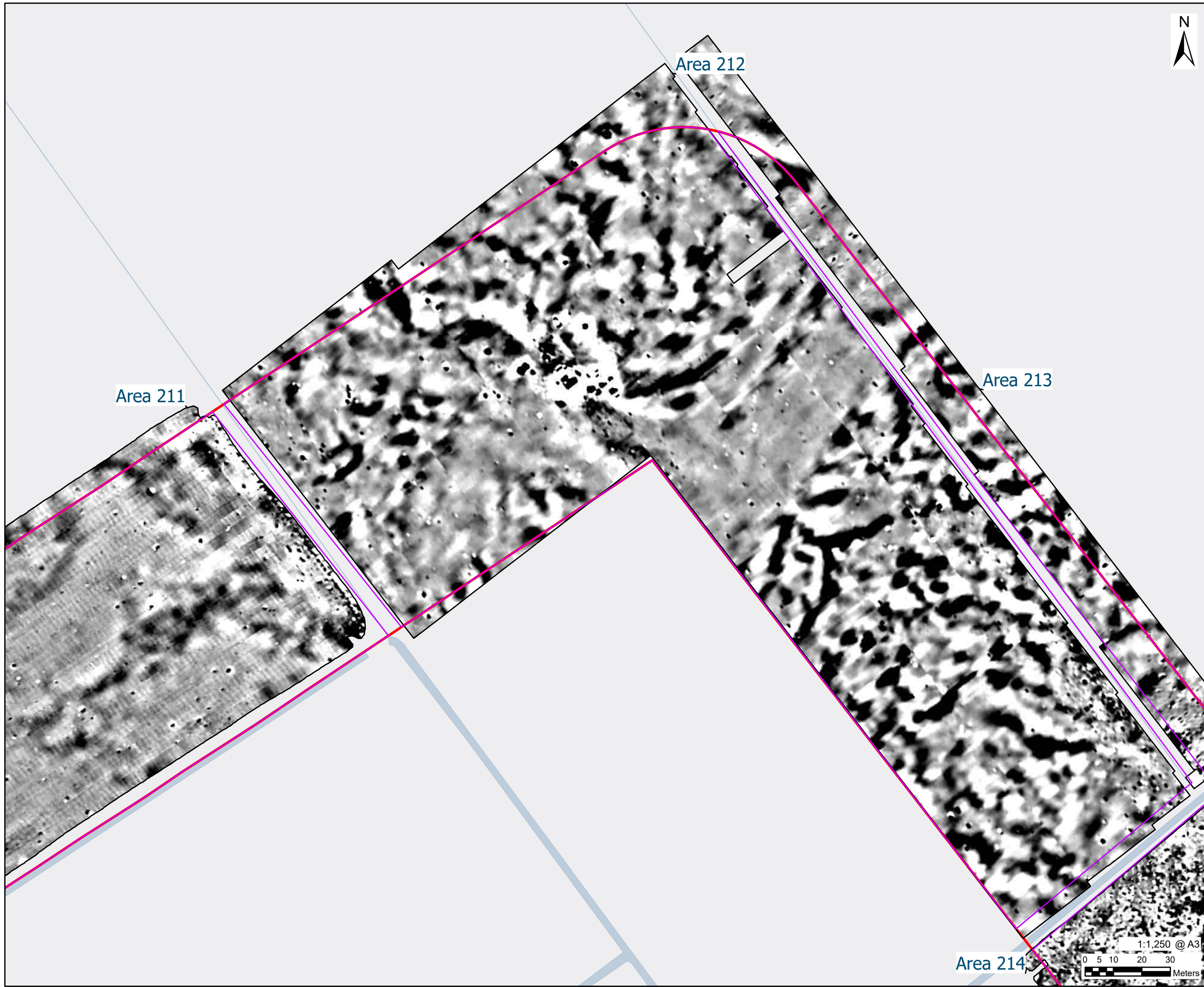
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-139

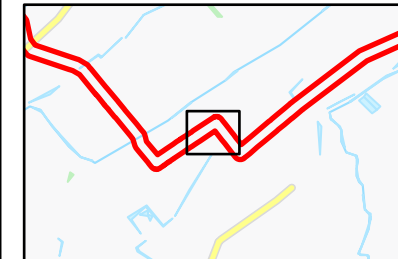
1:1,250 @ A3

Meters

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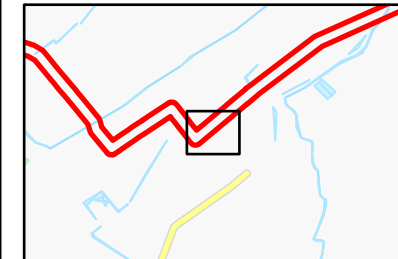
FIGURE TITLE
Figure 4-141
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-141



LEGEND

- Updated Redline
- Initial Redline



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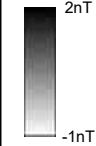
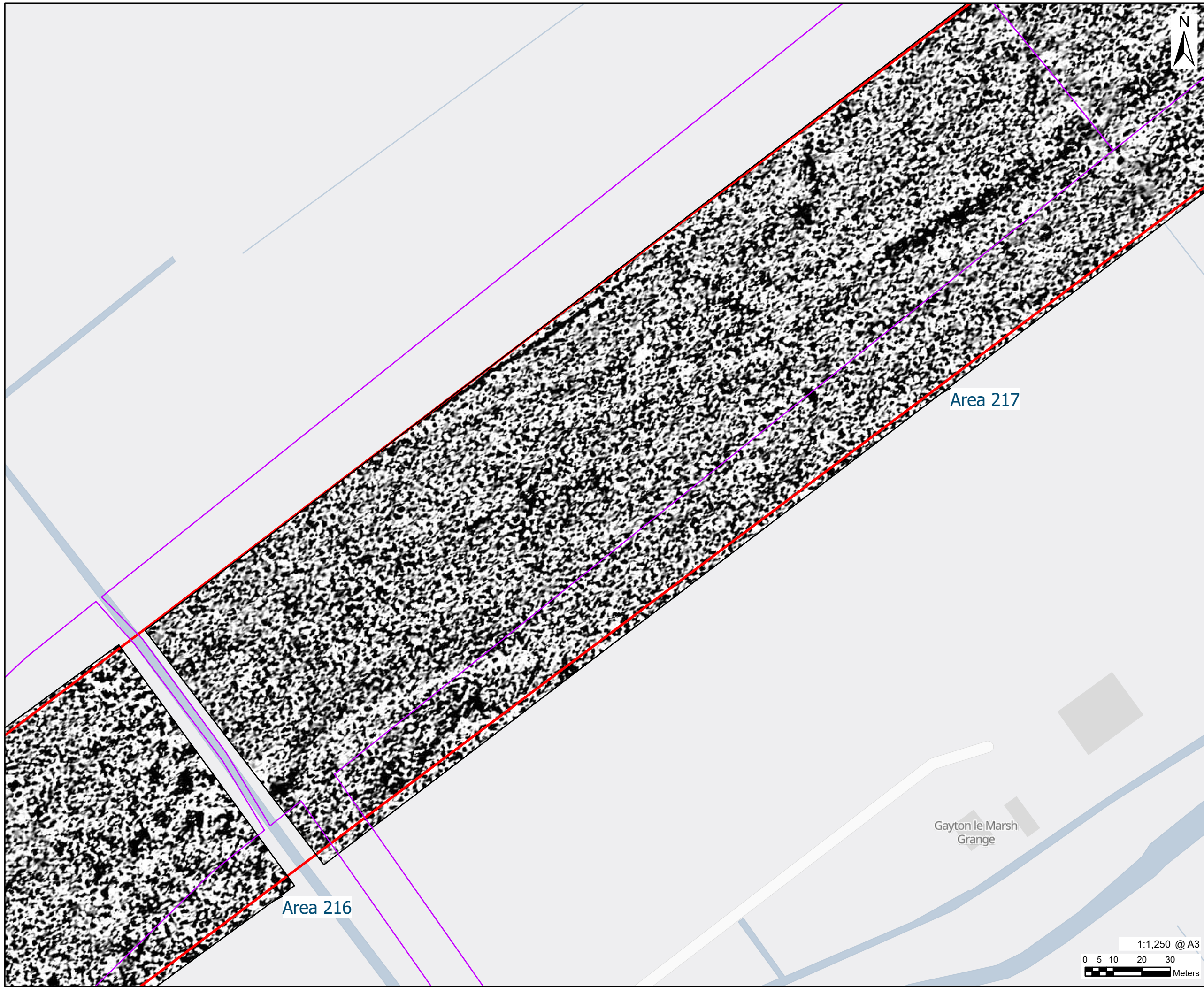
FIGURE TITLE
Figure 4-142
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-142

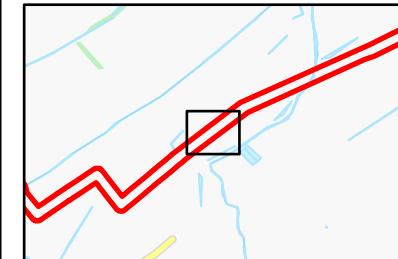
1:1,250 @ A3

0 5 10 20 30
Meters

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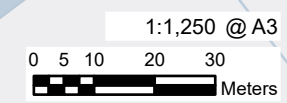
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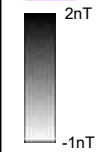
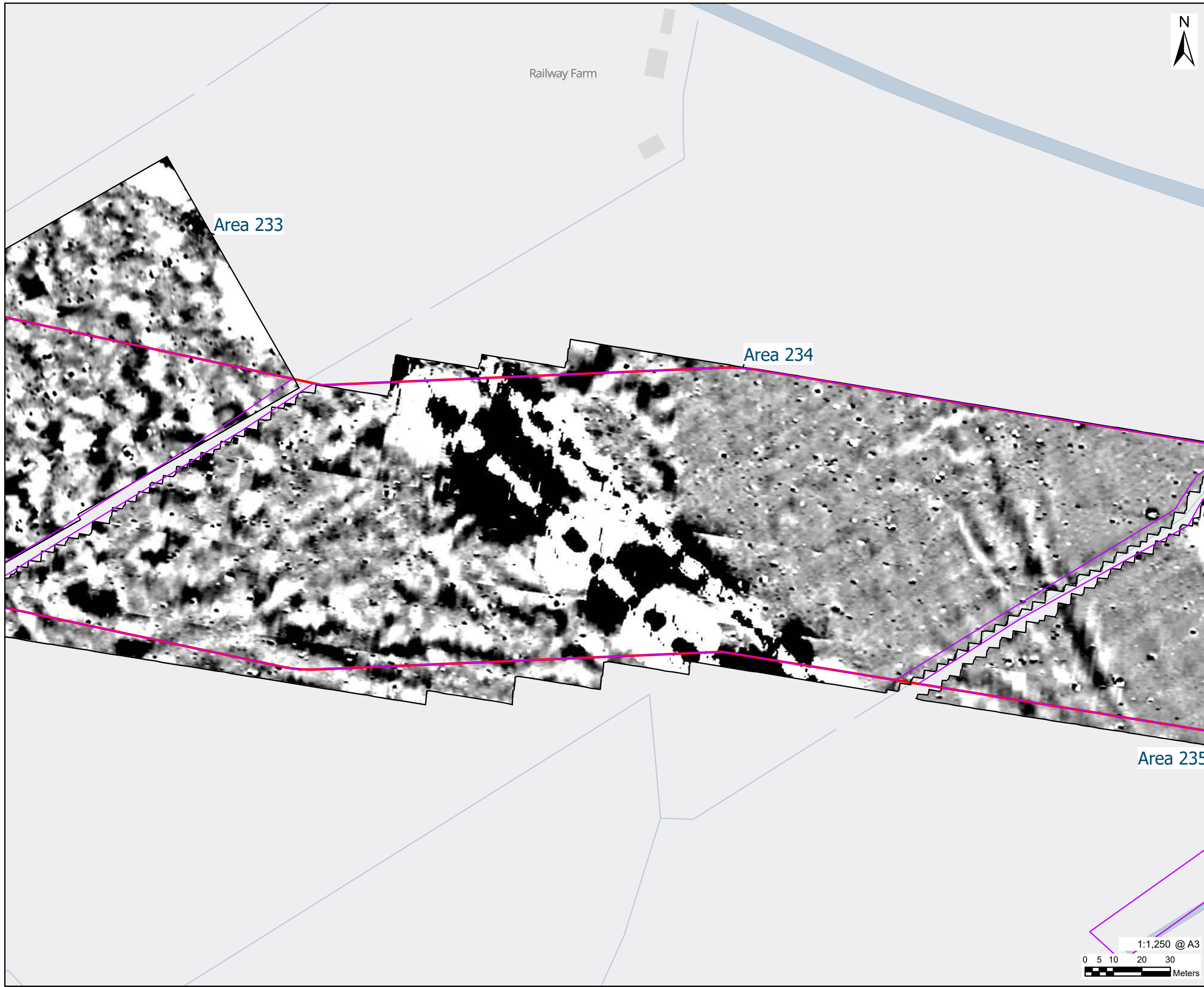


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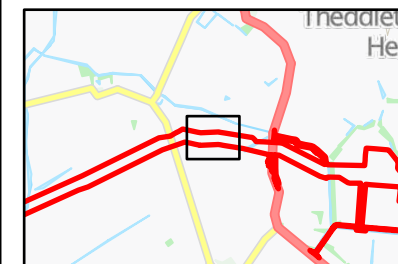
FIGURE TITLE
Figure 4-144
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-144





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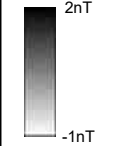
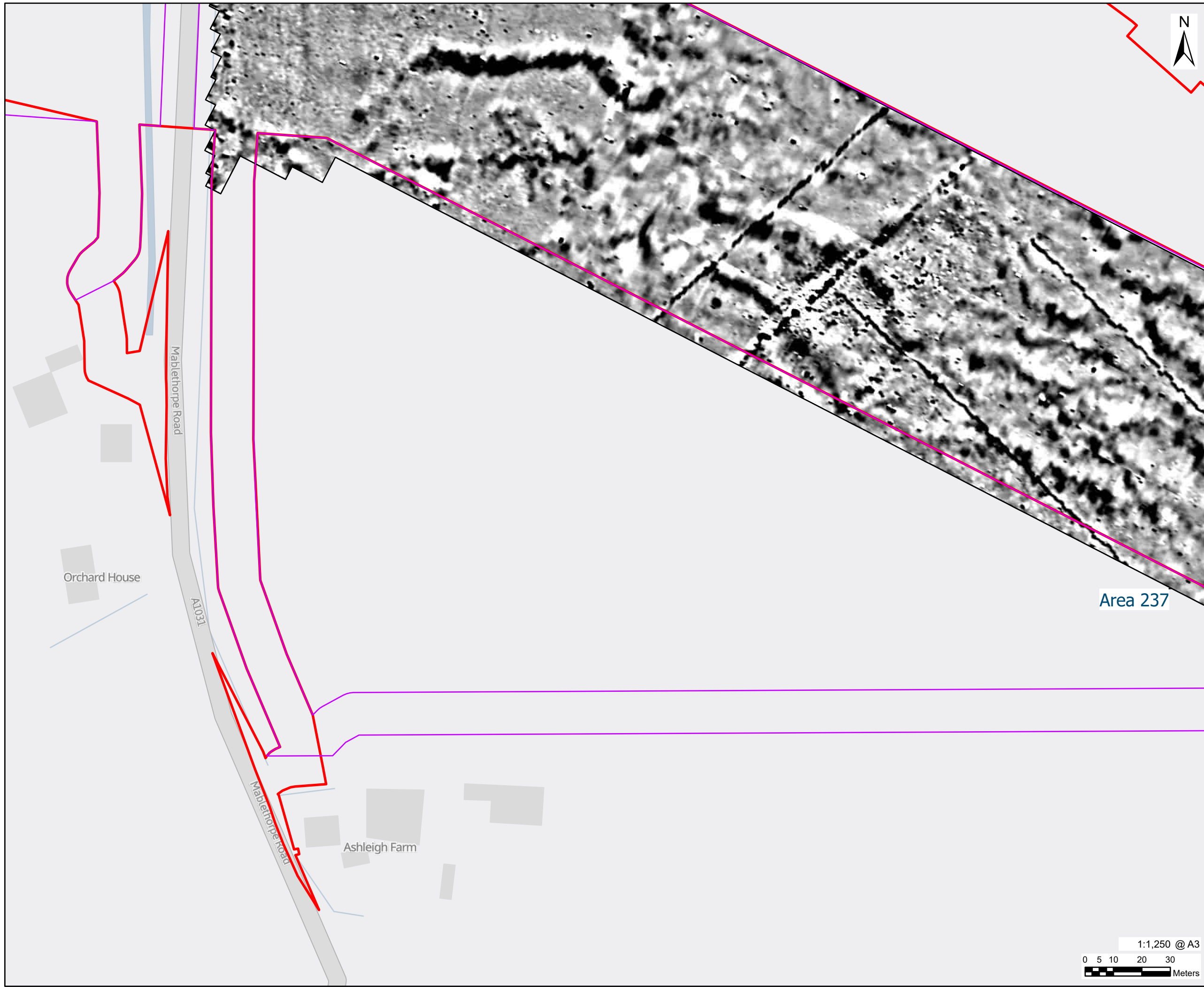


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FIGURE TITLE
Figure 4-150
Processed Gradiometer Data
Detailed Greyscale Image

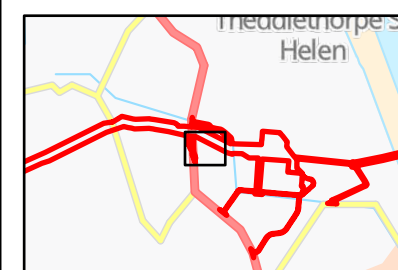
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-150



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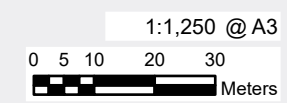
Area 237

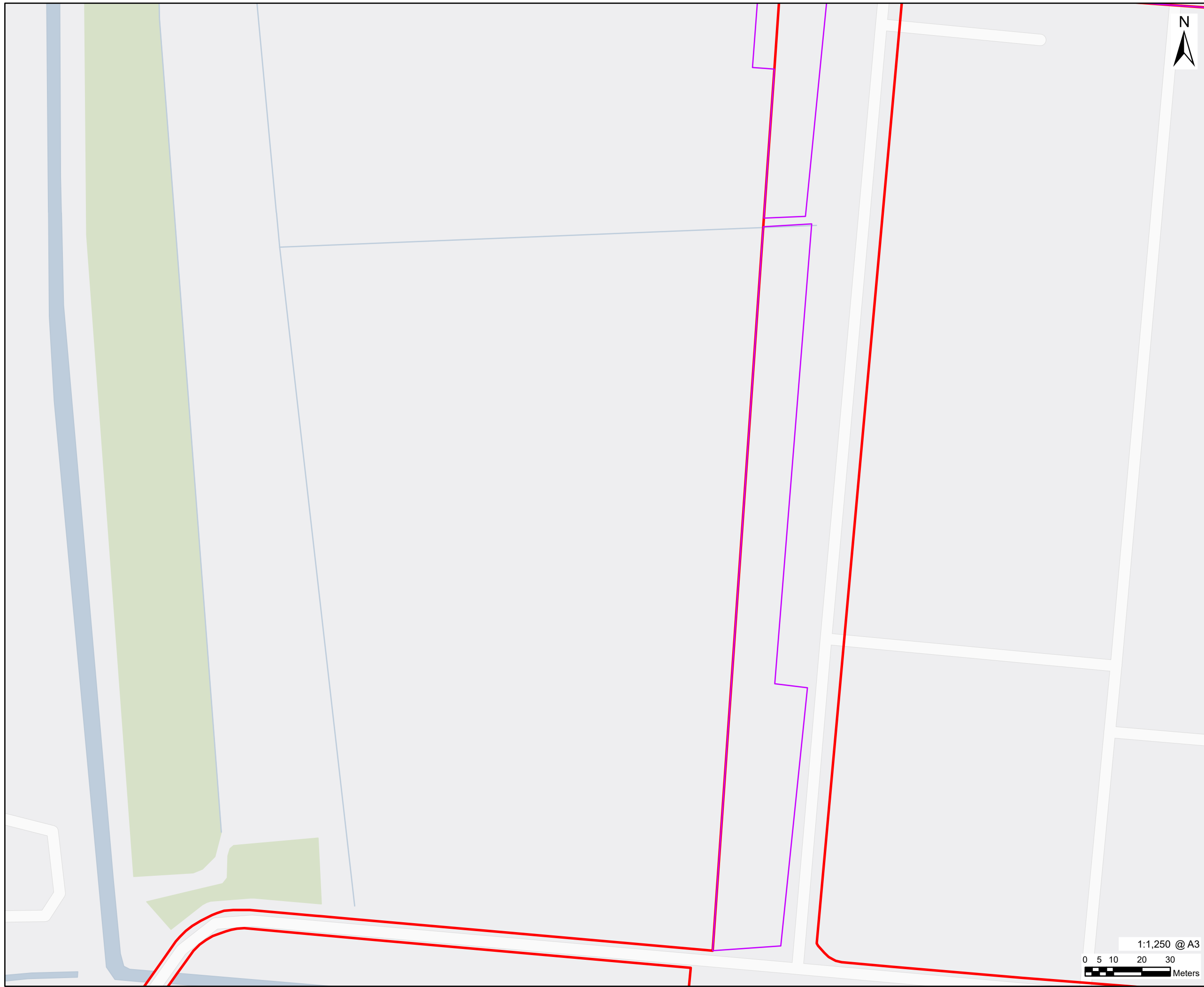


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FIGURE TITLE
Figure 4-152
Processed Gradiometer Data
Detailed Greyscale Image

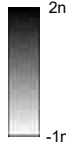
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-152

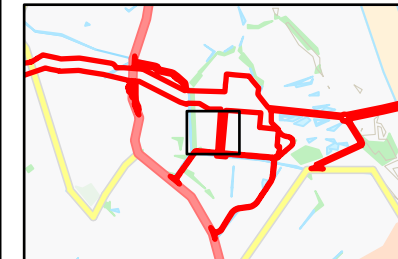




LEGEND

-  Updated Redline
-  Initial Redline

 2nT
-1nT

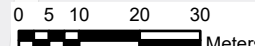


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FIGURE TITLE
Figure 4-155
Processed Gradiometer Data
Detailed Greyscale Image

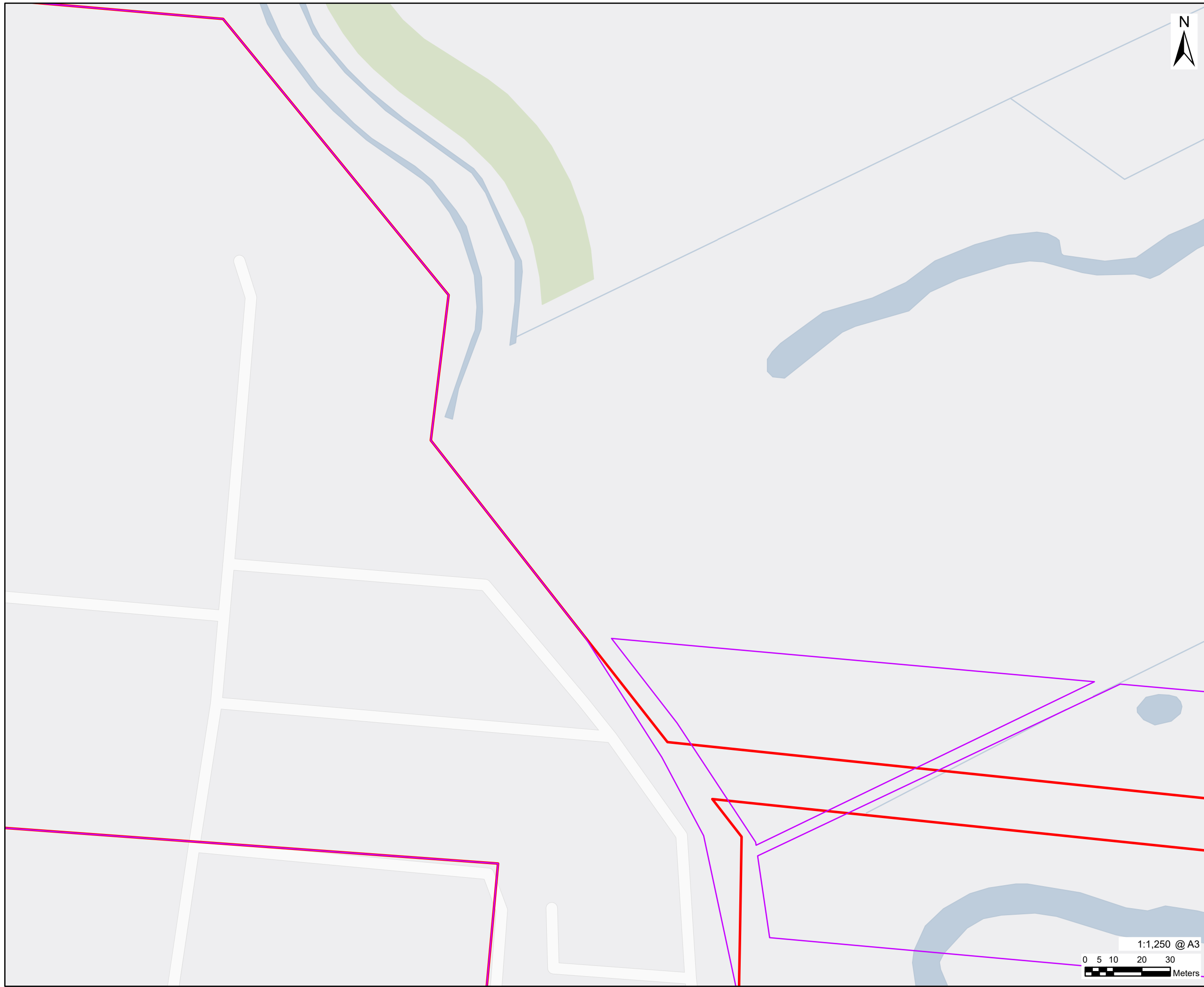
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-155

1:1,250 @ A3



Meters

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FIGURE TITLE

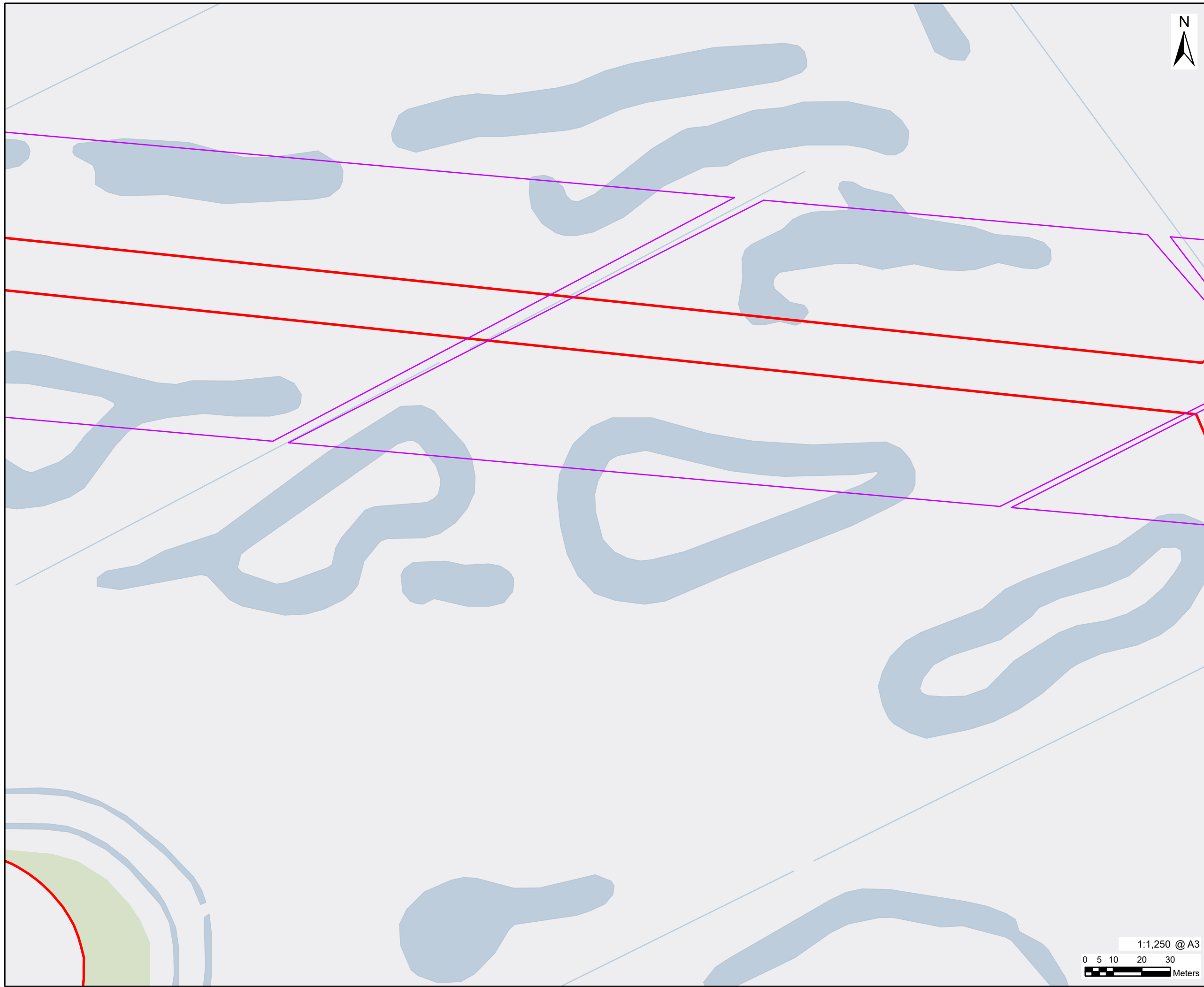
Figure 4-157
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

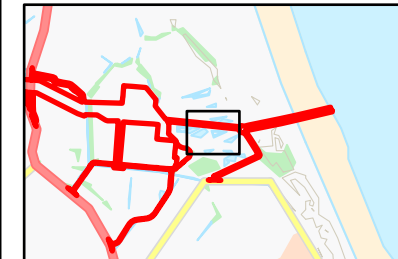
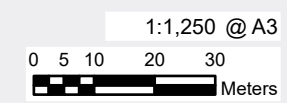
60668955 / VCCS_231212_ES_4-157



- LEGEND
- Updated Redline
 - Initial Redline



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FIGURE TITLE

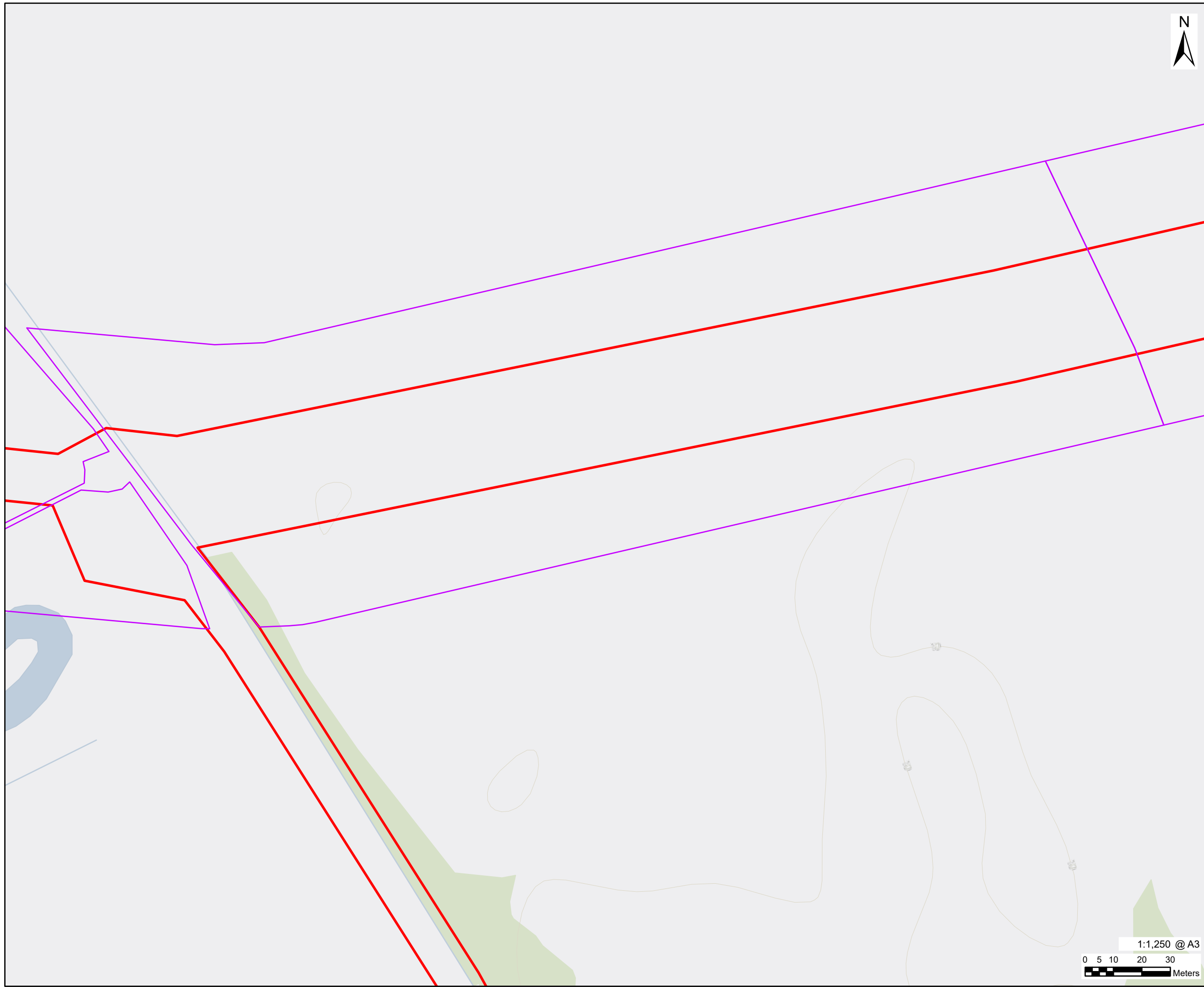
Figure 4-159
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE

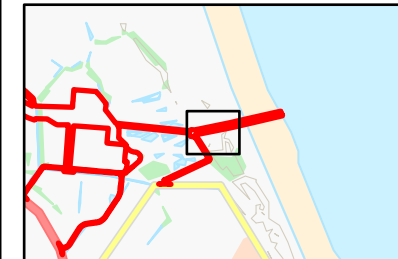
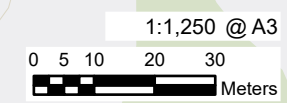
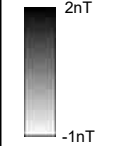
ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_4-159



- LEGEND
- █ Updated Redline
 - █ Initial Redline

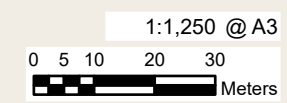
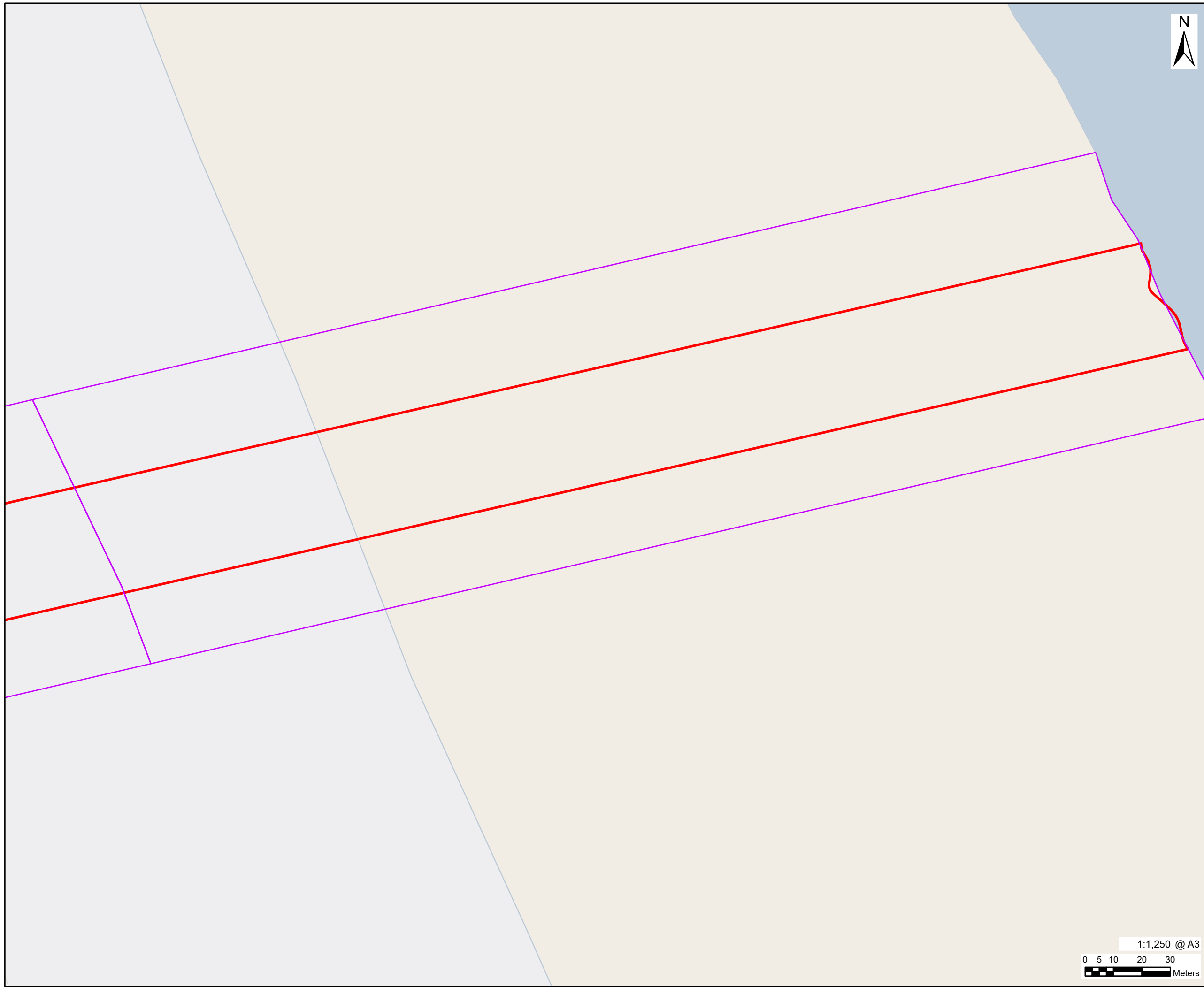


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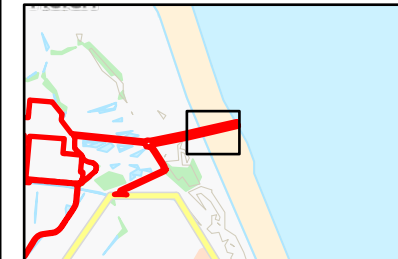
FIGURE TITLE
Figure 4-160
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-160

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FIGURE TITLE
Figure 4-161
Processed Gradiometer Data
Detailed Greyscale Image

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_4-161



- LEGEND
- Initial Redline
 - Updated Redline

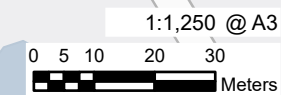


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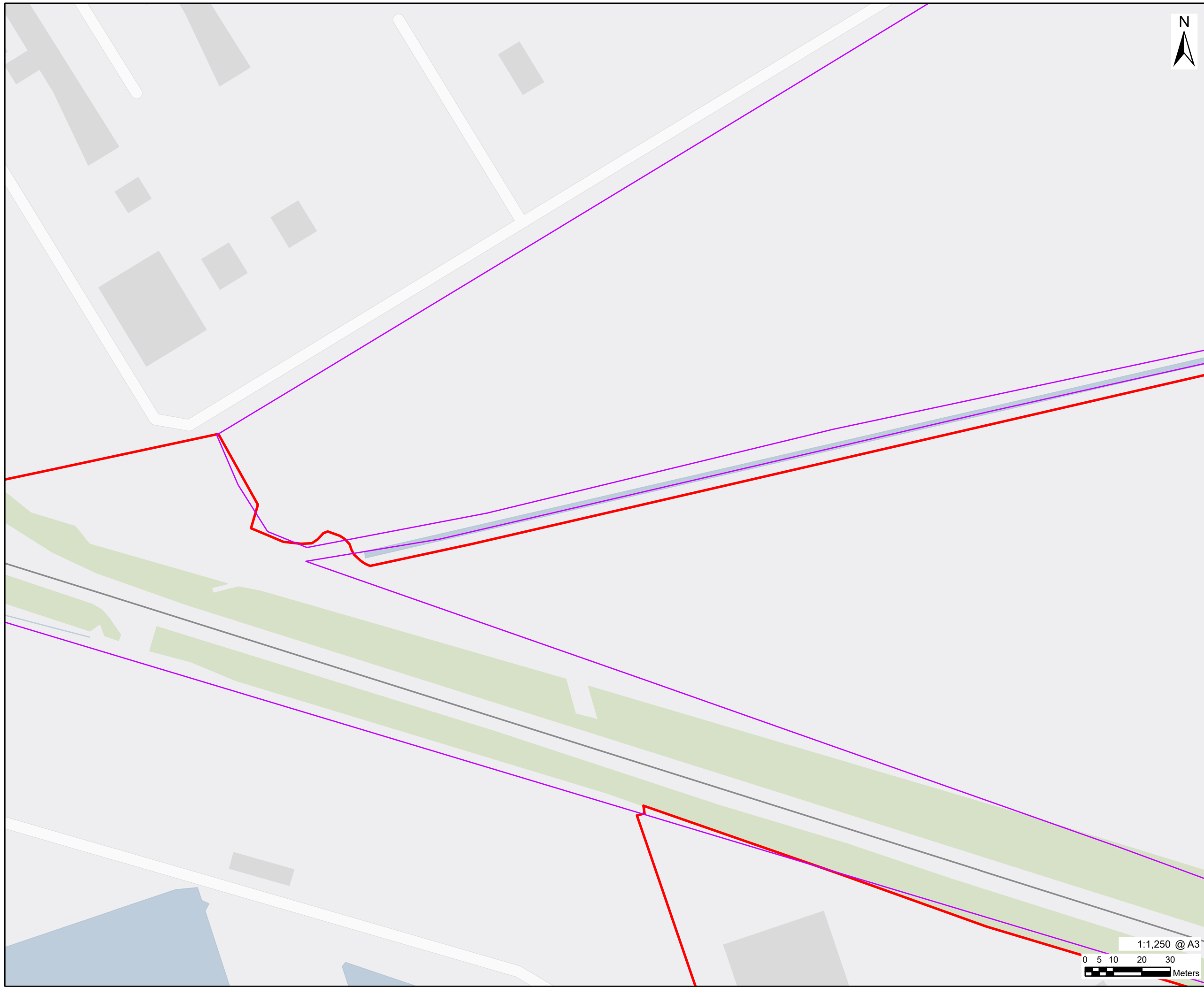
FIGURE TITLE
Figure 5-1
Interpretation of Gradiometer Data
Detailed



ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_5-1

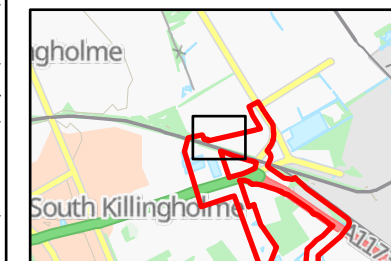


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-  Initial Redline
-  Updated Redline

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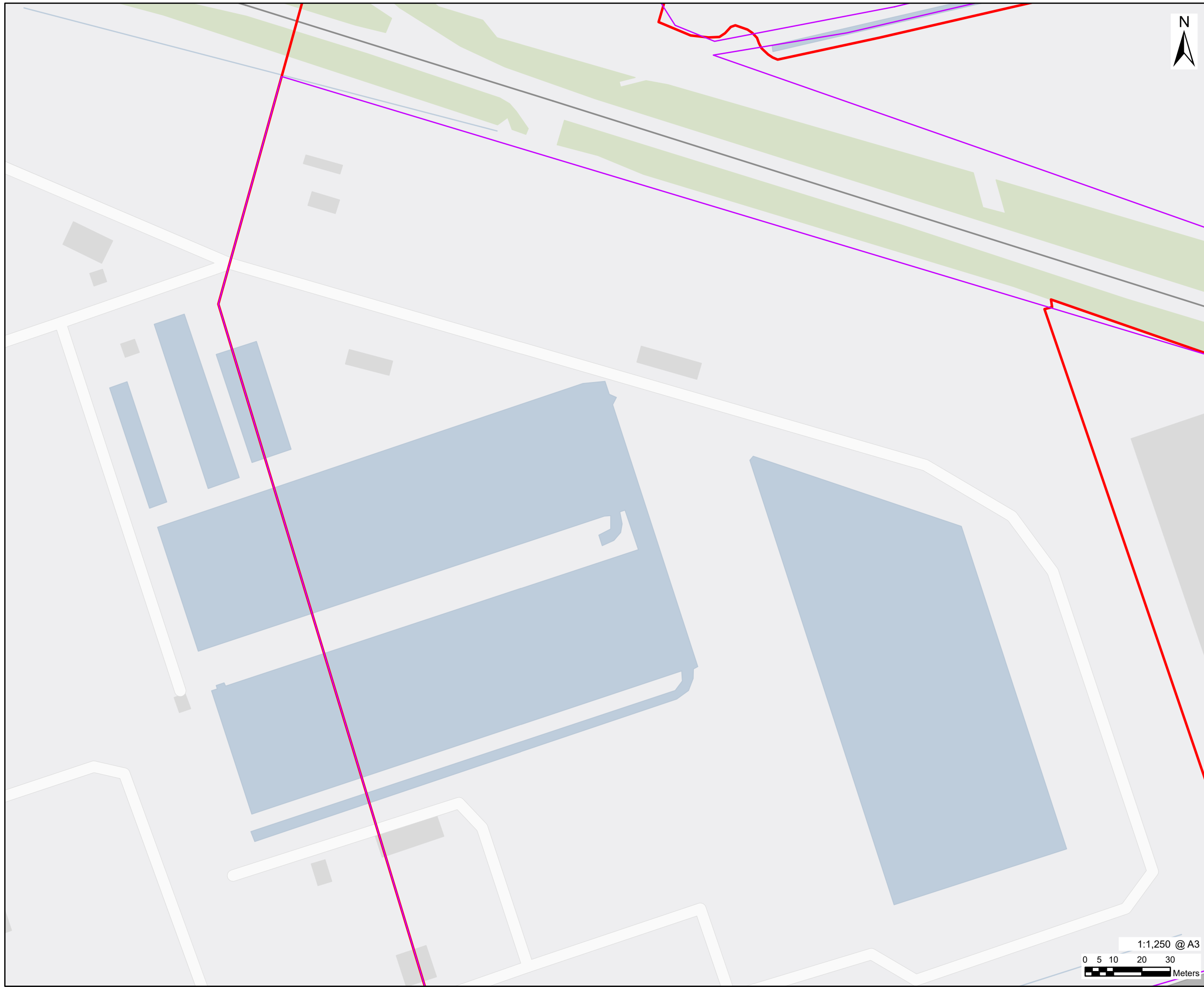
FIGURE TITLE

Figure 5-2
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE

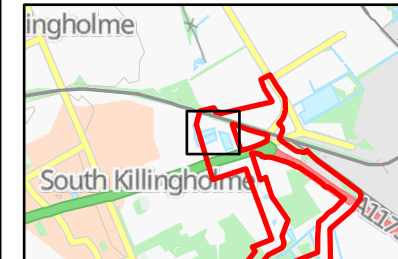
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_5-2



- LEGEND
- Initial Redline
 - Updated Redline

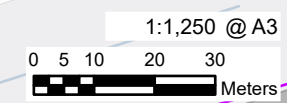
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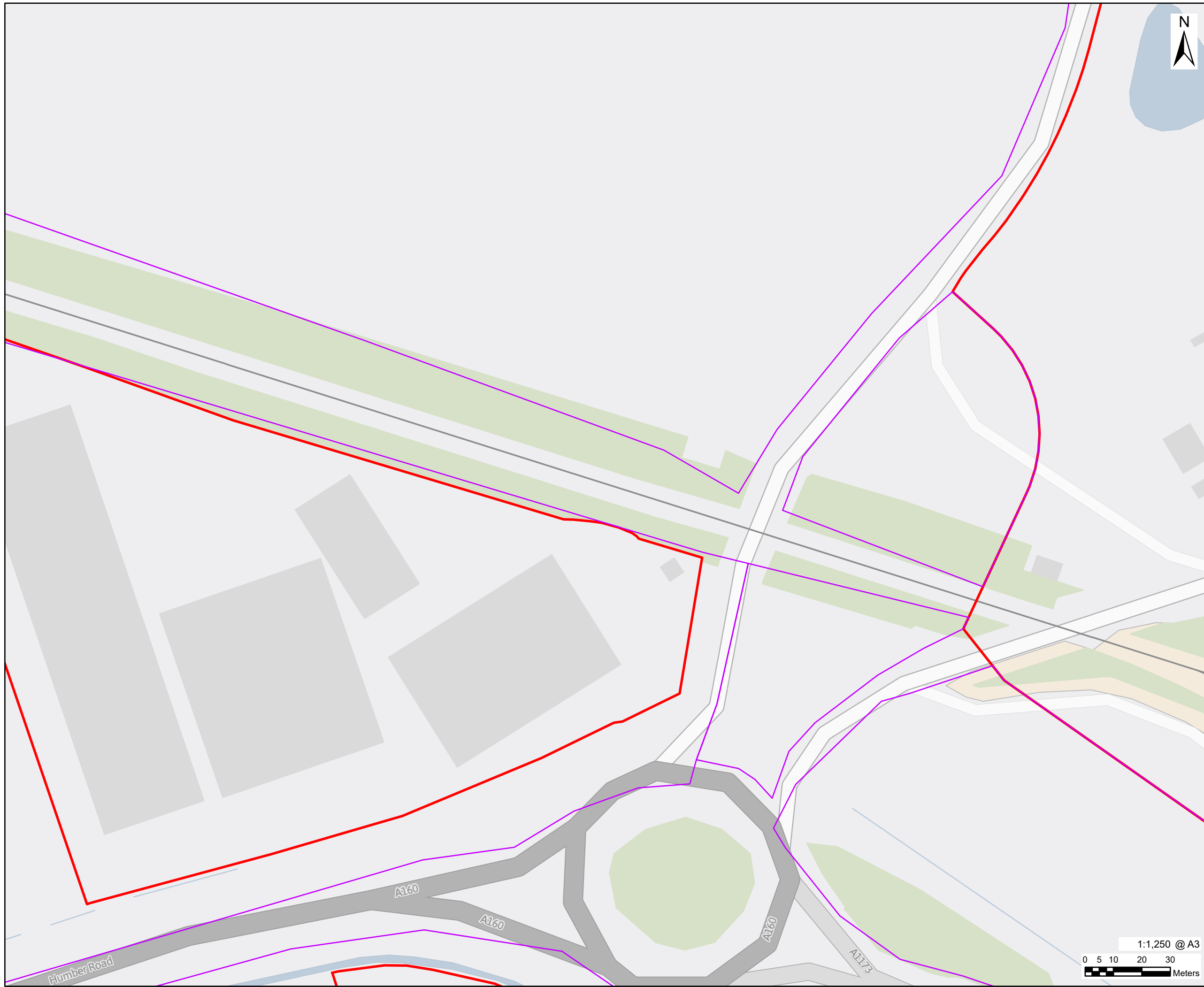


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FIGURE TITLE
Figure 5-3
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-3





- LEGEND
- Initial Redline
 - Updated Redline

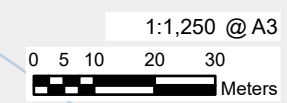
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FIGURE TITLE
Figure 5-4
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-4





- LEGEND
- Initial Redline
 - Updated Redline

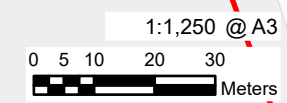
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FIGURE TITLE
Figure 5-5
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-5





- LEGEND
- Initial Redline
 - Updated Redline

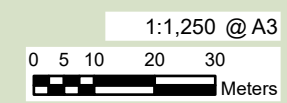
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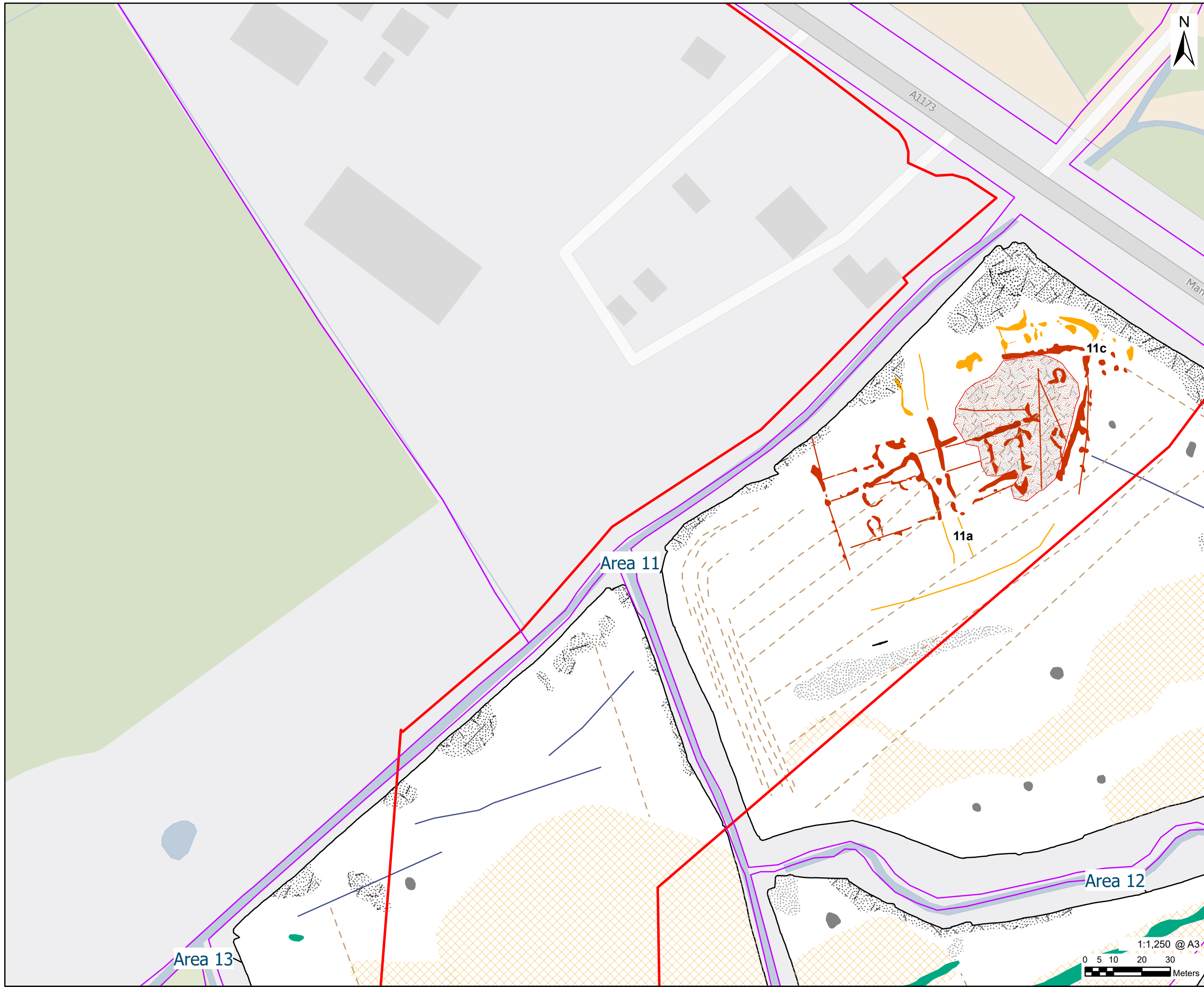


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FIGURE TITLE
Figure 5-6
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-6





- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Probable Archaeology)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)

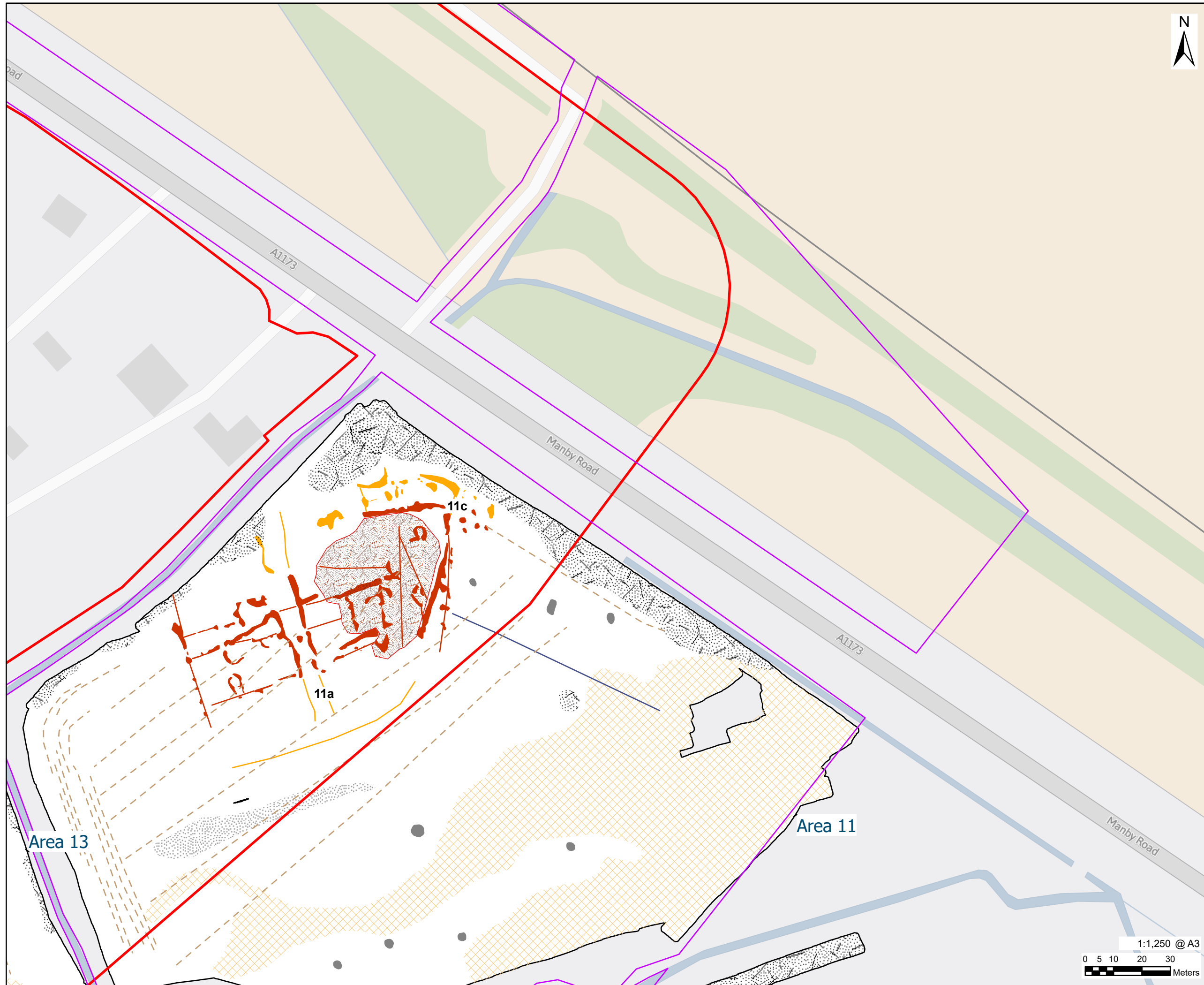


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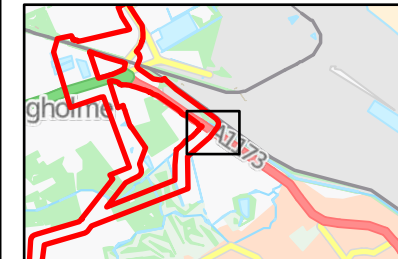
FIGURE TITLE
Figure 5-10
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-10

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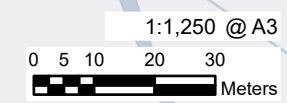
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Probable Archaeology)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)



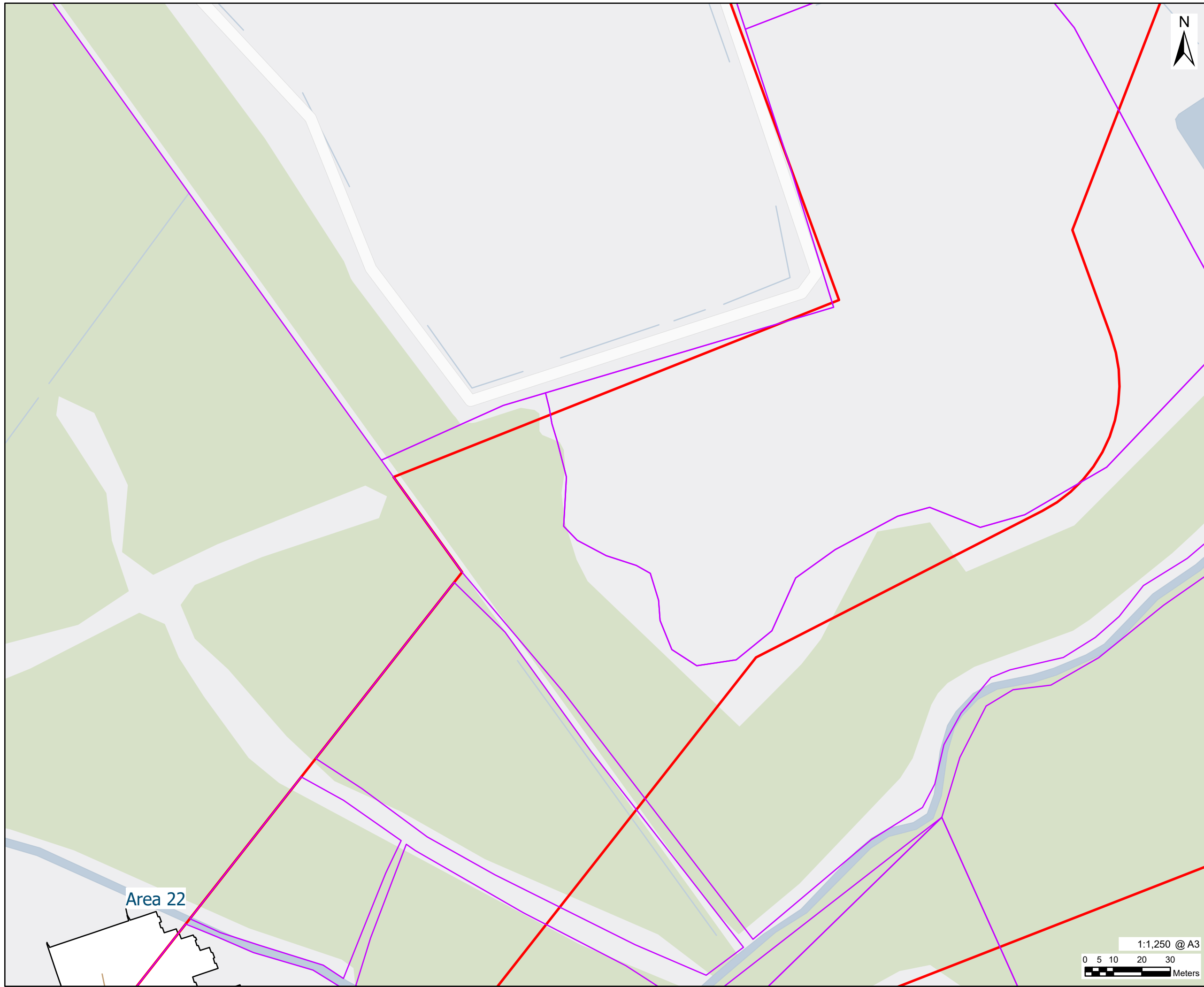
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FIGURE TITLE
Figure 5-11
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-11



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- LEGEND
- Initial Redline
 - Updated Redline
 - Linear Trend (Agricultural, Ridge and Furrow)

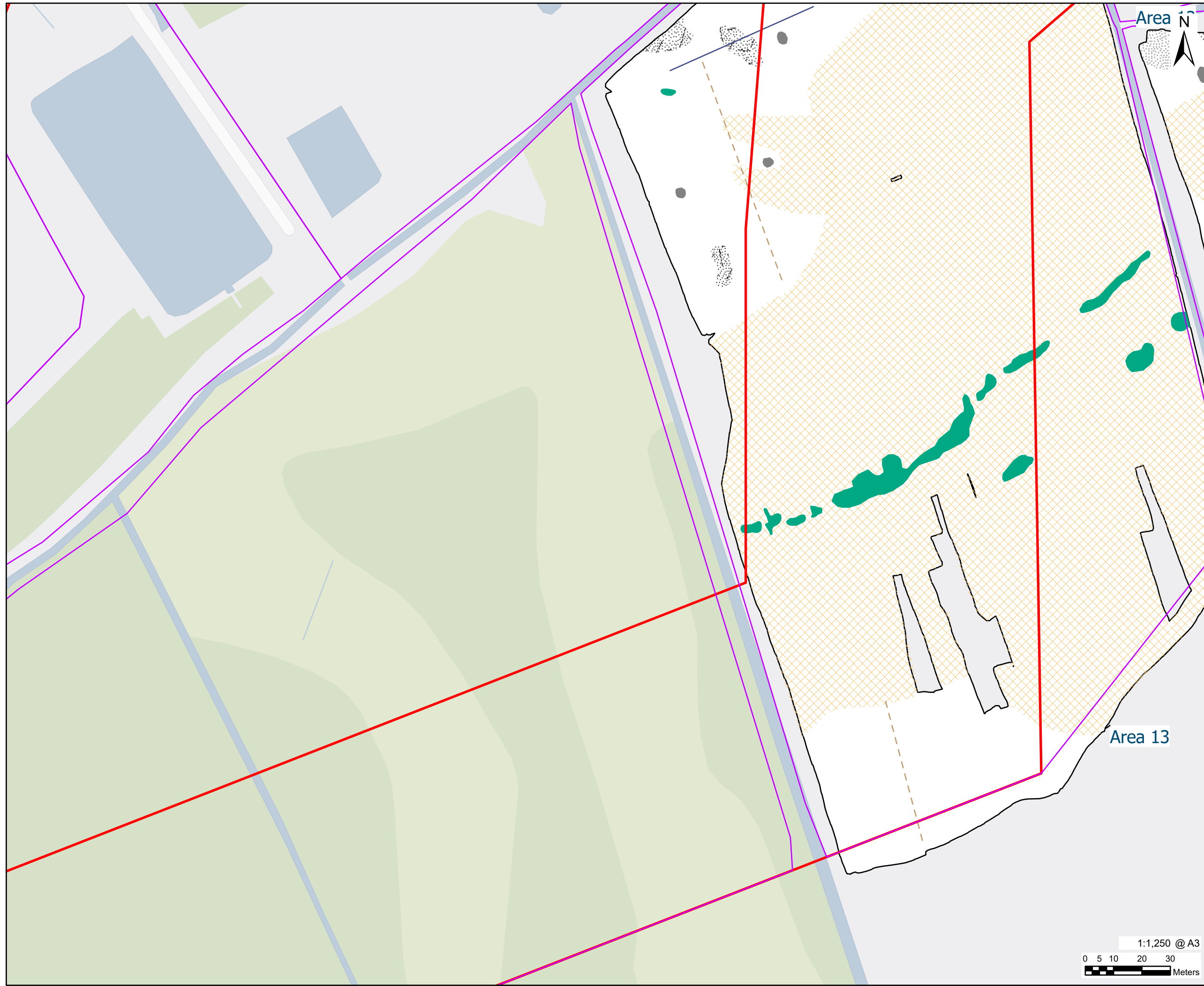


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FIGURE TITLE
Figure 5-12
 Interpretation of Gradiometer Data Detailed

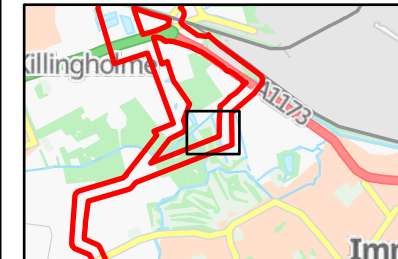
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-12

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- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)

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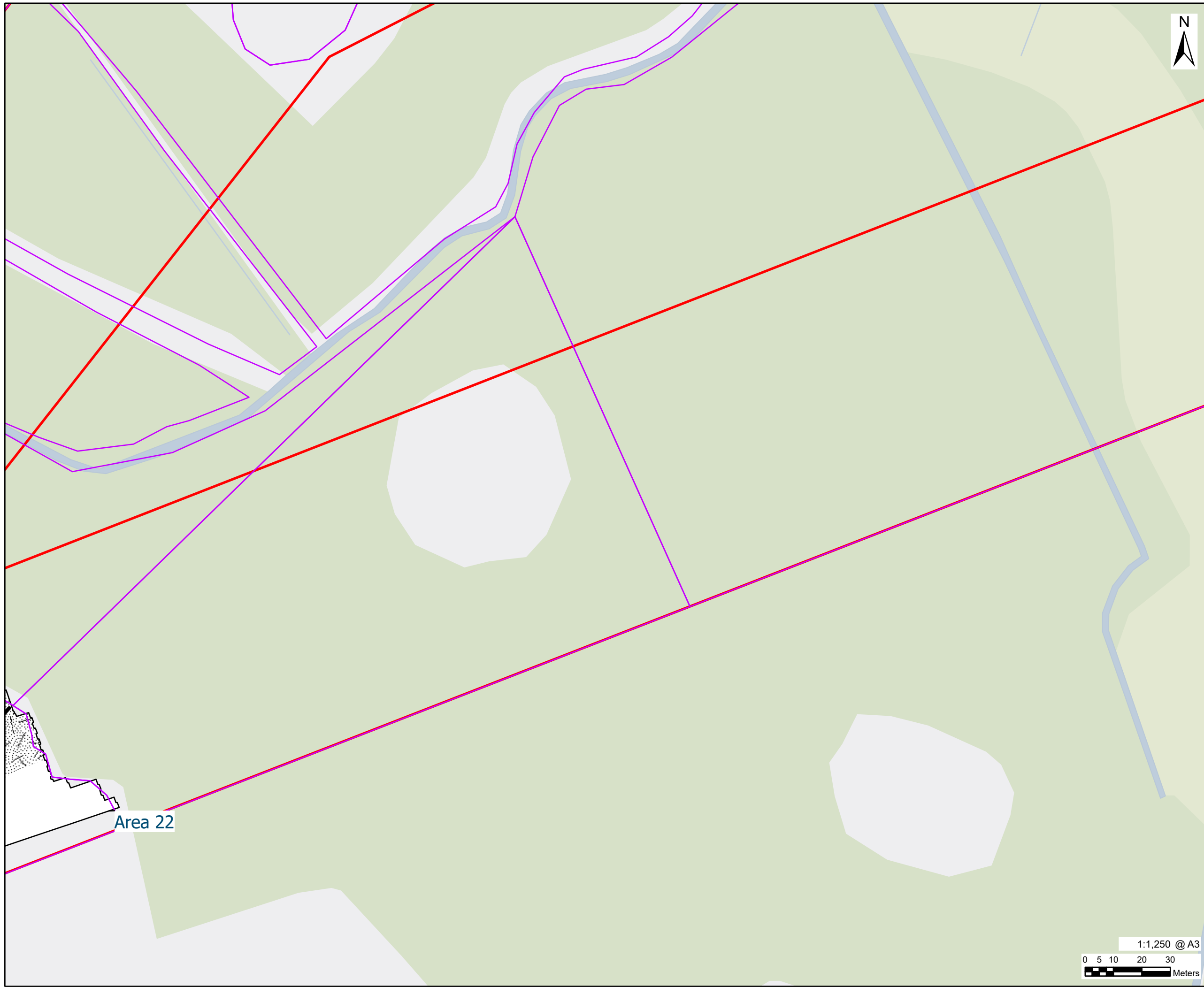


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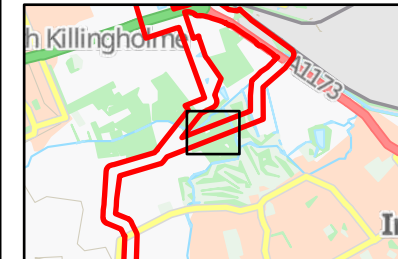
FIGURE TITLE
Figure 5-13
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-13

1:1,250 @ A3
0 5 10 20 30
Meters



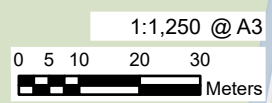
- LEGEND
- Initial Redline
 - Updated Redline
 - Spread (Magnetic Disturbance)
 - Linear Trend (Service)



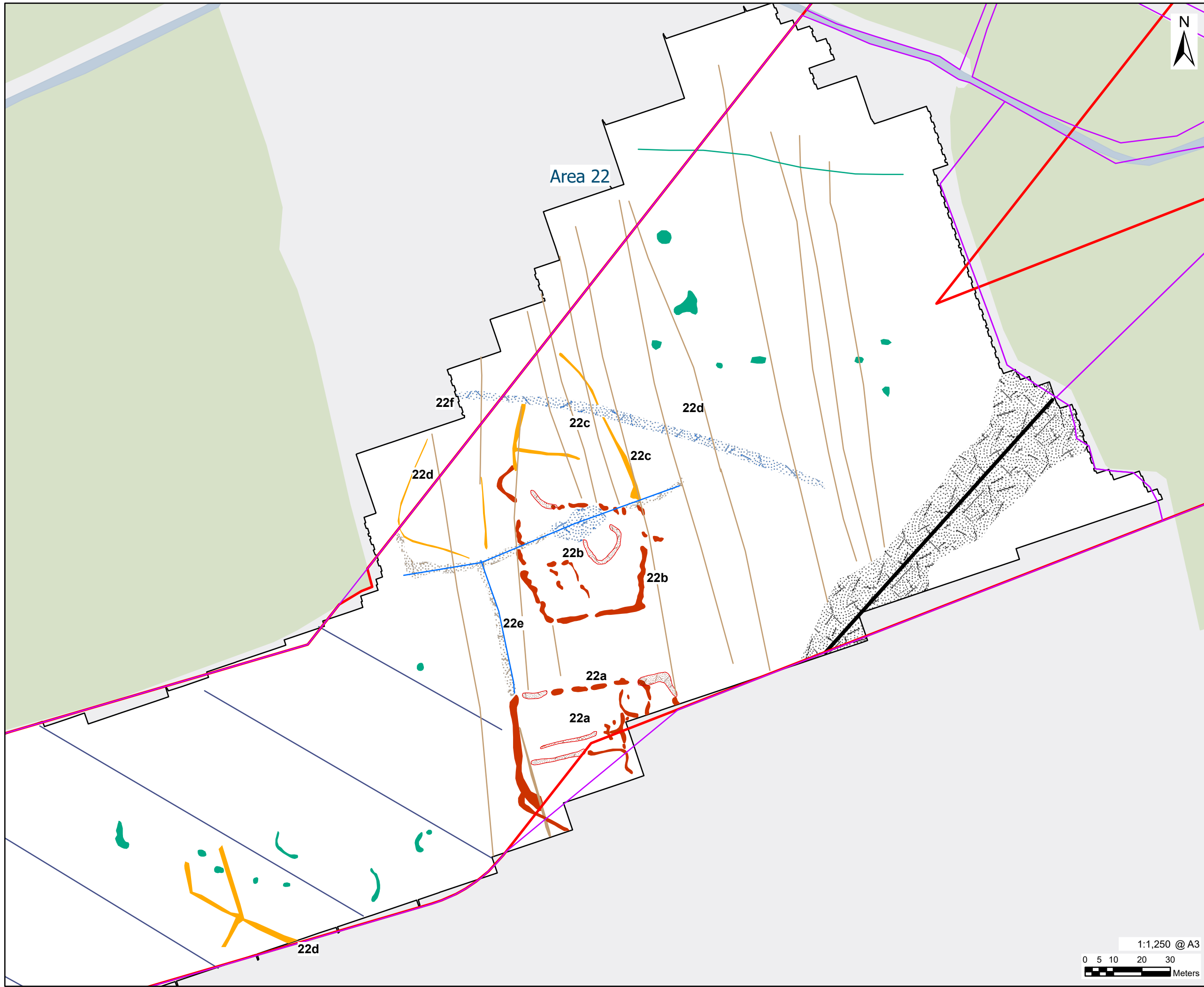
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FIGURE TITLE
Figure 5-15
Interpretation of Gradiometer Data
Detailed

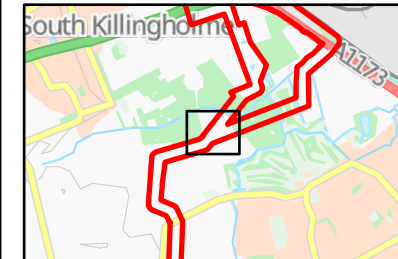
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-15



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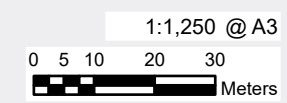
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Anomaly (Agricultural)
 - Spread (Probable Archaeology)
 - Spread (Historic Feature)
 - Spread (Agricultural)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Historic Feature)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Linear Trend (Service)



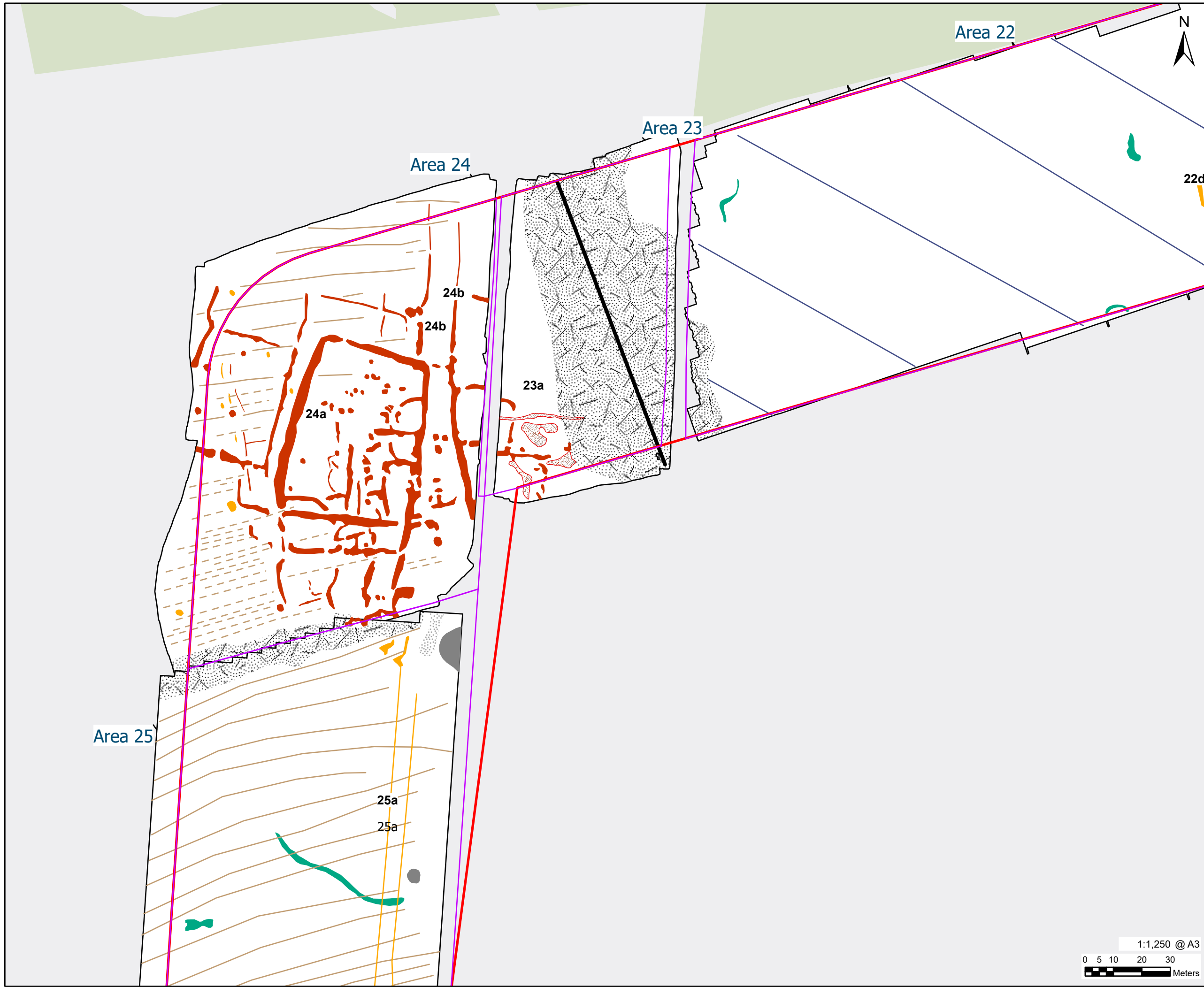
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FIGURE TITLE
 Figure 5-16
 Interpretation of Gradiometer Data
 Detailed

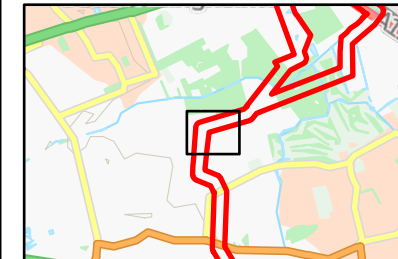
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-16



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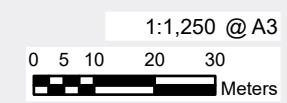
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Probable Archaeology)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Linear Trend (Service)



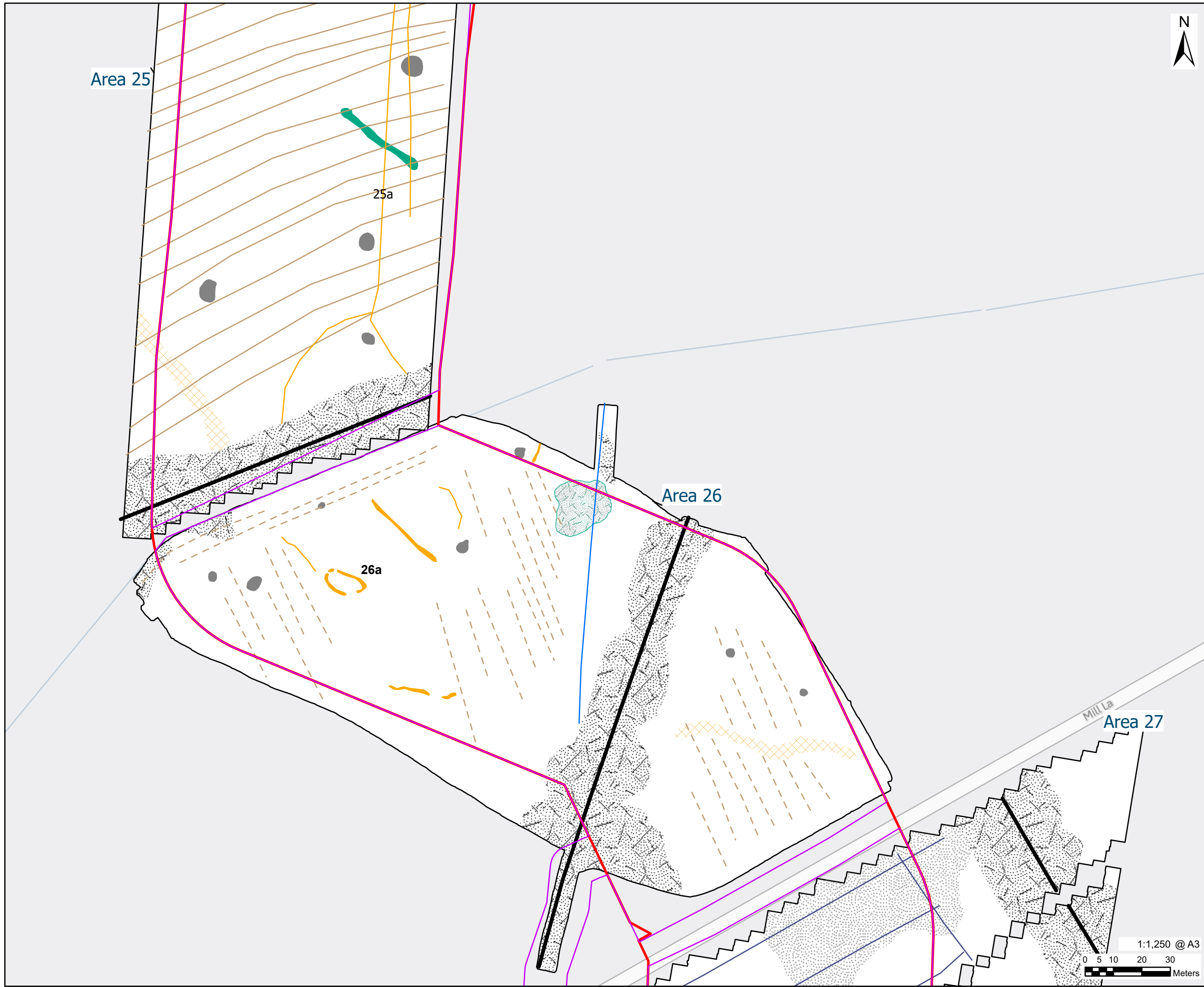
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FIGURE TITLE
Figure 5-17
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-17



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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Linear Trend (Service)



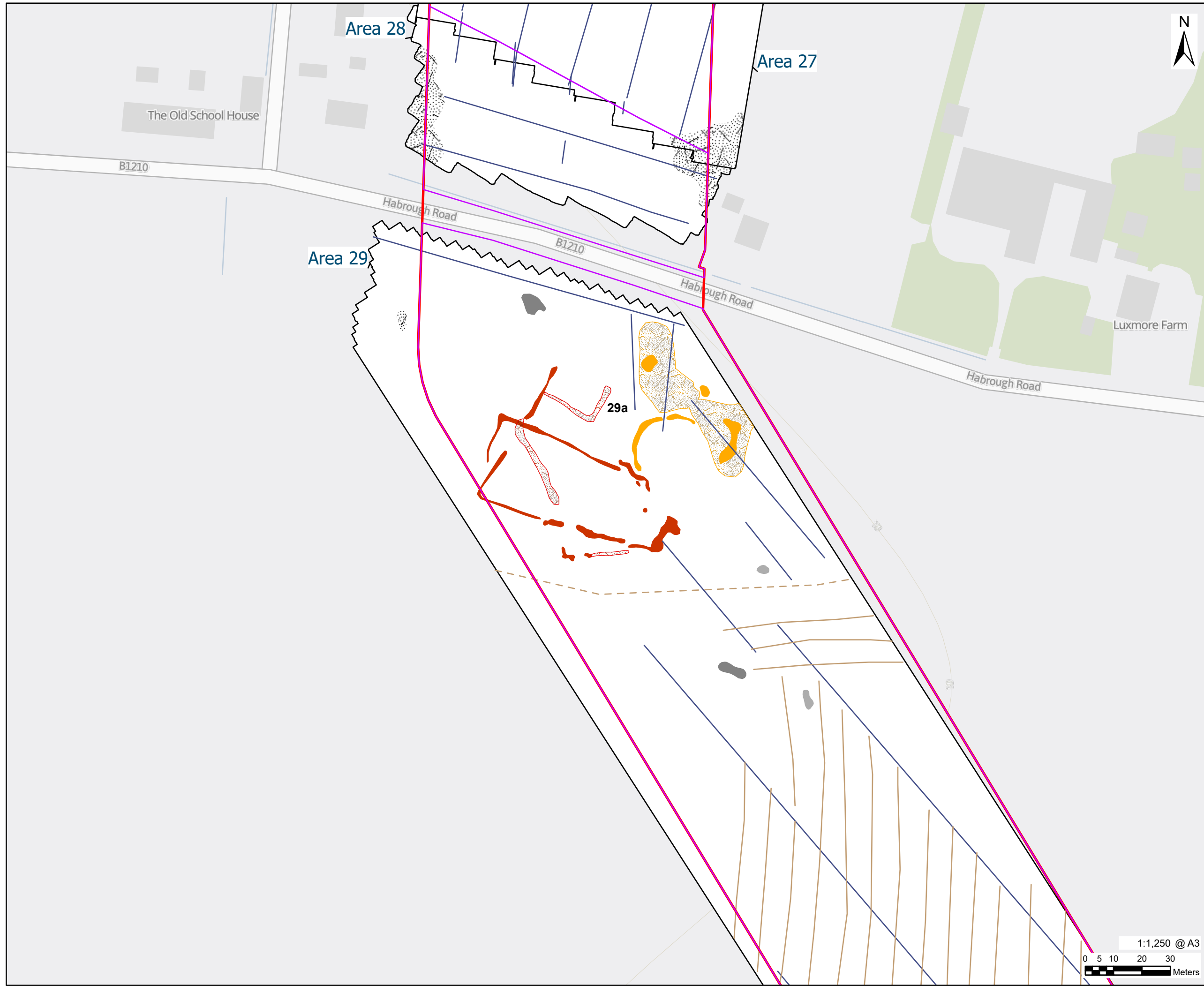
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FIGURE TITLE
Figure 5-18
Interpretation of Gradiometer Data Detailed

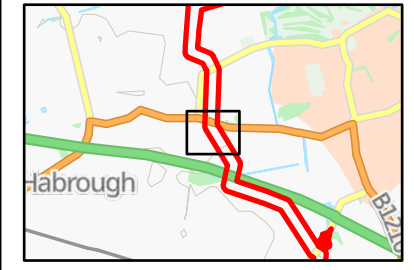
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-18

1:1,250 @ A3
0 5 10 20 30
Meters

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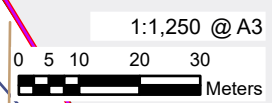
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)



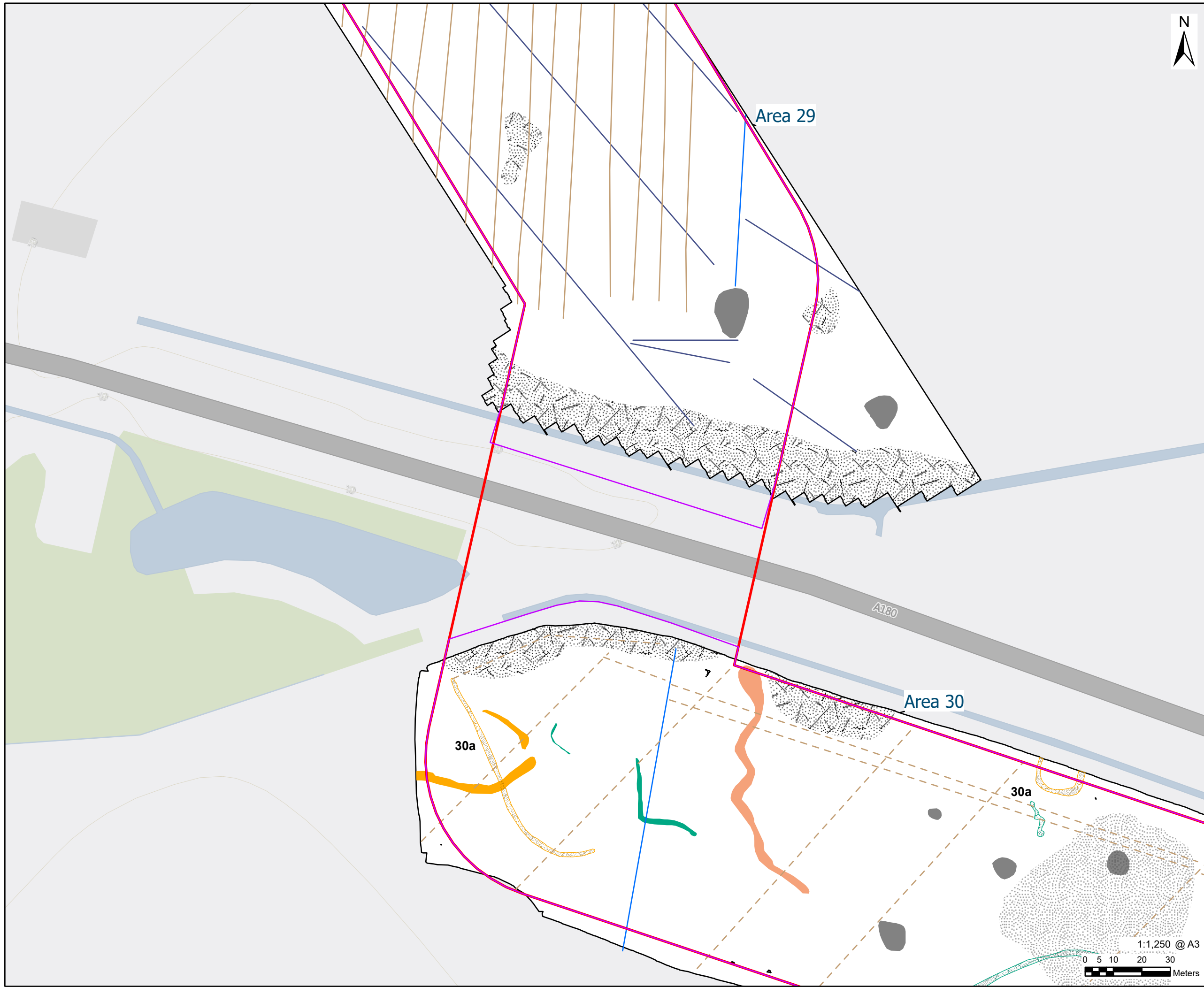
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FIGURE TITLE
Figure 5-20
Interpretation of Gradiometer Data Detailed

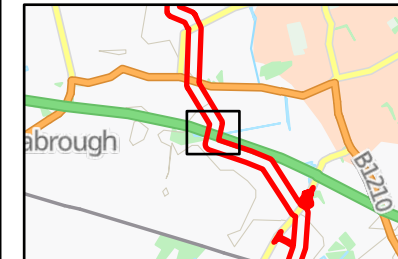
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-20



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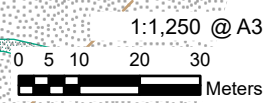
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)



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FIGURE TITLE
Figure 5-21
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-21

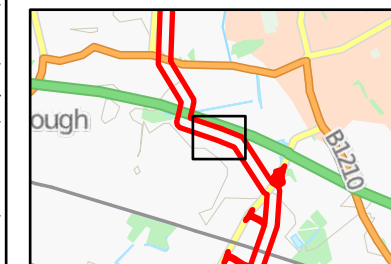
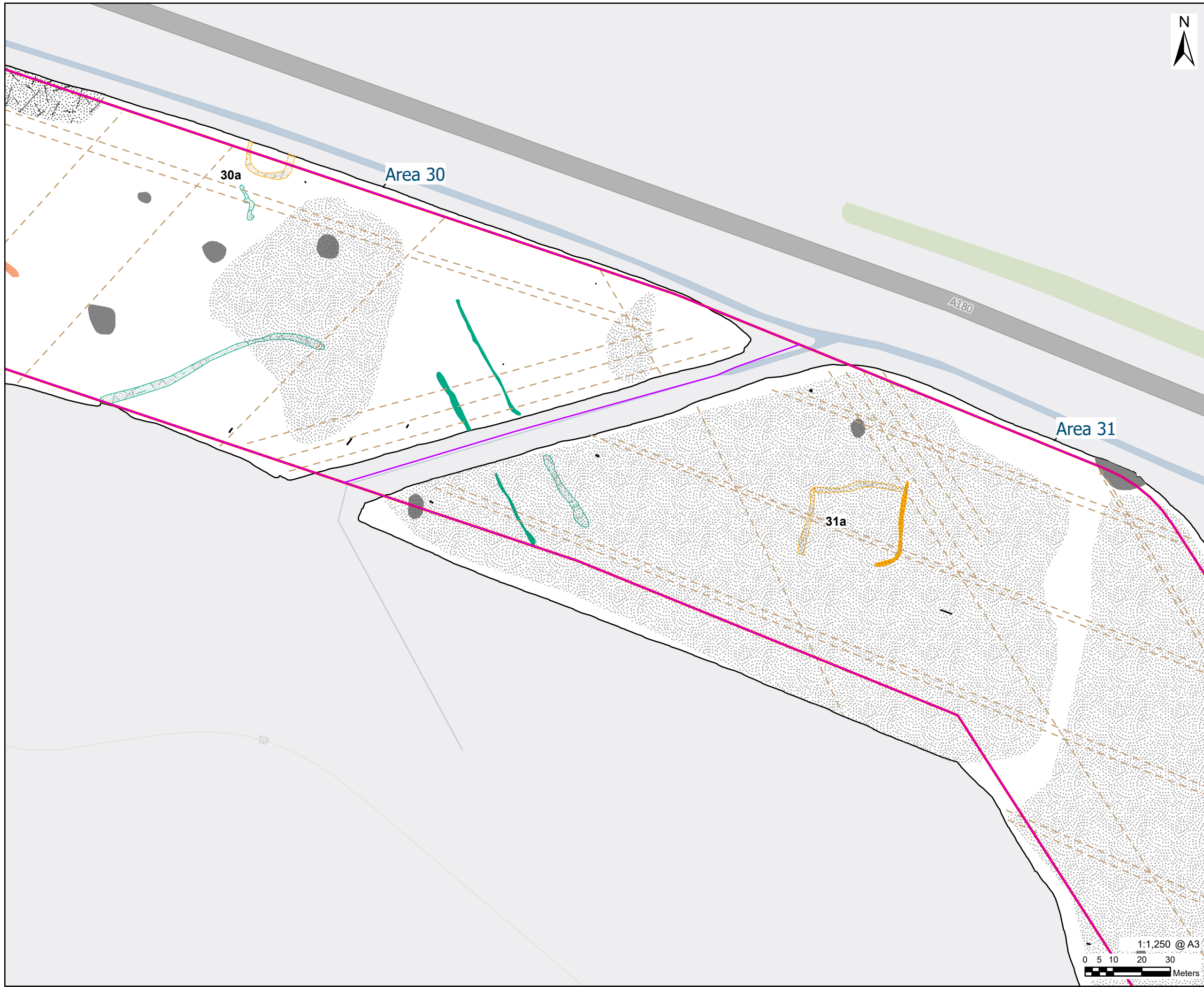


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LEGEND

- Initial Redline
- Updated Redline
- Anomaly (Possible Archaeology)
- Spread (Possible Archaeology)
- Anomaly (Unclear Origin)
- Spread (Unclear Origin)
- Anomaly (Geology/Natural)
- Anomaly (Magnetic Disturbance)
- Spread (Magnetic Disturbance)
- Spread (Ferrous/Iron Spike)
- Linear Trend (Agricultural, Ploughing)



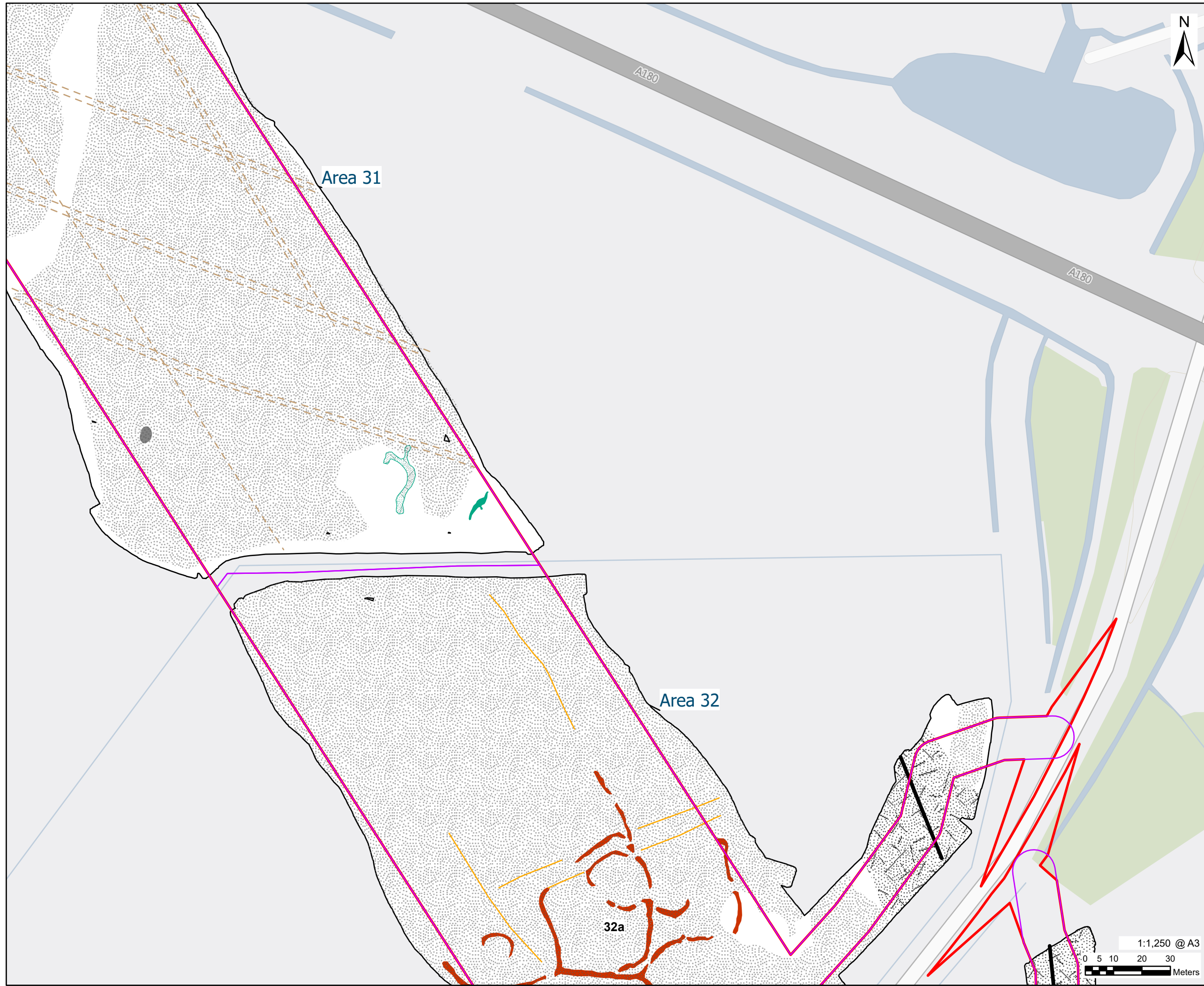
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FIGURE TITLE
Figure 5-22
Interpretation of Gradiometer Data
Detailed

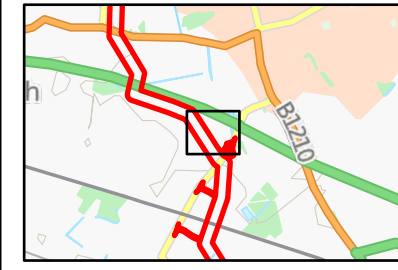
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-22

1:1,250 @ A3
0 5 10 20 30
Meters

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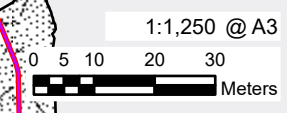
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Possible Archaeology)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Service)



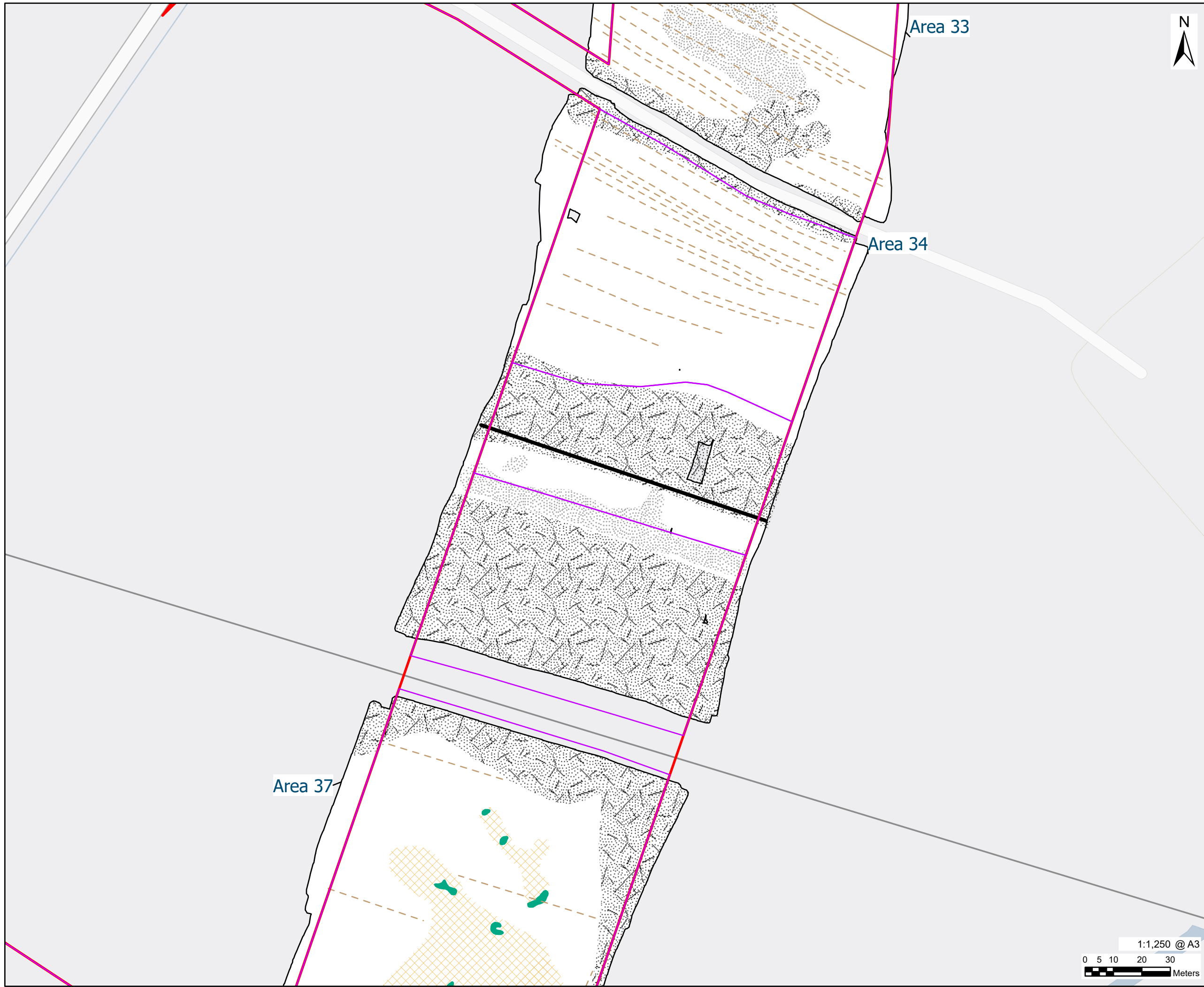
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FIGURE TITLE
Figure 5-23
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-23

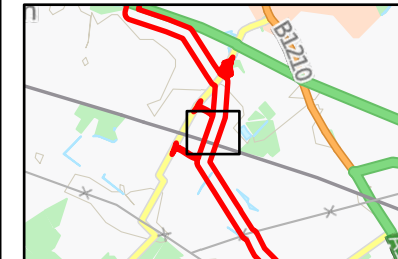


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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)

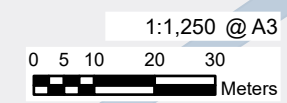
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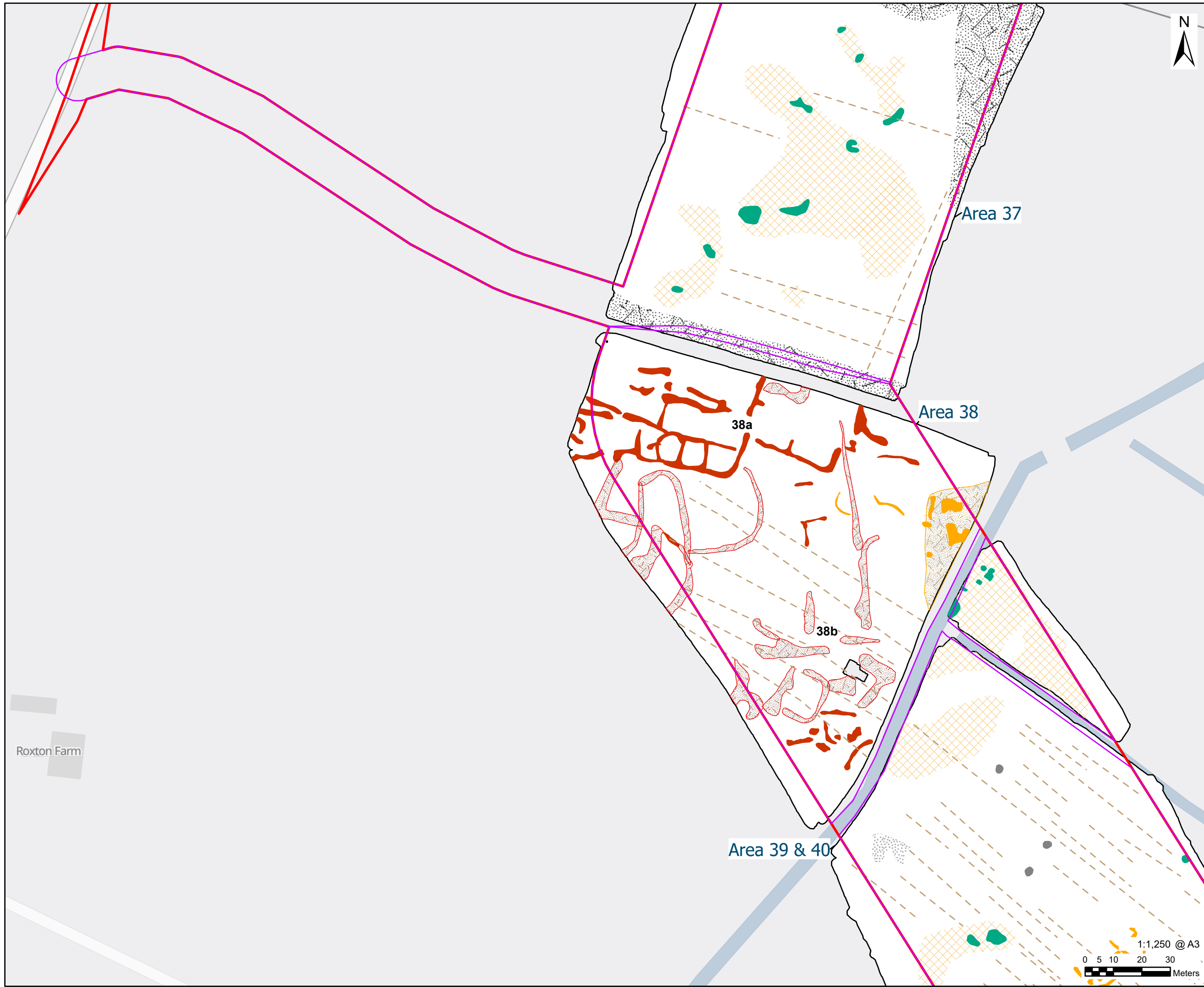


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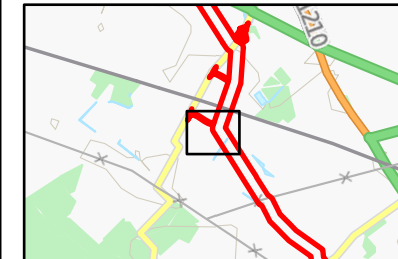
FIGURE TITLE
Figure 5-25
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-25





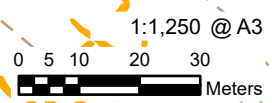
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)



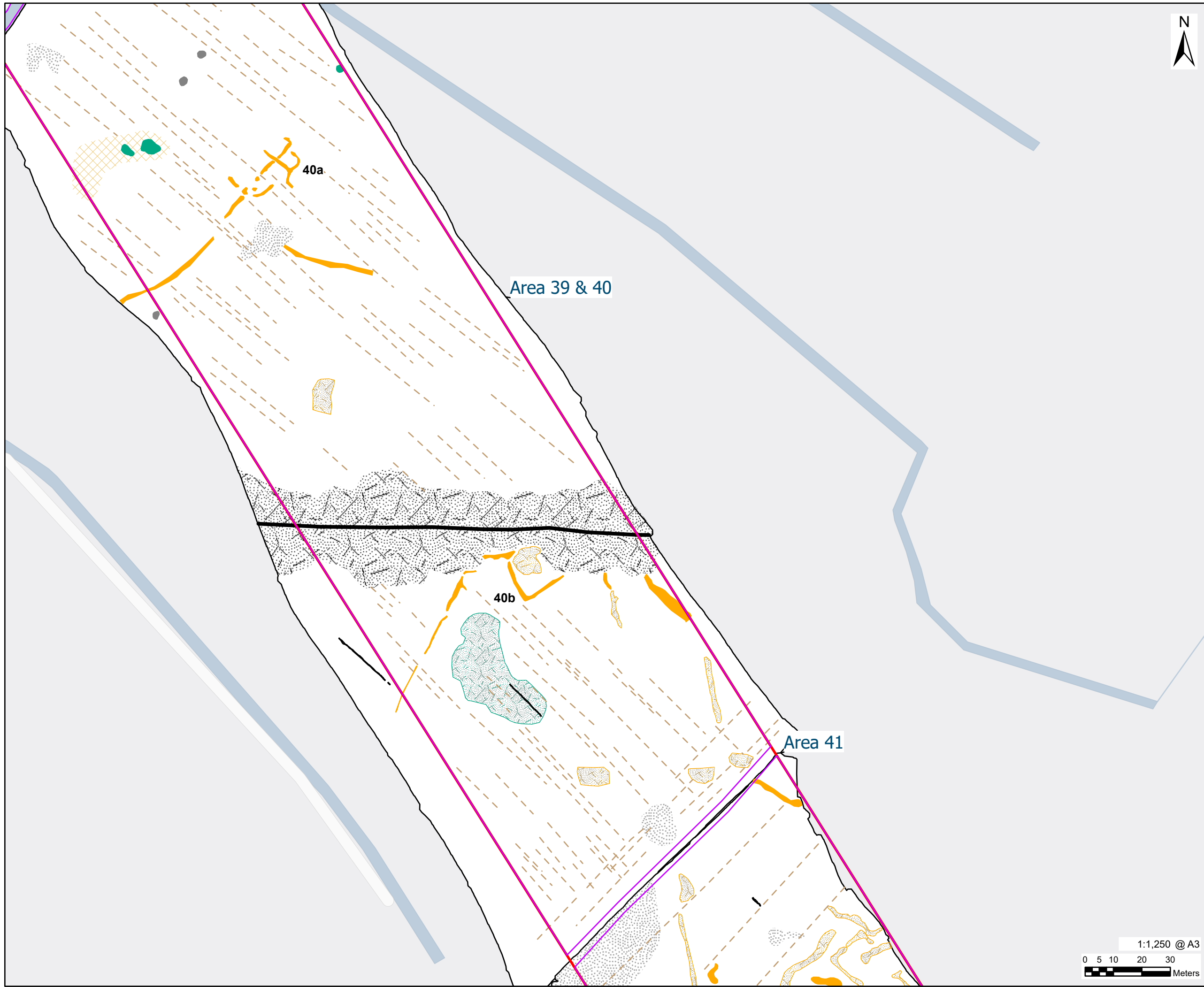
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FIGURE TITLE
Figure 5-26
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-26



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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Service)



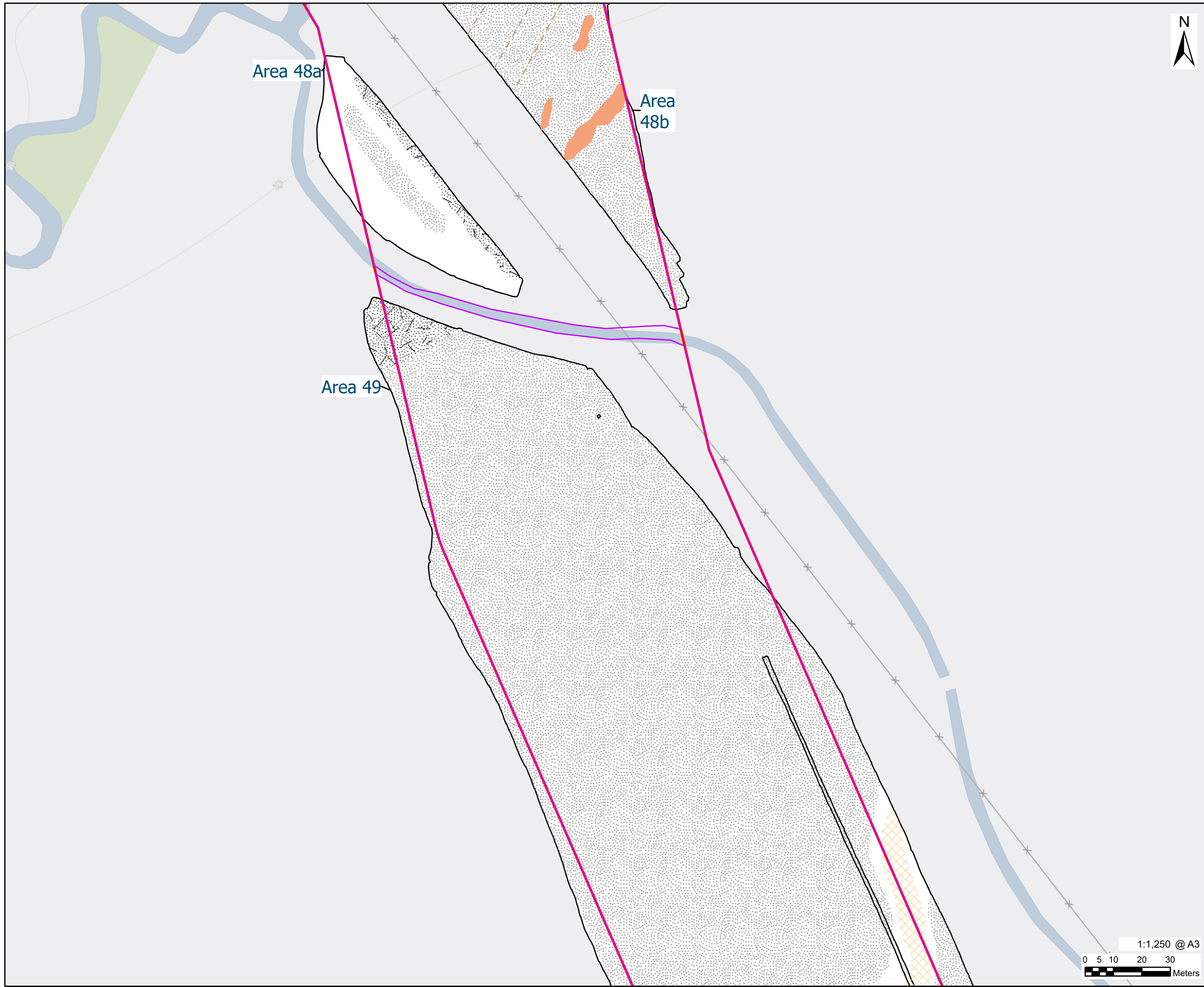
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FIGURE TITLE
Figure 5-27
Interpretation of Gradiometer Data Detailed

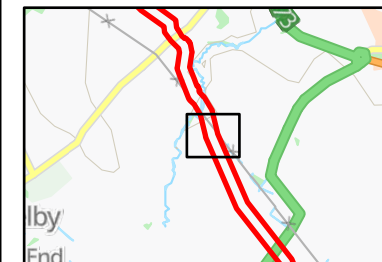
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-27

1:1,250 @ A3
 0 5 10 20 30
 Meters

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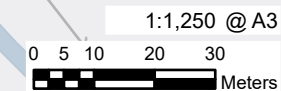
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)



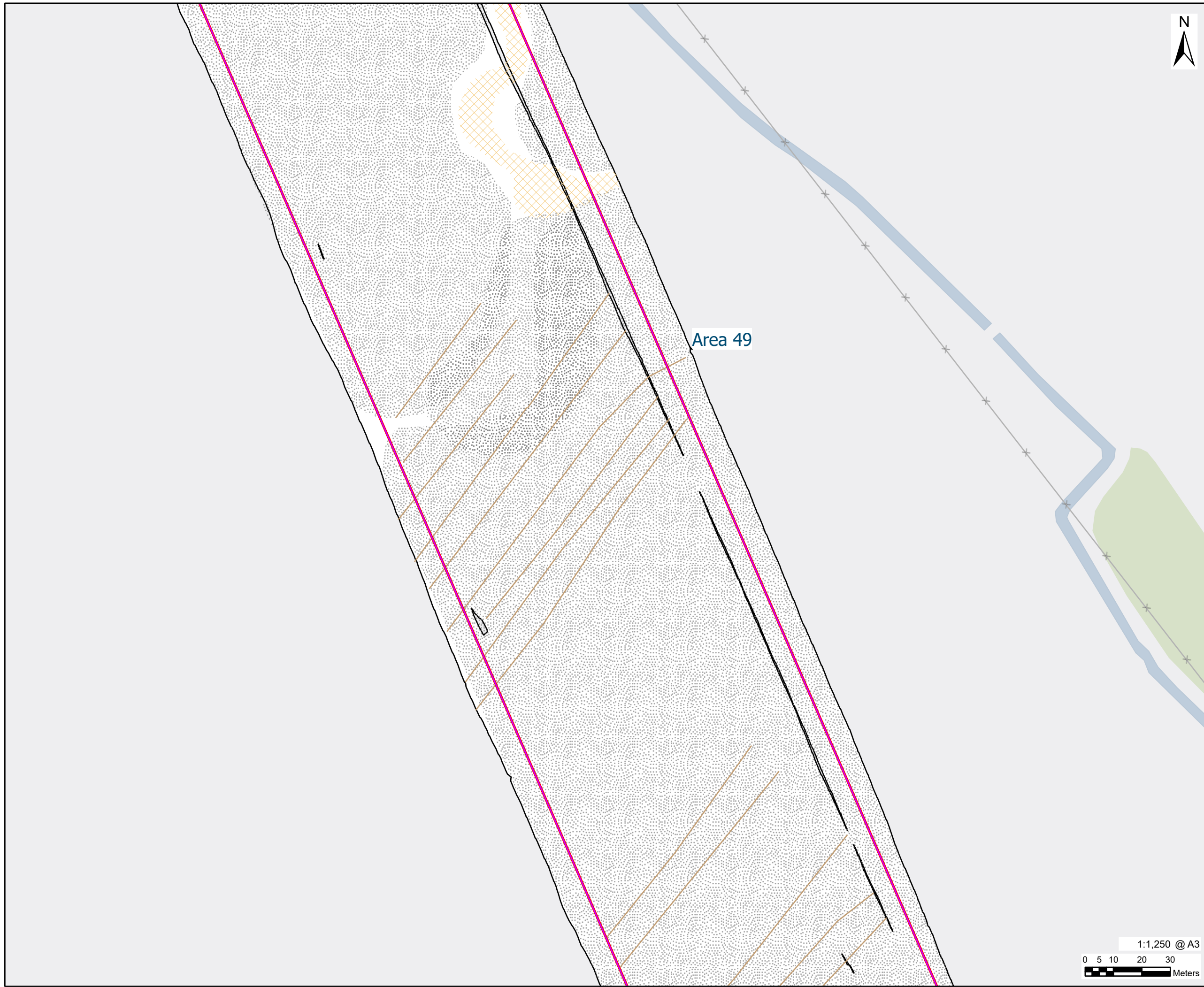
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




FIGURE TITLE
Figure 5-32
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-32

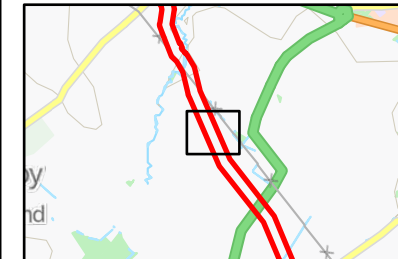


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- LEGEND
-  Initial Redline
 -  Updated Redline
 -  Spread (Geology/Natural)
 -  Spread (Ferrous/Iron Spike)
 -  Linear Trend (Agricultural, Ridge and Furrow)

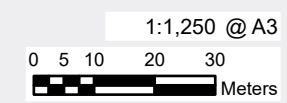
Area 49



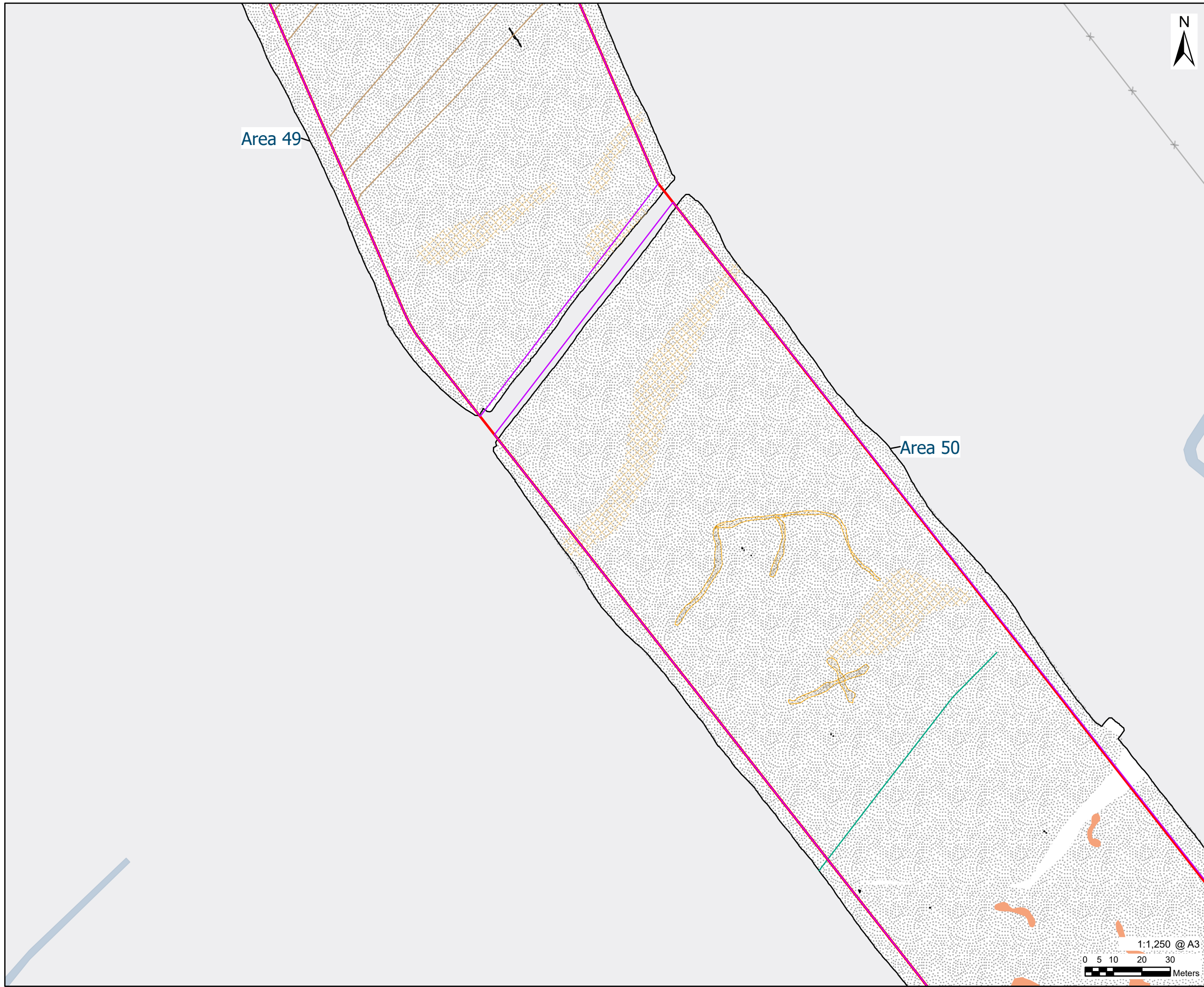
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FIGURE TITLE
Figure 5-33
Interpretation of Gradiometer Data Detailed

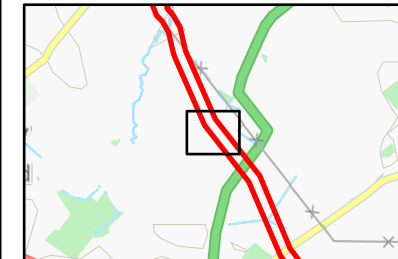
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-33



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- LEGEND**
- Initial Redline
 - Updated Redline
 - Spread (Possible Archaeology)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ridge and Furrow)

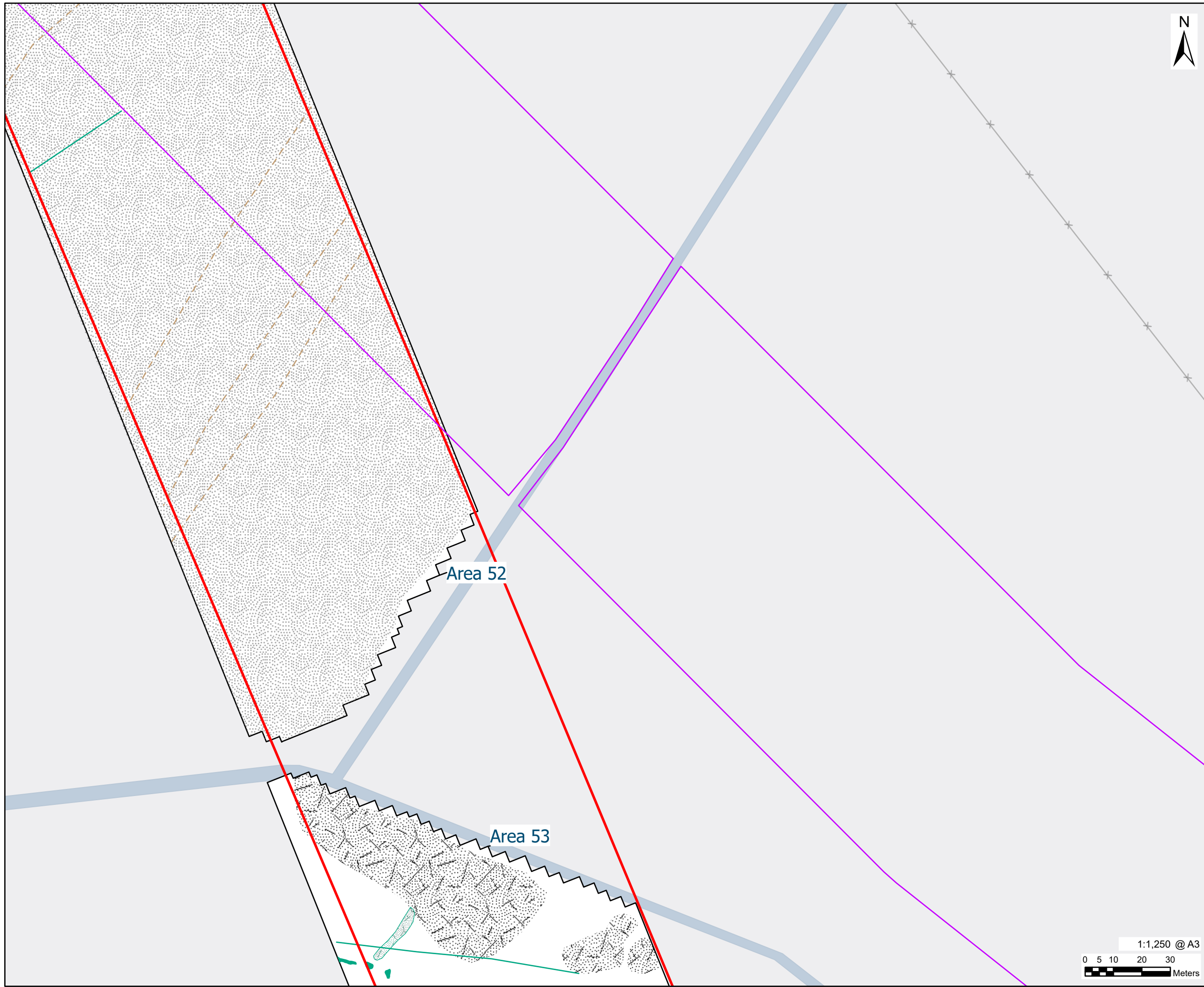


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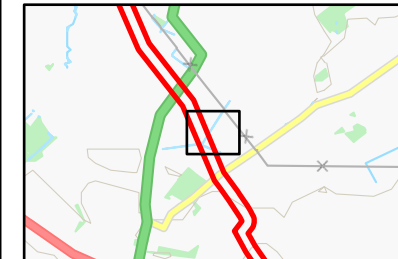
FIGURE TITLE
Figure 5-34
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-34

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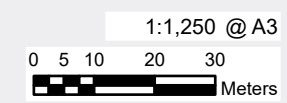
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)



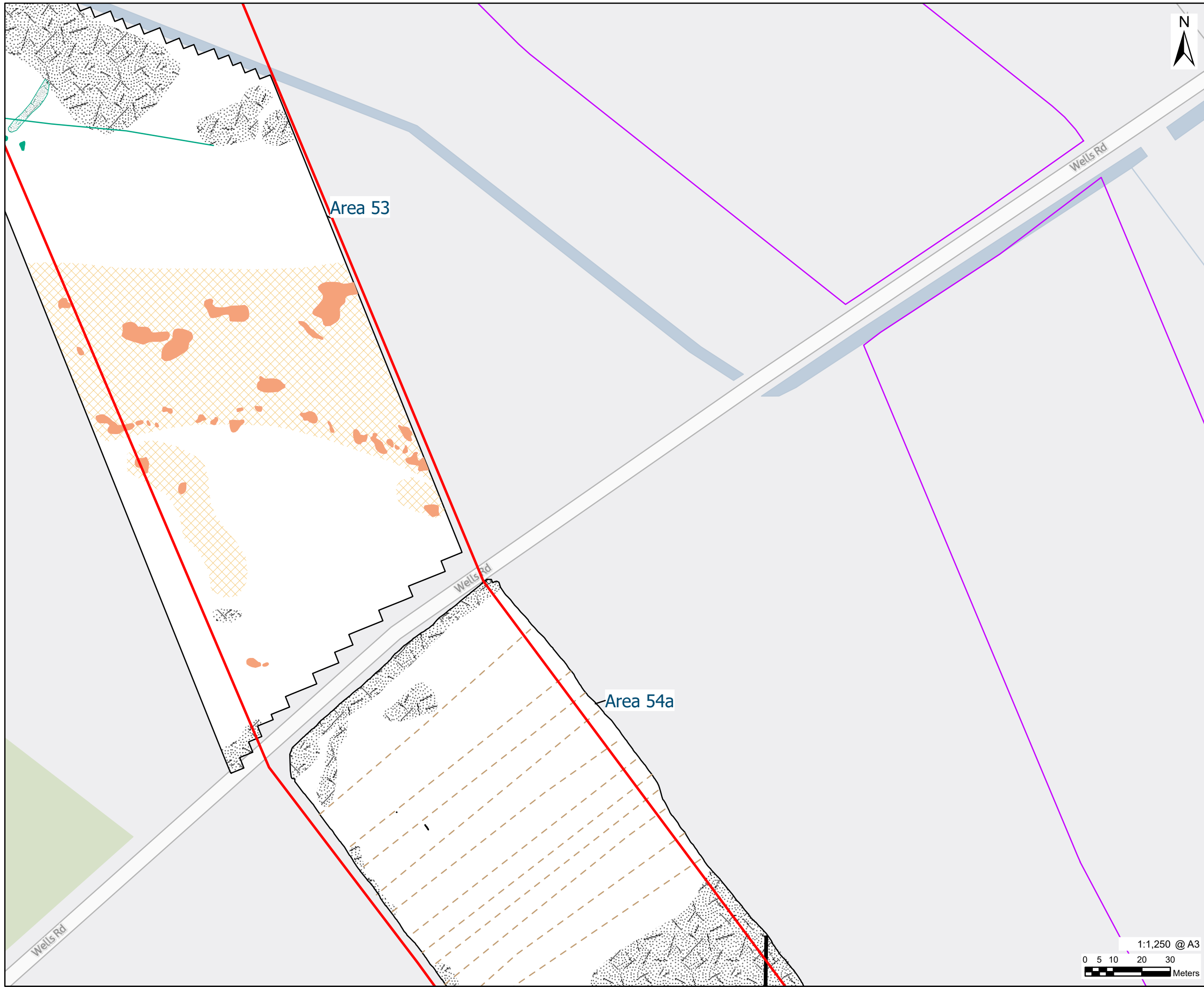
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FIGURE TITLE
Figure 5-36
Interpretation of Gradiometer Data
Detailed

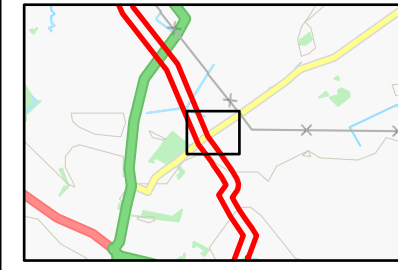
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-36



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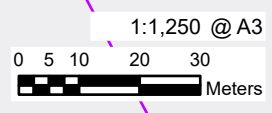
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Service)



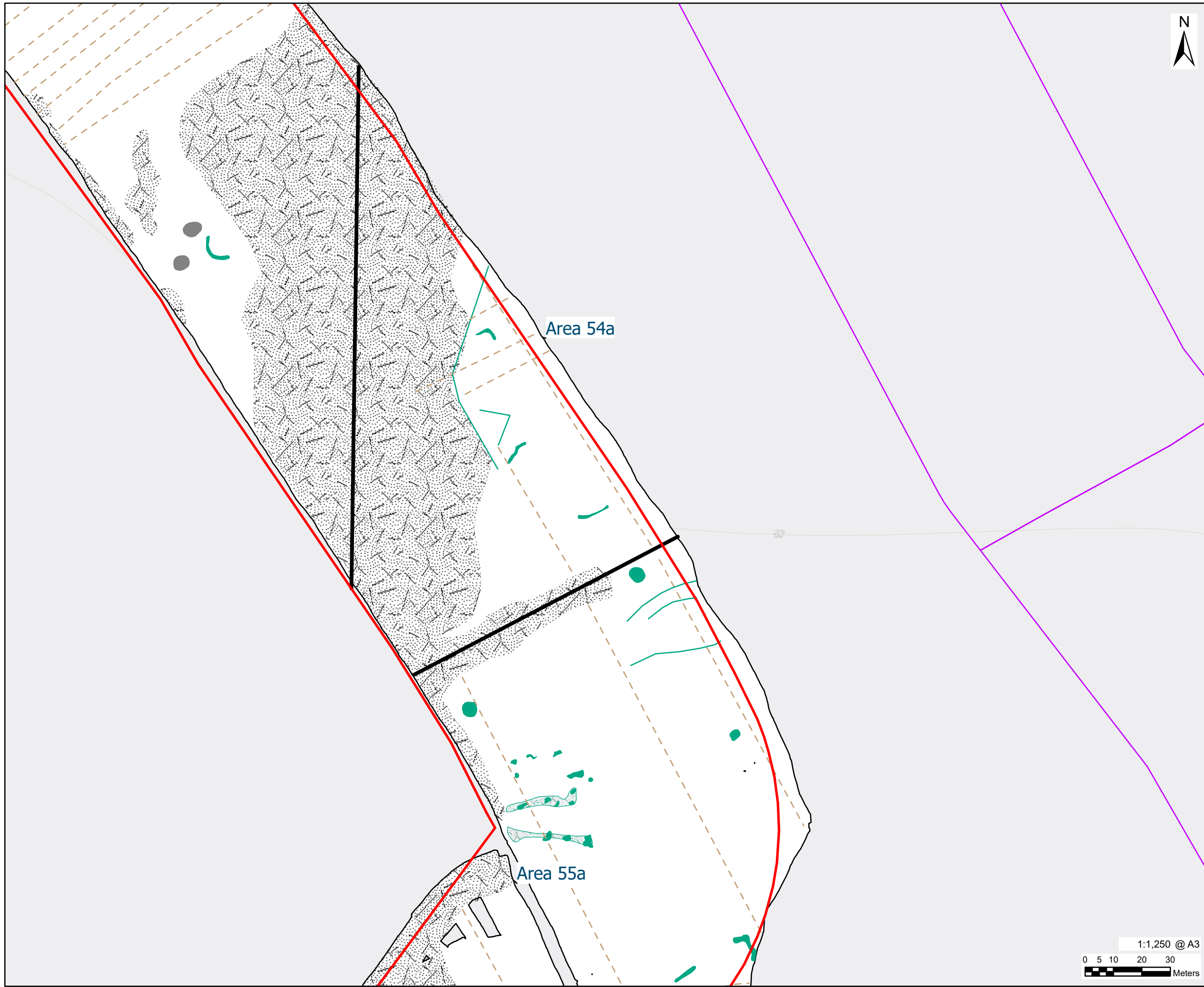
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FIGURE TITLE
Figure 5-37
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-37

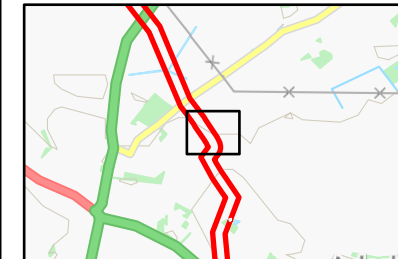


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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Service)

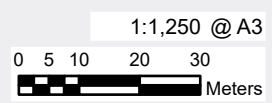
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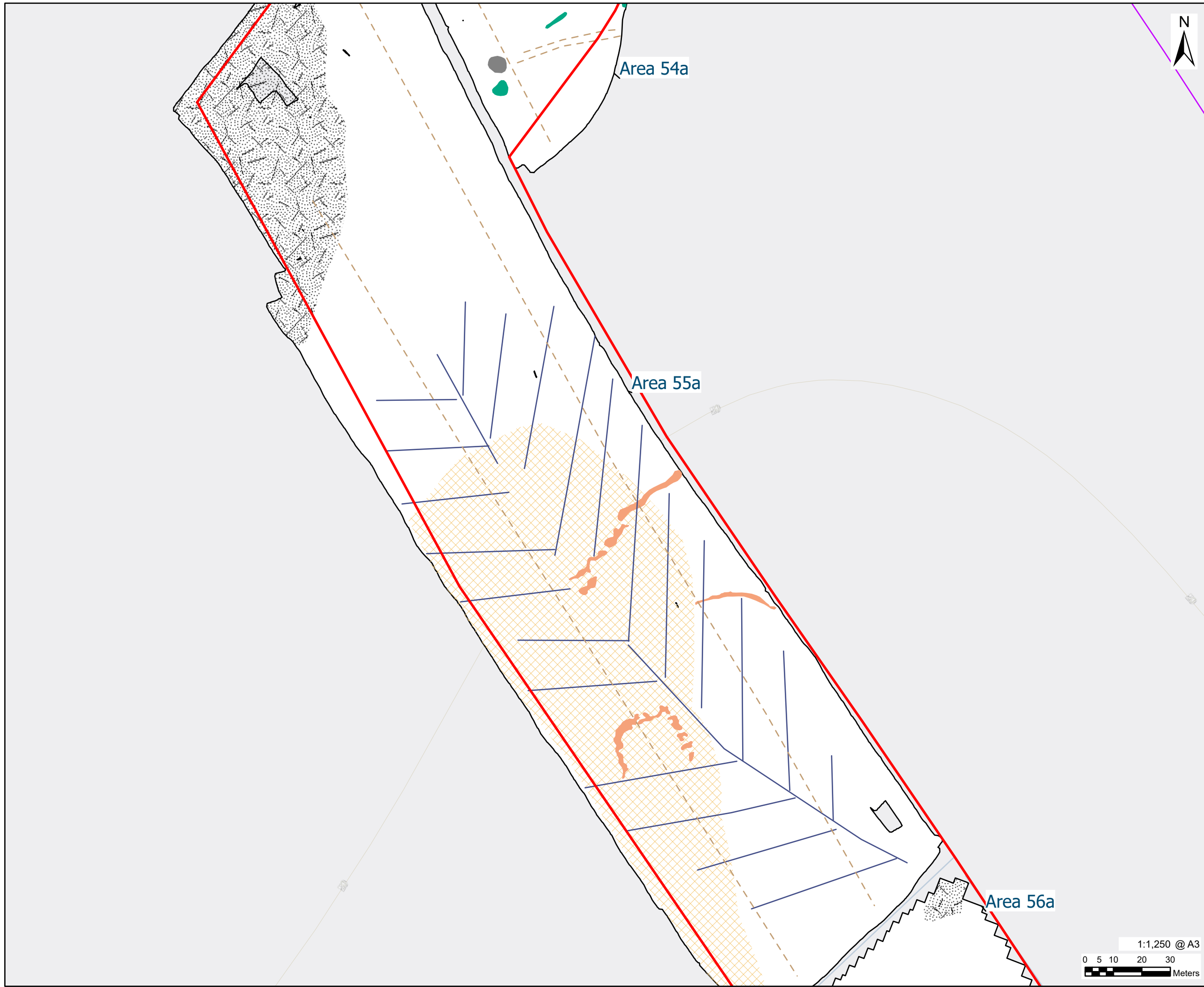


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FIGURE TITLE
Figure 5-38
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-38

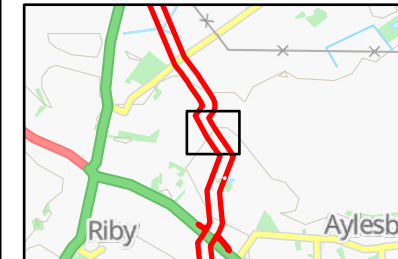




LEGEND

	Initial Redline
	Updated Redline
	Anomaly (Unclear Origin)
	Anomaly (Geology/Natural)
	Spread (Geology/Natural)
	Anomaly (Magnetic Disturbance)
	Spread (Magnetic Disturbance)
	Linear Trend (Agricultural, Ploughing)
	Linear Trend (Drainage)

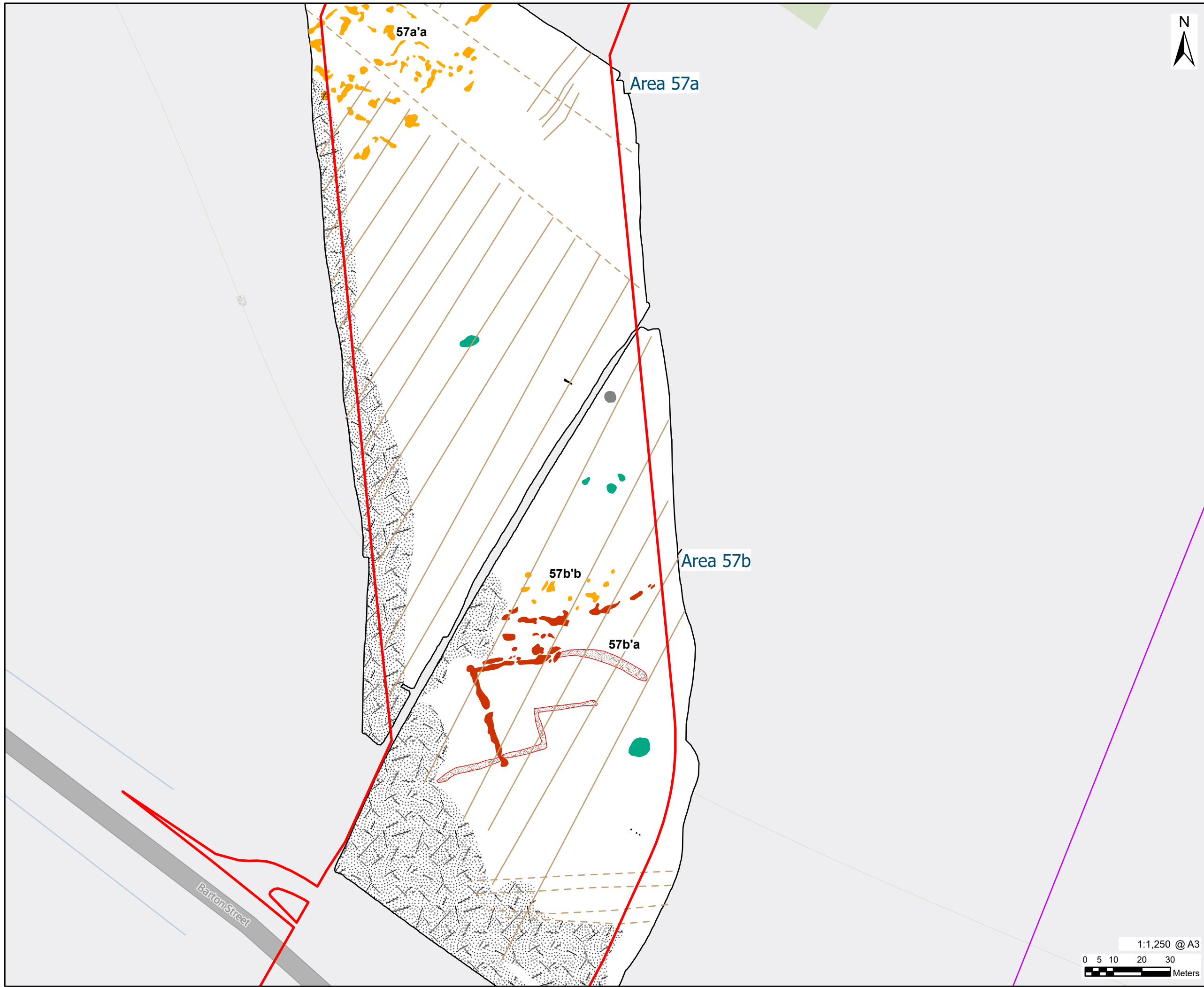
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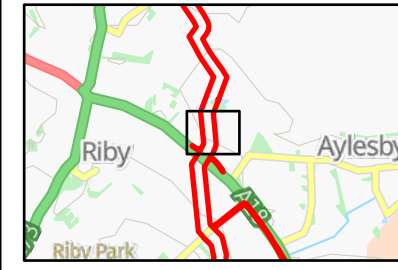
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FIGURE TITLE
Figure 5-39
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-39



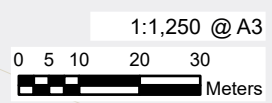
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)



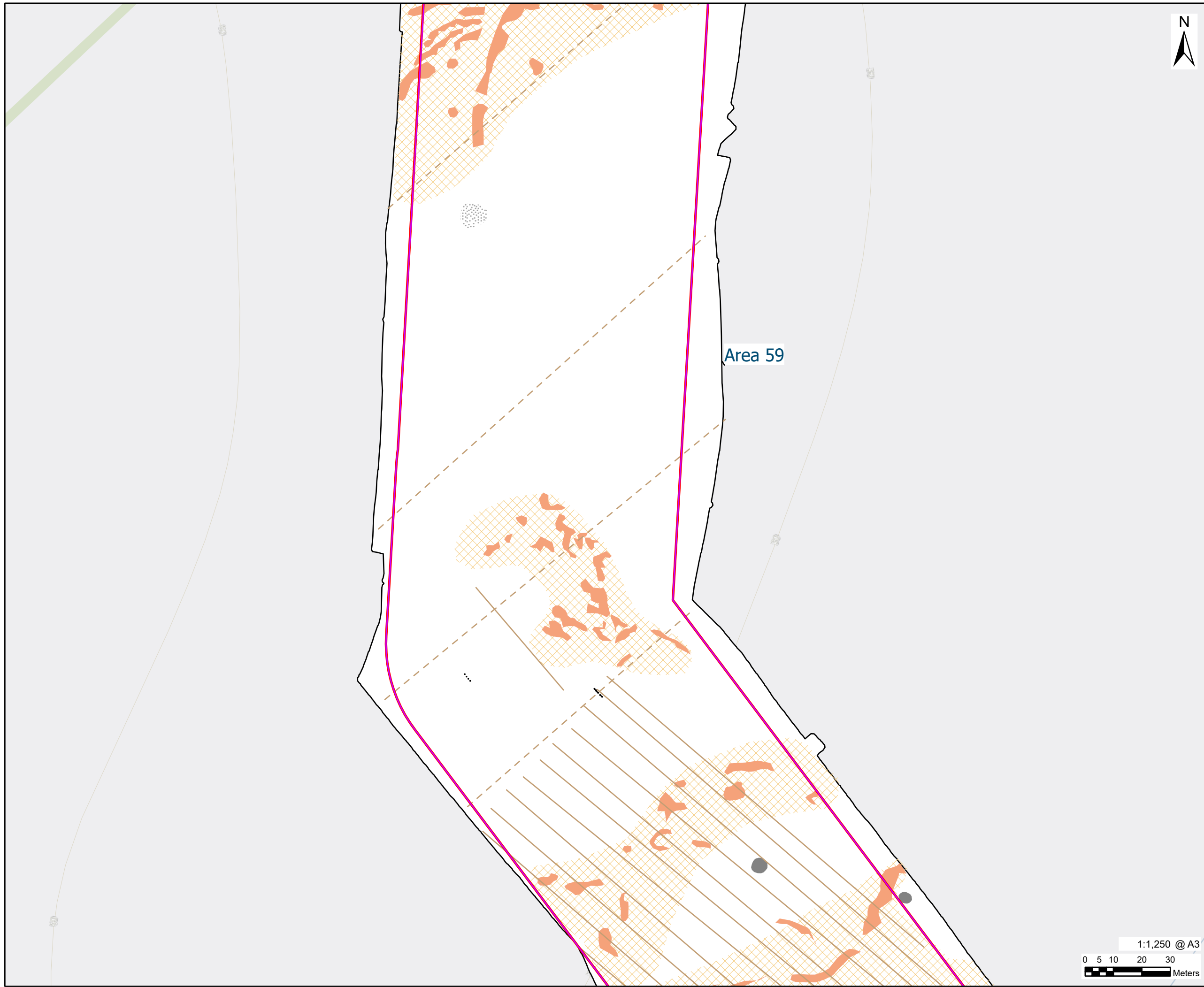
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FIGURE TITLE
Figure 5-41
Interpretation of Gradiometer Data Detailed

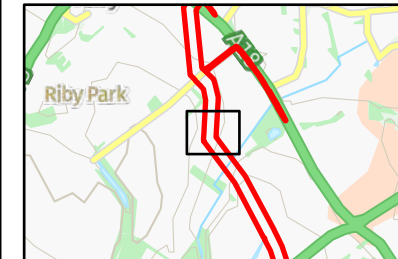
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-41



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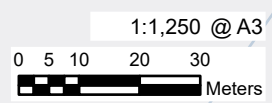
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)



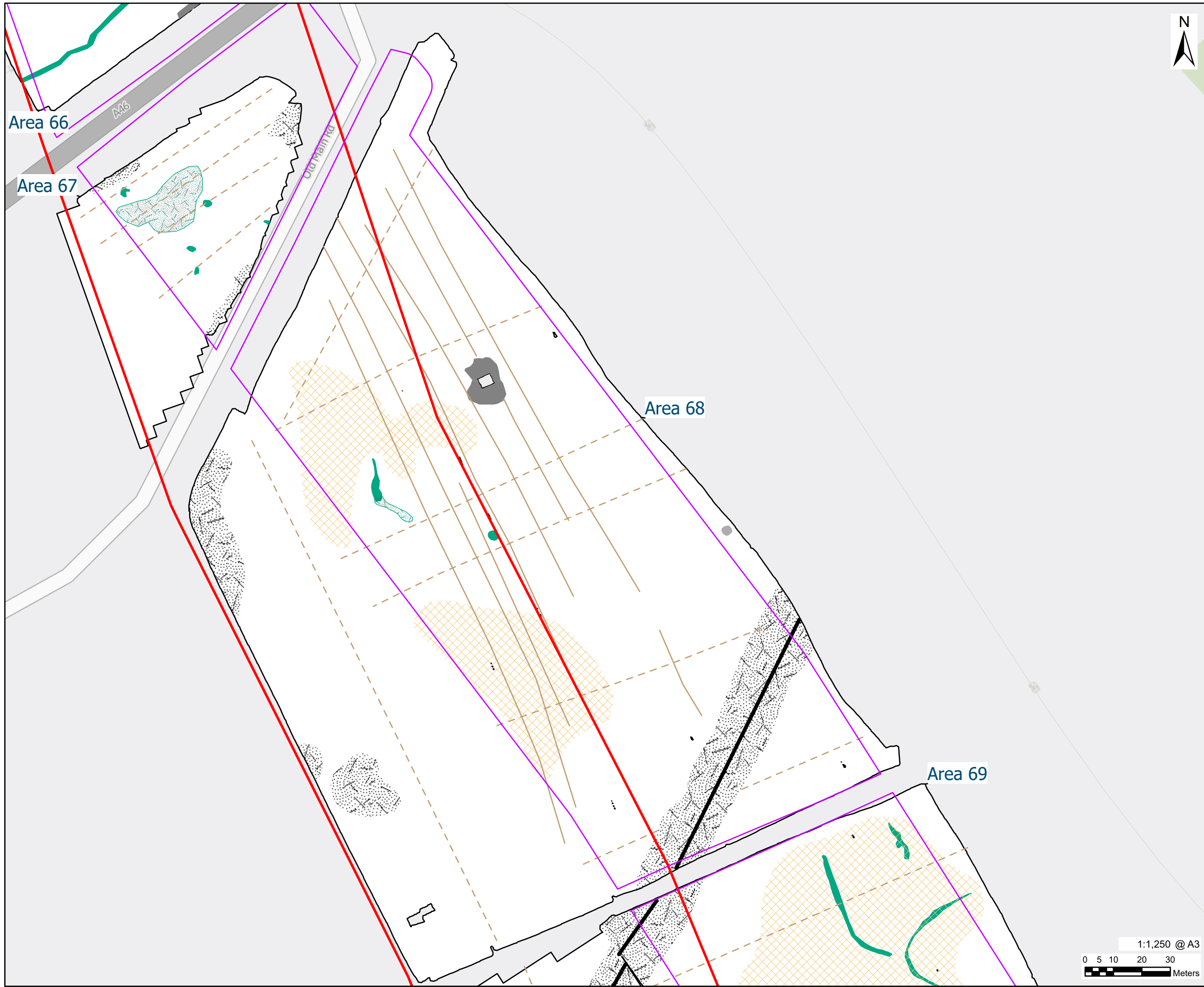
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FIGURE TITLE
Figure 5-45
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-45

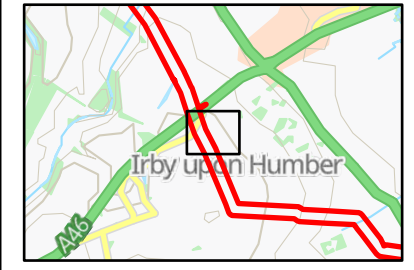


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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Service)

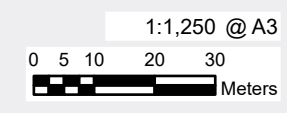
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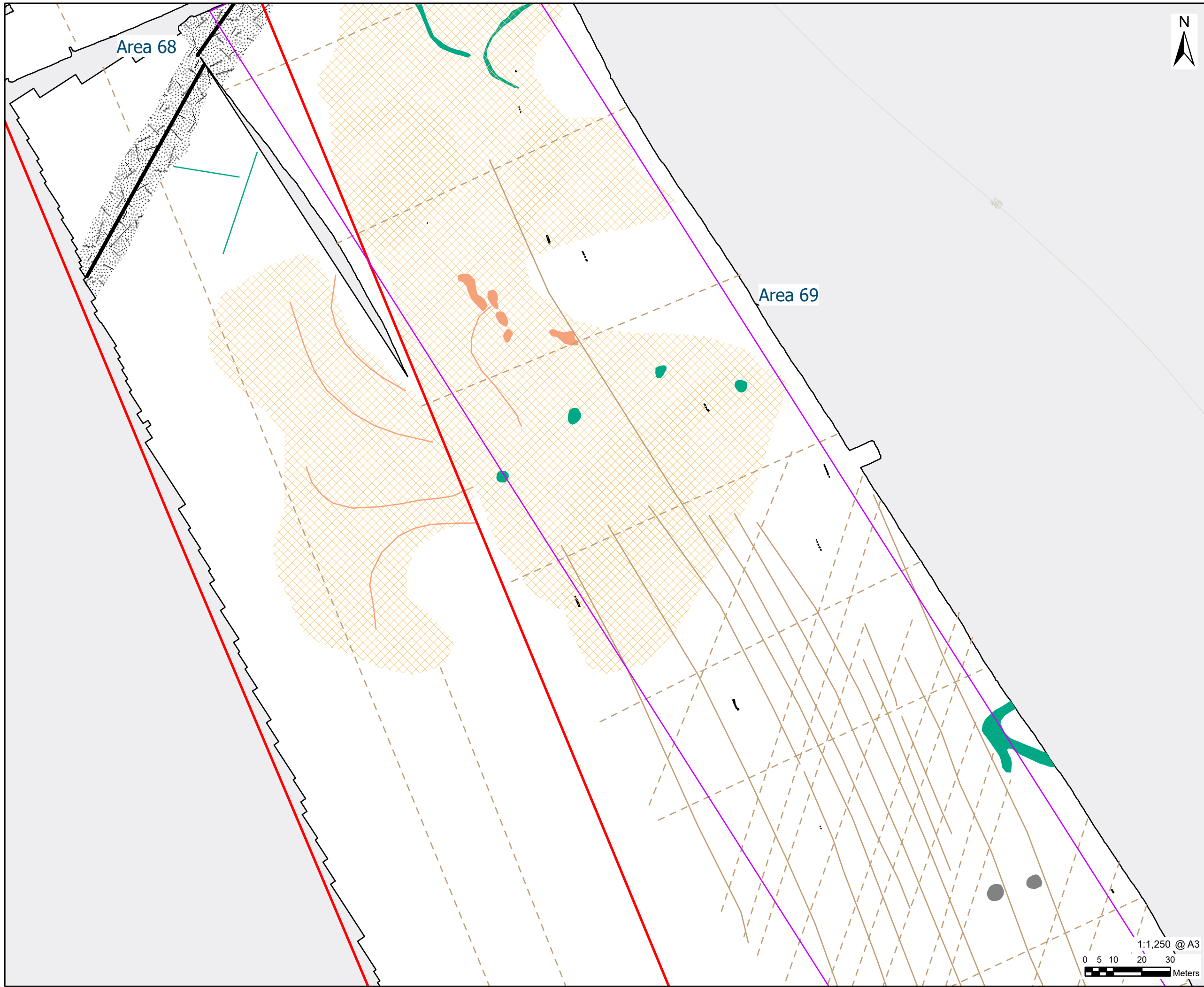


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FIGURE TITLE
Figure 5-49
Interpretation of Gradiometer Data Detailed

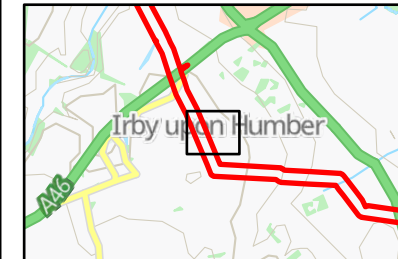
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-49





- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Geology/Natural)
 - Linear Trend (Service)

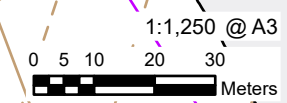
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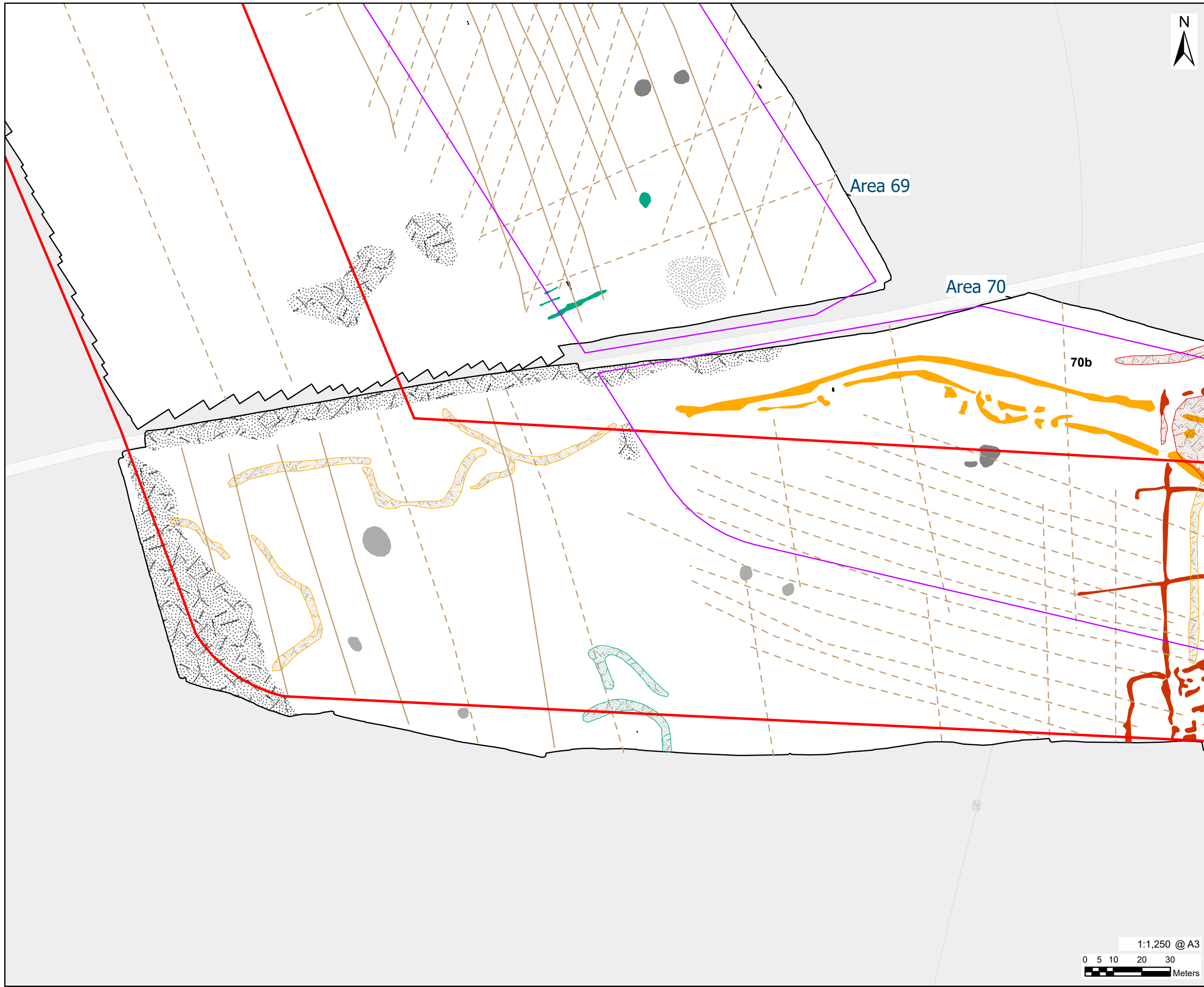


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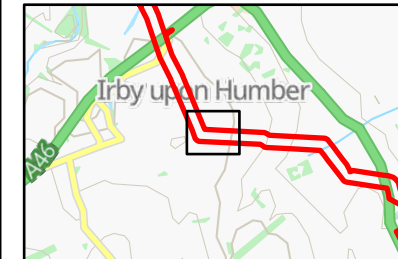
FIGURE TITLE
Figure 5-50
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-50





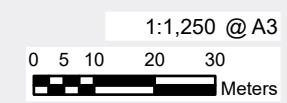
- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)



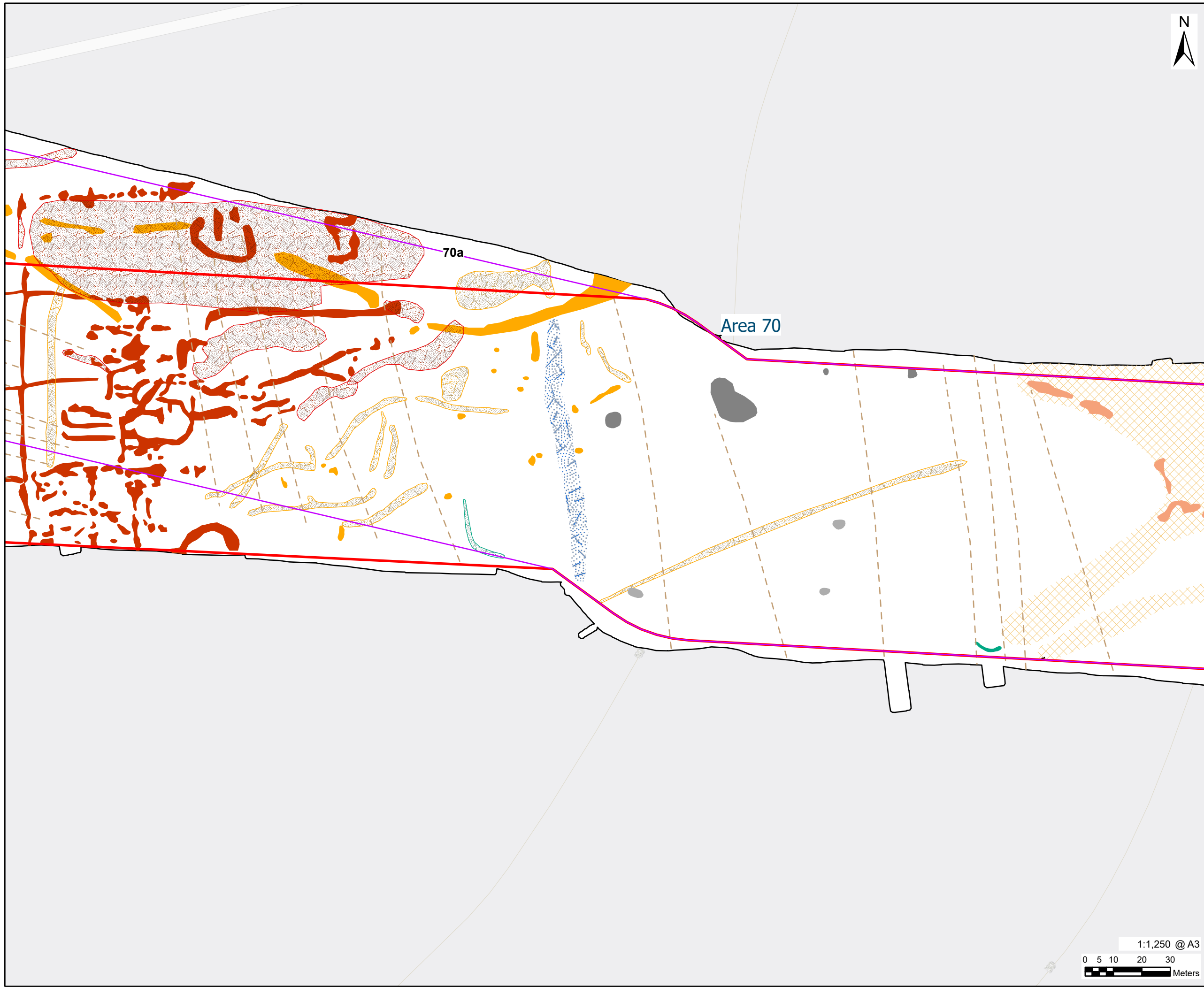
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FIGURE TITLE
Figure 5-51
Interpretation of Gradiometer Data Detailed

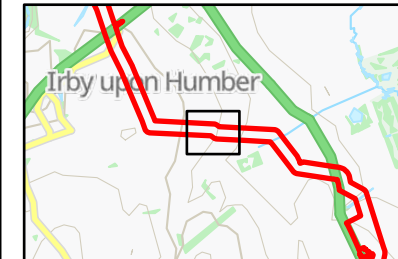
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-51



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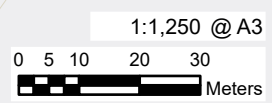
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Spread (Possible Archaeology)
 - Spread (Historic Feature)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)



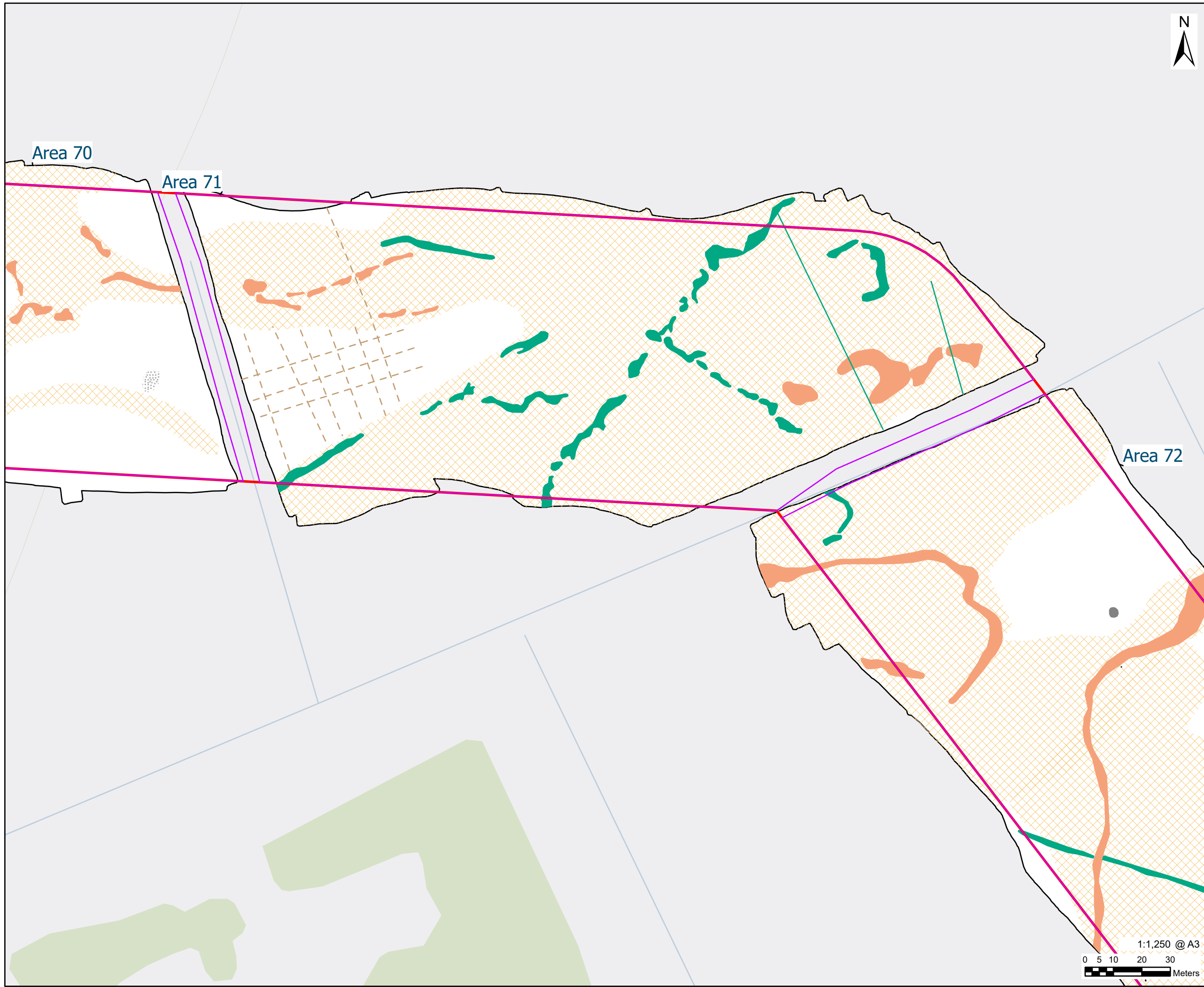
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FIGURE TITLE
Figure 5-52
Interpretation of Gradiometer Data Detailed

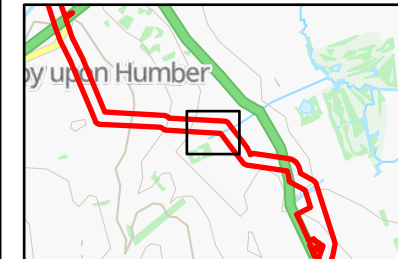
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-52



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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)

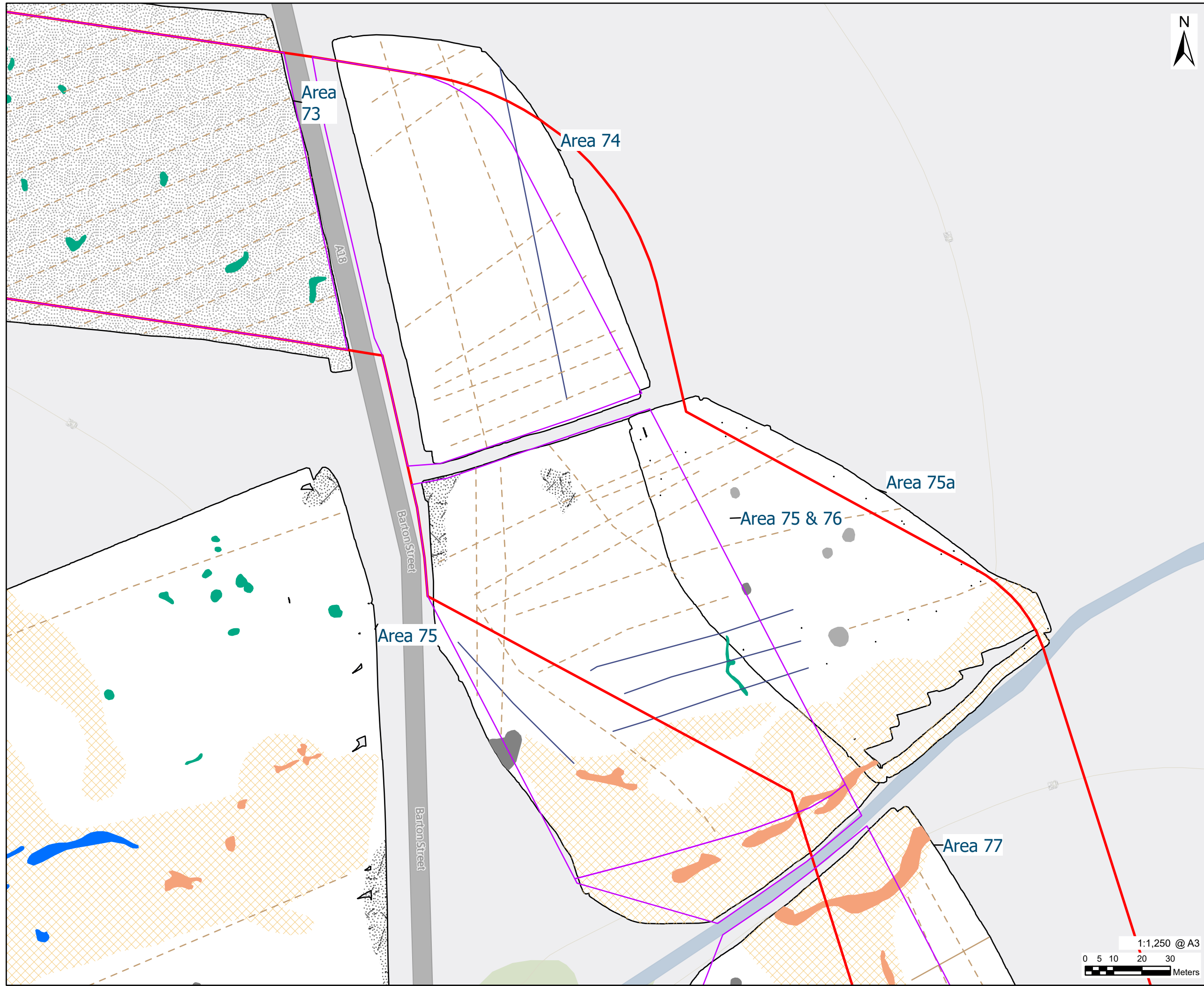


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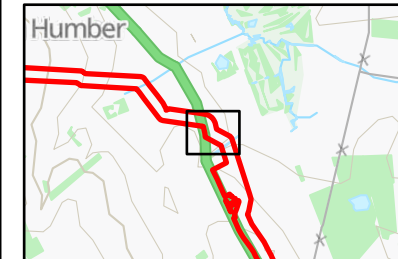
FIGURE TITLE
Figure 5-53
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-53

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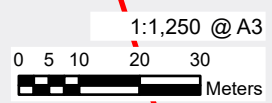
- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Historic Feature)
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)



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FIGURE TITLE
Figure 5-55
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-55

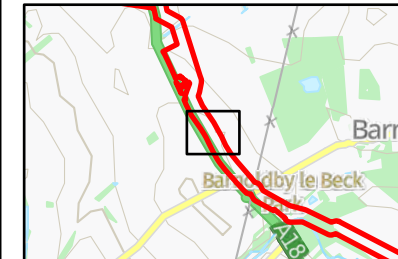


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- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ridge and Furrow)

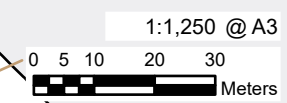
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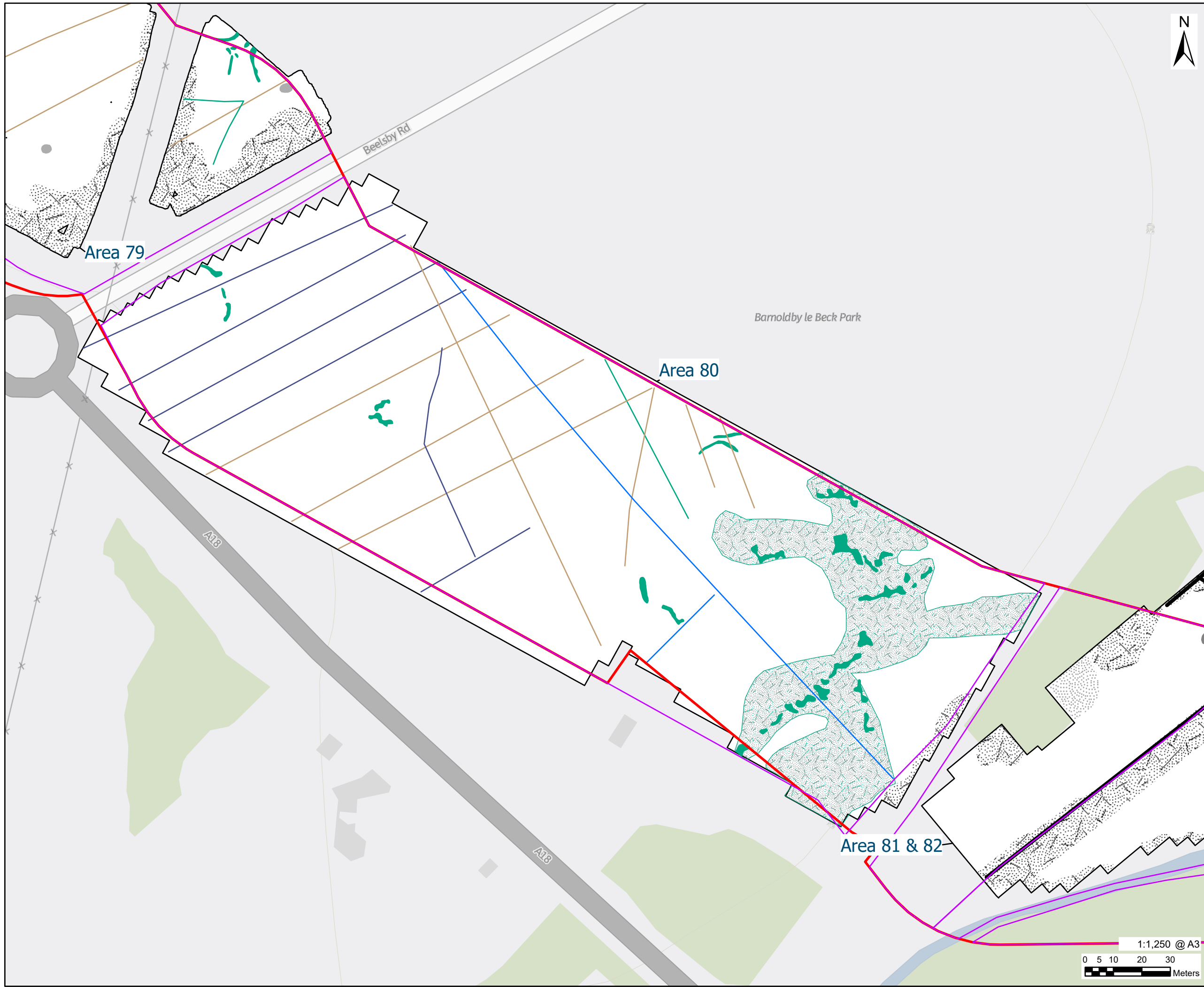


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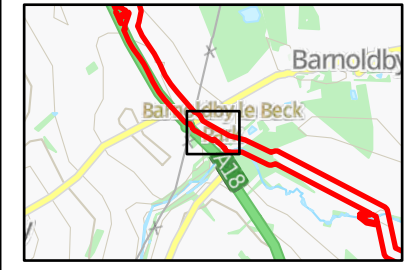
FIGURE TITLE
Figure 5-58
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-58





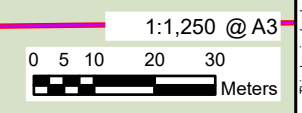
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)
 - Linear Trend (Service)



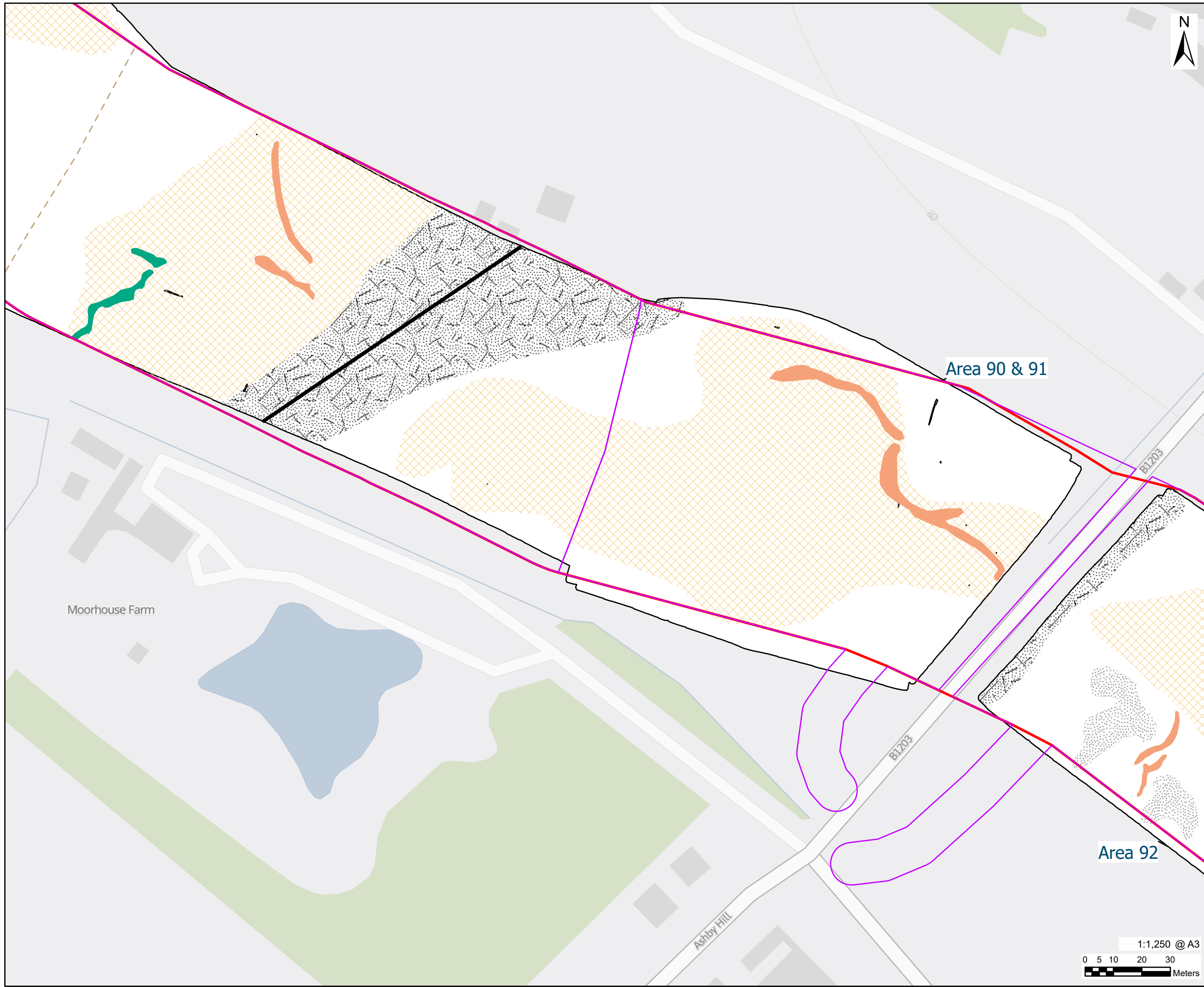
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FIGURE TITLE
Figure 5-60
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-60

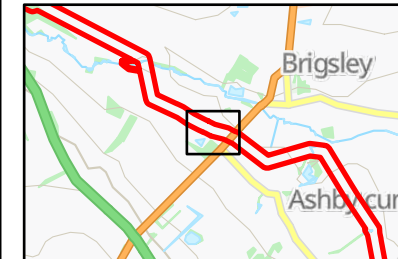


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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Service)

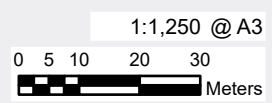
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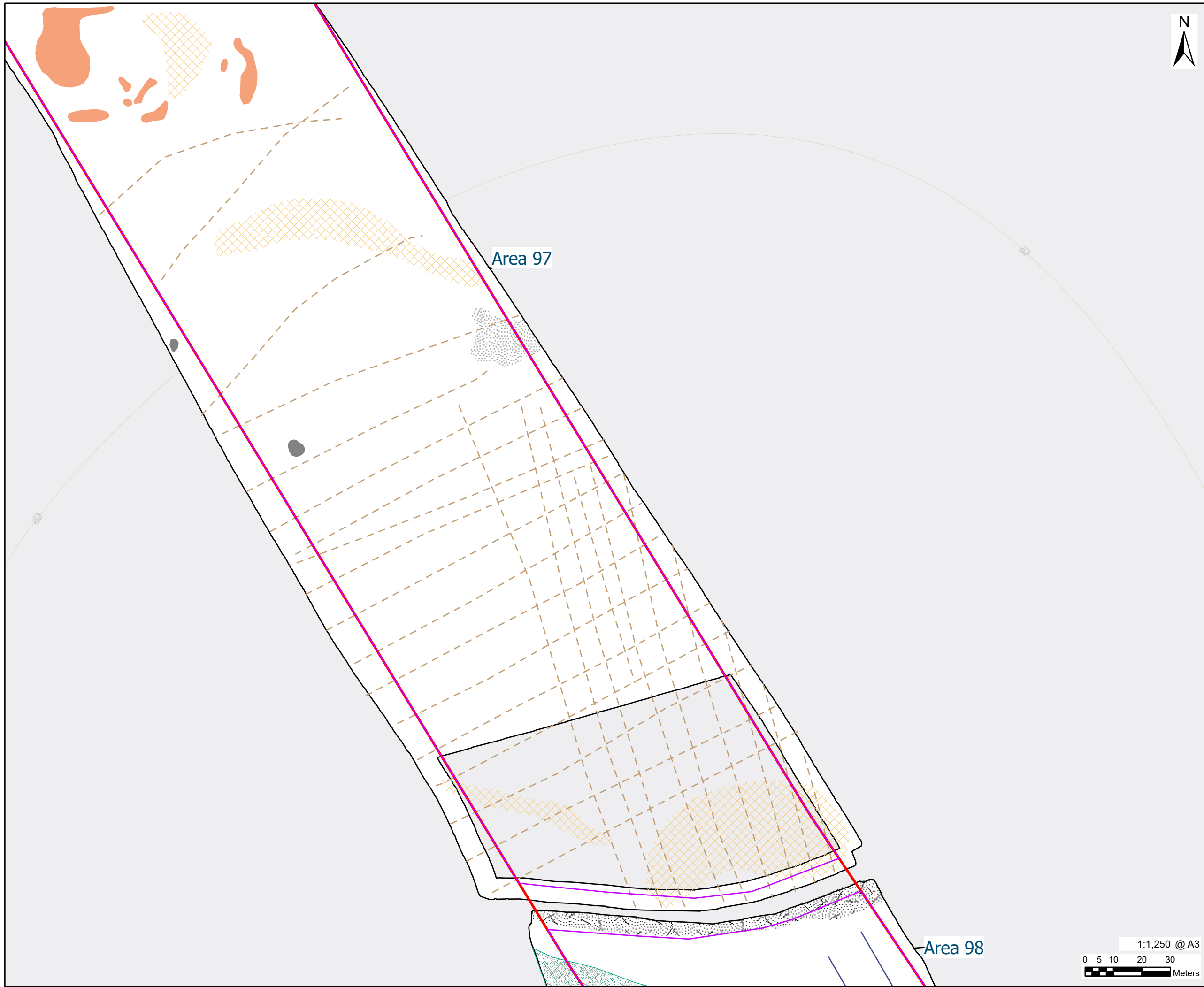


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FIGURE TITLE
Figure 5-66
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-66





- LEGEND**
- Initial Redline
 - Updated Redline
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)

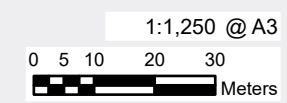
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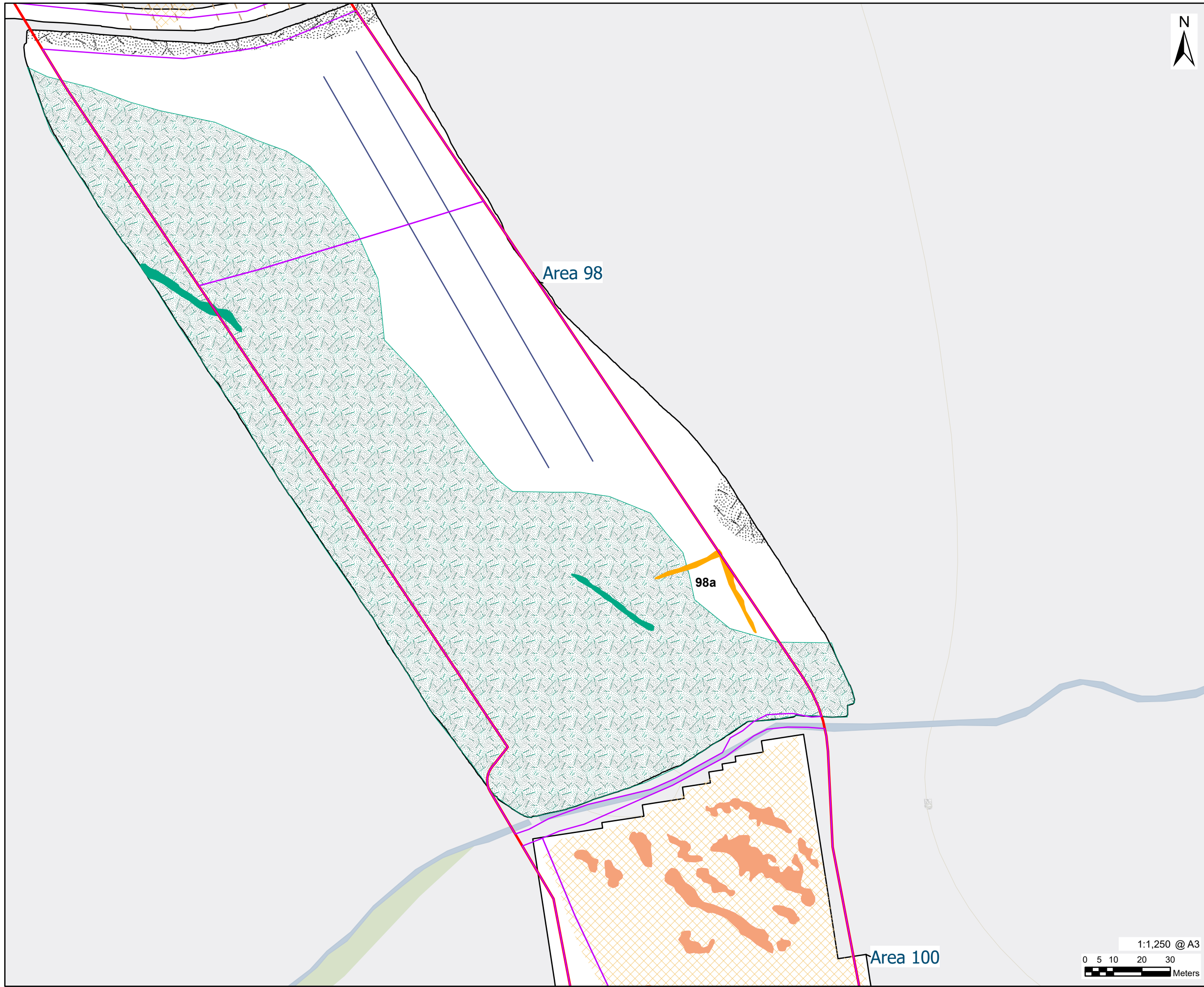


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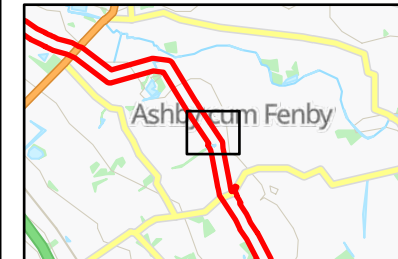
FIGURE TITLE
Figure 5-69
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-69





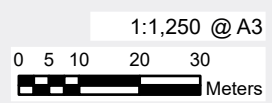
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)



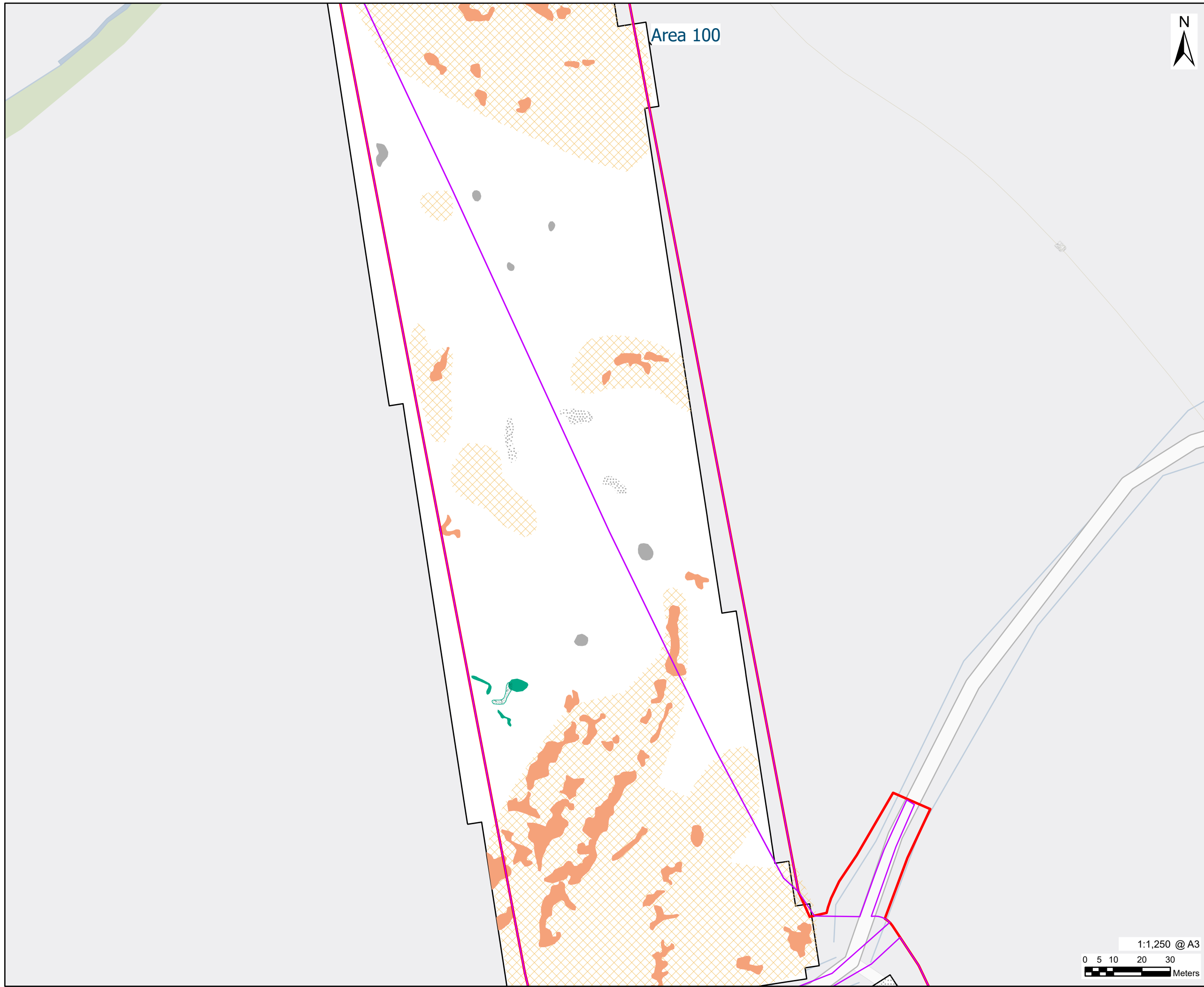
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FIGURE TITLE
Figure 5-70
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-70



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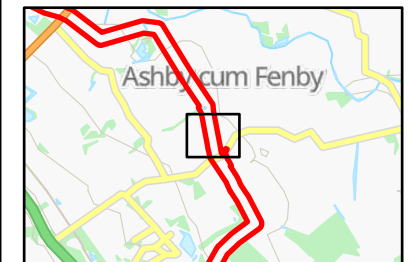
Area 100



LEGEND

- Initial Redline
- Updated Redline
- Anomaly (Unclear Origin)
- Spread (Unclear Origin)
- Anomaly (Geology/Natural)
- Spread (Geology/Natural)
- Anomaly (Ferrous/Iron Spike)
- Spread (Ferrous/Iron Spike)

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FIGURE TITLE

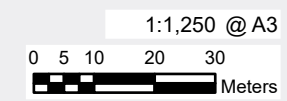
Figure 5-71
Interpretation of Gradiometer Data
Detailed

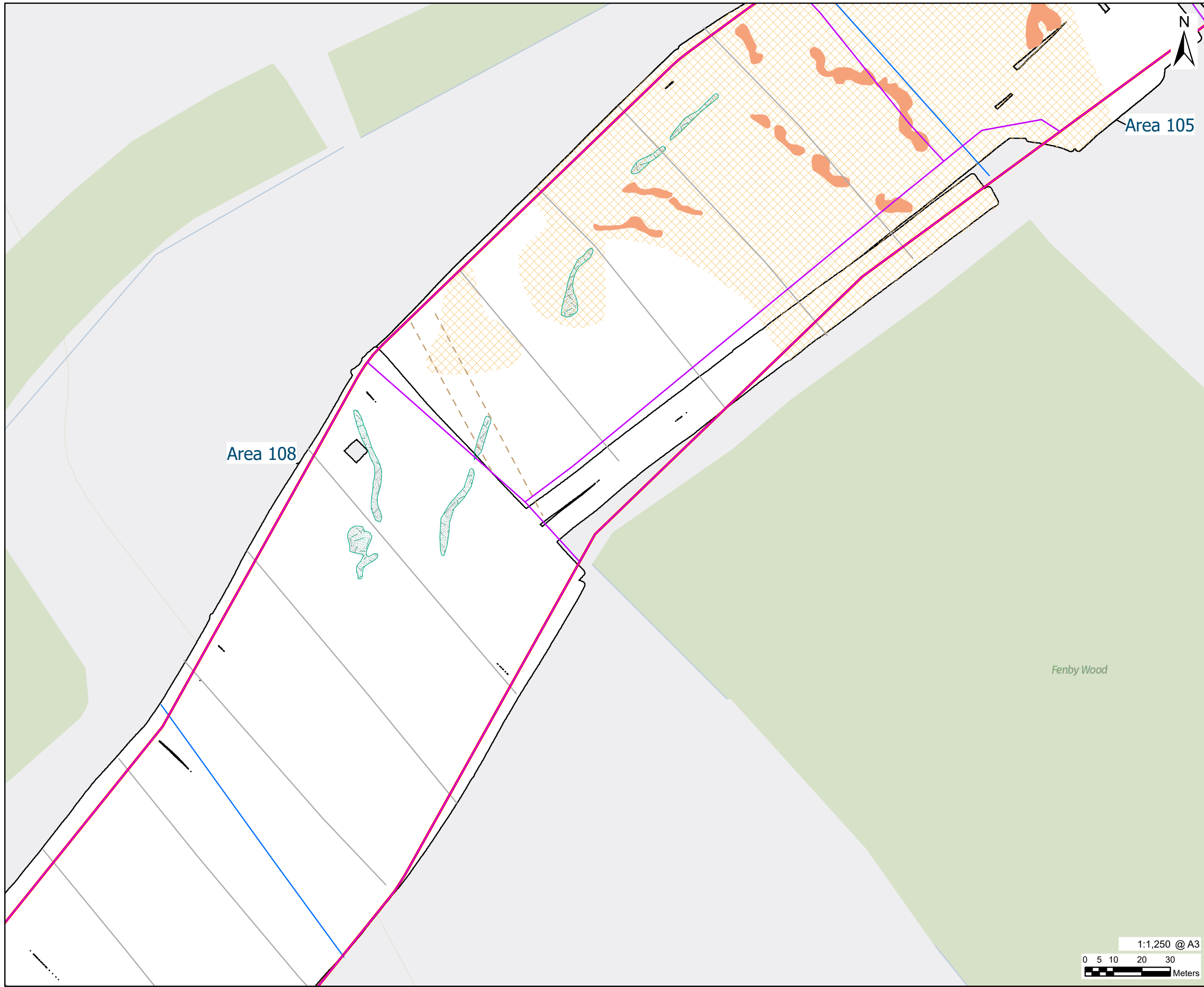
ISSUE PURPOSE

ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

60668955 / VCCS_231212_ES_5-71

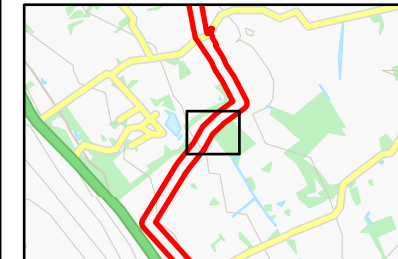




- LEGEND**
- Initial Redline
 - Updated Redline
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Ferrous/Iron Spike)

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Fenby Wood

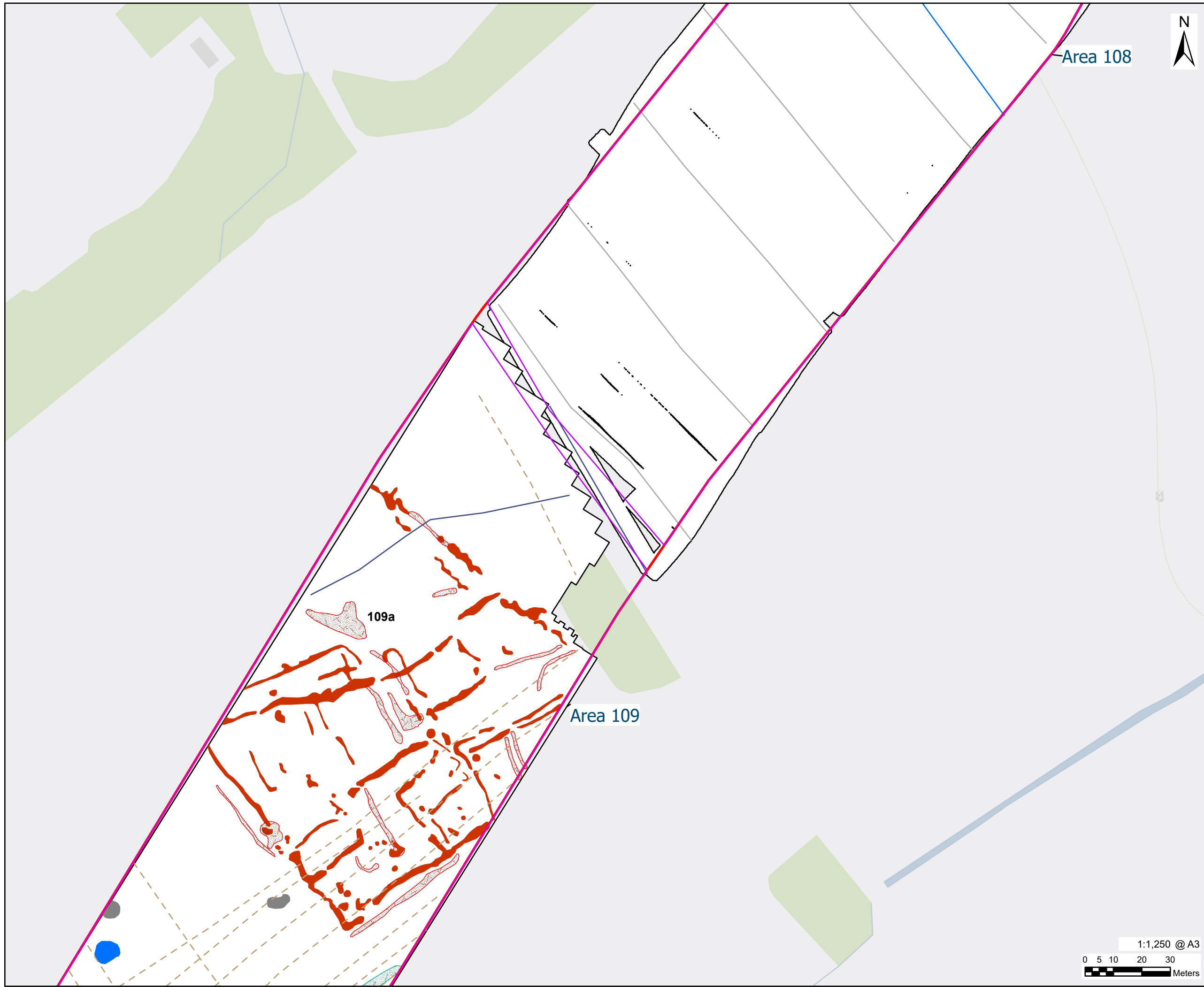


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FIGURE TITLE
Figure 5-74
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-74

1:1,250 @ A3
0 5 10 20 30
Meters



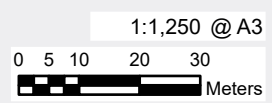
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Historic Feature)
 - Spread (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)
 - Linear Trend (Ferrous/Iron Spike)



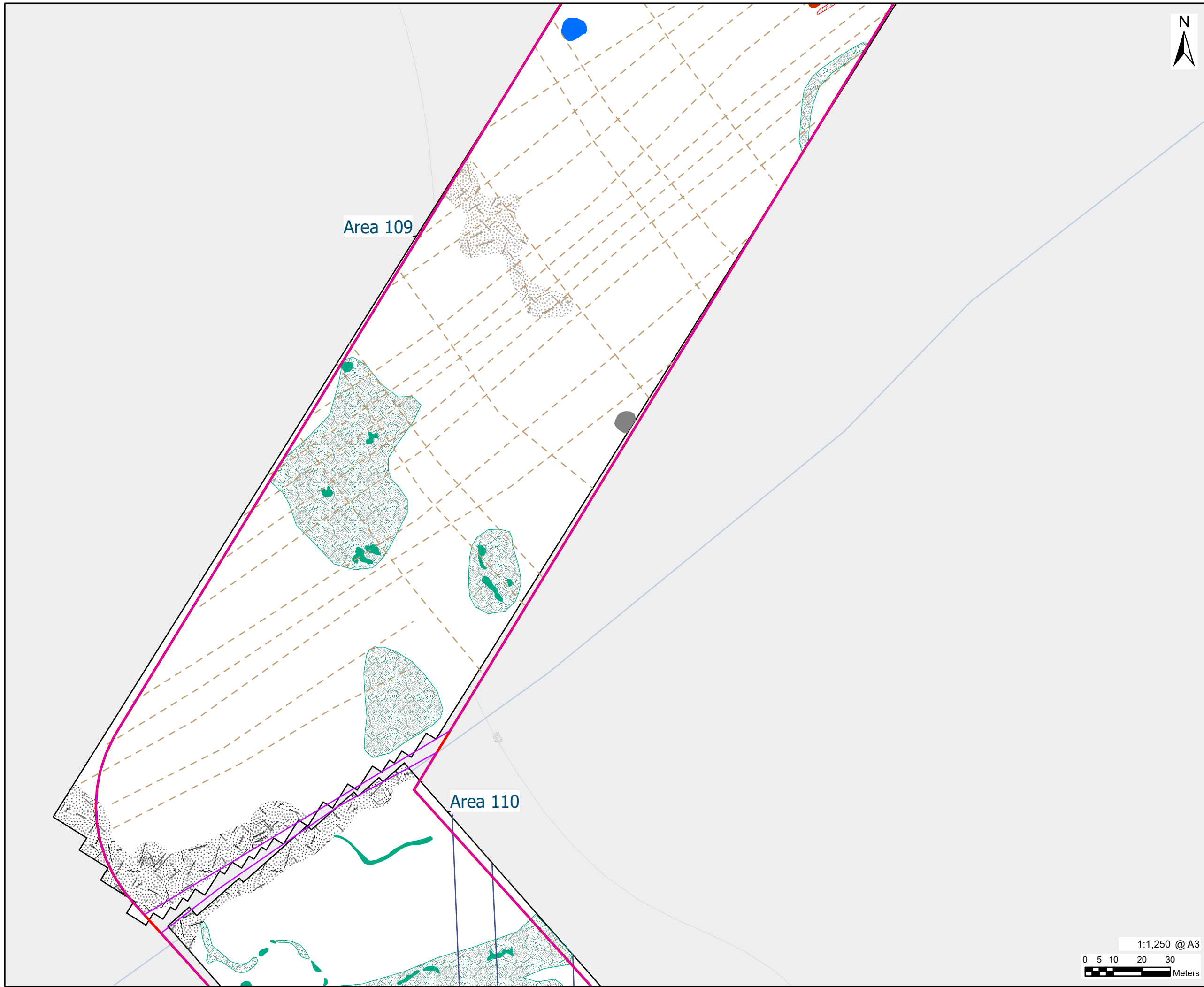
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FIGURE TITLE
Figure 5-75
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-75



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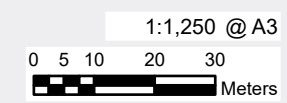
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Historic Feature)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Agricultural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)



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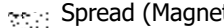
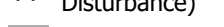
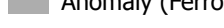
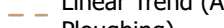
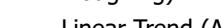

FIGURE TITLE
Figure 5-76
Interpretation of Gradiometer Data Detailed

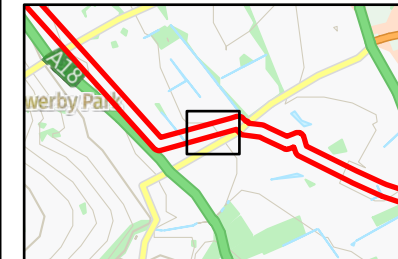
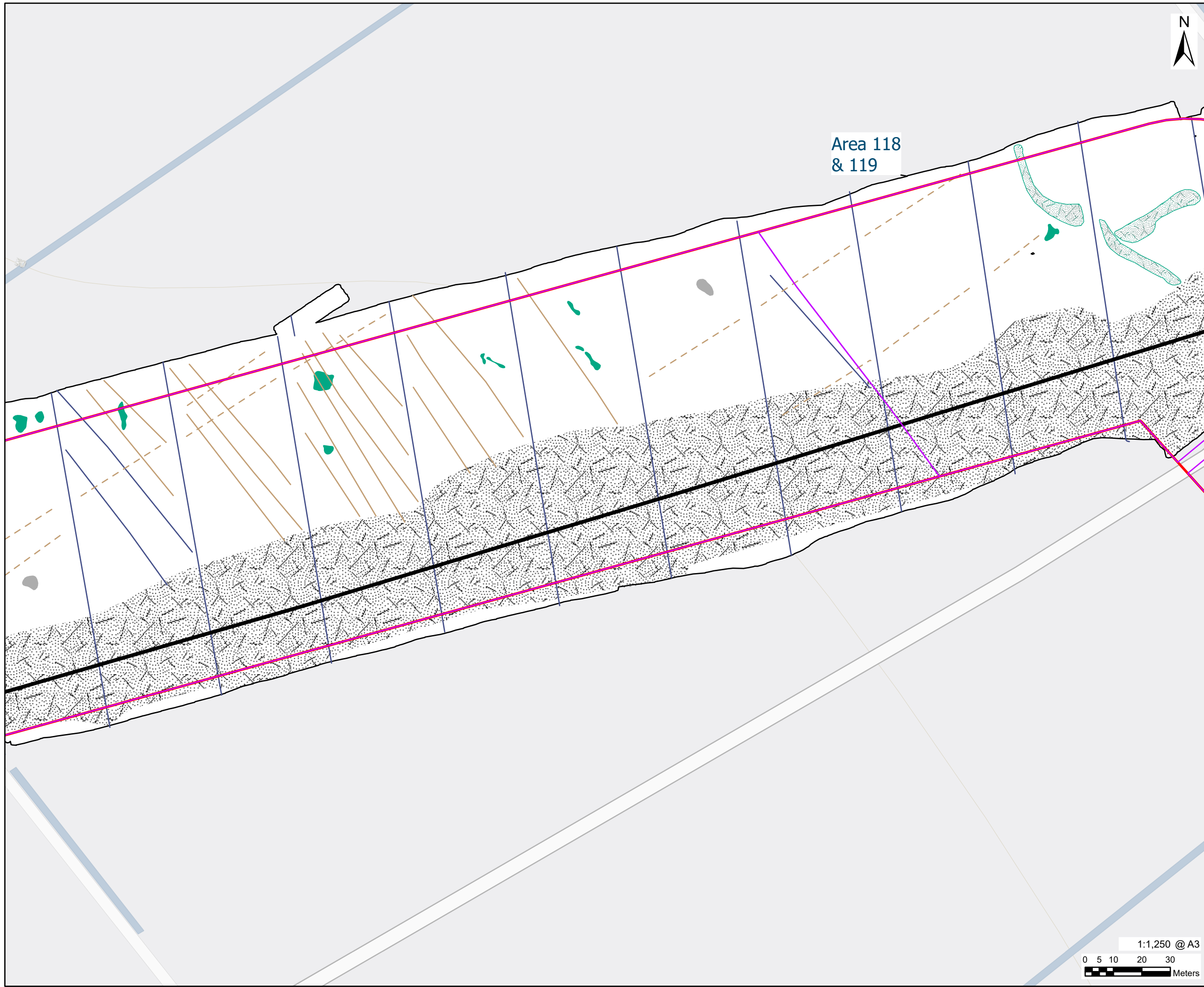
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-76



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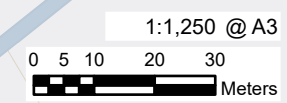
- LEGEND**
-  Initial Redline
 -  Updated Redline
 -  Anomaly (Unclear Origin)
 -  Spread (Unclear Origin)
 -  Spread (Magnetic Disturbance)
 -  Anomaly (Ferrous/Iron Spike)
 -  Linear Trend (Agricultural, Ploughing)
 -  Linear Trend (Agricultural, Ridge and Furrow)
 -  Linear Trend (Drainage)
 -  Linear Trend (Service)



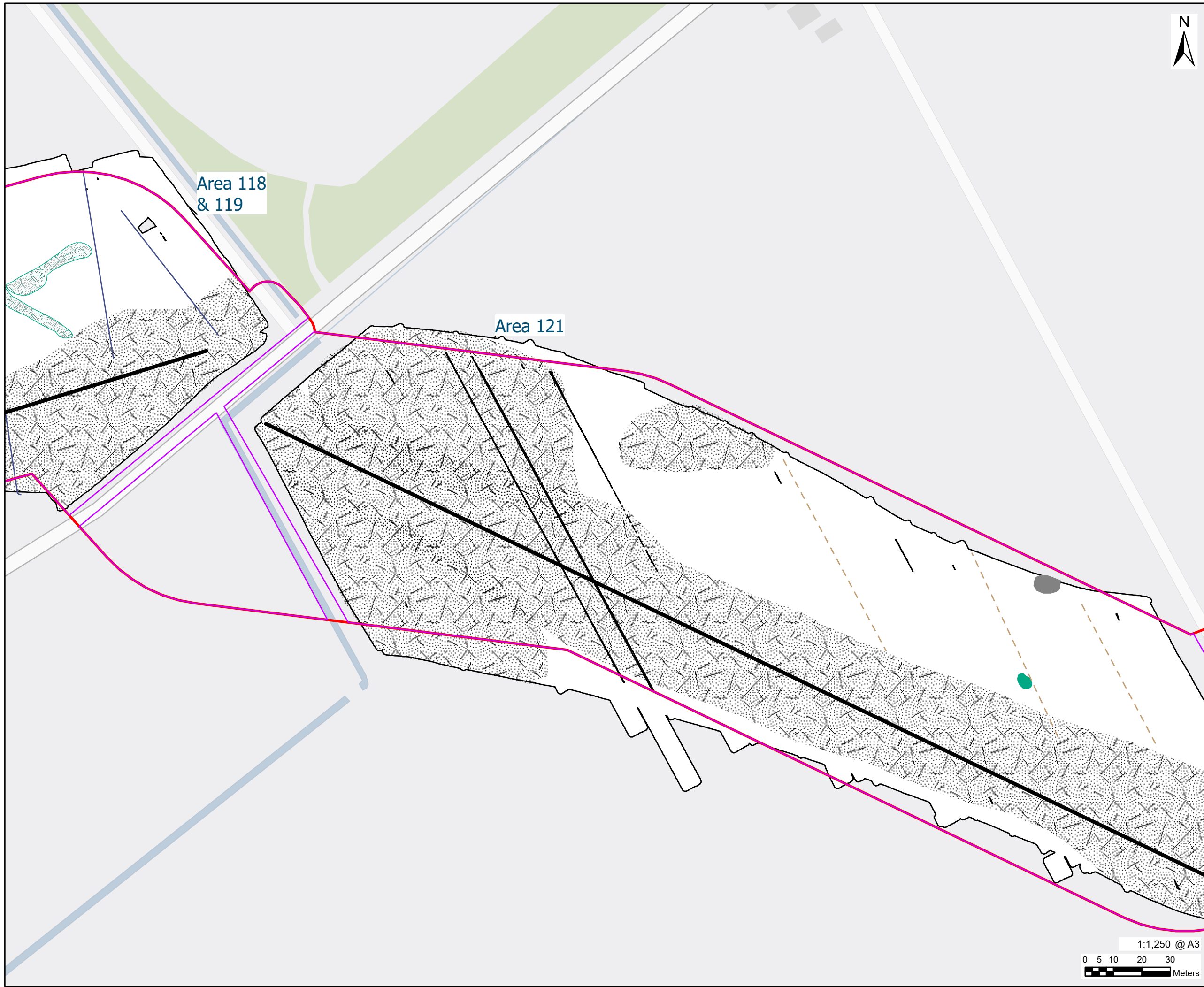
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FIGURE TITLE
Figure 5-82
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-82

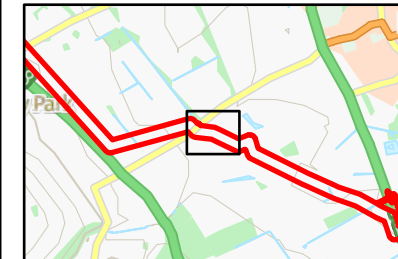


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- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)
 - Linear Trend (Service)

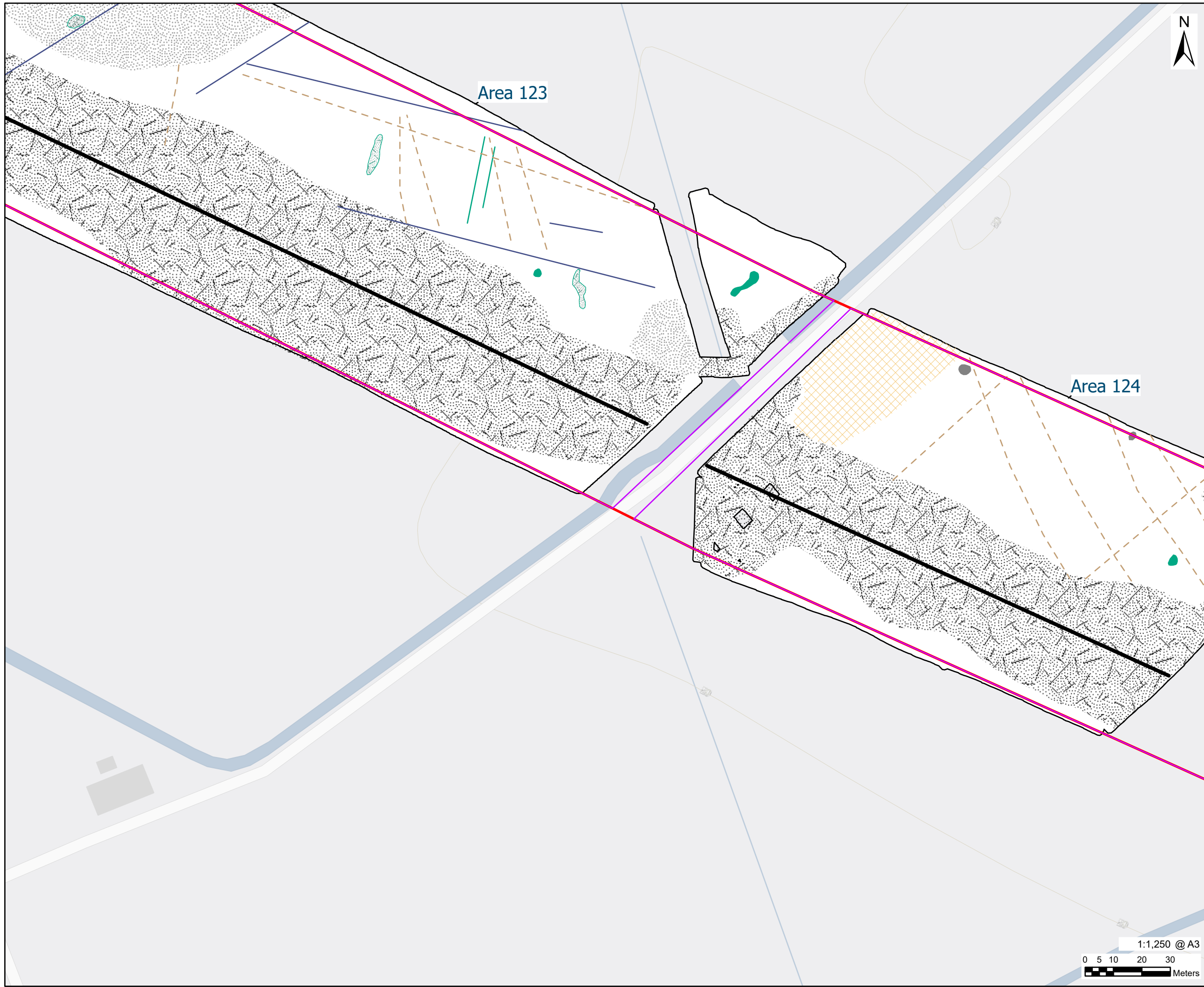
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FIGURE TITLE
Figure 5-83
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-83



LEGEND

- Initial Redline
- Updated Redline
- Anomaly (Unclear Origin)
- Spread (Unclear Origin)
- Spread (Geology/Natural)
- Anomaly (Magnetic Disturbance)
- Spread (Magnetic Disturbance)
- Spread (Ferrous/Iron Spike)
- Linear Trend (Unclear Origin)
- Linear Trend (Agricultural, Ploughing)
- Linear Trend (Drainage)
- Linear Trend (Service)



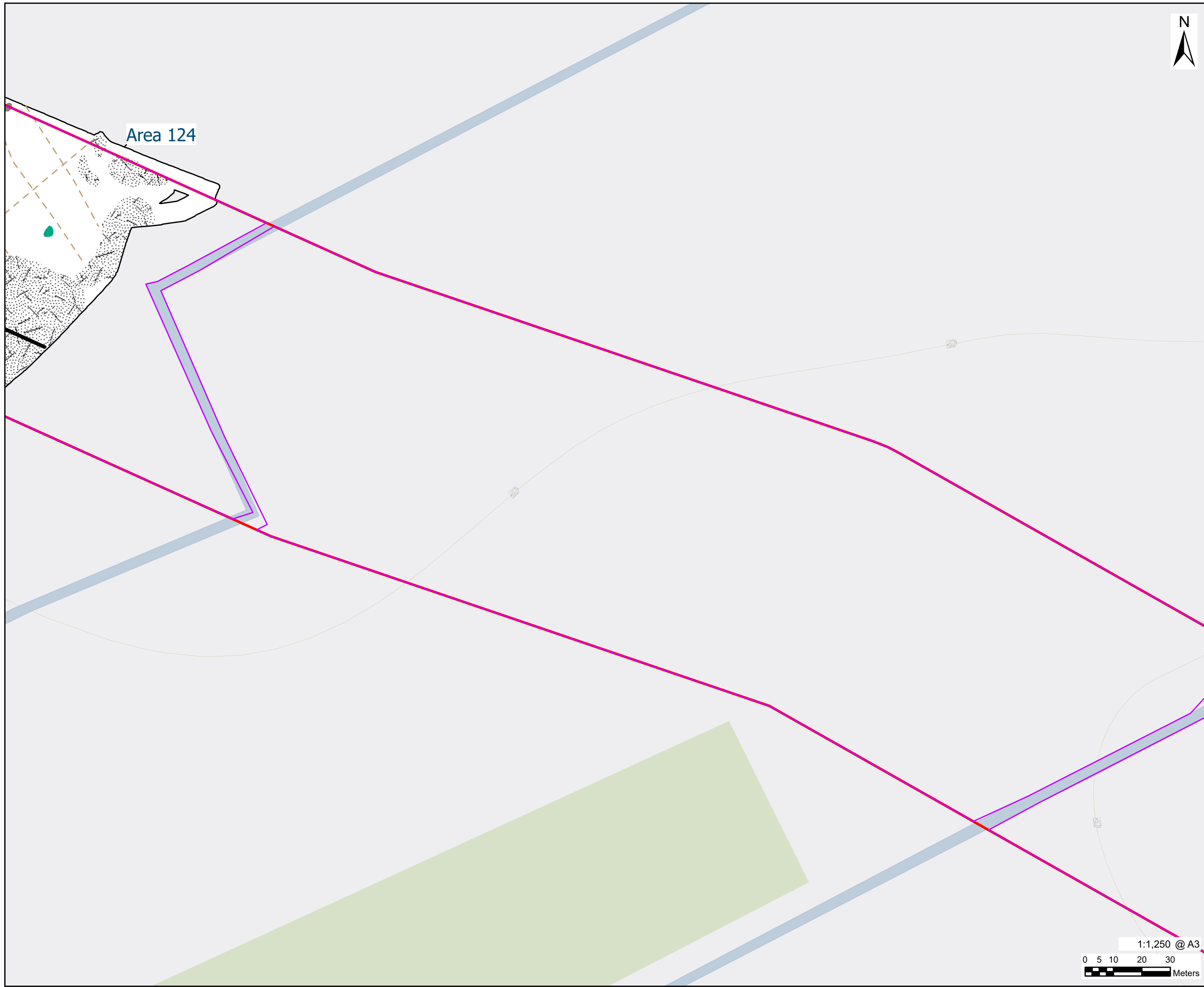
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FIGURE TITLE
Figure 5-85
Interpretation of Gradiometer Data Detailed

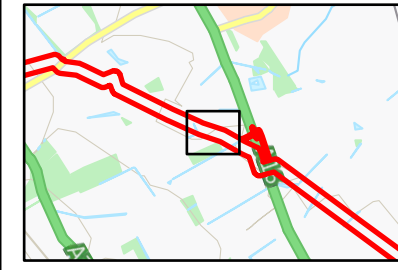
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-85

1:1,250 @ A3
0 5 10 20 30
Meters

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- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Service)

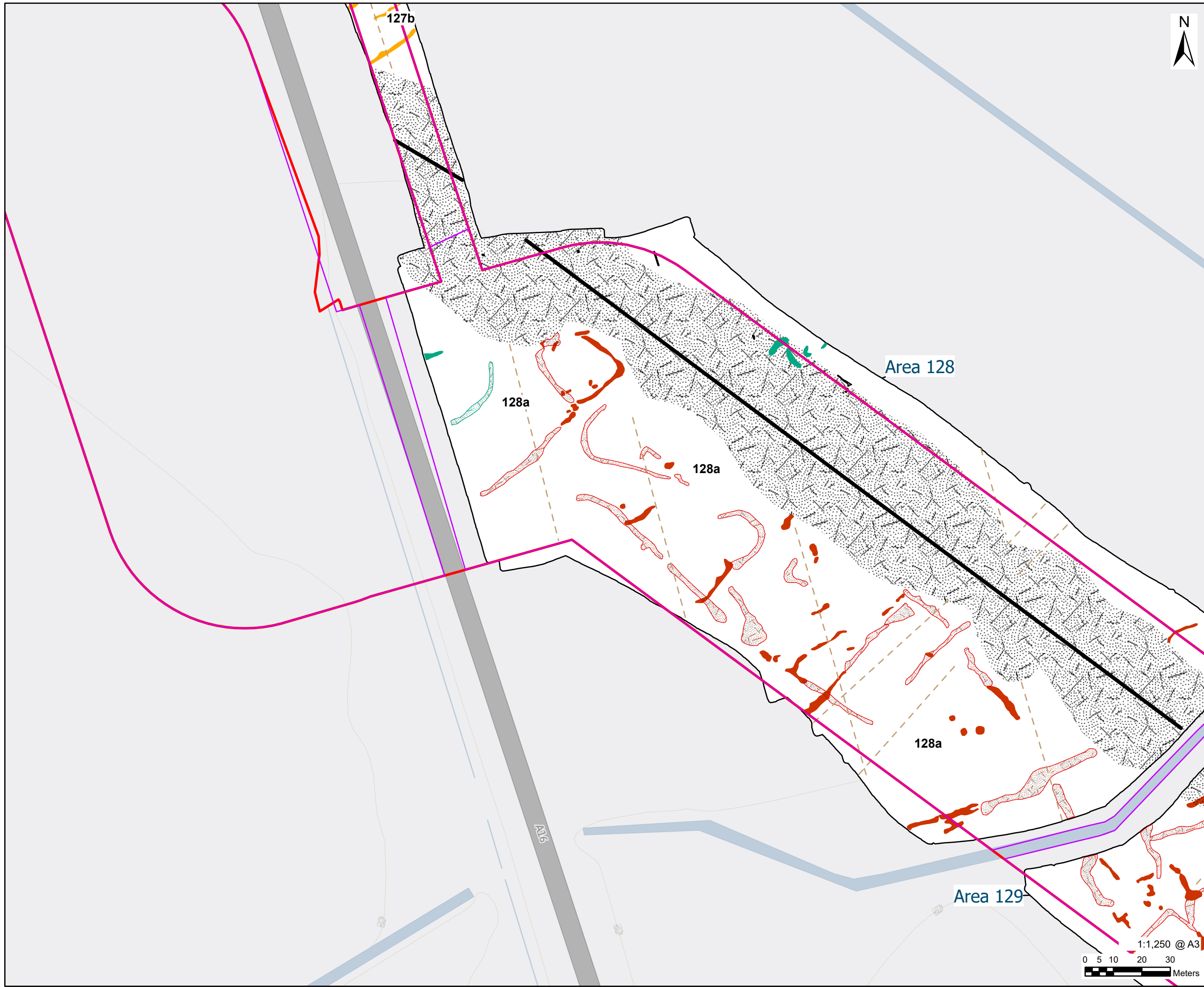


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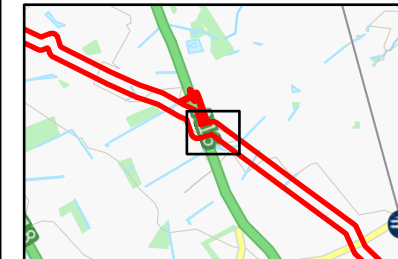
FIGURE TITLE
Figure 5-86
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-86

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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Probable Archaeology)
 - Spread (Probable Archaeology)
 - Anomaly (Possible Archaeology)
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Service)



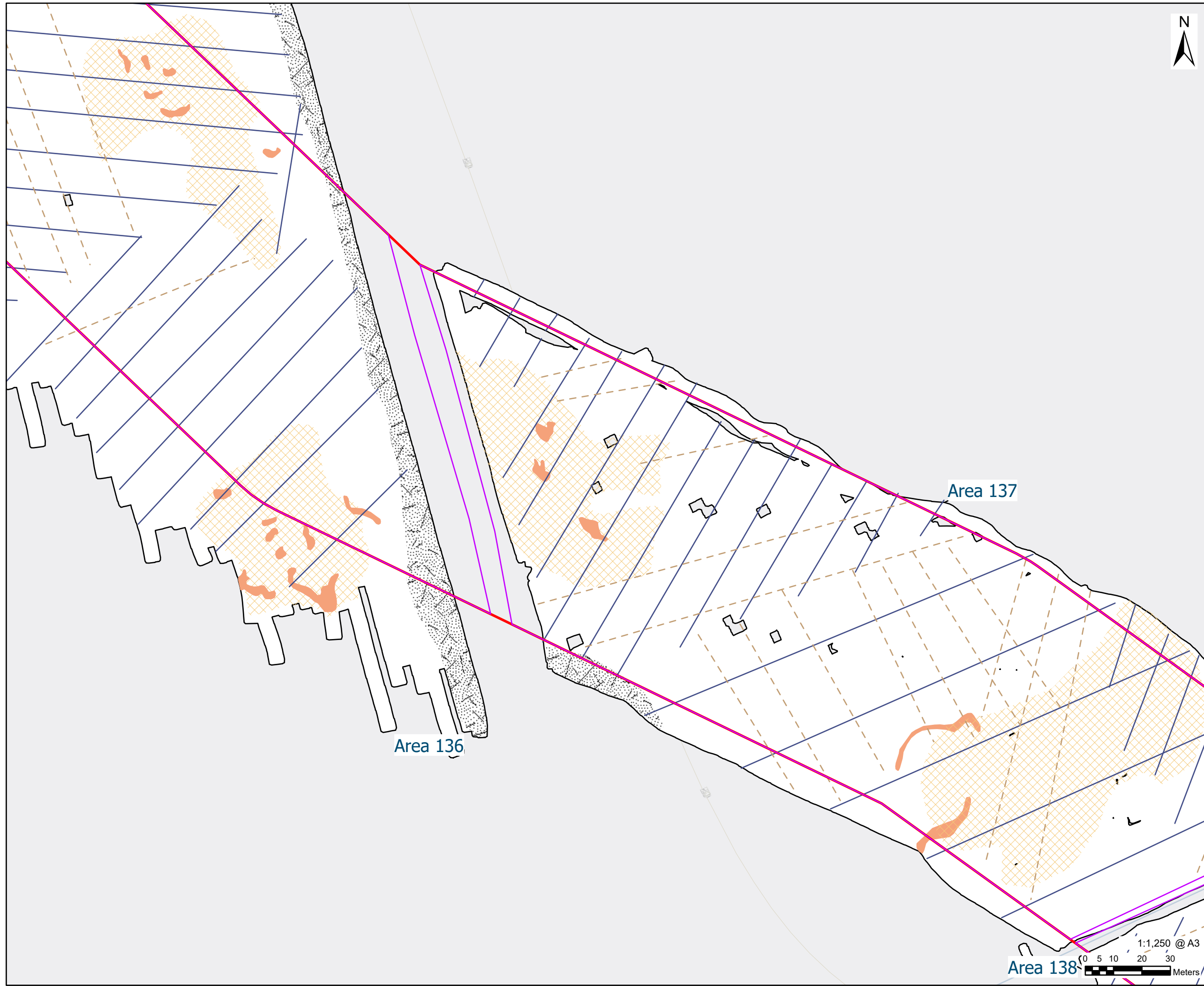
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FIGURE TITLE
Figure 5-88
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-88



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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Drainage)

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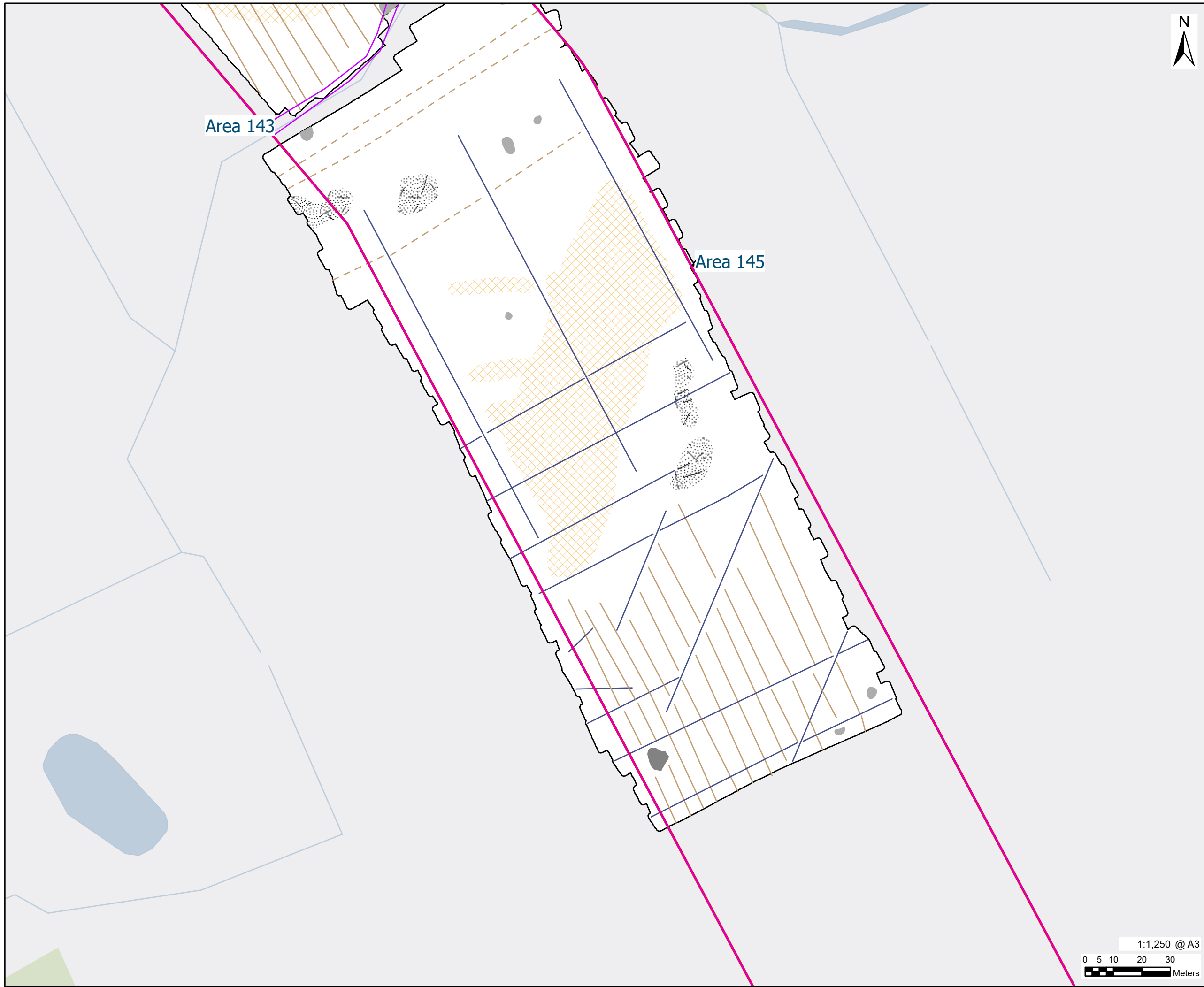


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FIGURE TITLE
Figure 5-94
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-94

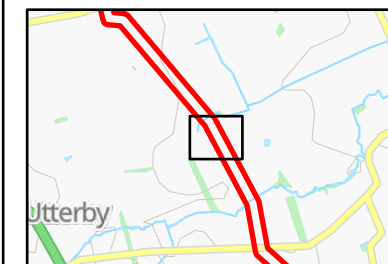
1:1,250 @ A3
0 5 10 20 30 Meters



LEGEND

- Initial Redline
- Updated Redline
- Spread (Geology/Natural)
- Anomaly (Magnetic Disturbance)
- Spread (Magnetic Disturbance)
- Anomaly (Ferrous/Iron Spike)
- Linear Trend (Agricultural, Ploughing)
- Linear Trend (Agricultural, Ridge and Furrow)
- Linear Trend (Drainage)

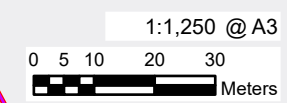
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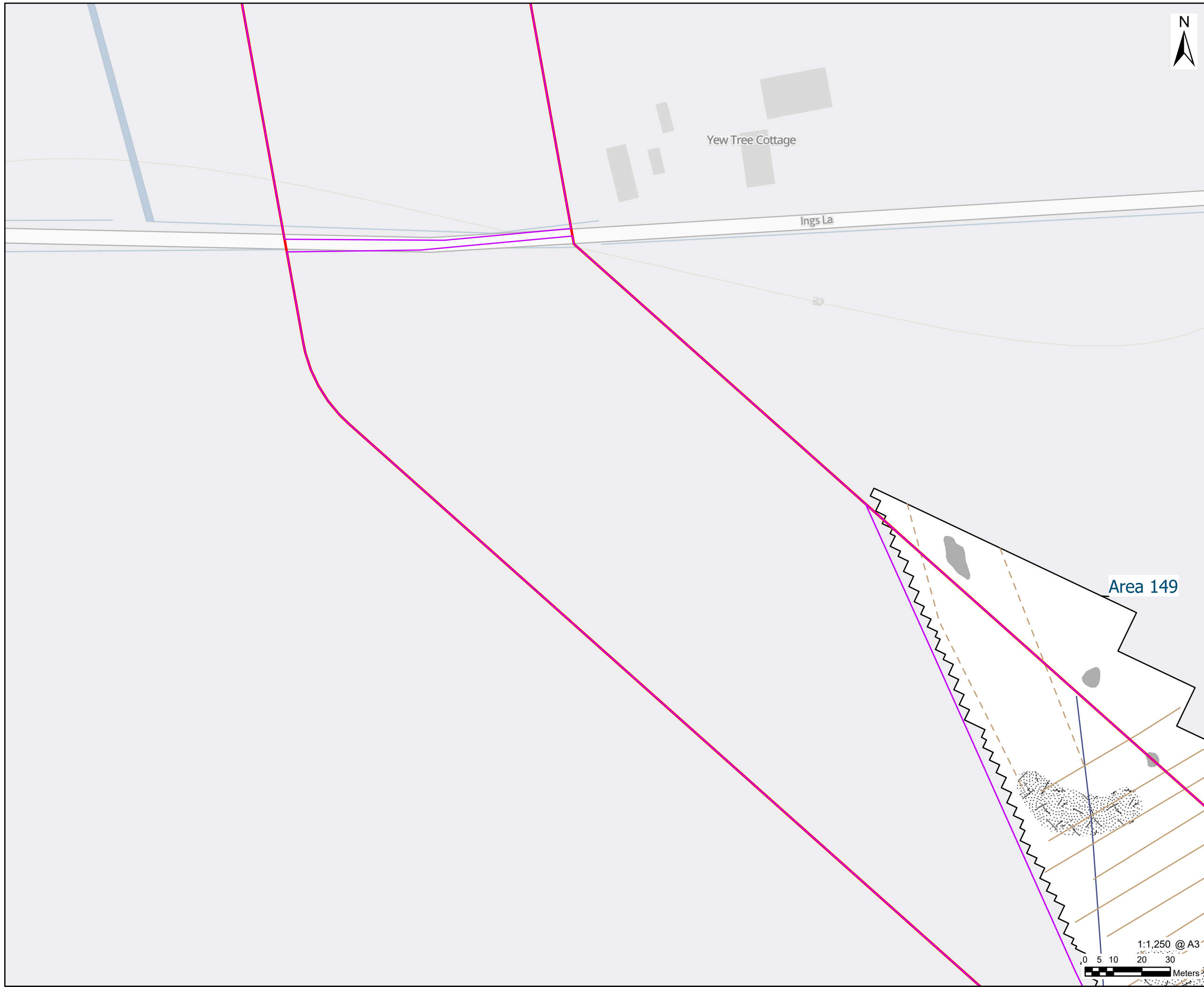


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FIGURE TITLE
Figure 5-99
Interpretation of Gradiometer Data
Detailed

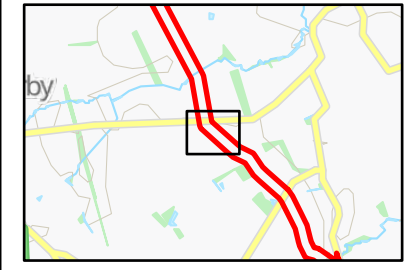
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-99





- LEGEND
- Initial Redline
 - Updated Redline
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)

Area 149

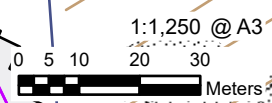


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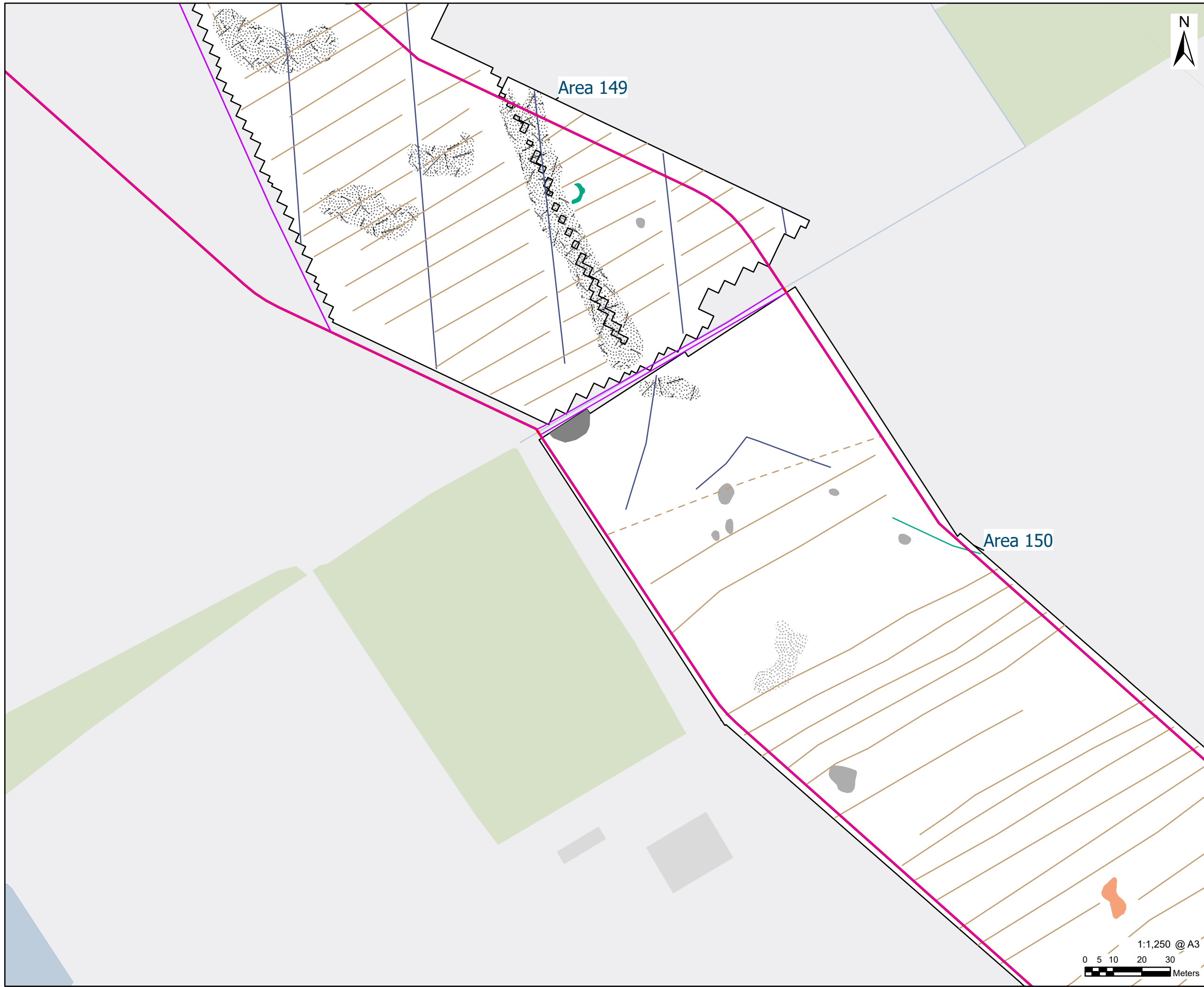
FIGURE TITLE
Figure 5-102
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE

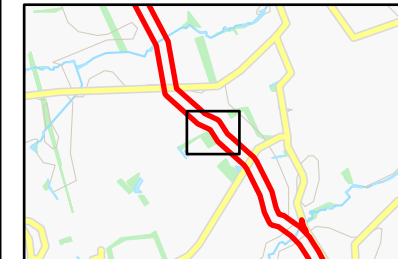
60668955 / VCCS_231212_ES_5-102



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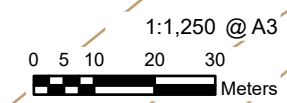
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Unclear Origin)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)
 - Linear Trend (Drainage)



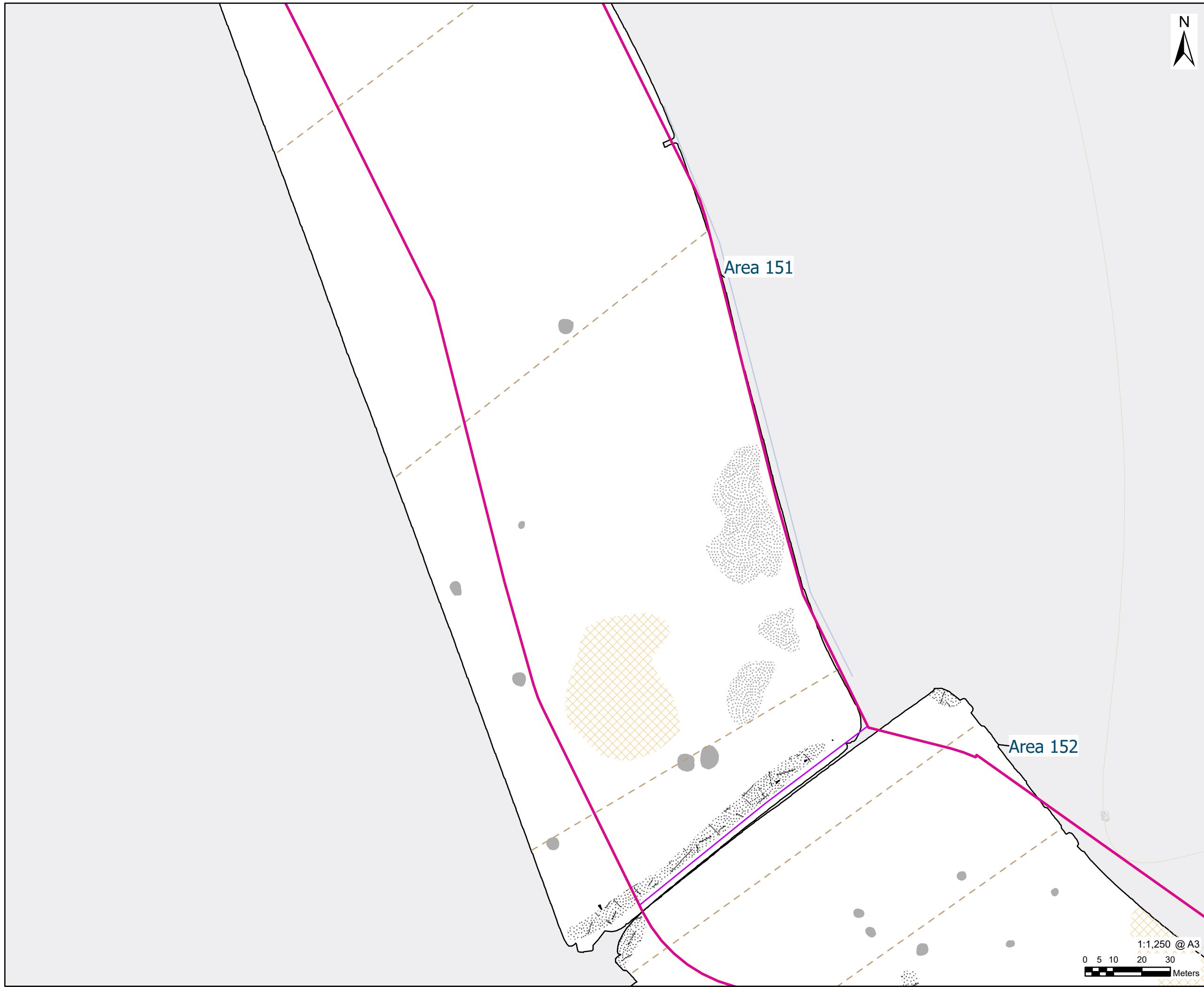
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FIGURE TITLE
Figure 5-103
Interpretation of Gradiometer Data
Detailed

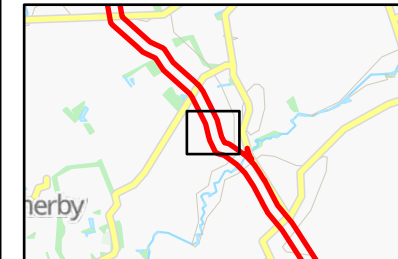
ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-103



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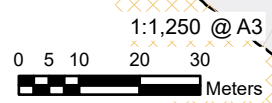
- LEGEND**
- Initial Redline
 - Updated Redline
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)



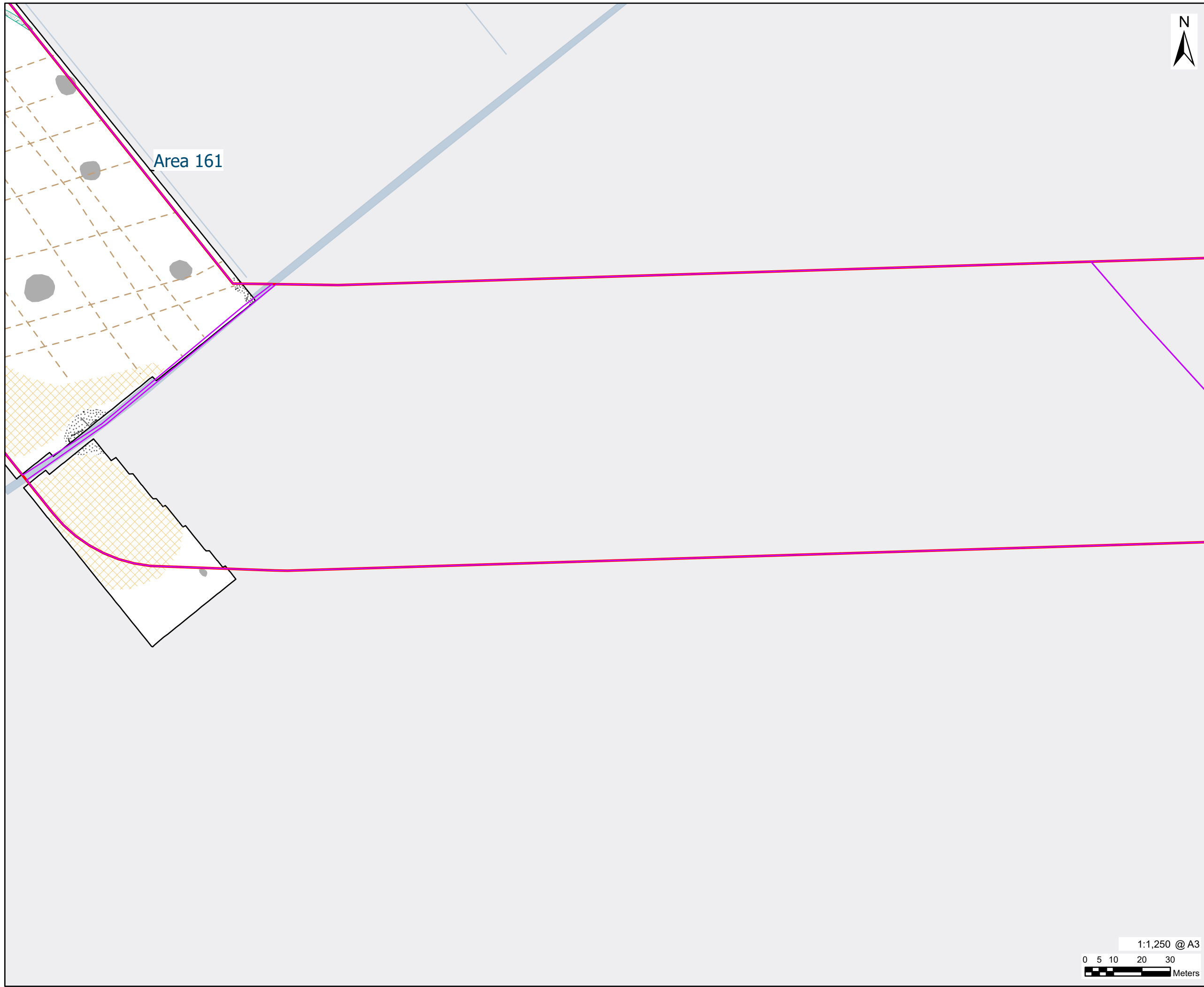
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FIGURE TITLE
Figure 5-105
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-105



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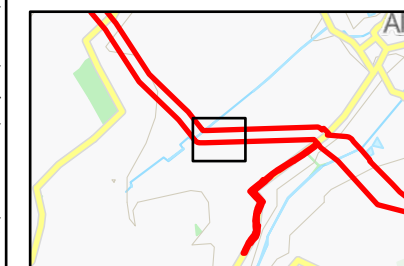
PROJECT

Viking CCS Pipeline

LEGEND

- Initial Redline
- Updated Redline
- Spread (Unclear Origin)
- Spread (Geology/Natural)
- Spread (Magnetic Disturbance)
- Anomaly (Ferrous/Iron Spike)
- Linear Trend (Agricultural, Ploughing)

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FIGURE TITLE

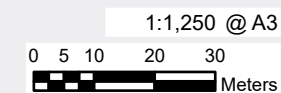
Figure 5-111
Interpretation of Gradiometer Data
Detailed

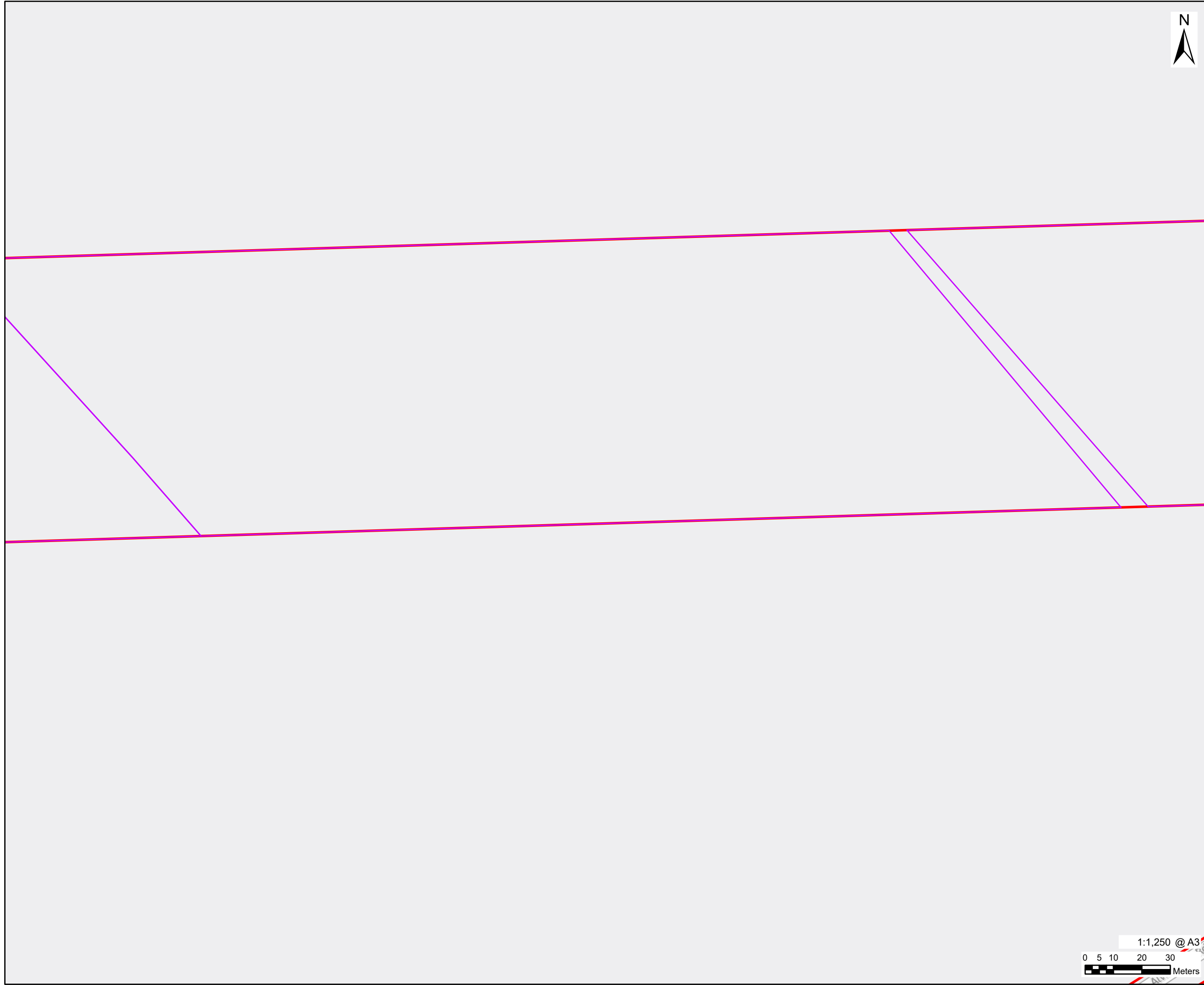
ISSUE PURPOSE



ARCHAEOLOGICAL GEOPHYSICAL SURVEY

PROJECT NUMBER / REFERENCE

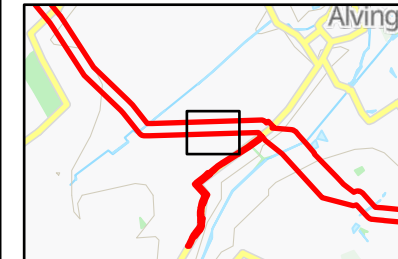
60668955 / VCCS_231212_ES_5-111





- LEGEND
-  Initial Redline
 -  Updated Redline

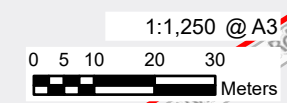
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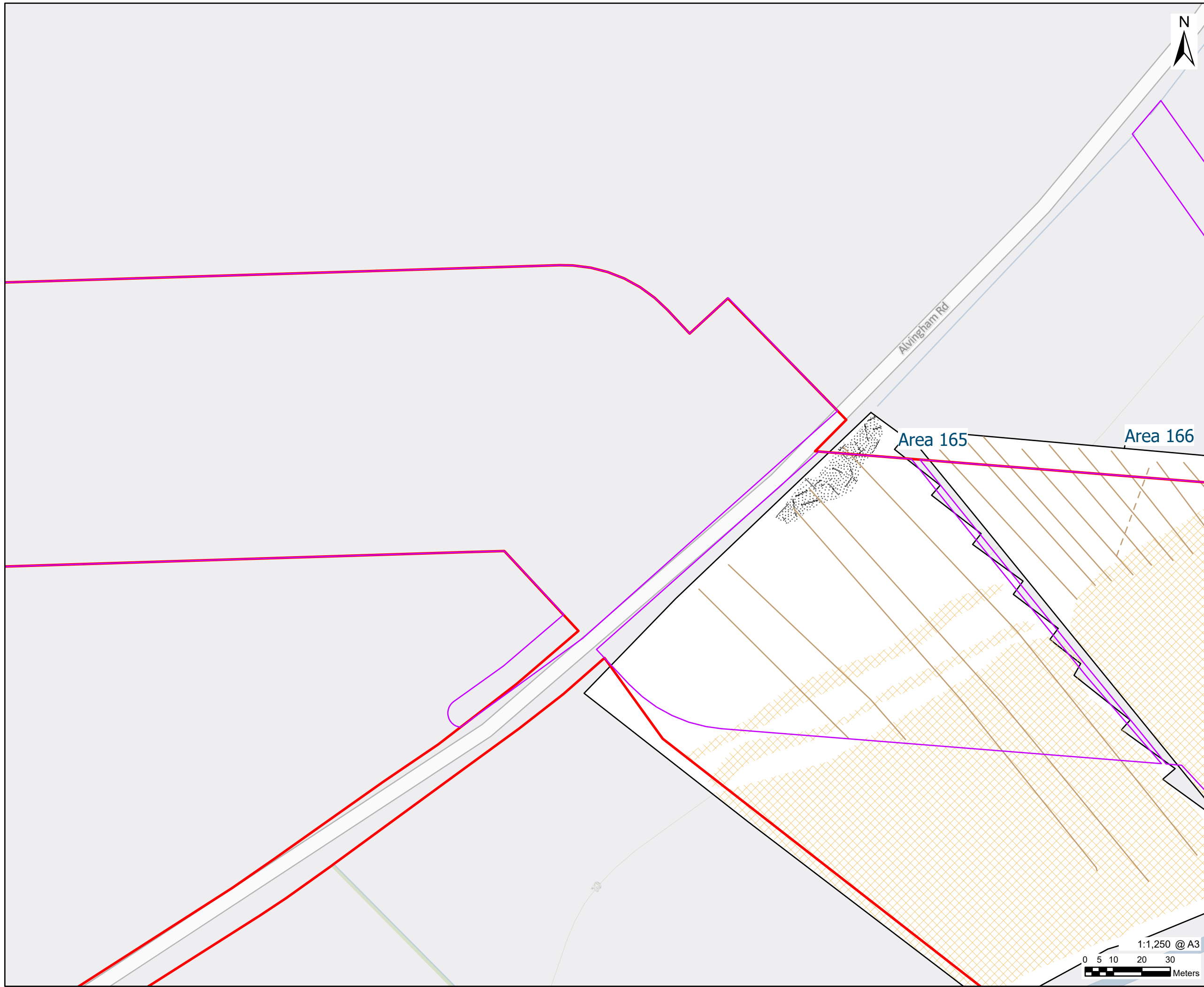


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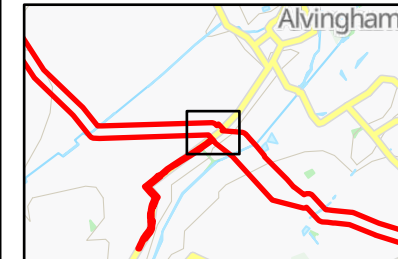
FIGURE TITLE
Figure 5-112
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-112





- LEGEND
- Initial Redline
 - Updated Redline
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)






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FIGURE TITLE
Figure 5-113
 Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-113

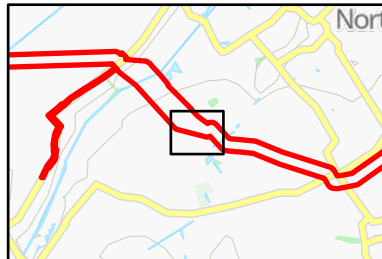
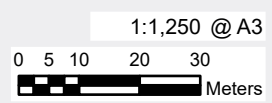
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- LEGEND
-  Initial Redline
 -  Updated Redline
 -  Linear Trend (Agricultural, Ridge and Furrow)

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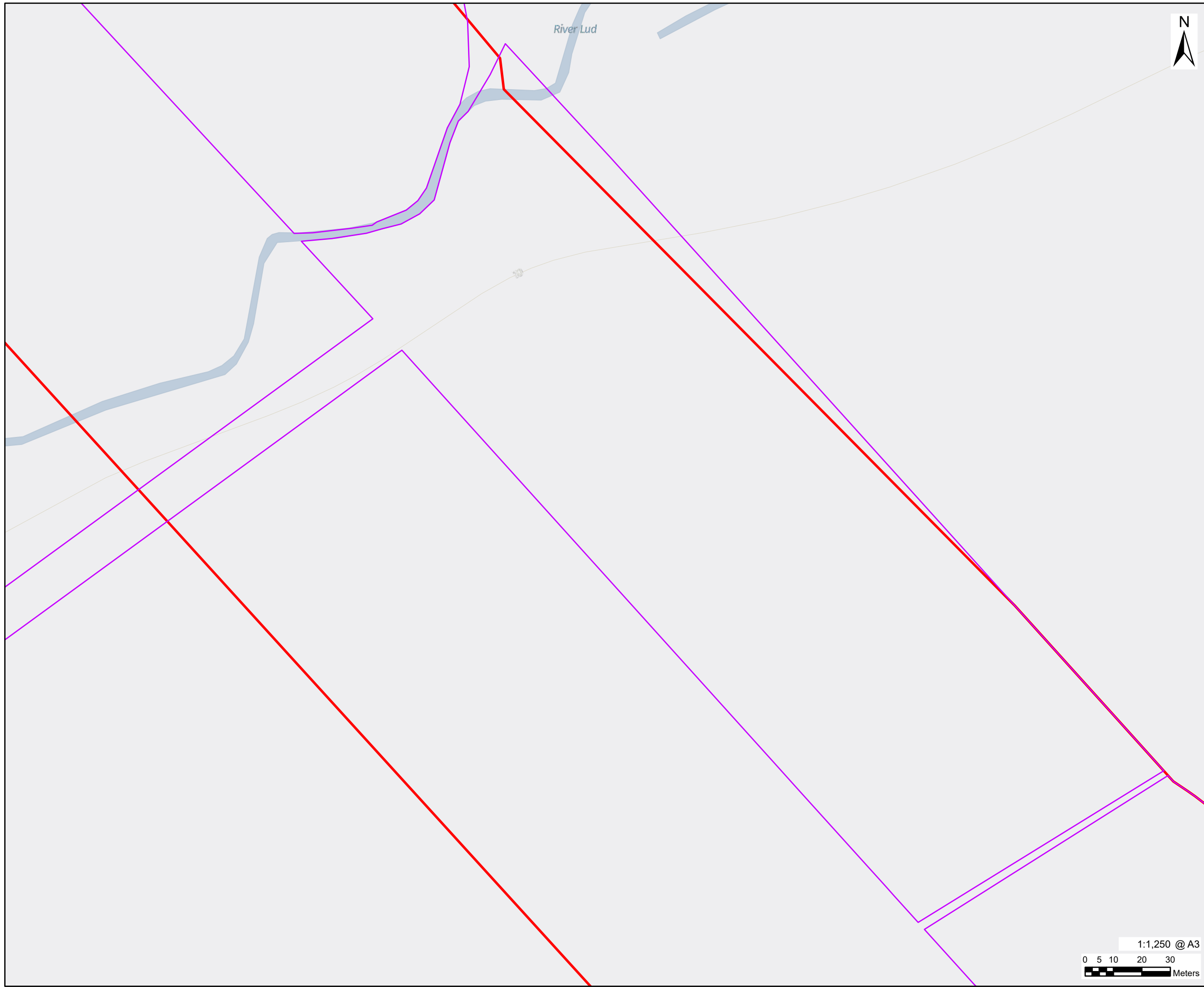
Area 171



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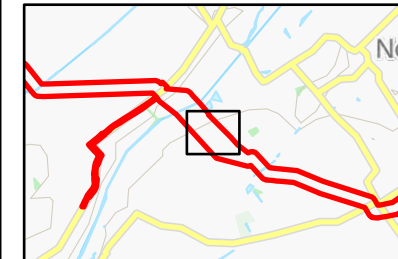
FIGURE TITLE
Figure 5-115
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-115



- LEGEND
- Initial Redline
 - Updated Redline

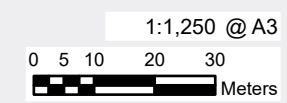
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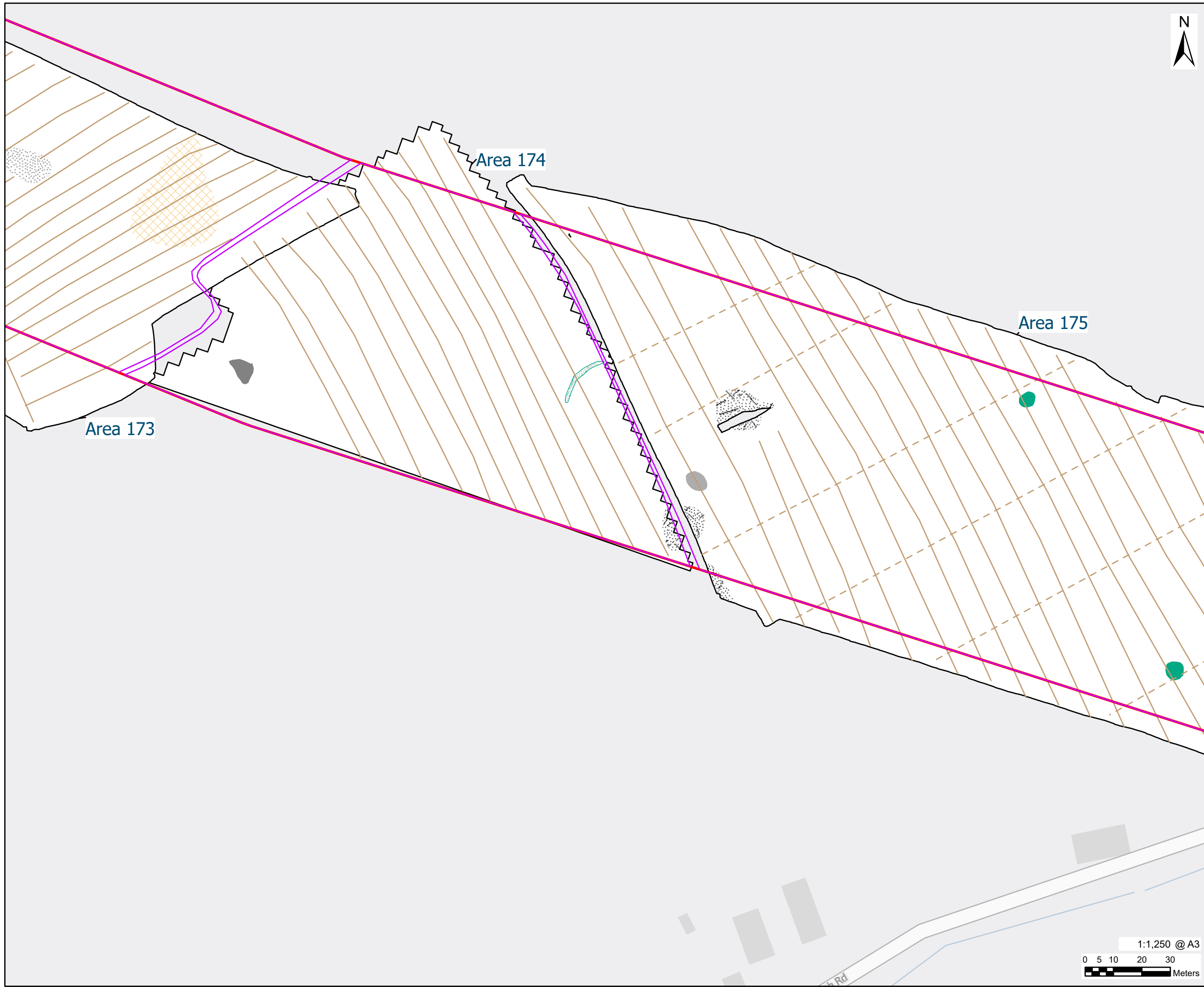


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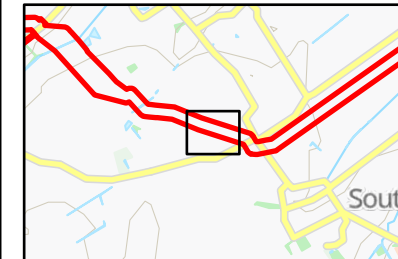
FIGURE TITLE
Figure 5-117
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-117





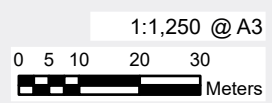
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Spread (Geology/Natural)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)



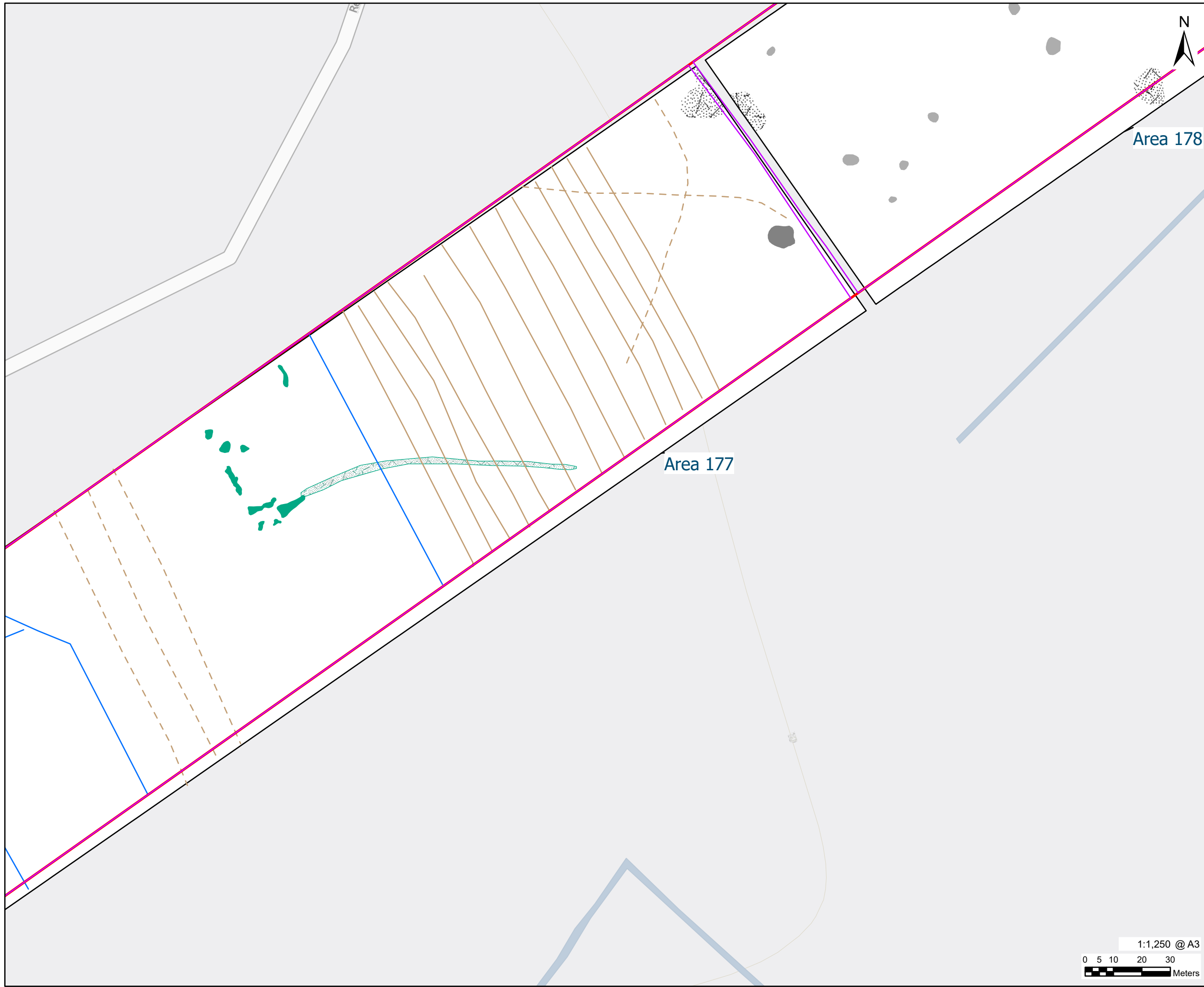
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FIGURE TITLE
Figure 5-118
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-118



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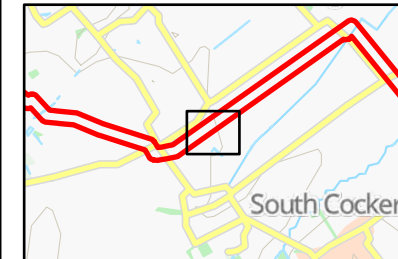


- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Spread (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)

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Area 178

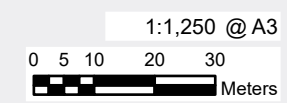
Area 177

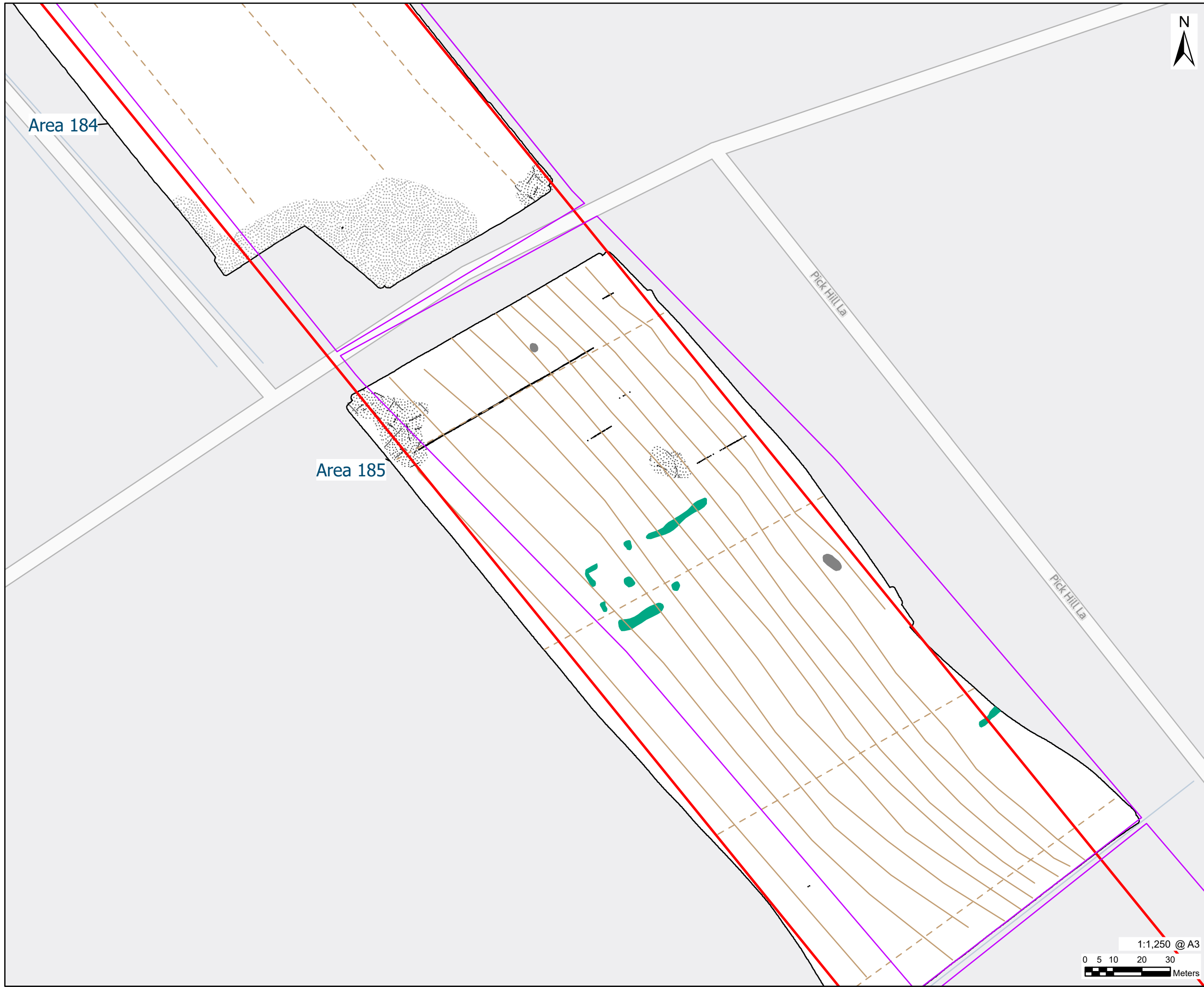


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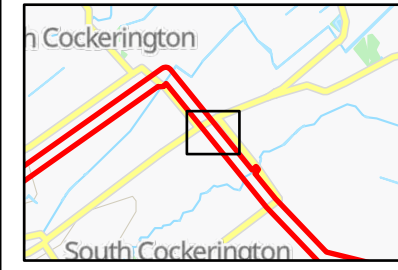
FIGURE TITLE
Figure 5-120
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-120





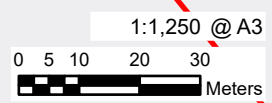
- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Unclear Origin)
 - Anomaly (Magnetic Disturbance)
 - Spread (Magnetic Disturbance)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Agricultural, Ridge and Furrow)



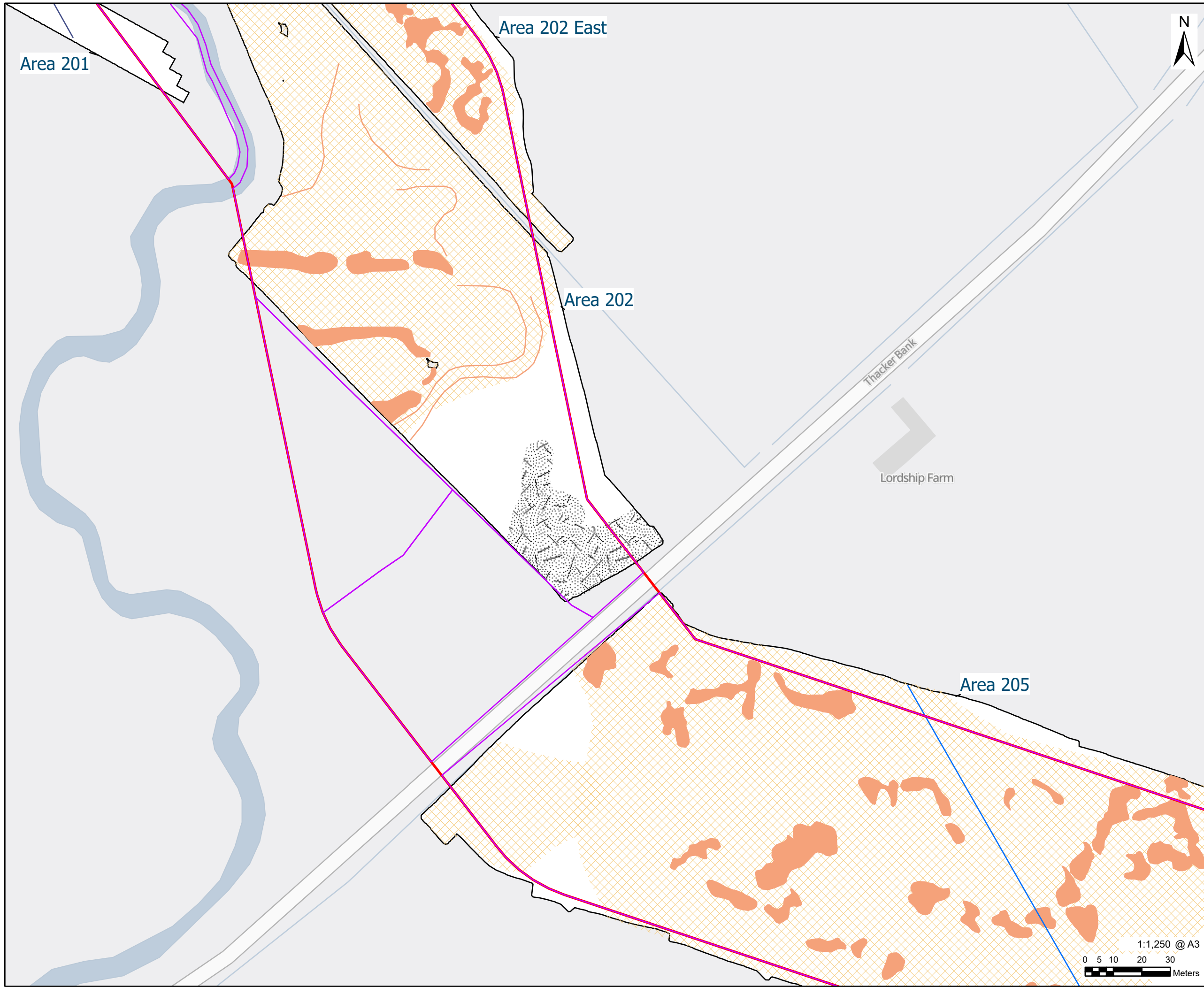
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FIGURE TITLE
Figure 5-125
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-125

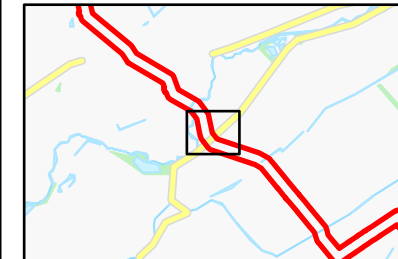


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- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Linear Trend (Historic Feature)
 - Linear Trend (Drainage)
 - Linear Trend (Geology/Natural)

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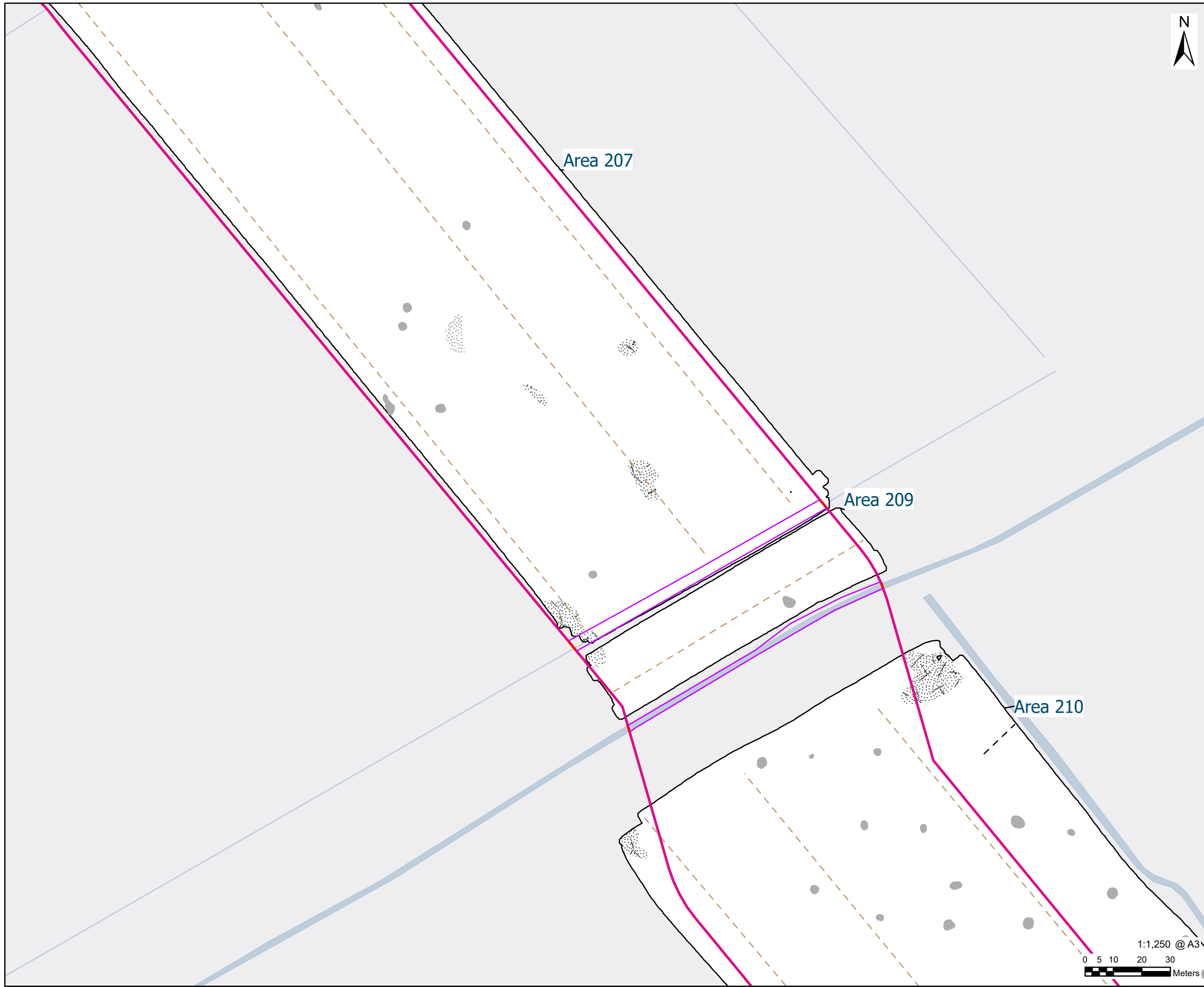


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FIGURE TITLE
Figure 5-136
Interpretation of Gradiometer Data Detailed

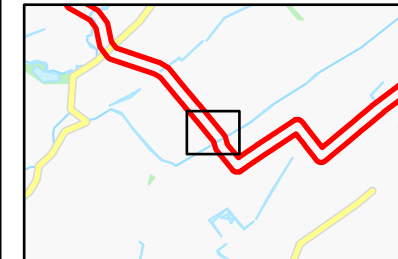
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-136

1:1,250 @ A3
0 5 10 20 30
Meters



- LEGEND**
- Initial Redline
 - Updated Redline
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Magnetic Disturbance)

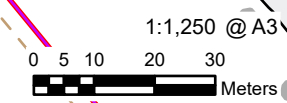
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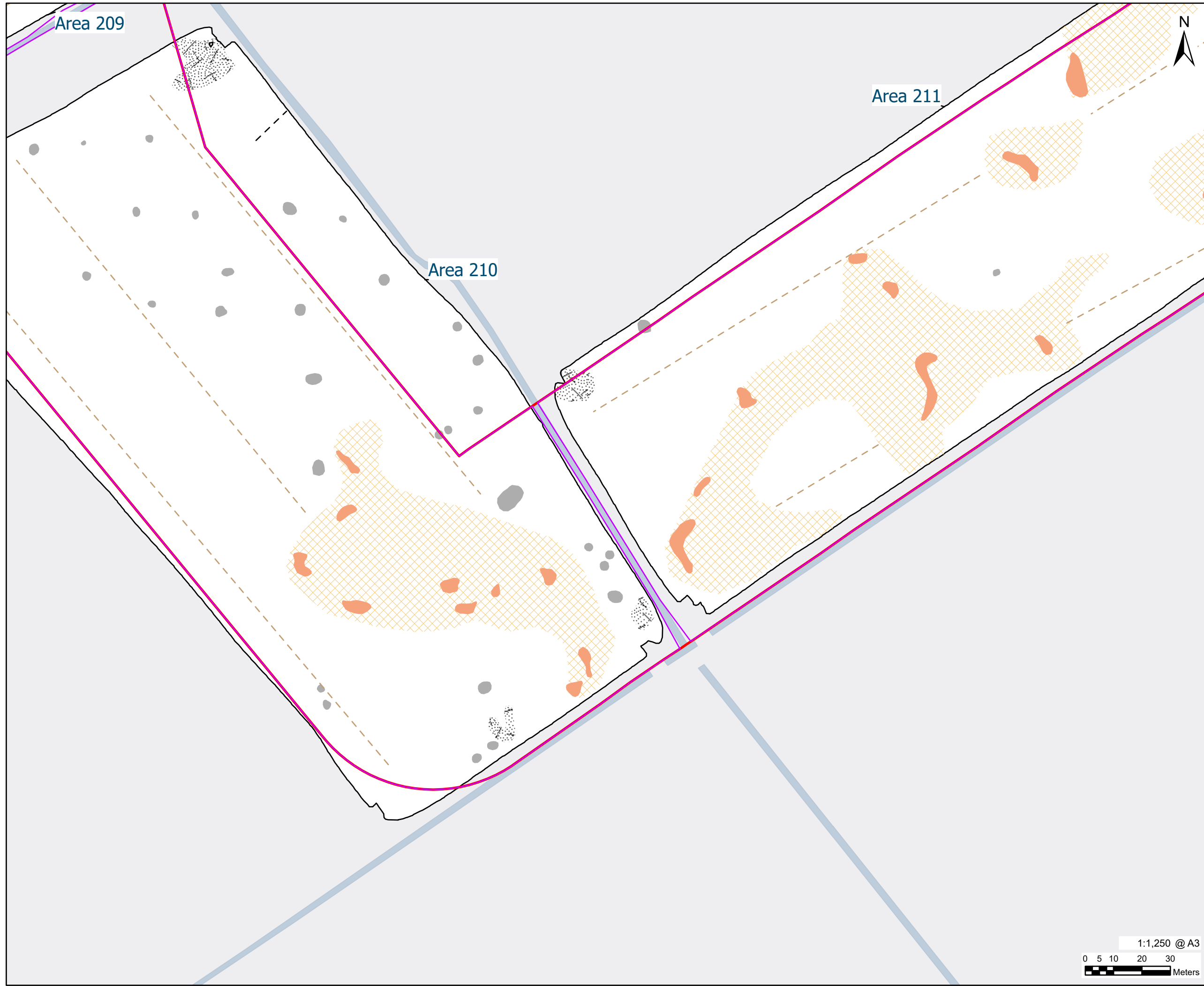


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FIGURE TITLE
Figure 5-139
Interpretation of Gradiometer Data Detailed

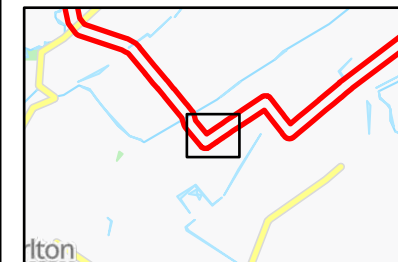
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-139





- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)
 - Linear Trend (Magnetic Disturbance)

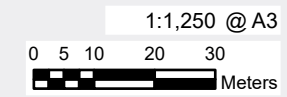
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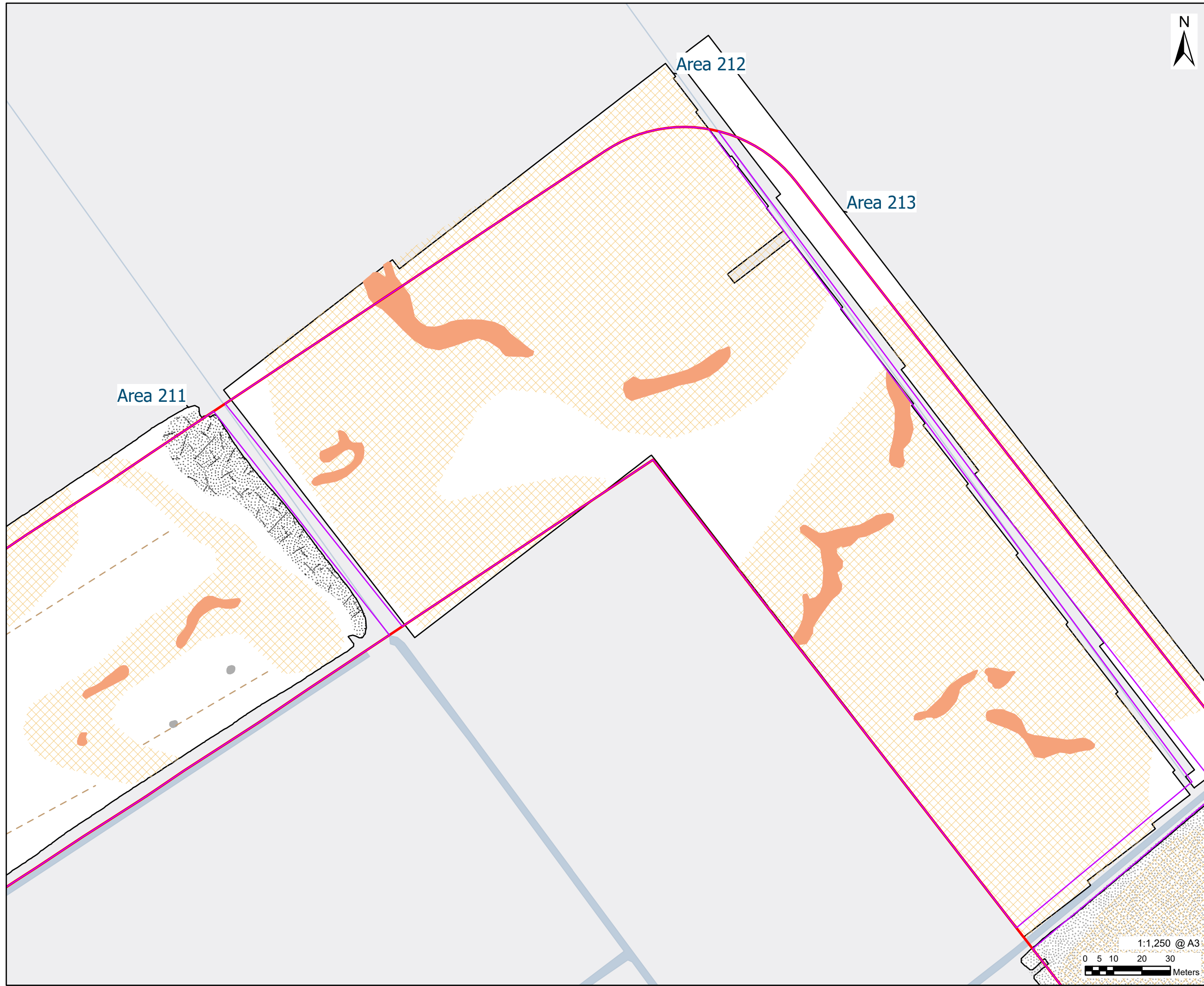


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FIGURE TITLE
Figure 5-140
Interpretation of Gradiometer Data Detailed

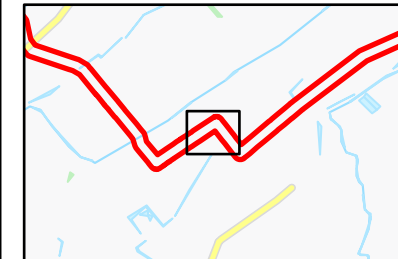
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-140





- LEGEND**
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Agricultural, Ploughing)

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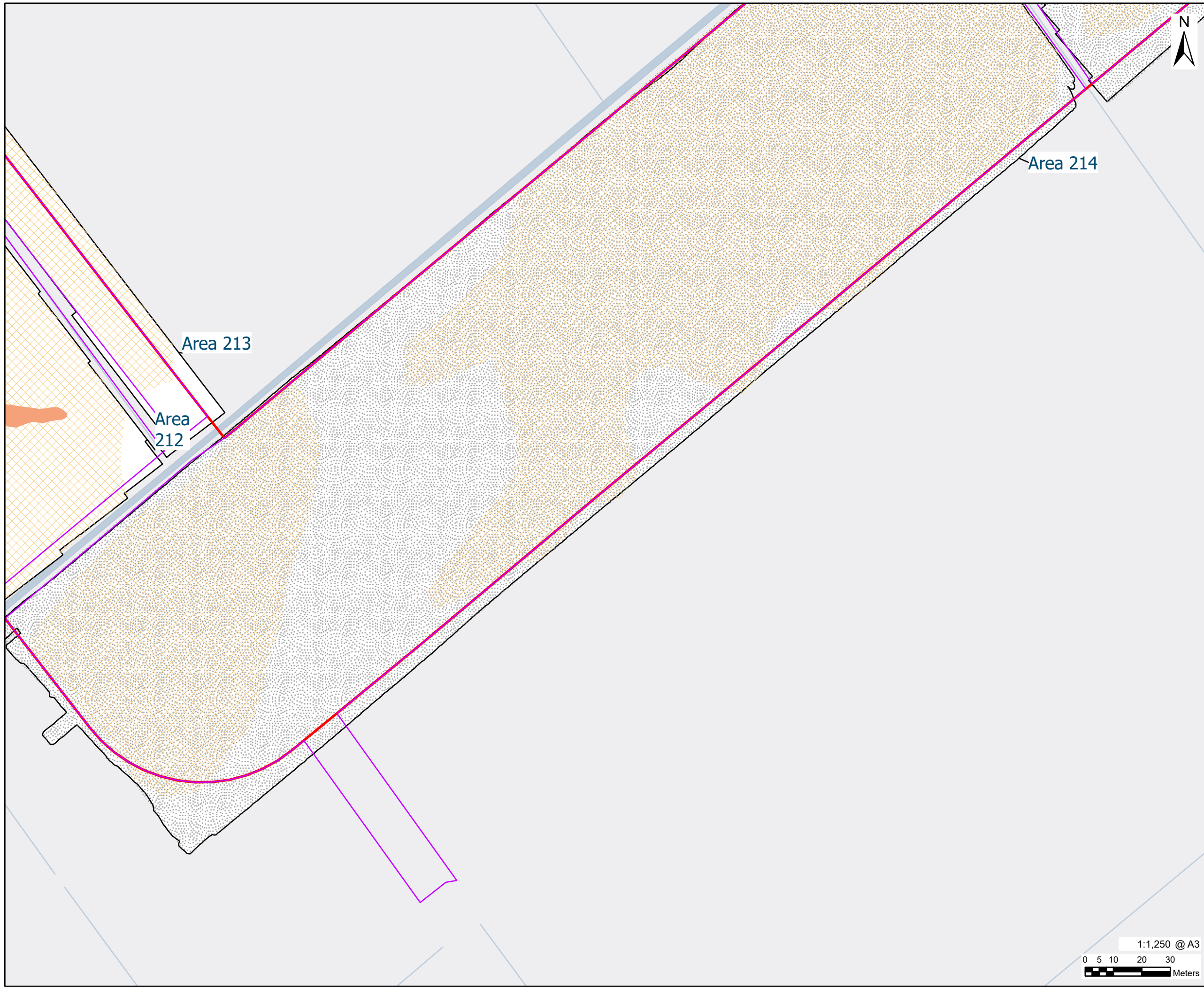


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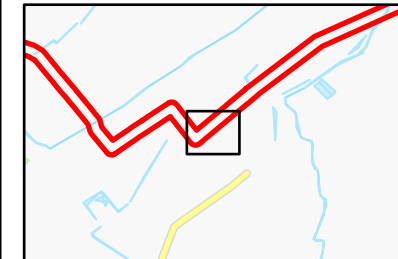
FIGURE TITLE
Figure 5-141
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-141

1:1,250 @ A3
0 5 10 20 30
Meters



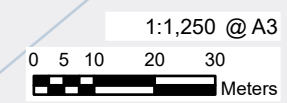
- LEGEND
- Initial Redline
 - Updated Redline
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Ferrous/Iron Spike)



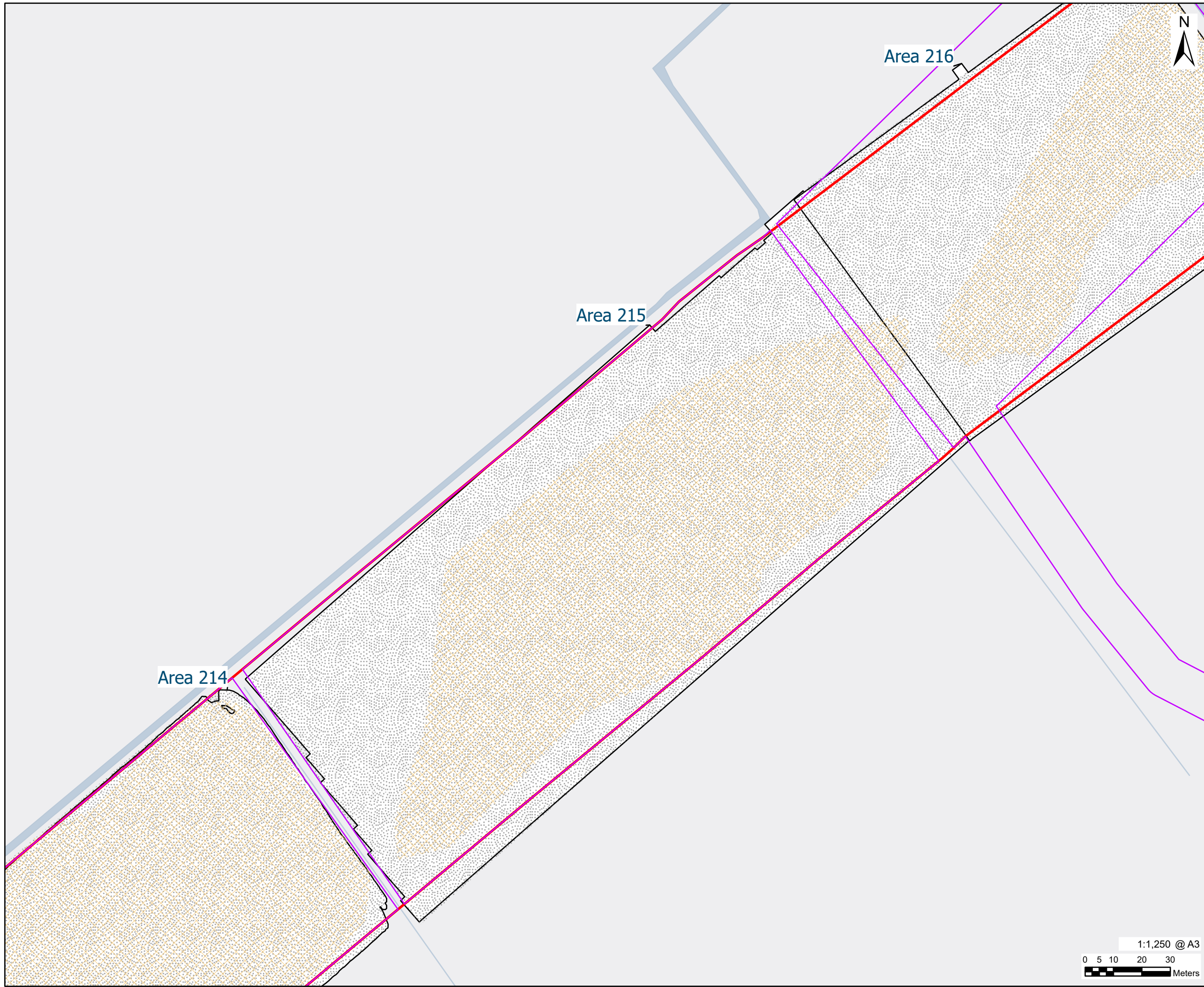
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FIGURE TITLE
Figure 5-142
 Interpretation of Gradiometer Data
 Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-142

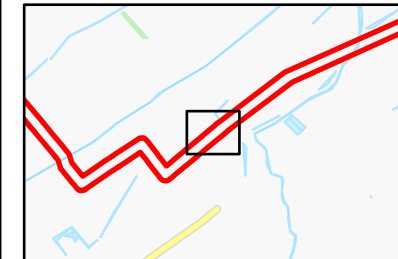


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- LEGEND
- Initial Redline
 - Updated Redline
 - Spread (Geology/Natural)
 - Spread (Ferrous/Iron Spike)

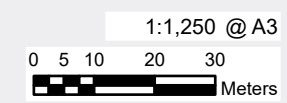
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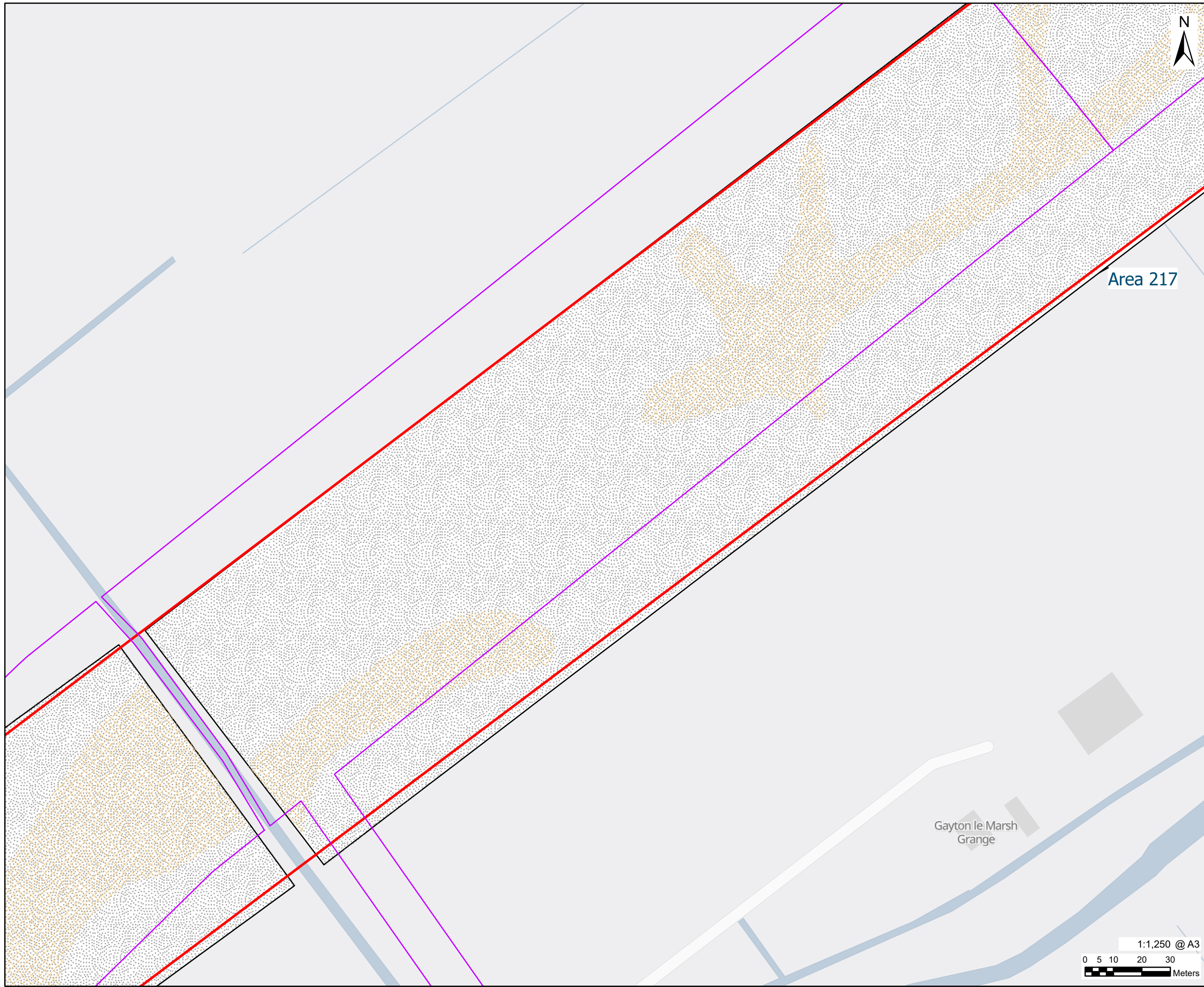


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FIGURE TITLE
Figure 5-143
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-143

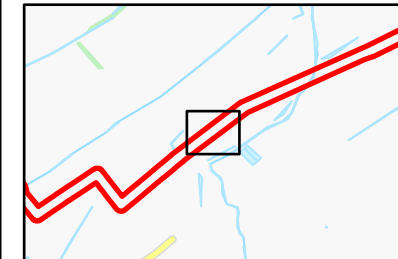
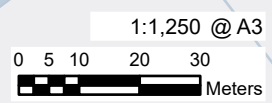




- LEGEND
- Initial Redline
 - Updated Redline
 - Spread (Geology/Natural)
 - Spread (Ferrous/Iron Spike)

Area 217

Gayton le Marsh
Grange

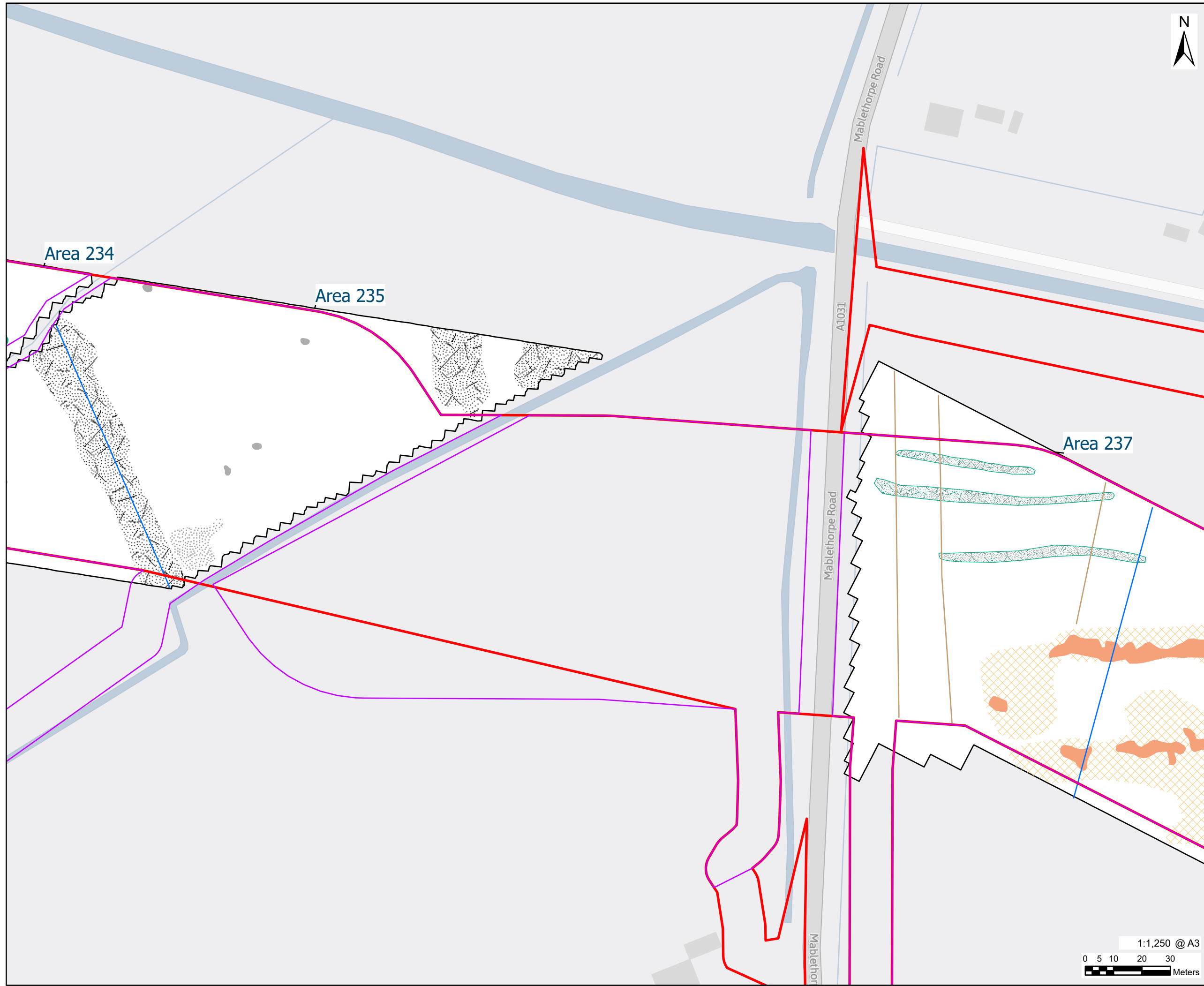


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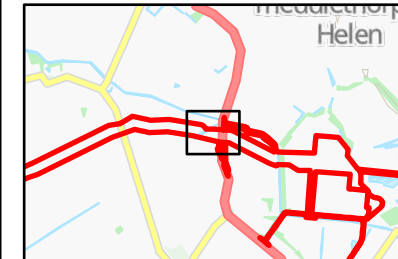
FIGURE TITLE
Figure 5-144
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-144

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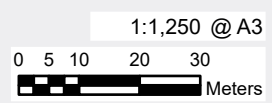
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 - Updated Redline
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 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Spread (Magnetic Disturbance)
 - Anomaly (Ferrous/Iron Spike)
 - Spread (Ferrous/Iron Spike)
 - Linear Trend (Historic Feature)
 - Linear Trend (Agricultural, Ridge and Furrow)



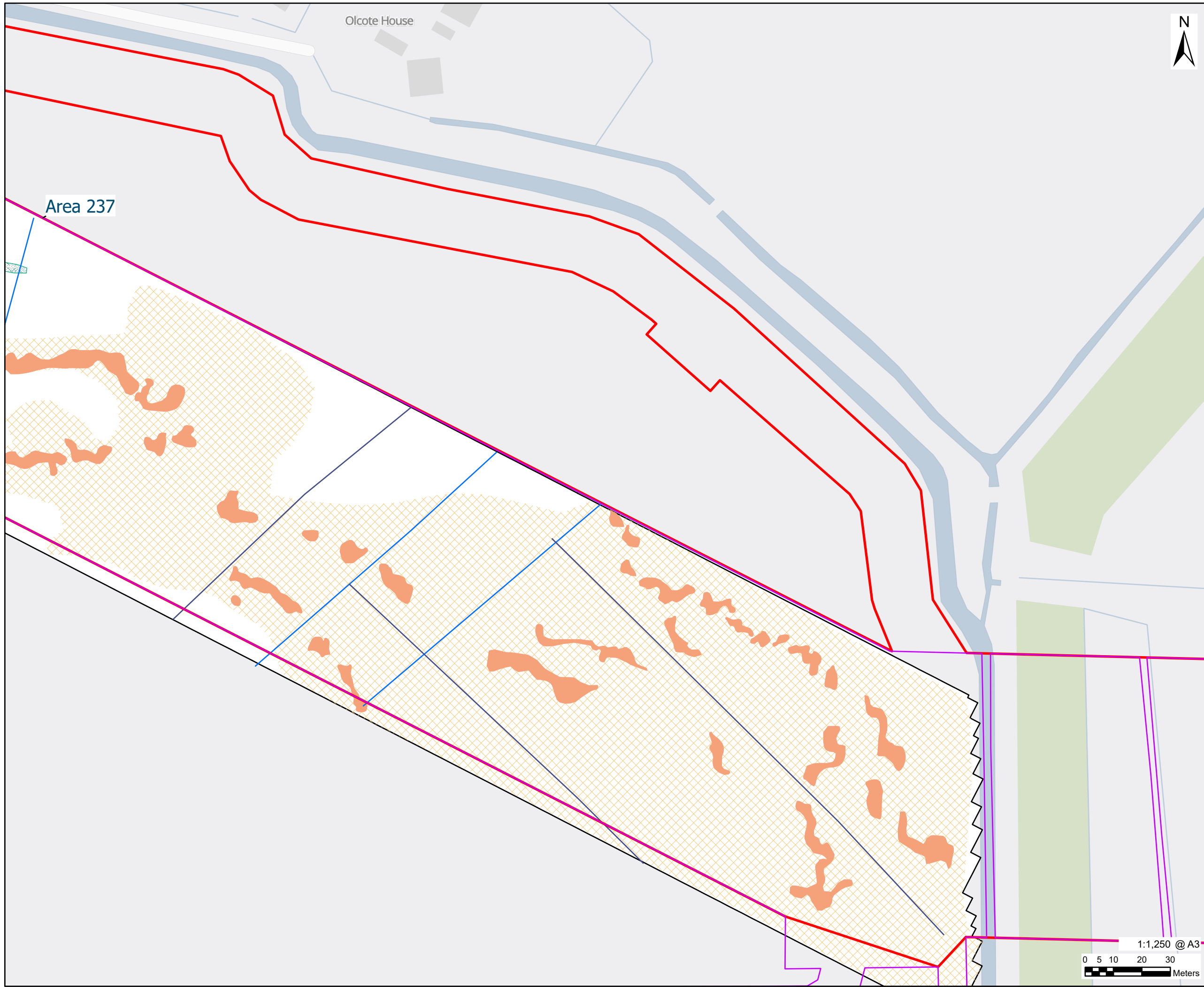
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FIGURE TITLE
Figure 5-151
Interpretation of Gradiometer Data Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-151



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- LEGEND**
- Initial Redline
 - Updated Redline
 - Spread (Unclear Origin)
 - Anomaly (Geology/Natural)
 - Spread (Geology/Natural)
 - Linear Trend (Historic Feature)
 - Linear Trend (Drainage)

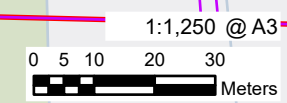
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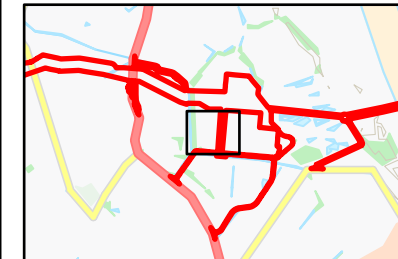
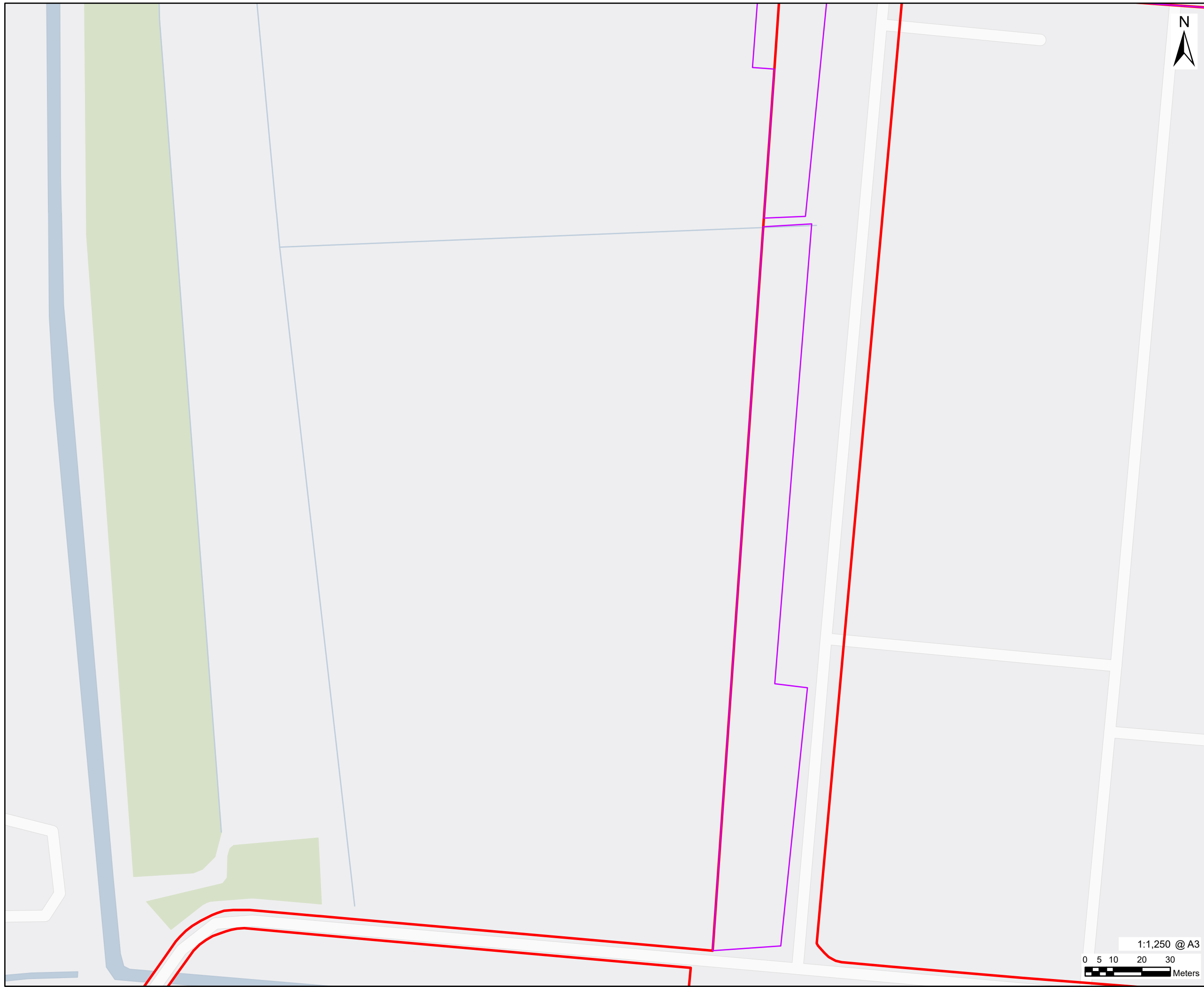


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FIGURE TITLE
Figure 5-153
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-153



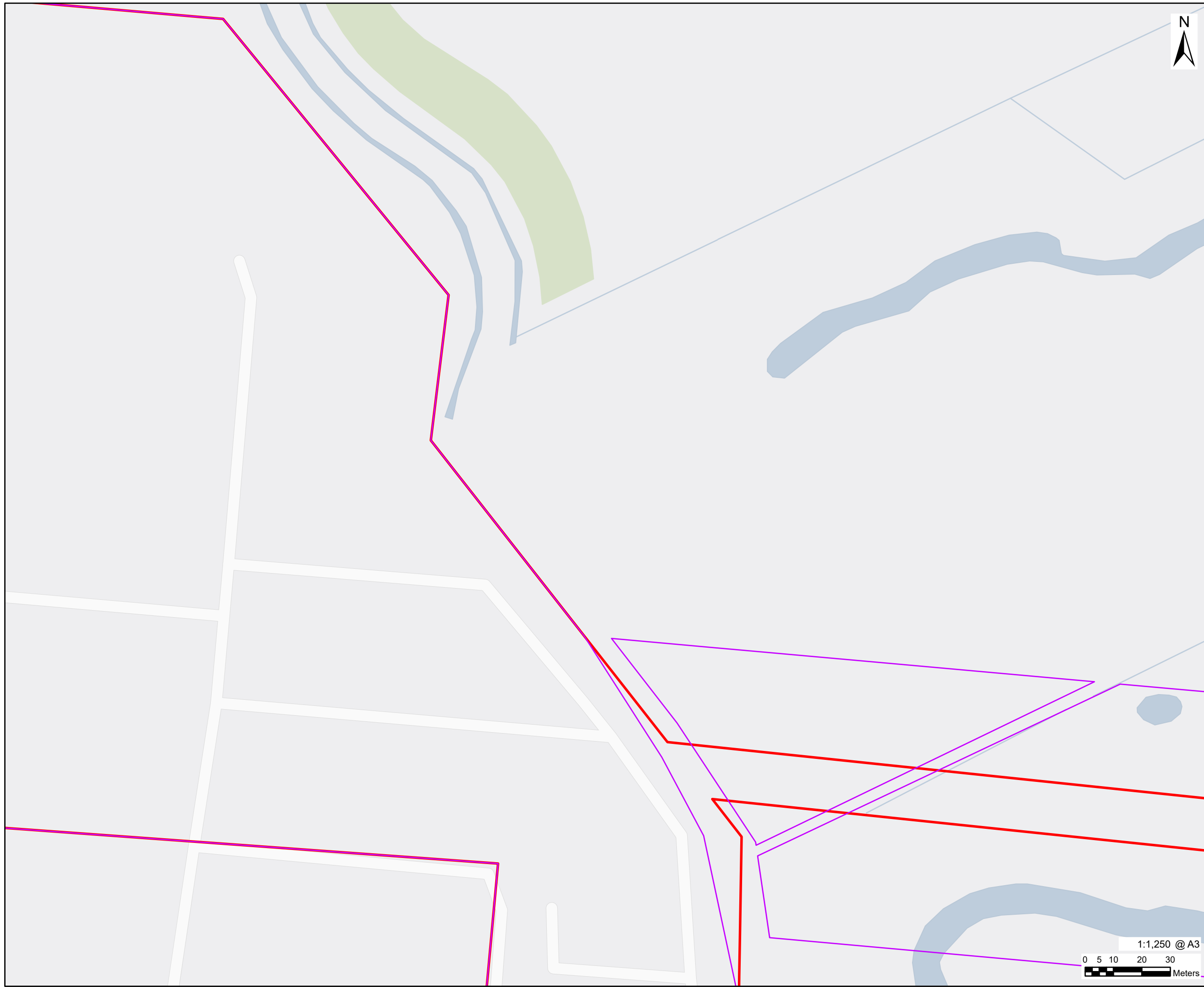


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FIGURE TITLE
Figure 5-155
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
 ARCHAEOLOGICAL GEOPHYSICAL SURVEY
 PROJECT NUMBER / REFERENCE
 60668955 / VCCS_231212_ES_5-155

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- LEGEND
- Initial Redline
 - Updated Redline

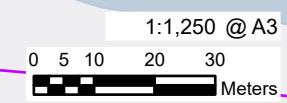
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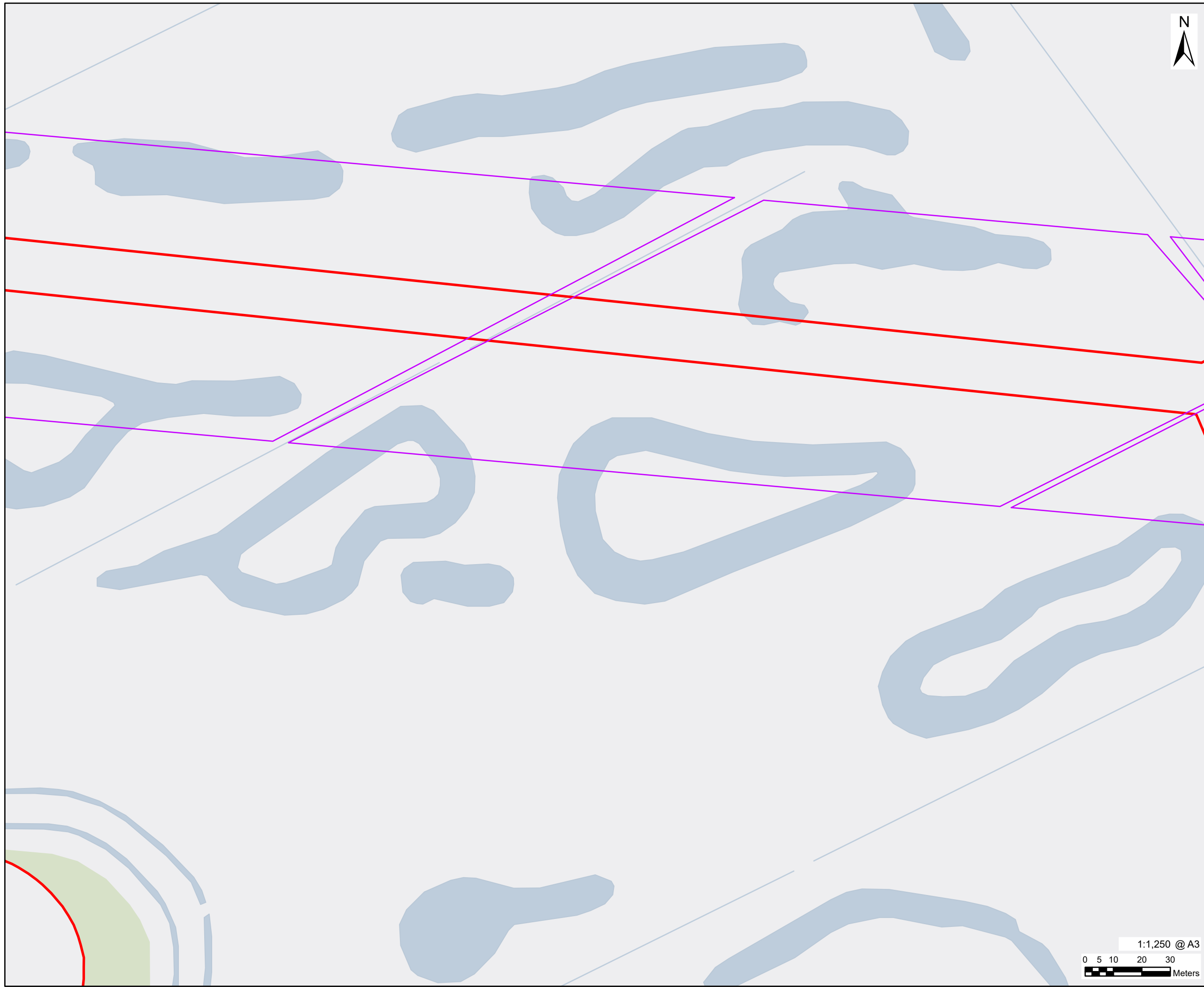




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FIGURE TITLE
Figure 5-157
Interpretation of Gradiometer Data Detailed

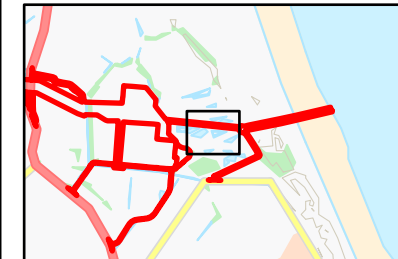
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-157





- LEGEND
-  Initial Redline
 -  Updated Redline

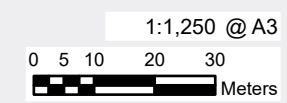
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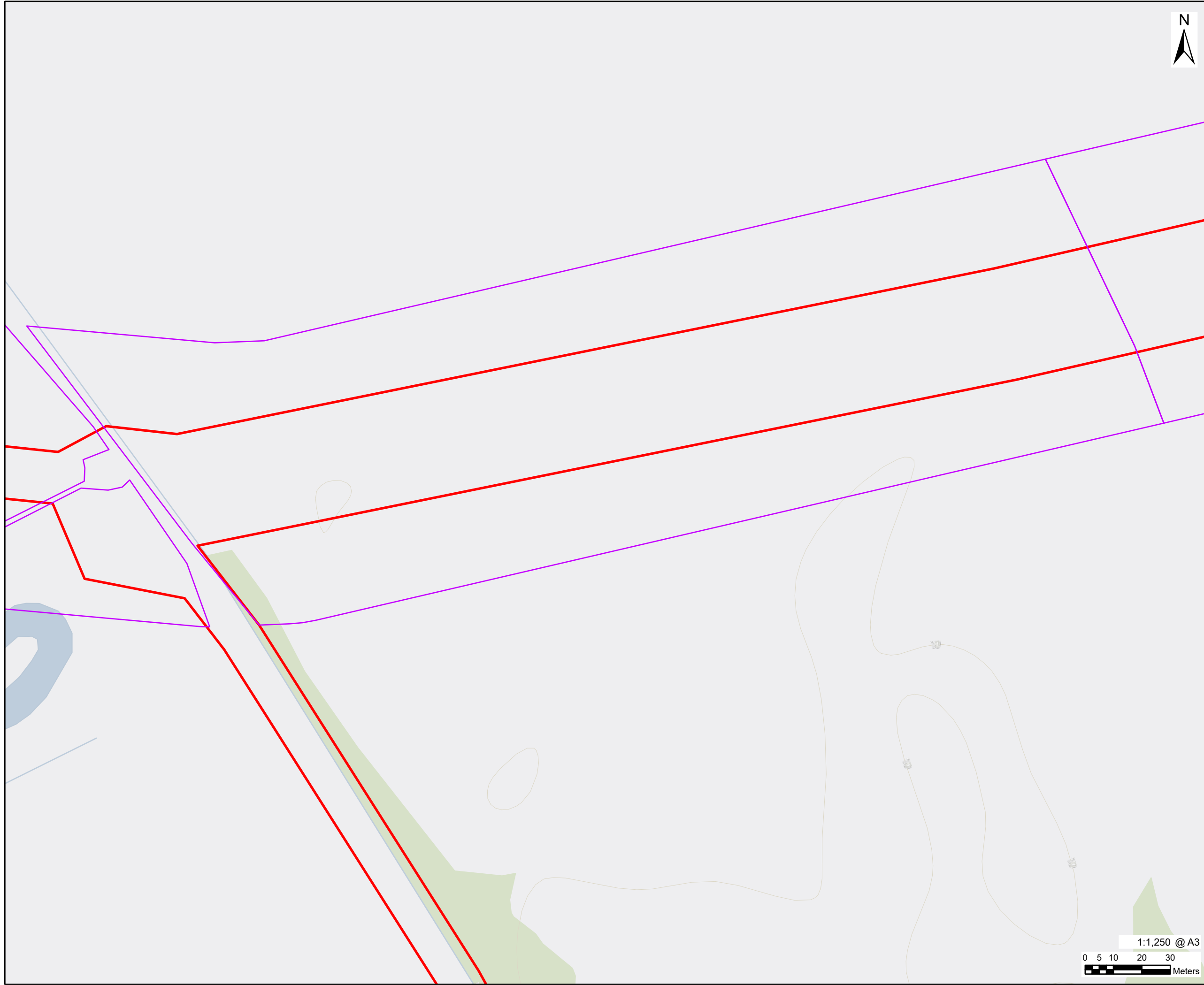




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FIGURE TITLE
Figure 5-159
Interpretation of Gradiometer Data
Detailed

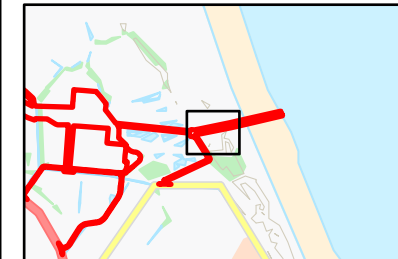
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-159





- LEGEND
-  Initial Redline
 -  Updated Redline

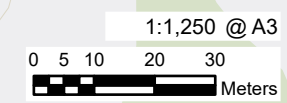
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FIGURE TITLE
Figure 5-160
Interpretation of Gradiometer Data Detailed

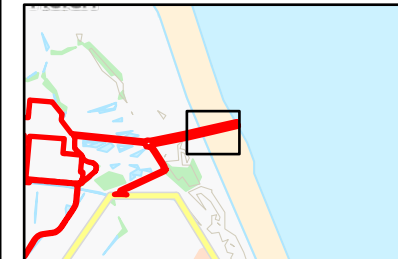
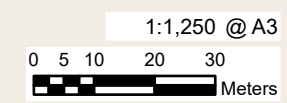
ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-160





- LEGEND
- Initial Redline
 - Updated Redline

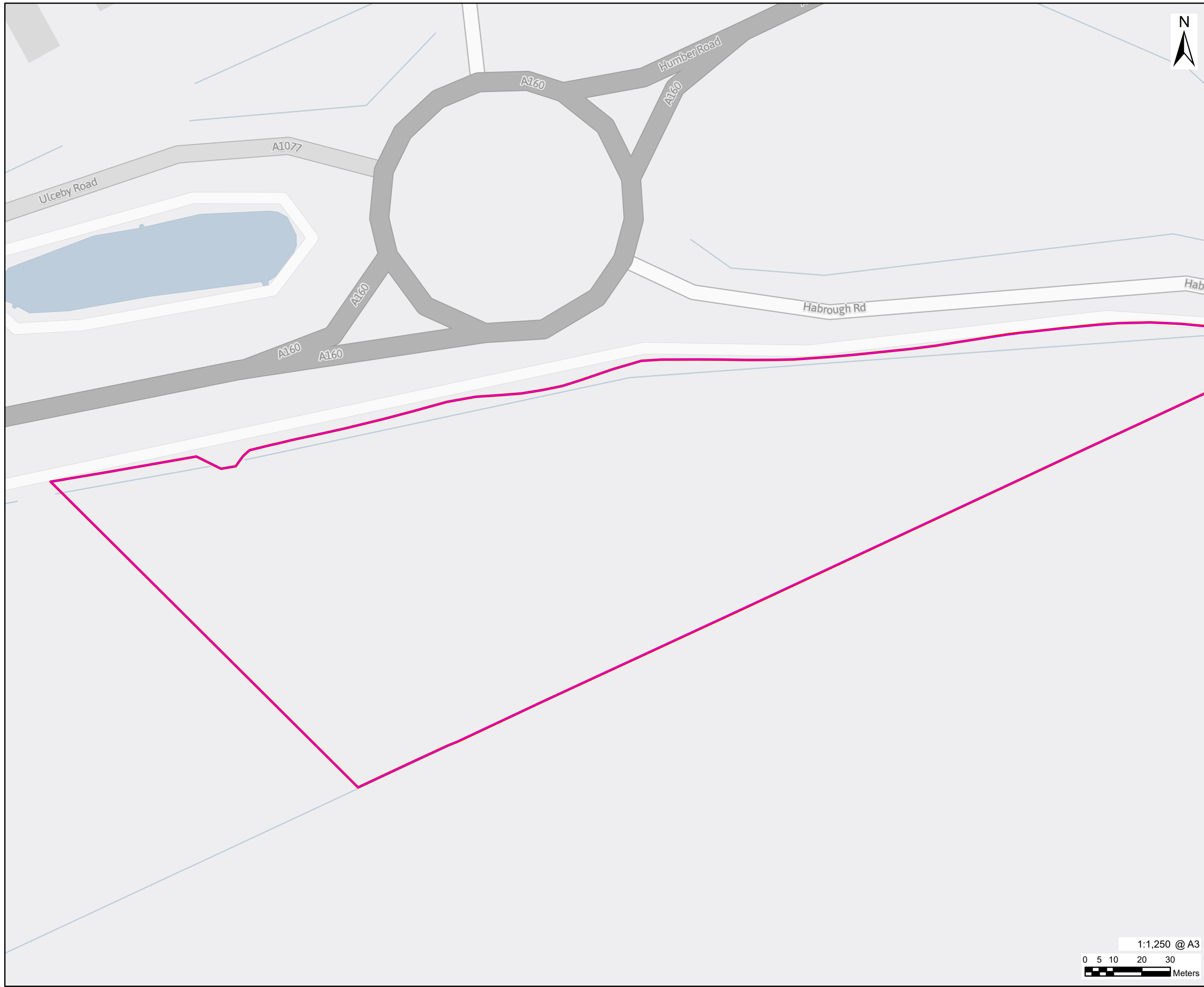
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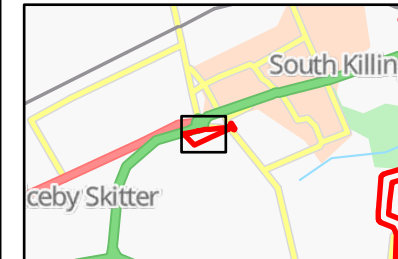
FIGURE TITLE
Figure 5-161
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-161



- LEGEND
- Initial Redline
 - Updated Redline

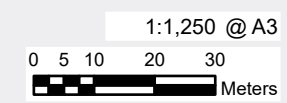
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FIGURE TITLE
Figure 5-162
Interpretation of Gradiometer Data
Detailed

ISSUE PURPOSE
ARCHAEOLOGICAL GEOPHYSICAL SURVEY
PROJECT NUMBER / REFERENCE
60668955 / VCCS_231212_ES_5-162



Appendix C Assessment of effect by field based on geophysical survey results

Tables 1-5 presented below provide a summary of the findings from the geophysical survey work completed to date (AOC,2023). Each table also includes a column reporting what the potential residual effects are in relation to the geophysical survey findings.

Where anomalies are referred to in the agricultural and non-archaeological columns exclusively no potential impacts to archaeological have been assessed and no effect is reported.

Where anomalies are identified in the Unclear column a precautionary approach has been taken as an archaeological origin for the anomalies cannot be ruled out, in these cases any potential archaeological that may be present has been considered to be of Low value and a low magnitude of impact has been rated.

Where anomalies appear in the possible archaeological column a low value has been attributed to any potential archaeological that may be present and the magnitude of impact is considered to be medium.

Where anomalies are identified as Definite/Probable they are considered to be of medium value and be subject to a medium impact.

In a few specific cases assessment varies from the approach described above based on the nature of the evidence from adjacent fields or the character of the geophysical anomalies recorded. For example, in some cases fragmented anomalies of limited extent or coherence relating Definite/Probable archaeology are considered to be of low rather than medium value.

Table 1: Impact Assessment on Geophysical Survey Findings by surveyed field number

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
1	(Not surveyable due to above ground infrastructure)					
2	(Not surveyable due to above ground infrastructure)					
3	(Not surveyable due to above ground infrastructure)					
4	(Not surveyable due to above ground infrastructure)					
5	(Not surveyable due to above ground infrastructure)					
6	(Not surveyable due to above ground infrastructure)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
7	(Not surveyable due to above ground infrastructure)					
8	(Not surveyable due to above ground infrastructure)					
9	(Not surveyable due to above ground infrastructure)					
10	(Not surveyable due to above ground infrastructure)					
11	<p>A group of linear and curvilinear anomalies, with strong positive magnetic signals, consistent with cut features such as ditches. These have a magnetically strongly enhanced infilling and have been identified within an area c.100m×70m towards the north of Area 11 [11a] (Appendix B, Figures 2.1, 3.1, 4.10 and 5.10). The formation of the anomalies suggests the presence of at least four conjoining enclosures, with a possible double-ditched track running south to north across its centre. Inside the eastern half of the complex is a</p>	<p>Broken anomalies with a strong magnetic signal extending northwards from the complex of [11a], and weak ephemeral anomalies extending southwards of the complex. These anomalies could relate to infilled cut features such as ditches, though it is not clear from the magnetic signals of the anomalies.</p>	<p>None</p>	<p>Linear striations running southwest to northeast are indicative of ploughing activity. A linear alignment of magnetic dipoles running northwest to southeast is indicative of a ceramic drainage pipe.</p>	<p>Band of strong dipolar anomalies indicative of natural intertidal and alluvial deposits runs northeast to southwest, across the south of the survey area. A band of magnetic disturbance running along the northeast boundary is indicative of the presence of a service.</p>	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible Iron Age or Roman enclosures south of Manby Road, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
	<p>concentration of strong dipolar magnetic anomalies consistent with magnetically strongly enhanced deposits. There is a potential that some of these anomalies could be related to the salt working, known from archaeological records (see Section 1).</p>					<p>Residual Significance: Moderate adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
12	None	None	<p>Linear, strong positive anomalies have been recorded within a geological formation. These are the most probable of geological origin nevertheless due to their regular morphology an archaeological origin cannot be completely ruled out.</p>	<p>Linear striations running southwest to northeast are indicative of ploughing activity.</p>	<p>Band of strong dipolar anomalies indicative of natural intertidal and alluvial deposits running across centre of the survey area.</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies south of Houlton's Covert.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
13	None	None	<p>Linear, strong positive anomalies have been recorded within geological formation. These are the most probable of geological origin nevertheless due to their regular morphology archaeological origin cannot be completely ruled out.</p>	<p>Linear striations running north-northeast to south-southwest are indicative of ploughing activity. Several linear alignments of magnetic dipoles in the north of the survey area are indicative of the presence of ceramic drainage pipes.</p>	<p>Majority of the survey area is covered by strong dipolar anomalies indicative of natural intertidal and alluvial deposits.</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies south of Houlton's Covert.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
14	(Not surveyable due to woodland)					
15	(Not surveyable due to woodland)					
16	(Not surveyable due to woodland)					
17	(Not surveyable due to woodland)					
18	(Not surveyable due to woodland)					
19	(Not surveyable due to woodland)					
20	(Not surveyable due to woodland)					
21	(Not surveyable due to woodland)					
22	<p>Linear and curvilinear anomalies, consistent with infilled cut features such as ditches, appear to demark two enclosures in the centre of the survey area (Appendix B Figures 2.1, 3.1, 4.16 and 5.16). The southernmost enclosure is positioned on the southern boundary of the survey area and appears to be sub-square in shape [22a], and the second enclosure, [22b], is also sub-square in shape, though</p>	<p>Series of weak linear anomalies, indicative of infilled ditches have been detected to the north and west of probable enclosures. Ephemeral anomalies to the north suggest the enclosures may extend northwards [22c]. Ephemeral anomalies to the west of these enclosures could relate to</p>	<p>Several linear and discrete, small curvilinear anomalies have been interpreted across the area. These may reflect the location of infilled cut features such as pits and ditches respectively, however, the anomalies are either too isolated or ephemeral to be confident with such an interpretation.</p>	<p>Parallel linear anomalies running west-northwest to east-southeast in the east of the area, are indicative of former ridge and furrow cultivation. Towards the centre of the survey area weak, linear anomalies align with a historic field boundary identified on historic maps. Running west-northwest to</p>	<p>Running across the southeast corner of the area is a band of strong magnetic measurements consistent with a service. A spread of ferrous debris has been detected within enclosure [22a] and has been recognised as a former building mapped on historical sources.</p>	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to two possible undated enclosures south of East End Farm.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
	ephemeral anomalies to the north suggest the enclosures may extend northwards [22c]	infilled features such as ditches, however, their context is limited, therefore a 'Possible Archaeology' category has been ascribed.		east-southeast across the east of the survey area, is a negative curvilinear anomaly, which may relate to a former footpath [22d]. Magnetically strong, parallel, linear anomalies running north to south across the west and centre of the survey area have a formation consistent with drainage activity.		Archaeological investigation prior to or during construction. Residual Magnitude: Medium Residual Significance: Moderate adverse .
23	Magnetically strong, linear anomalies, consistent with infilled cut features such as ditches have been identified in the southwestern corner [23a]. These are an	None	None	None	Running across the area is a band of strong magnetic response consistent with a service.	Sensitivity: Medium Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
	extension of complex recognized within neighbouring Area 24 [24a]					<p>relating to undated rectilinear enclosures north-east of Glebe Farm.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>
24	Magnetically strong, linear anomalies, consistent with infilled cut features such as ditches, demark a complex of rectilinear enclosures with internal divisions [24a] (Appendix B	Weak, linear and discrete circular anomalies that could suggest infilled cut features such as pits are also identified both in	None	Parallel linear anomalies running east to west across the area, are indicative of former ridge and furrow cultivation.	<p>Magnetic disturbance is visible along the southern edge of the survey area.</p> <p>Several isolated ferrous responses are likely to relate</p>	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
	Figures 2.1, 3.1, 4.17 and 5.17). The complex runs along a possible double-ditched track running south to north beside the eastern edge of the survey area [24b]. Overlapping anomalies suggest more than one phase of activity associated with the complex and linear anomalies mark smaller enclosures both in and outside the larger enclosures.	and outside the complex; nevertheless, due to their fragmented and ephemeral morphology a 'Possible Archaeology' category has been ascribed.		Linear striations running east to west are indicative of ploughing activity is also visible.	to modern debris in the topsoil.	<p>relating to undated rectilinear enclosures north-east of Glebe Farm.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>
25	None	A weak linear anomaly runs southwards from the northern boundary towards the southern boundary [25a]	Few linear positive anomalies have been identified across the survey area. These are most likely of geological or	Parallel linear anomalies running east to west across the area, are indicative of former ridge and furrow cultivation	Weak, curvilinear anomalies likely to relate to Devensian till deposits are visible in the southern part of the survey area.	<p>Given the findings in field 24 immediately to the north a precautionary approach has been taken to assigning sensitivity to the possible archaeological anomalies in field 25.</p> <p>Sensitivity:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		(Appendix B Figures 2.1, 3.1, 4.4, 4.5, 5.17-18 and 5.17-18). The anomaly aligns with double-ditched track of the complex in Area 24 and could indicate an extension of the track. Nevertheless, these anomalies are relatively ephemeral and therefore a 'Possible Archaeology' category has been ascribed.	agricultural origin nevertheless an archaeological origin cannot be completely ruled out.		A band of magnetic disturbance consistent with a service runs east to west across the south of the area.	<p>Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated rectilinear enclosures north-east of Glebe Farm.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>
26	None	Several weak, linear and	Cluster of weak magnetic dipoles	In the centre of the survey area	A weak curvilinear	Given the findings in field 24 to the north a precautionary

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		<p>curvilinear anomalies, which may relate to infilled cut features such as ditches are located towards the north of the survey area.</p>	<p>of uncertain origin is located towards the north of the survey area.</p>	<p>weak, a linear trend aligns with a historic field boundary identified on historic mapping. Linear striations running across the survey area are indicative of ploughing activity.</p>	<p>anomaly in the east of the area is likely to relate to Devensian till deposits. A band of magnetic disturbance consistent with a service runs northeast to southwest through the centre of the survey area. A concentration of strong dipolar anomalies collocates with debris along the southern edge identified in field.</p>	<p>approach has been taken to assigning sensitivity to the possible archaeological anomalies in field 25.</p> <p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated rectilinear enclosures north-east of Glebe Farm.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
						Residual Significance: Moderate adverse
27	None	None	None	Parallel sinuous anomalies running east-southeast to west-northwest across the area, are indicative of former ridge and furrow cultivation. Linear alignments of magnetic dipoles indicative of ceramic drainage pipes have been interpreted in herringbone formations across the survey area. Some of these drains appear to align with former field	Concentration of dipolar anomalies consistent with debris, is collocated with a former building near the northern boundary. Two bands of magnetic disturbance consistent with a service run across the centre and northeast corner of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				boundaries identified on historical maps. It is likely that former field boundaries have been reused for drainage.		
28	None	None	None	Two linear alignments of magnetic dipoles are indicative of ceramic drainage pipes. Some of these drains appear to align with former field boundaries identified on historical maps. It is likely that former field boundaries have been reused for drainage.	Magnetic disturbance identified along eastern, western and southern edges, attributable to adjacent domestic properties.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
29	Linear anomalies, consistent with infilled cut features such as	A curvilinear anomaly adjacent to	None	Parallel, sinuous anomalies	Two bands of magnetic disturbance	Sensitivity: Low

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
	<p>ditches, demark a possible rectilinear enclosure, c.70m×25m, is located near the northern boundary [29a] (Appendix B Figures 2.2, 3.2, 4.20 and 5.20).</p>	<p>[29a], is consistent with an infilled cut feature such as a ditch. A few discrete and circular anomalies situated further north could also reflect potential pits. Due to a lack of coherent morphology, these anomalies have been categorised as 'Possible Archaeology'.</p>		<p>running west-southwest to east-northeast and across the area, are indicative of former ridge and furrow cultivation.</p> <p>Magnetically strong parallel linear anomalies run northwest to southeast across the survey area with a formation consistent with drainage activity.</p>	<p>running along the northern and southern boundaries are consistent with the presence of a service.</p>	<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated enclosures south of Habrough Road.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>

Table 2: Impact Assessment Update – Section 2

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
30	None	A few curvilinear anomalies of positive weak and strong signals, indicators of ditch-like features have been detected in the western and central parts of the survey area [30a]. Due to their morphology these have been categorised as ‘Possible Archaeology’; nevertheless, they could be also of agricultural origin.	A few strong, positive discrete anomalies have been recorded across the survey area. These are most likely of agricultural origin nevertheless an archaeological origin cannot be completely ruled out.	<p>Linear striations running northwest to southeast as well as northeast to southwest are indicative of ploughing activity.</p> <p>A linear, strong positive anomaly has been identified crossing the western part of the survey area. This anomaly correlates with a former field boundary visible on historical mapping. There is a possibility that this old field boundary has</p>	<p>A band of magnetic disturbance consistent with a service is located in the east of the survey area.</p> <p>The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.</p> <p>A weak, positive anomaly of amorphous shape has been detected in the western part of the survey area and reflect most probably alluvial deposits.</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated linear and rectilinear anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				been reused as a land drain.		
31	None	In the northern part of the survey area, a rectilinear set of positive weak anomalies have been identified [31a]. These could indicate a former enclosure, nevertheless due to its weak morphology against a magnetically noisy background only a 'Possible Archaeology' has been ascribed	A few weak linear and curvilinear anomalies have been detected in the eastern and western corners of the survey area. The western anomalies are a continuation of two anomalies visible within Area 30. These are most likely of an agricultural origin nevertheless an archaeological origin cannot be completely ruled out.	Linear striations running northwest to southeast as well as northeast to southwest are indicative of ploughing activity.	Dipolar anomalies spread across the survey area indicative of the presence of green waste.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated linear and rectilinear anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
32	A group of linear and curvilinear anomalies, with strong magnetic signals, consistent with infilled cut features such as ditches, are identifiable against the strong magnetic background of the green waste, towards the centre of the survey area [32a] (Appendix B Figures 2.3, 3.3, 4.23-24 and 5.23-24). The anomalies form a complex of two or three enclosures within an area c. 100m×50m.	Diffuse, linear anomalies appear to extend northwards and southwards from the complex of [32a] (Appendix B Figures 2.3, 3.3, 4.23-24 and 5.23-24); the magnetic signal of these anomalies though are not so readily interpretable against the magnetic background of the green waste; therefore a 'Possible Archaeology' category has been ascribed.	None	Linear striations running north-northwest to south-southeast are indicative of ploughing activity.	Dipolar anomalies spread across the survey area indicative of the presence of green waste. A band of magnetic disturbance consistent with a service is located in the east of the survey area.	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated enclosure complexes east of Immingham Grange.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
33	A group of linear and curvilinear anomalies, with strong magnetic signals, consistent with infilled cut features such as ditches, have been identified in the northern part of the survey area [33a] (Appendix B Figures 2.3, 3.3, 4.24 and 5.24). The anomalies form a fragmented complex of two or three enclosures. These anomalies are probably an extension of the cluster located within Area 32.	A weak, linear anomaly has been identified within the enclosure, nevertheless its morphology and placement within the cluster, could indicate the agricultural origin; therefore a 'Possible Archaeology' has been ascribed.	None	Parallel, sinuous anomalies running northeast to southwest and across the area, are indicative of former ridge and furrow cultivation. Linear striations running north-northwest to south-southeast are indicative of ploughing activity.	Bands of magnetic disturbances are visible at the edges of the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated enclosure complexes east of Immingham Grange.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
34	None	None	None	Linear striations running north-northwest to south-southeast are indicative of ploughing activity.	Bands of magnetic disturbances from modern utilities are visible in the middle and southern part and at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
35	(surveyed as 34)					
36	(surveyed as 34)					
37	None	None	A few strong, positive discrete anomalies have been recorded in the centre of the survey area. These most likely of geological origin nevertheless their archaeological origin cannot be completely ruled out, given the archaeological activity in the closest vicinity.	Weak, linear anomalies have been identified across the majority of the survey area. These anomalies are indicators of ploughing activity.	A spread of strong and weak curvilinear anomalies has been identified in the centre of the survey area. These anomalies are likely to relate superficial deposits.	An anthropogenic origin for the discrete anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. Sensitivity: Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the strong, positive discrete anomalies.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
						<p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
38	Across the survey area multiple linear, curvilinear and discrete anomalies of strong and weak positive signal have been identified (Appendix B Figures 2.3, 3.3, 4.26 and 5.26). These anomalies form two distinctive clusters concentrated in the	Few strong and ephemeral, linear and discrete anomalies have been detected in the northern part of the survey area. It is possible that these are also part of the enclosure	None	Weak, linear anomalies have been identified in the southern part of the survey area. These anomalies are indicators of ploughing activity.	Band of strong dipolar anomalies indicative of natural intertidal and alluvial deposits running has been detected in the eastern part of the survey area.	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated enclosure complexes east of Roxton.</p> <p>Potential Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
	north [38a] and south [38b] of the survey area. Anomalies located in the northern focus, are characterised by strong, positive magnetic signal and continuous linear morphology, indicatives of infilled ditches. These anomalies form a possible enclosure system with internal divisions visible. Southern anomalies are also characterised by strong, positive magnetic signal, nevertheless their morphology is fragmented and discrete compared to the northern focus. These anomalies also form possible enclosures.	system, nevertheless their weak and fragmented morphology could suggest different origin.				<p>Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
39	None	None	A few strong, positive discrete anomalies have	None	Band of strong dipolar anomalies indicative of	An anthropogenic origin for the discrete anomalies cannot be ruled out. Using

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			<p>been recorded in the centre of the survey area. These are the most probable of geological origin nevertheless their archaeological origin cannot be completely ruled out, given the archaeological activity in the closest vicinity.</p>		<p>natural intertidal and alluvial deposits covers the entire survey area.</p>	<p>the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated linear and curvilinear geophysical anomalies southeast of Roxton.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
						Residual Significance: Minor adverse
40	None	Linear, curvilinear, rectilinear and circular anomalies of both weak and strong magnetic signal have been identified across the survey area [40a] (Appendix B Figures 2.3, 3.3, 4.27 and 5.27). These anomalies could be consistent with cut features, and therefore have a potential to be anthropogenic in origin and a possible archaeological categorisation has been given. These	Weak, positive, magnetically quiet amorphous anomaly with smooth edges, has been identified in the centre of the survey area. The anomaly is likely related to natural deposits, but an archaeological origin cannot be completely ruled out, as it could be a point of extraction, therefore an 'unclear' category has been ascribed.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Band of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area. Magnetic disturbance is present in the centre of the survey area, and it is caused by a service.	Sensitivity: Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated linear and curvilinear geophysical anomalies southeast of Roxton. Potential Magnitude: Medium Potential Significance: Minor adverse Mitigation: Archaeological investigation prior to or during construction. Residual Magnitude: Medium

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		<p>anomalies could form part of a former field system or parts of enclosures, yet they lack characteristics that would allow for a confident interpretation. Few weak, oval anomalies have been detected within the centre of the survey area and could be associated with points of extraction.</p>				<p>Residual Significance: Minor adverse</p>
41	None	<p>Linear, curvilinear, rectilinear and circular anomalies of both weak and strong magnetic signal have been identified across the survey area [41a] (Appendix B Figures 2.4,</p>	None	<p>A weak linear anomaly has been identified crossing in the central part of Area 41. Due to its morphology and signal, it is possible that this anomaly relates to a former</p>	<p>Dipolar anomalies spread is visible in the central part of the survey area indicative of the presence of green waste. The moderate levels of isolated ferrous responses are due to modern</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to a former field system or enclosures southeast of Roxton.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		3.4, 4.28 and 5.28). These anomalies could be consistent with cut features, and therefore have a potential to be anthropogenic in origin and a possible archaeological categorisation has been given. These anomalies could form part of a former field system or parts of enclosures, yet they lack characteristics that would allow for a confident interpretation.		unmapped field boundary. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified across the survey area with a formation consistent with drainage activity.	debris in the topsoil, visible across the survey area.	<p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
42	None	None	None	A strong, linear anomaly has been identified crossing the centre of Area 42. Due to its morphology	The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				<p>and signal, it is possible that this anomaly relates to a former unmapped field boundary. It is also a continuation of anomaly recorded in Area 41. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>across the survey area.</p>	<p>assessed for it as a result of the geophysical survey.</p>
43	None	None	None	<p>Magnetically strong, linear anomalies have been identified across the survey area with a formation</p>	<p>A strong and broad magnetic disturbance has been recorded running across the survey area on northwest to southeast alignment and it</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				consistent with drainage activity. Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	is caused by service.	
44	None	None	None	Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation.	A strong and broad magnetic disturbance has been recorded running across the survey area on northwest to southeast alignment and it is caused by service.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
45	Across the survey area, multiple linear, rectilinear, curvilinear and circular anomalies of both weak and strong positive signals have	None	None	Weak, linear anomalies have been identified running across of the survey area. These	Magnetic disturbances are visible at the edges of the survey area.	Sensitivity: Medium Description of Potential Impact:

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
	<p>been detected [45a] (Appendix B Figures 2.4, 3.4, 4.30 and 5.30). These anomalies form a possible settlement with field system and double-ditched trackway running to the west on the north to south alignment. Anomalies form visible enclosures with multiple internal divisions. The entire focus covers the area of approximately 1.8ha and continues to the south and possibly to the east and north-east beyond the survey area extent. The complex is known from previous geophysical survey and is recorded as a complex of Roman enclosures alongside a trackway (MNL2689) (See Section 1).</p>			<p>anomalies are indicators of ploughing activity.</p>		<p>Direct physical permanent impact on any buried archaeological remains relating to a former field system or enclosures southeast of Greenlands Farm.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
46	<p>In the northern part of the survey area, a few linear curvilinear and circular anomalies of positive weak and strong signal have been detected [46a] (Appendix B Figures 2.4, 3.4, 4.31 and 5.31). These anomalies are a continuation of the settlement system identified within Area 45.</p>	<p>A few faint, linear and curvilinear anomalies have been detected as a possible extension of the settlement system; nevertheless, due to a very ephemeral signal of these anomalies, only a 'Possible Archaeology' category has been ascribed.</p>	<p>Anomalies of unclear origins have been detected across the survey area. The sinuous anomaly has been identified running on northwest to southeast alignment in the centre of the survey area [46b]. This anomaly could be of potential archaeological origin, as it aligns well with parts of the settlement; nevertheless, its morphology suggests more of natural connotations; therefore the 'Unclear' category has been ascribed as none of origins can be</p>	<p>Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation.</p>	<p>Magnetic disturbances are visible at the edges of the survey area. In the southern part of the survey area, a spread of natural origin has been detected and it is related to alluvial activity and represents a part of a former river channel. Magnetic disturbances are visible at the edges of the survey area.</p>	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to a former field system or enclosures southeast of Greenlands Farm.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			excluded with certainty.			
47	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area. Magnetic disturbances are visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
48	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste. Bands of strong dipolar and positive anomalies indicative of	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
					<p>natural intertidal and alluvial deposits have been identified in the southern end of the survey area.</p> <p>Magnetic disturbances are visible at the edges of the survey area.</p>	
49	None	None	None	<p>Parallel, sinuous anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.</p>	<p>Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste.</p> <p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the eastern and northern parts of the survey area.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
50	None	A few linear and rectilinear anomalies have been identified within the central part of the survey area. Their visibility is limited due to a spread of a green waste present; nevertheless, some strong, positive, ditch-like anomalies have been detected. These anomalies are regular in shape and could indicate parts of former enclosures, therefore a 'Possible Archaeology' category has been ascribed.	In the central part of the survey area, a linear, strong positive anomaly has been identified. This anomaly could indicate a former field boundary visible on historical mapping, although it is not well aligned with it therefore the 'Unclear' category has been ascribed.	None	Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste. Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated former enclosures north of Riby Road.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
51	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>
52/52a	None	None	<p>Two ditch-like anomalies of weak and strong positive signals have been identified in the northern and central part of the field. These have no</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of</p>	<p>Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste.</p>	<p>An anthropogenic origin for the two ditch-like anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			<p>distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.</p>	<p>ploughing activity.</p>		<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the two ditch-like anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
53b	None	None	<p>Few discrete anomalies of weak and strong positive signals have been</p>	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal</p>	<p>An anthropogenic origin for the discrete anomalies cannot be ruled out. Using the precautionary principle,</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			<p>identified in the northern part of the field.</p> <p>These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.</p>		<p>and alluvial deposits have been identified across the survey area.</p> <p>Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to discrete anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
54a	None	None	<p>Few discrete anomalies of weak and strong positive signals have been identified across the field.</p> <p>These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbance has been detected along two services cutting through the field, as well as at the edges of the survey area.</p>	<p>An anthropogenic origin for the discrete anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to discrete anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
						Residual Significance: Negligible adverse
55a	None	None	None	Linear, dipolar anomalies have been identified running across the survey area and indicate a drainage activity.	Bands of strong and weak positive anomalies indicative of natural deposits have been identified across the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
56a	None	None	A singular curvilinear anomaly has been identified in the northern part of the survey area. This has no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Two weak linear dipolar anomalies have been identified in southern part of the survey area. Those could be indicators of ceramic drains.	Bands of strong and weak positive anomalies indicative of natural deposits have been identified in the southern part of the survey area.	An anthropogenic origin for the curvilinear anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. Sensitivity: Very Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to curvilinear anomaly.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
						<p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
57a	None	Multiple scattered discrete positive anomalies have been recorded in the northwestern corner of the field. Their general layout exhibits major regularity, and therefore these have been categorised as	Few discrete anomalies of weak and strong positive signals have been identified in the northern part of the field. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Parallel, regular anomalies	Magnetic disturbance has been detected along two services cutting through the field, as well as at the edges of the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to scattered discrete positive anomalies possibly reflecting an enclosure.</p> <p>Potential Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		Possible Archaeology. These could reflect former enclosures.	modern features or objects, but an archaeological origin cannot be completely ruled out.	running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.		<p>Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
57b	A cluster of strong and weak linear, curvilinear, and circular anomalies have been identified in the central part of the survey area. These anomalies exhibit a coherent shape and could indicate a former enclosure.	Few scattered discrete anomalies have been detected in the closest vicinity to Probable Archaeology cluster. These anomalies could be related to it nevertheless their morphology could also suggest geological origin;	Few discrete anomalies of weak and strong positive signals have been identified in the northern part of the field. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Parallel, regular anomalies running northeast to	Magnetic disturbance has been detected at the edges of the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to anomalies representing a former enclosure and cluster discrete anomalies of possible archaeological origin.</p> <p>Potential Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		therefore, the Possible Archaeology category has been ascribed.	an archaeological origin cannot be completely ruled out.	southwest and across the area are indicative of former ridge and furrow cultivation.		<p>Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
58a	None	None	Few discrete anomalies of weak and strong positive signals have been identified in the northern part of the field. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but	Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance has been detected along a service cutting through the field, as well as at the edges of the survey area.	<p>An anthropogenic origin for the discrete anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			an archaeological origin cannot be completely ruled out.			<p>archaeological remains relating to discrete anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
59	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	A broad, sinuous, positively enhanced anomaly has been detected in the northern part of the survey area and reflect the superficial deposits.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				<p>Parallel, regular anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.</p>	<p>The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.</p> <p>Magnetic disturbance has been detected along a service cutting through the field, as well as at the edges of the survey area.</p>	
60	None	None	None	<p>A singular positive anomaly was recorded cutting through the field. It is most likely a former unmapped field boundary.</p> <p>Parallel, regular anomalies running</p>	None	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				northeast to southwest and across the area are indicative of former ridge and furrow cultivation.		
61	None	None	None	Parallel, regular anomalies running northeast to southwest and across the area are indicative of former ridge and furrow cultivation.	None	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
62	None	Multiple scattered discrete positive anomalies have been recorded in the southern part of the survey area. Their general layout exhibits some regularity, and therefore these have been categorised as	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	None	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to anomalies representing possible enclosures.</p> <p>Potential Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		Possible Archaeology. These could reflect former enclosures.				<p>Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
63	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	None	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
64	None	Multiple scattered discrete positive anomalies have	Few discrete anomalies of weak and strong positive signals	Weak, linear anomalies have been identified	Bands of strong and weak positive anomalies indicative of	Sensitivity: Low

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		<p>been recorded in the southern part of the survey area. Their general layout exhibits some regularity, and therefore these have been categorised as Possible Archaeology. These could reflect former enclosures.</p>	<p>have been identified in the northern part of the field. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.</p>	<p>running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>natural deposits have been identified across the survey area.</p>	<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to anomalies representing possible enclosures and discrete anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
65	None	None	None	Weak, linear anomalies have been identified	Magnetic disturbance has been detected at	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				running across of the survey area. These anomalies are indicators of ploughing activity.	the edges of the survey area.	this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
66	None	In the south-eastern corner of the survey area, strong and weak positively enhanced anomalies have been identified [66a]. Together, those linear and rectilinear anomalies create semi-rectangular shape, which could indicate a part of a former enclosure. The feature most likely continues to the east, beyond the boundary of the survey area. Due to limited	Two ditch-like anomalies of weak and strong positive signals have been identified crossing the possible enclosure on north-east to south-west alignment. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation.	A broad, sinuous, positively enhanced anomaly has been detected in the northern part of the survey area and reflect the superficial deposits. The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to a possible undated enclosure northeast of Irby-upon-Humber.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		context and morphology, these anomalies have been classified as 'Possible Archaeology'.				<p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>

Table 3: Impact Assessment Update – Section 3

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
67	None	None	<p>Across the survey area several anomalies have been classified as ‘Unclear’, including strong, discrete anomalies and weak, curvilinear anomalies. These have no distinctive signal or shape. The anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>An anthropogenic origin for the discrete anomalies and weak, curvilinear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to discrete anomalies and curvilinear anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
68	None	None	<p>In the northern part of the survey area amorphous positive anomaly has been identified. This anomaly has no distinctive signal or shape. The anomaly likely relates to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbance has been identified in the southern end of the survey area and was caused by a service.</p> <p>Bands of strong and weak positive anomalies indicative of natural deposits have been identified across the survey area.</p>	<p>An anthropogenic origin for the discrete anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to discrete anomaly.</p> <p>Potential Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
69	None	None	<p>Across the survey area amorphous, linear and circular positive anomalies have been identified. This anomaly has no distinctive signal or shape. These anomalies likely relate to natural, agricultural or modern features</p>	<p>Parallel, sinuous anomalies running northwest to southeast and across the area are indicative of former ridge and furrow cultivation. Weak, linear anomalies have been identified</p>	<p>Bands of strong and weak positive anomalies indicative of natural deposits have been identified across the survey area. In the north-western part of the survey area, a magnetic disturbance</p>	<p>An anthropogenic origin for the linear and circular positive anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			or objects, but an archaeological origin cannot be completely ruled out.	running across of the survey area. These anomalies are indicators of ploughing activity.	caused by a service is visible.	<p>Direct physical permanent impact on any buried archaeological remains relating to linear and circular positive anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
70	In the central part of the survey area a series of linear, curvilinear, rectilinear and discrete anomalies	Running on west to east alignment a series of strong and weak positive linear and curvilinear	None	Weak, linear anomalies have been identified running across of the survey area. These	Bands of strong dipolar and positive anomalies indicative of natural intertidal	<p>Sensitivity: Medium</p> <p>Description of Potential Impact:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
	<p>have been detected [70a] (Appendix B Figures 2.10, 2.11, 3.10, 3.11, 4.51-52 and 5.51-52). These anomalies seem to create a cluster of possible enclosures or field divisions. Many anomalies overlap on each other, which could suggest multi-phased usage of this area. Extensive agricultural activity visibly limits the interpretation as cluster is cut with multiple ploughing lines.</p>	<p>anomalies have been detected [70b] (Appendix B Figures 2.10, 2.11, 3.10, 3.11, 4.51-52 and 5.51-52). These anomalies cutting through the cluster of enclosures and their exact relationship is unknown. It is possible that these anomalies are related to a double-ditched trackway, which was either contemporaneous or of different chronology to the enclosure system. Nevertheless, due to a limited context and abundance of natural formations within the broader landscape, a 'Possible Archaeology'</p>		<p>anomalies are indicators of ploughing activity.</p>	<p>and alluvial deposits have been identified in the eastern part of the survey area.</p>	<p>Direct physical permanent impact on any buried archaeological remains relating to multi-phase enclosures or field divisions east of Irby-upon-Humber.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
		<p>category has been ascribed.</p> <p>Multiple linear and curvilinear anomalies have been detected north and northwest to the enclosure system. These could indicate the extension of the complex, nevertheless due to their weak morphology only 'Possible Archaeology' category has been ascribed.</p>				
71	None	None	<p>Multiple linear and curvilinear positive anomalies have been detected within geological spread. These are the most probable of geological origin nevertheless due to their regular</p>	<p>Weak, linear anomalies have been identified running in western part of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p>	<p>An anthropogenic origin for the linear and circular positive anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			morphology, their archaeological origin cannot be completely ruled out.			<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to multiple geophysical anomalies east of Irby-upon-Humber.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
72	None	None	Linear and curvilinear positive anomalies have	None	Bands of strong dipolar and positive anomalies	An anthropogenic origin for the linear and circular positive anomalies cannot be ruled out. Using the

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			<p>been detected across the survey area. These are the most probable of geological or agricultural origin nevertheless due to their regular morphology, their archaeological background cannot be completely ruled out.</p>		<p>indicative of natural intertidal and alluvial deposits have been identified across the survey area</p>	<p>precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to multiple geophysical anomalies east of Irby-upon-Humber.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Residual Significance: Negligible adverse</p>
73	None	None	<p>Multiple discrete and circular, positive anomalies have been detected across the survey area. These are the most probable of geological origin nevertheless due to their morphology, and archaeological findings in the closest vicinity of the survey area, their archaeological potential cannot be completely ruled out.</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Dipolar anomalies spread is visible across the survey area indicative of the presence of green waste. Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area.</p>	<p>An anthropogenic origin for the discrete anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. As such and due to their proximity to the site of Welbeck Hill Anglo-Saxon cemetery their sensitivity has been assigned as Medium.</p> <p>Sensitivity: Medium</p> <p>Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to multiple geophysical anomalies possibly related to Anglo Saxon funerary activity, north of Welbeck Hill.</p> <p>Potential Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>
74	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomaly has</p>	<p>Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				been identified running across the survey area and indicate a drainage activity.		
75	None	None	Two linear, positive anomalies have been detected in the centre of the survey area. These have no distinctive signal or shape. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern part of the survey area.	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies east of Welbeck Hill.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
76	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
77	None	In the south-eastern corner of the survey area a series of strong and weak positive linear and rectilinear	A linear anomaly of strong positive signal has been detected in the southern part of the survey area. This anomaly is	Parallel anomalies running west to east and across the area are indicative of former ridge	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial	<p>Sensitivity: Low</p> <p>Description of Potential Impact:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
		<p>anomalies have been detected. These anomalies are indicative of ditch-like features, and their alignment could suggest a small enclosure. Nevertheless, due to a limited context, extensive agricultural activity, as well as abundance of natural anomalies a 'Possible Archaeology' category has been ascribed.</p>	<p>the most probable of geological or agricultural origin nevertheless its archaeological background cannot be completely ruled out.</p>	<p>and furrow cultivation.</p> <p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>deposits have been identified across the survey area. Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>Direct physical permanent impact on any buried archaeological remains south of Laceby Beck, relating to or obscured by traces of former ridge and furrow cultivation, and a small possible enclosure.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
78	None	None	None	Parallel anomalies running west to	Bands of strong dipolar and positive	No anomalies of archaeological, potentially archaeological or unclear

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				<p>east and across the area are indicative of former ridge and furrow cultivation.</p>	<p>anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>
79	None	None	<p>Few linear, positive anomalies have been detected in the northern part of the survey area. These have no distinctive signal or shape. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be</p>	<p>Parallel anomalies running west to east and across the area are indicative of former ridge and furrow cultivation.</p>	<p>Bands of strong dipolar and positive anomalies have been detected in the central part of the survey area and reflect changes in superficial deposits.</p> <p>Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>An anthropogenic origin for the linear positive anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			completely ruled out.			<p>relating to linear positive anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
80	None	None	Multiple discrete, positive anomalies have been detected across the survey area. These anomalies are most probably of geological or	Two linear anomalies have been detected in the centre of the survey area. These correlate with former field boundaries visible on historical	Bands of strong dipolar and positive anomalies have been detected in the southeastern part of the survey area and reflect changes	<p>An anthropogenic origin for the discrete positive anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			<p>agricultural origins, nevertheless an archaeological cause cannot be completely ruled out.</p>	<p>mapping and it is also probable that these old field boundaries have been reused as land drains.</p> <p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate drainage features.</p>	<p>in superficial deposits.</p> <p>Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating multiple discrete anomalies of possible archaeological origin.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
81	None	None	None	None	Magnetic disturbance has	No anomalies of archaeological, potentially

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					been detected at the edges of the survey area and around services which run through the survey area.	archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
82	None	None	None	None	Magnetic disturbance has been detected at the edges of the survey area and around service which run through the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
83	(Christmas tree farm)					
84	(Christmas tree farm)					
85	(Christmas tree farm)					
86	None	None	A linear anomaly of weak positive signal has been detected in the northern part of the survey area. This anomaly is the most probable of agricultural origin nevertheless its archaeological	Weak, linear, dipolar anomalies have been identified in the central part of the survey area. These anomalies align with field boundaries recorded on 2nd	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the central and southeast corner	An anthropogenic origin for the linear weak anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. Sensitivity: Very Low

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			background cannot be completely ruled out.	<p>Edition OS mapping.</p> <p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p> <p>Parallel anomalies running in two different alignment and respecting historical boundary regime are visible within the survey area. These are indicative of former ridge and furrow cultivation.</p>	<p>of the survey area.</p> <p>Magnetic disturbance has been detected at the edges of the survey area.</p>	<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear anomaly.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
87	(Unable to survey due to existing ground conditions)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
88	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
89	None	None	Two linear anomalies exhibiting weak and strong magnetic signal as well as a spread of discrete anomalies have been identified in the southern part of the survey area. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the northern and southern parts the survey area.	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies north of Moorhouse Farm.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			completely ruled out.			<p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
90	None	None	In the centre of the survey area, several positive, discrete and circular anomalies have been detected. These anomalies likely relate to natural, agricultural or modern features	Weak, linear, positive anomalies have been identified in the northern part of the survey area, running on north to south alignment. These anomalies	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	<p>An anthropogenic origin for the discrete and circular anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			or objects, but an archaeological origin cannot be completely ruled out.	<p>broadly align with field boundaries recorded on 2nd Edition OS mapping.</p> <p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	In the southern part of the survey area a magnetic disturbance has been identified and caused by a service.	<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies north of Moorhouse Farm.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
91	None	None	None	None	Bands of strong dipolar and positive	No anomalies of archaeological, potentially archaeological or unclear

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
92	None	None	Few linear anomalies have been detected in the southern part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.</p> <p>Magnetic disturbance is</p>	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies north and east of Ashby cum Fenby.</p> <p>Potential Magnitude: Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					visible at the edges of the survey area.	<p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
93	None	None	A singular, curvilinear anomaly has been detected in the northern part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.	<p>An anthropogenic origin for the curvilinear anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.			<p>Direct physical permanent impact on any buried archaeological remains relating to curvilinear anomaly.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
94	(Bank/trees)					
95	None	In the western corner of the survey area, a semi-annular strong positive anomaly has been	Linear, positively enhanced, anomalies have been detected in the northern part	Weak, linear anomalies have been identified running across of the survey area. These	Broad sinuous, positively enhanced anomalies have been identified across the	<p>Sensitivity: Low</p> <p>Description of Potential Impact:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
		<p>identified accompanied by a circular positive anomaly situated in the centre of the abovementioned form [95a]. These could indicate parts of a possible ring-ditch with some internal structures. However, due to extensive agricultural activity and a strong geological background a more definite interpretation is not possible and therefore a 'Possible Archaeology' category has been ascribed.</p>	<p>of the survey area. These anomalies likely relate to natural or agricultural activity, but an archaeological origin cannot be dismissed.</p>	<p>anomalies are indicators of ploughing activity and tram lines.</p> <p>Parallel anomalies running north to south and across the area are indicative of former ridge and furrow cultivation.</p>	<p>survey area and reflect superficial deposits.</p>	<p>Direct physical permanent impact on any buried archaeological remains relating to a semi-annular geophysical anomaly with a possible central feature east of Ashby cum Fenby.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
96	(Bank/trees)					
97	None	None	Two linear, positively enhanced	Weak, linear anomalies have been identified	Broad sinuous, positively enhanced	An anthropogenic origin for the linear anomalies cannot be ruled out. Using

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			<p>anomalies have been detected in the northern part of the survey area.</p> <p>These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.</p>	<p>running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>anomalies have been identified across the survey area and reflect superficial deposits.</p>	<p>the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies north and east of Ashby cum Fenby.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Low</p> <p>Residual Significance: Negligible adverse</p>
98	None	In the southeastern corner of the survey area, anomalies of positive weak and strong signal have been identified [98a]. Due to their semi-rectilinear shape, these have been categorised as ‘Possible Archaeology’; nevertheless, their context is limited.	Positively enhanced, broad anomalies have been identified across the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.	Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	<p>Magnetic disturbance is visible at the edges of the survey area.</p> <p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p>	<p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to semi-rectilinear geophysical anomalies east of Ashby cum Fenby.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
99	(Surveyed as 98)					
100/101	None	None	<p>Several curvilinear and circular, positively enhanced, anomalies have been detected in the central part of the survey area. These anomalies likely relate to natural or agricultural activity, but an archaeological origin cannot be dismissed.</p>		<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p>	<p>An anthropogenic origin for the curvilinear and circular anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the curvilinear and circular anomalies.</p> <p>Potential Magnitude: Medium</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
101	(Surveyed as 100)					
102	In the southern part of the survey area strong, positive anomalies, indicative of ditch-like features, as well as pit like anomalies have been identified [102a] (Appendix B Figures 2.13-14, 3.13-14, 4.72 and 5.72). These anomalies form a regular pattern that extends beyond	None	In the centre of Area 102, a strong, discontinuous anomaly has been identified. It is unclear what is its origin, as it could be an indicator of a land drain; nevertheless, with the archaeological activity nearby,	A magnetically strong, linear anomaly has been identified running across the survey area and indicates a drainage feature.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. A spread of isolated ferrous responses is visible in the northern part of	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to geophysical anomalies that could reflect parts of an undated former settlement east of Ashby cum Fenby.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
	Area 102 and continues as a more defined cluster of regular anomalies within Area 103 [103a]. These anomalies could reflect parts of a former settlement. It appears that settlement continues to the north-east beyond the survey extent boundaries.		an archaeological origin cannot be completely ruled out.		the survey area is caused by modern debris in the topsoil.	<p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>
103	A series of linear, curvilinear, circular and discrete anomalies, of varying strength, have been identified in the northern part of the survey area [103a] (Appendix B Figures 2.13-14, 3.13-14, 4.72-73 and 5.72-73). Their	Several more ephemeral anomalies have been detected in the centre of the survey area [103b]. These anomalies, due to their morphology, differ to the regular recliner anomalies in the	A series of discrete, positive anomalies has been detected in the centre of the survey area. These do not present any distinctive shape; nevertheless, due to the proximity to the	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area.	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to geophysical anomalies that could reflect parts of an undated</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
	regularity and rectilinear forms indicate parts of a former settlement. It appears that settlement continues to the north-east beyond the survey extent boundaries.	northern part, therefore due to a limited context and abundance of natural formations within the broader landscape, a 'Possible Archaeology' category has been ascribed.	archaeological anomalies their archaeological background cannot be excluded.	Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.		<p>former settlement east of Ashby cum Fenby.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>
104	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of	Magnetic disturbance is visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				<p>ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>		
105	None	None	<p>A set of linear, weak, positive anomalies has been identified in the centre part of the survey area. These are the most probable of geological origin, nevertheless their regularity and continuity, as well as an opposite alignment to geological forms detected nearby could suggest their</p>	<p>A negative, linear anomaly has been detected in the southwestern part of the survey area, cutting through the geological formation. This anomaly corresponds with a former field boundary visible on a historical mapping.</p> <p>Weak, linear anomalies have</p>	<p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>An anthropogenic origin for the linear and circular positive anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			anthropological origin.	been identified running in the western part of the survey area. These anomalies are indicators of ploughing activity.		<p>south of Ashby cum Fenby.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
106	(Surveyed as 105)					
107	(Surveyed as 105)					
108			A series of linear, discrete anomalies have been identified in the northern part of the survey	In the centre of Area 108 a linear trace of dipolar and positive weak anomalies has		An anthropogenic origin for the linear and discrete anomalies cannot be ruled out. Using the precautionary principle,

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			<p>area. Due to the limited context and generic morphology, these anomalies have been classified as 'Unclear', nevertheless the archaeological origin cannot be completely ruled out.</p>	<p>been identified. These anomalies correspond with a former field boundary visible on historical mapping.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>		<p>they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies south of Ashby cum Fenby.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						Residual Significance: Negligible adverse
109	A series of positive, linear, rectilinear, and circular anomalies have been identified in the northern part of the Area 109 [109a] (Appendix B Figures 2.17, 3.14, 4.75 and 5.75). These anomalies cover an area of approximately 2.5 ha. The size, regularity of forms and magnetic signal, suggest existence of an undated settlement. It appears that the settlement continues beyond the survey extent to the west and to the east of the survey area.	None	A spread of discrete linear and circular positive strong anomalies has been detected in the southern part of the survey area. These could be of geological origin, nevertheless their archaeological background cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity. In the central part of Area 109, a dipolar anomaly of circular shape has been detected. This anomaly could reflect an existence of a former pond, visible on historical mapping.	Magnetic disturbance is visible at the edges of the survey area.	Sensitivity: Medium Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated settlement south of Grooms Cottages, Ashby cum Fenby. Potential Magnitude: Medium Potential Significance: Moderate adverse Mitigation: Archaeological investigation prior to or during construction. Residual Magnitude: Medium

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Residual Significance: Moderate adverse</p>
<p>110</p>	<p>None</p>	<p>None</p>	<p>Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.</p>	<p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>An anthropogenic origin for the linear, positively enhanced, broad anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the linear anomalies.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
111		<p>A series of positively enhanced discrete rectilinear and circular anomalies have been identified [111a]. Due to their morphology and signal these anomalies have been identified as 'Possible Archaeology', as they appear to form regular clusters that continue into Area 112; however,</p>	<p>Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it</p>	<p>Parallel anomalies running west to east and across the area are indicative of former ridge and furrow cultivation.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	None	<p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to rectilinear and curvilinear geophysical anomalies west of Grainsby Grange.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
		these could be of geological origin.	cannot be confidently stated.			<p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
112	None	A few weak, positively enhanced anomalies have been identified in the northern corner of the Area 112 [112a]. These are the continuation of clusters recognised within Area 111, that have been identified as 'Possible Archaeology'.	Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin,	Parallel anomalies running west to east and across northern half of the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a	Magnetic disturbance is visible at the edges of the survey area.	<p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to rectilinear and curvilinear geophysical anomalies west of Grainsby Grange.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			nevertheless it cannot be confidently stated.	drainage activity.		<p>Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
113	None	None	Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Parallel anomalies running west to east in the</p>	None	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			origin, nevertheless it cannot be confidently stated.	southern part the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.		relating to linear geophysical anomalies south of Grainsby Lane. Potential Magnitude: Low Potential Significance: Negligible adverse Mitigation: Archaeological investigation prior to or during construction. Residual Magnitude: Low Residual Significance: Negligible adverse
114	None	None	Linear, positively enhanced, broad anomalies have been identified crossing the centre of the survey area. It is unclear if these	Parallel anomalies running southwest to northeast in the southern part the survey area are indicative of	None	An anthropogenic origin for the linear and circular positive anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			<p>anomalies are of anthropological origin, or rather reflect the local geology. The regularity of these anomalies could suggest an archaeological origin, nevertheless it cannot be confidently stated.</p>	<p>former ridge and furrow cultivation.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>		<p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear geophysical anomalies south of Grainsby Lane.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
115	<p>In the southeastern corner of the survey area, a set of both strong and weak positive anomalies has been identified [115a]. These anomalies form rectilinear structures and possibly reflect an enclosure system or a former field system. Some circular anomalies could represent post holes.</p>	<p>Further to the north of the cluster [115a] a set of scattered, discrete anomalies has been identified [115b]. These anomalies are far more ephemeral when compared to the southern cluster and far more discrete. Some rectilinear forms are still visible, and therefore a Possible Archaeology category has been ascribed.</p>	<p>Several circular, positively enhanced, anomalies have been detected in the central part of the survey area. These anomalies likely relate to natural or agricultural activity, but an archaeological origin cannot be dismissed.</p>	<p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible enclosure or field system and related potentially related discrete anomalies, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						Residual Significance: Minor adverse
116	None	None	Several positively enhanced anomalies of various morphology have been identified across the survey area. These do not exhibit any specific layout or shape, and therefore an undefined category has been ascribed to them. However, in the northern part of the field a set of anomalies reflecting possibly rectilinear form with internal circular anomaly has been detected [15a]. The ephemeral	Parallel anomalies running southwest to northeast in the southern part the survey area are indicative of former ridge and furrow cultivation. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	An anthropogenic origin for the positively enhanced anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. Sensitivity: Very Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the positively enhanced anomalies. Potential Magnitude: Low Potential Significance: Negligible adverse Mitigation:

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			form of this set as well as magnetic disturbance that appears in the closest vicinity, limits more certain interpretation, nevertheless its shape could suggest an archaeological potential.			<p>Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
117	None	None	Two positively enhanced anomalies have been detected in the central part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across</p>	Magnetic disturbance is visible at the edges of the survey area as well as around a service.	<p>An anthropogenic origin for the two positively enhanced anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the two</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			confirmed, therefore an 'Unclear' category has been assigned.	the survey area and indicate a drainage activity.		<p>positively enhanced anomalies.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
118	None	None	Several positively enhanced anomalies have been detected in the central part of the survey area. These could be a result of ploughing	Parallel anomalies running southwest to northeast in the southern part the survey area are indicative of former ridge and furrow	Magnetic disturbance is visible at the edges of the survey area as well as around a service.	<p>An anthropogenic origin for the positively enhanced anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.	<p>cultivation.</p> <p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>		<p>Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the positively enhanced anomalies.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
119	None	None	Several positively enhanced	Weak, linear anomalies have been identified	Magnetic disturbance is visible at the	An anthropogenic origin for the positively enhanced anomalies

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			<p>anomalies have been detected in the central part of the survey area. These could be a result of ploughing activity, nevertheless due to a strong magnetic background caused by the geological spread, this cannot be clearly confirmed, therefore an 'Unclear' category has been assigned.</p>	<p>running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>edges of the survey area as well as around a service.</p>	<p>cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the positively enhanced anomalies.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Residual Significance: Negligible adverse</p>
120	(not yet surveyed, ongoing landowner discussions required)					
121	None	None	<p>A strong, positive small discrete anomaly has been identified in the eastern part of the survey area. It lacks any characteristic shape or signal and therefore has been categorised as 'Unclear'. It may indicate natural variations or more deeply buried ferrous or fired material.</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area and around a service which runs NW-SE through the southern half of the survey area.</p>	<p>An anthropogenic origin for the strong, positive small discrete anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the positive anomaly.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
122	None	None	<p>A group of strong, discrete responses have been identified in the centre of the survey area. They lack any characteristic shape or signal and therefore have been categorised as 'Unclear'.</p>	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>An anthropogenic origin for the strong, positive small discrete anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>relating to the positive anomaly.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
123	None	A set of discrete linear and circular anomalies have been identified in the western part of the survey area [123a]. These anomalies have a rectilinear form with possible	Weak, positive linear trends and pit type anomalies have been recognised across the survey area. These are most likely agricultural in nature, but	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area and around a service which continues from Area 121.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to undated possible former</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
		<p>internal features. It is possible that these anomalies indicate former enclosure. However, they are fragmentary and the rich geological background is a limiting factor and therefore only 'Possible Archaeology' category has been ascribed.</p>	<p>archaeological origin cannot be completely ruled out.</p>		<p>A spread of isolated ferrous responses is visible in the northern part of the survey area is caused by modern debris in the topsoil.</p> <p>In the centre of the survey area a spread of magnetically quiet, amorphous positively enhanced anomalies have been identified [123b]. These could indicate former quarrying activity.</p>	<p>enclosures east of Autby House.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
124	None	None	<p>A strong, positive pit type anomaly has been identified in the eastern part of the survey area. It lacks any characteristic</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of</p>	<p>Magnetic disturbance is visible at the edges of the survey area and around a service.</p>	<p>An anthropogenic origin for pit like anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			shape or signal and therefore has been categorised as 'Unclear'.	ploughing activity.	Broad discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	<p>Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the pit like anomaly.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
125	(not yet surveyed, ongoing landowner discussions required)					
126	(not yet surveyed, ongoing landowner discussions required)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
127	(Surveyed as 128)					
128	<p>A series of linear, curvilinear, rectilinear and pit like anomalies have been identified across Area 128 [128a] (Appendix B Figures 2.17, 3.17, 4.88-90, 5.88-90). These anomalies create a regular cluster and could indicate a settlement, which continues into Areas 129 and 130. The interpretation is severely limited due to a pipeline crossing the northern part of the survey area as well as limited survey extent.</p>	<p>Positively enhanced, linear anomalies have been detected across the survey area [128b and c]. These could be of archaeological origin, as anomalies of Probable Archaeology have been detected in the immediate vicinity. Unfortunately, due to a service running across the area and the limited survey extent, a 'Possible Archaeology' category has been ascribed.</p>	<p>Few weak, curvilinear and linear anomalies have been detected in the western and northern part of the survey area. These do not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area and around a service.</p>	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible settlement activity, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						Moderate adverse
129	A series of linear, curvilinear, rectilinear and circular anomalies have been identified across Area 129 [129a] (Appendix B Figures 2.17, 3.17, 4.88-90, 5.88-90). These are a continuation of the settlement pattern recognised within Area 128.	A singular isolated, positive linear anomaly has been detected in the northern part of the survey area. Its signal is affected by the service crossing in between the settlement and the anomaly, and therefore the context of this anomaly is limited and distorted.	Two amorphous positive anomalies have been identified in the centre of Area 129 in the vicinity of the archaeological anomalies. Their origin is unclear, as their morphology is uncharacteristic, therefore these have been classified under this category.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area and around a service.	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible settlement activity, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						Moderate adverse
130	A series of linear, curvilinear, rectilinear and circular anomalies have been identified across Area 130 [130a] (Appendix B Figures 2.17, 3.17, 4.88-90, 5.88-90). These anomalies create regular clusters and could indicate a settlement, which continues across Areas 129 and 128. A possible double-ditched trackway is visible, unfortunately cut by the service which limits the interpretation. It is probable that the settlement continues beyond the survey extent to the south and north. It is also possible that within this settlement	None	Few amorphous positive anomalies have been identified in the western part of Area 130 in the vicinity of the archaeological anomalies. Their origin is unclear, but an archaeological origin cannot be excluded given the wider context.	Parallel anomalies running on two different alignments across the survey area are indicative of former ridge and furrow cultivation. This extensive agricultural activity has impacted archaeological interpretation.	Magnetic disturbance is visible at the edges of the survey area and around a service.	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible settlement activity, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
	traces of burning activity are present.					Moderate adverse
131	None	None	A singular positively enhanced anomaly of curvilinear shape has been detected in the southern part of the survey area. These could relate to an agricultural activity; however, an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	Magnetic disturbance is visible at the edges of the survey area and around a service.	An anthropogenic origin for the curvilinear anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. Sensitivity: Very Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the curvilinear anomaly. Potential Magnitude: Low Potential Significance: Negligible adverse Mitigation:

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
132	None	None	<p>A set of positively enhanced anomalies of annular form with circular anomaly in its centre has been detected in the northern part of the survey area. These anomalies are strongly affected by a halo caused by the service and therefore more confident interpretation is limited; however, an archaeological</p>	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area and around a service.</p>	<p>An anthropogenic origin for the positively enhanced anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the positively enhanced anomalies.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			origin cannot be ruled out.			<p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
133	(not yet surveyed, ongoing landowner discussions required)					
134	(not yet surveyed, ongoing landowner discussions required)					
135	In the northern part of the field a broad cluster of linear and rectilinear anomalies have been detected [135a]. The spatial organisation of these anomalies could suggest an existence of a former enclosure	In the southern part of the field, several positively enhanced anomalies of linear and curvilinear shape have been identified [135b]. These are far more ephemeral	A singular positively enhanced anomaly of circular shape has been detected in the southern part of the survey area. This anomaly could relate to a	Parallel anomalies running on two different alignments across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to a possible enclosure or field system,</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
	system or unmapped, undated field regime.	compared to anomalies [135a] and their spatial organisation is not defined distinctively, and therefore a Possible Archaeology category has been ascribed.	geological, agricultural or modern activity; however, an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.		<p>due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
136	None	None	None	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				<p>ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>Magnetic disturbance is visible at the edges of the survey area.</p>	
137	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a</p>	<p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				drainage activity.		
138	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Table 4: Impact Assessment Update – Section 4

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
139	None	None	None	Weak, linear anomalies have been identified	Broad sinuous, positively enhanced anomalies have	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				<p>running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p>	<p>been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area as well as around a mapped field boundary which could indicate that a service is running there as well.</p> <p>A spread of isolated ferrous responses is visible in the northern part of the survey area is caused by modern debris in the topsoil.</p>	<p>archaeological impact assessed for it as a result of the geophysical survey.</p>
140/141	None	In the central part of the survey area,	In the close vicinity to anomaly	Weak, linear anomalies have been	Magnetic disturbance is visible at the	Sensitivity: Very Low

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		two ephemerals positively enhanced rectilinear anomalies have been identified [140a]. The morphology of those fields could suggest that these are parts of former enclosures or field systems, however due to their fragmented appearance, only a Possible Archaeology category has been ascribed.	[140a] two scattered, discontinuous anomalies of weak positive enhancement have been detected. These due to their weak morphology have been categorised as unclear in origin, nevertheless their archaeological background cannot be completely ruled out.	identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity. Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.	edges of the survey area.	<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible fragmented field system, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Negligible adverse</p>
141	(Surveyed as 140)					
142	None	Across the entire survey area, a	Few weak, curvilinear and linear	Weak, linear anomalies have been	Broad sinuous, positively enhanced	<p>Sensitivity: Low</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		cluster of discrete positively enhanced linear, circular and rectilinear anomalies have been identified. Due to a strong impact of local geology as well as intensive ploughing, these anomalies have been categorised as Possible Archaeology, as further interpretation is limited.	anomalies have been detected in the western and southern part of the survey area. These do not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	anomalies have been identified across the survey area and reflect geological forms.	<p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to cluster of discrete anomalies, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
143	None	None	A weak, linear anomaly has been detected in the northwestern of the survey	Weak, linear anomalies have been identified running across of the survey area in		An anthropogenic origin for the linear anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			<p>area. This anomaly does not exhibit any characteristic shape, signal or pattern and therefore has been categorised as 'Unclear'.</p>	<p>two alignments. These anomalies are indicators of ploughing activity.</p> <p>Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.</p>		<p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the linear anomaly.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
144	None	None	Few weak, linear anomalies have been detected in the	Parallel anomalies running across the survey area	Broad sinuous, positively enhanced anomalies have been identified	An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			<p>western and southern part of the survey area. These do not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.</p>	<p>are indicative of former ridge and furrow cultivation.</p>	<p>across the survey area and reflect geological forms.</p>	<p>principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the linear anomalies.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
145	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.</p> <p>Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.</p> <p>Magnetically strong, linear anomalies have been identified running across the</p>	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				survey area and indicate a drainage activity.		
146	(not yet surveyed, ongoing landowner discussions required)					
147	(not yet surveyed, ongoing landowner discussions required)					
148	(not yet surveyed, ongoing landowner discussions required)					
149	None	None	A strong, curvilinear anomaly has been detected in the northeastern part of the survey area. This anomaly does not exhibit any characteristic shape, signal or pattern and therefore has been categorised as 'Unclear'.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity. Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.	An anthropogenic origin for the curvilinear anomaly cannot be ruled out. Using the precautionary principle, it is assessed as archaeological. Sensitivity: Very Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the curvilinear anomaly. Potential Magnitude: Low Potential Significance: Negligible adverse Mitigation:

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				Magnetically strong, linear anomalies have been identified running across the survey area and indicate a drainage activity.		<p>Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
150	None	Several discrete linear and circular anomalies have been identified in the southeastern part of the survey area [150a]. Their ephemeral character does not allow for better interpretation and therefore only a	A weak, linear anomaly has been detected in the northeastern part of the survey area. This anomaly does not exhibit any characteristic shape, signal or pattern and therefore have been categorised as 'Unclear'.	<p>Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.</p> <p>Two dipolar linear anomalies have been detected in the northern part of the area and</p>	<p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear and curvilinear anomalies, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		Possible Archaeology category has been ascribed. These could reflect former enclosures.		their signal suggest ceramic drains.		Archaeological investigation prior to or during construction. Residual Magnitude: Medium Residual Significance: Minor adverse
151	None	Several linear and circular anomalies have been identified in the northeastern part of the survey area [151a]. Their ephemeral character as well as local geology, does not allow for better interpretation and therefore only a Possible		Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	Discrete, linear and circular, positively enhanced anomalies have been identified in the southern part of the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	Sensitivity: Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to linear and curvilinear anomalies, due to construction of the pipeline. Potential Magnitude: Medium Potential Significance: Minor adverse Mitigation: Archaeological investigation prior to or during construction.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		Archaeology category has been ascribed. These could reflect former enclosures.				<p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
152	None	None	None	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	<p>Discrete, linear and circular, positively enhanced anomalies have been identified in the southern part of the survey area and reflect geological forms.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
153/154	None	None	None	Parallel anomalies running across the survey area are indicative of former	Discrete, linear and circular, positively enhanced anomalies have been identified across the	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				ridge and furrow cultivation.	survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	
154	(surveyed as 153)					
155	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
156	None	None	None	Weak, linear anomalies have been identified running across of the survey area in two alignments. These	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				anomalies are indicators of ploughing activity.	geological forms.	
157	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
158	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
					Magnetic disturbance is visible at the edges of the survey area.	
159	(not yet surveyed, ongoing landowner discussions required)					
160	(not yet surveyed, ongoing landowner discussions required)					
161	None	A linear set of ephemeral anomalies of both strong and weak positive signal has been identified across the survey area [161a]. These anomalies lined up and could reflect a former undated field division. The further investigation is limited due to a strong influence of	In the eastern part of the survey area, in the closest vicinity to the Possible Archaeology anomalies, a cluster of discrete linear and circular anomalies has been identified. These could be of geological origin; however, some regularity of forms could suggest an anthropological background.	Weak, linear anomalies have been identified running across of the survey area in two alignments. These anomalies are indicators of ploughing activity.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the ephemeral anomalies, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		local geology, and therefore only Possible Archaeology category has been ascribed to it.				Medium Residual Significance: Minor adverse
162 (Small part)	None	None	None	None	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
163	(not yet surveyed, ongoing landowner discussions required)					
164	(not yet surveyed, ongoing landowner discussions required)					
165	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
					Magnetic disturbance is visible at the edges of the survey area.	
166	None	None	None	None	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
167	(not yet surveyed, ongoing landowner discussions required)					
168	(not yet surveyed, ongoing landowner discussions required)					
169	(not yet surveyed, ongoing landowner discussions required)					
170	(not yet surveyed, ongoing landowner discussions required)					
171	None	A series of scattered and discrete anomalies has been recorded in	In the central part of the survey area a spread of positively enhanced	Parallel anomalies running across the survey area are indicative	Magnetic disturbance is visible at the edges of the survey area.	Sensitivity: Low Description of Potential Impact:

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		<p>the western part of the survey area [171a]. These could be parts of former enclosures, nevertheless due to extensive agricultural activity and lack of any coherent morphology these anomalies have been categorised as Possible Archaeology only.</p>	<p>scattered and discrete anomalies have been identified. It is difficult to differentiate those from geology, nevertheless an anthropological origin is not excluded.</p>	<p>of former ridge and furrow cultivation.</p>		<p>Direct physical permanent impact on any buried archaeological remains relating to scattered discrete anomalies, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
172	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area in two</p>	None	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				alignments. These anomalies are indicators of ploughing activity.		
173	None	None	None	Parallel anomalies running across the survey area in three different alignments are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
174	None	None	A weak, linear anomaly has been detected in the eastern part of the survey area. This anomaly does not exhibit any characteristic shape, signal or pattern and therefore has	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.	An anthropogenic origin for the linear anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. Sensitivity: Very Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			been categorised as 'Unclear'.			<p>remains relating to the linear anomaly.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
175	None	None	Two circular anomalies have been detected in the central part of the survey area. These anomalies do not exhibit any characteristic, signal or	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.	<p>An anthropogenic origin for the circular anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			pattern and therefore have been categorised as 'Unclear'.			<p>Direct physical permanent impact on any buried archaeological remains relating to the circular anomalies.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
176	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and	<p>Magnetic disturbance is visible at the edges of the survey area.</p> <p>A spread of isolated ferrous responses is</p>	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				furrow cultivation.	visible in the northern part of the survey area is caused by modern debris in the topsoil.	
177	None	None	Several linear and circular anomalies have been detected in the central part of the survey area. These anomalies do not exhibit any characteristic, signal or pattern and therefore have been categorised as 'Unclear'.	Several linear anomalies of positive enhancement have been identified in the centre of the survey area. These anomalies partially overlap with known historical mapped field boundaries. Parallel anomalies running across the survey area are indicative of former ridge and	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	<p>An anthropogenic origin for the linear and circular anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the linear and circular anomalies.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				furrow cultivation.		<p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>
178	None	None	None	None	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
179	None	In the eastern part of the survey area, a series of discrete linear, curvilinear and circular anomalies have been identified [179a].	A series of positive, linear, discrete and circular anomalies have been identified in the centre of Area 179. These do not have any distinctive shape or signal nevertheless	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Magnetic disturbance is visible at the edges of the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible enclosure system, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		These could reflect a possible enclosure system, however due to characteristic local geology a more confident classification is impossible.	due to their regular layout an archaeological origin cannot be ruled out completely.			<p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
180	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits. Magnetic disturbance is visible at the edges of the survey area	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
					and around a service.	
181	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	Discrete, linear and circular, positively enhanced anomalies have been identified across the survey area and reflect geological forms. Magnetic disturbance is visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
182	None	None	None	None	Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits. Magnetic disturbance is	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
					visible at the edges of the survey area and around a service.	
183	(not yet surveyed, ongoing landowner discussions required)					
184	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity	The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible at the edges of the survey area. Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
185	None	None	A series of positive, linear, discrete and circular anomalies	Parallel anomalies running west to east in the southern part	Magnetic disturbance is visible at the edges of the survey area.	An anthropogenic origin for the discrete and curvilinear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			<p>have been identified in the centre of Area 185. These do not have any distinctive shape or signal nevertheless due to their regular layout an archaeological origin cannot be ruled out completely.</p>	<p>of the survey area are indicative of former ridge and furrow cultivation.</p>		<p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to geophysical anomalies south of Marsh Lane, South Cockerington.</p> <p>Potential Magnitude: Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Low</p> <p>Residual Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
186	(not yet surveyed, ongoing landowner discussions required)					
187 (partially done)	None	None	None	Parallel anomalies running across the survey area are indicative of former ridge and furrow cultivation.	None	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
188	None	In the northern and southern part of the survey area, few ephemeral, positively enhanced anomalies have been identified [188a;188b]. These anomalies exhibit a morphology coherent with ditch-like features, and due to their regular	One circular anomaly has been detected in the central part of the survey area. This anomaly does not exhibit any characteristic, signal or pattern and therefore have been categorised as 'Unclear'.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area.	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to ditch like features, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
		layout have been categorised as Possible Archaeology.				<p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>
189	None	None	A curvilinear and a circular, positively enhanced anomaly have been detected in the central part of the survey area. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot be completely ruled out.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	The moderate levels of isolated ferrous responses are due to modern debris in the topsoil, visible across the survey area.	<p>An anthropogenic origin for the curvilinear and circular anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the curvilinear and linear anomalies.</p> <p>Potential Magnitude: Very Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
						<p>Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
190	None	None	<p>Two linear anomalies crossing the survey area on north-west to south-east alignment have been identified in the western part of the survey area. These anomalies likely relate to natural, agricultural or modern features or objects, but an archaeological origin cannot</p>	<p>Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation.</p> <p>Weak, linear anomalies have been identified running across of the survey area. These anomalies</p>	<p>Broad sinuous, positively enhanced anomalies have been identified across the survey area and reflect superficial deposits.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to geophysical the linear anomalies.</p> <p>Potential Magnitude: Very Low</p> <p>Potential Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
			be completely ruled out.	are indicators of ploughing activity.		<p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
191	None	None	None	Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation.	Broad sinuous, positively enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
192	None	None	None	Weak, linear anomalies have been identified running across of the survey area.	Magnetic disturbance is visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	Impact Assessment Update
				<p>These anomalies are indicators of ploughing activity. Linear, dipolar anomalies have been identified running across the southern part of the survey area and indicate a drainage activity.</p>		<p>for it as a result of the geophysical survey.</p>
<p>193</p>	<p>None</p>	<p>None</p>	<p>None</p>	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing</p>	<p>Broad sinuous, positively enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural activity.	Non-Archaeological	Impact Assessment Update

Table 5: Impact Assessment Update – Section 5

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
194	(not yet surveyed, ongoing landowner discussions required)					
195	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Broad sinuous, positively enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
196	(not yet surveyed, ongoing landowner discussions required)					
197	None	None	None	Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation.		No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
198	In the western part of the survey area a very regular arrangement of strong and weak positive, rectilinear, linear and circular anomalies has been identified [198a]. These anomalies could suggest part of a potential settlement. Unfortunately, any further interpretation is limited due to the survey limits. The cluster most likely continues beyond the survey limits.	None	Two amorphous positive anomalies have been detected in the centre of the survey area. The origin of these is unclear. These could be of geological or agricultural origin, nevertheless archaeological background cannot be excluded given archaeological activity in the closest vicinity.	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity. A dipolar linear anomaly has been detected in the eastern part of the survey area. It correlates with former mapped field boundary visible on historic mapping.	None	<p>Sensitivity: Medium</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to possible settlement activity, due to construction of the pipeline.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Moderate adverse</p> <p>Mitigation: Archaeological investigation prior to or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Moderate adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				<p>Its magnetic signal suggests that it is possible that this field boundary was reused as a drain.</p>		
<p>199</p>	<p>None</p>	<p>None</p>	<p>A few linear trends of unknown origin have been identified in the eastern part of the survey area. These could be of agricultural origin; nevertheless archaeological background cannot be fully excluded.</p>	<p>Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation.</p> <p>A dipolar linear anomaly has been identified in the centre of the survey</p>	<p>None</p>	<p>An anthropogenic origin for the linear trends cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the linear trends.</p> <p>Potential Magnitude: Very Low</p> <p>Potential Significance: Negligible adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				<p>area. Its signal suggests a ceramic drain.</p> <p>In the centre of the survey area, a linear positive trend has been detected. It corresponds with a field boundary visible on historic mapping.</p>		<p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
200	None	None	A few linear and amorphous anomalies of unknown origin have been identified in the western part of the survey area. These could be of	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact:</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			agricultural origin; nevertheless, archaeological background cannot be fully excluded.	ploughing activity. A dipolar linear anomaly has been detected in the eastern part of the survey area. It corelates with former mapped field boundary visible on historic mapping. Its magnetic signal suggests that it is possible that this field boundary was reused as a drain.	area.	<p>Direct physical permanent impact on any buried archaeological remains relating to geophysical anomalies east of Grimoldby.</p> <p>Potential Magnitude: Very Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
201	None	None	None	Linear, dipolar	Broad sinuous, positively	No anomalies of archaeological, potentially archaeological or unclear

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				<p>anomalies have been identified running across the survey area and indicate a drainage activity.</p>	<p>enhanced anomalies have been identified in the southern part of the survey area and reflect superficial deposits. Magnetic disturbance is visible at the edges of the survey area.</p>	<p>origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>
202	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
203	(not yet surveyed, ongoing landowner discussions required)					
204	(not yet surveyed, ongoing landowner discussions required)					
205	None	None	None	Parallel anomalies running southwest to northeast and across the area are indicative of former ridge and furrow cultivation. The linear trend aligned NW-SE corresponds with a former field boundary.	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
206	None	None	None	None	A band of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					<p>across the survey area.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	
207	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>
208	None	None	None	<p>Weak, linear anomalies have</p>	<p>Bands of strong dipolar and positive anomalies indicative of</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				been identified running across of the survey area. These anomalies are indicators of ploughing activity.	natural intertidal and alluvial deposits have been identified across the survey area. Magnetic disturbance is visible at the edges of the survey area.	it as a result of the geophysical survey.
209	None	None	None	Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.	Magnetic disturbance is visible at the edges of the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
210	None	None	None	Weak, linear anomalies have	Bands of strong dipolar and positive anomalies	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
				<p>been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>indicative of natural intertidal and alluvial deposits have been identified in the southern part of the survey area.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>archaeological impact assessed for it as a result of the geophysical survey.</p>
211	None	None	None	<p>Weak, linear anomalies have been identified running across of the survey area. These anomalies are indicators of ploughing activity.</p>	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified in the southern part of the survey area.</p> <p>Magnetic disturbance is visible at the</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					edges of the survey area.	
212	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
213	(surveyed as 212)					
214	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. Dipolar anomalies spread is visible	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					across the survey area and indicates the presence of green waste.	
215	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
216	None	None	None	None	Bands of strong dipolar and positive anomalies	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					<p>indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>	<p>archaeological impact assessed for it as a result of the geophysical survey.</p>
217	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					spread is visible across the survey area and indicates the presence of green waste.	
218	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
219	None	None	In the central part of the survey area, a rectilinear cluster of	None	Bands of strong dipolar and positive anomalies indicative of	An anthropogenic origin for the rectilinear anomalies cannot be ruled out. Using the precautionary

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			<p>numerous anomalies has been detected [219a]. Its regularity suggests an anthropological origin, nevertheless due to a strong geological background, as well as the presence of magnetic noise in the topsoil caused by green waste any further interpretation is limited.</p>		<p>natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Dipolar anomalies spread is visible across the survey area and indicates the presence of green waste.</p>	<p>principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to rectilinear anomalies.</p> <p>Potential Magnitude: Very Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
220	(not yet surveyed, ongoing landowner discussions required)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
221	(not yet surveyed, ongoing landowner discussions required)					
222	None	None	Few discrete, curvilinear and linear anomalies have been detected in the northern part of the survey area. These anomalies are most likely being of natural origin; nevertheless, their morphology could suggest anthropological connotations. The strong geological background limits possibilities of this interpretation and therefore an 'Unclear' category has been ascribed.	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to curvilinear and linear anomalies.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
223	None	A series of linear and curvilinear, positive anomalies have been identified in the south-western corner of the survey area. Due to extensive geology, it is uncertain if these anomalies could be of anthropological origin, nevertheless given their morphology it is the 'Possible Archaeology' category that has been ascribed. The presence of toft earthworks and cropmarks of probable Medieval chronology		None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	<p>Sensitivity: Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to former toft earthworks, cropmarks and geophysical anomalies at Theddlethorpe All Saints.</p> <p>Potential Magnitude: Medium</p> <p>Potential Significance: Minor adverse</p> <p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Medium</p> <p>Residual Significance: Minor adverse</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
		have been recognized within the survey area, which also advocates for possible archaeological connotations (MLI88214).				
224	(not yet surveyed, ongoing landowner discussions required)					
225	(not yet surveyed, ongoing landowner discussions required)					
226	(not yet surveyed, ongoing landowner discussions required)					
227	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
228	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					and alluvial deposits have been identified across the survey area.	it as a result of the geophysical survey.
229	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. A potential service is running across the survey area in the N-S alignment.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
230	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					deposits have been identified across the survey area.	
231	None	None	Two parallel, strong, positive, linear anomalies have been identified in the central part of the survey area. These could be of agricultural origin; nevertheless, the archaeological background could not be fully excluded as their context is limited and therefore these have been categorised as 'Unclear'.	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the linear anomalies.</p> <p>Potential Magnitude: Very Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
						<p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
232	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.
233	None	None	None	None	Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.	No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					Magnetic disturbance is visible at the edges of the survey area.	
234	None	None	A singular circular dipolar anomaly has been detected in the eastern part of the survey area. This anomaly could indicate a burning activity, but its origin is unclear.	None	In the central part of the survey area, a linear strong magnetic anomaly has been recorded. This anomaly correlates with a former railway track visible on historic mapping. Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified	An anthropogenic origin for the circular dipolar anomaly cannot be ruled out. Using the precautionary principle, they are assessed as archaeological. Sensitivity: Very Low Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the circular anomaly. Potential Magnitude: Very Low Potential Significance: Negligible adverse Mitigation:

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					across the survey area.	<p>Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
235	None	None	None	None	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area. In the central part of the survey area, a linear strong magnetic anomaly has been recorded. This anomaly correlates with a foot path</p>	<p>No anomalies of archaeological, potentially archaeological or unclear origin have been identified in this field therefore there is no archaeological impact assessed for it as a result of the geophysical survey.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
					<p>track visible on historic mapping. The magnetic signal suggest that a service is running beneath the ground.</p> <p>Magnetic disturbance is visible at the edges of the survey area.</p>	
236	(not yet surveyed, ongoing landowner discussions required)					
237	None	None	<p>Three linear positively enhanced anomalies have been recorded in the western corner of the survey area. These could be of agricultural or geological origin,</p>	<p>Few parallel anomalies running southwest to northeast are indicative of former ridge and furrow cultivation.</p> <p>Two linear trends aligned NE-</p>	<p>Bands of strong dipolar and positive anomalies indicative of natural intertidal and alluvial deposits have been identified across the survey area.</p>	<p>An anthropogenic origin for the linear anomalies cannot be ruled out. Using the precautionary principle, they are assessed as archaeological.</p> <p>Sensitivity: Very Low</p> <p>Description of Potential Impact: Direct physical permanent impact on any buried archaeological remains relating to the linear anomalies.</p>

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
			nevertheless their archaeological background cannot be fully excluded.	SW and one NW-SE correspond with former mapped field boundaries. Linear, strong positive anomalies have been identified running across the southern part of the survey area and indicate a drainage activity.		<p>Potential Magnitude: Very Low</p> <p>Potential Significance: Negligible adverse</p> <p>Mitigation: Archaeological investigation and recording prior to and/or during construction.</p> <p>Residual Magnitude: Very Low</p> <p>Residual Significance: Negligible adverse</p>
238	(not yet surveyed, ongoing landowner discussions required)					
239	(not yet surveyed, ongoing landowner discussions required)					
240	(not yet surveyed, ongoing landowner discussions required)					
241	(not yet surveyed, ongoing landowner discussions required)					
242	(not yet surveyed, ongoing landowner discussions required)					
243	(not yet surveyed, ongoing landowner discussions required)					

Field No	Definite/Probable Archaeology	Possible Archaeology	Unclear	Agricultural	Non-Archaeological	
244	(not yet surveyed, ongoing landowner discussions required)					
245	(not yet surveyed, ongoing landowner discussions required)					
246	(not yet surveyed, ongoing landowner discussions required)					
247	(not yet surveyed, ongoing landowner discussions required)					
248	(not yet surveyed, ongoing landowner discussions required)					

Appendix D Comparison of residual effects

- D.1.1 The following table presents a comparison of the residual effects from direct physical impacts presented in the Environmental Statement and the updated residual effects after taking into consideration the results of the geophysical survey as detailed in Table 1 to 5 above. Where archaeological sites are clearly identifiable in the geophysical survey and are spread across multiple field survey area numbers, these are combined into one ‘site’ to avoid double counting of effects. For example, archaeological anomalies identified in fields 23 and 24 and possible archaeological anomalies in fields 25 and 26 are combined into a single entry in the table below. Figure 1 presents the interpretation of results of the geophysical survey alongside the heritage assets with the ES (included within Appendix A).
- D.1.2 Where residual effects identified in the ES have been revised as a result of the findings of the geophysical survey assessment (presented in Table 6), the higher residual effect is considered to take precedence as that reported. Where an additional significant effect has been identified, this is highlighted in blue.

Table 6: Comparison of ES residual effect with geophysical survey residual effect by field

ES asset number	ES Residual Effect	Geophysical survey field(s) areas	Geophysical survey assessment Residual Effect	Final reported residual effect
APS_50	None	11	Moderate adverse	Moderate adverse
022,030, 628, APS_47, APS_48	Minor adverse	22	Moderate adverse	Moderate adverse
022,030, APS_47	Minor adverse	23, 24, 25 and 26	Moderate adverse	Moderate adverse
030, 061, APS_47	Minor adverse	27, 28	None	Minor adverse
APS_46, APS_47	None	29	Minor adverse	Minor adverse
APS_47	None	30	Minor adverse	Minor adverse
None	None	31	Minor adverse	Minor adverse
030	Minor adverse	32 and 33	Moderate adverse	Moderate adverse
APS_42	None	34	None	None
125, APS_44	Moderate adverse	37 and 38	Moderate adverse	Moderate adverse
APS_44	None	39 and 40	Minor adverse	Minor adverse
198	Negligible adverse	41	Negligible adverse	Negligible adverse
APS_43	None	42,43 and 44	None	None
124, 105 and 194, APS_41	Moderate adverse	45 and 46	Moderate adverse	Moderate adverse

ES asset number	ES Residual Effect	Geophysical survey field(s) areas	Geophysical survey assessment Residual Effect	Final reported residual effect
APS_41	None	47, 48 and 49	None	None
APS_40	Negligible adverse	50	Negligible adverse	Negligible adverse
None	None	51	None	None
APS_39	None	52	Negligible adverse	Negligible adverse
APS_36, APS_39	None	53	Negligible adverse	Negligible adverse
APS_36, ASP_38	None	54	Negligible adverse	Negligible adverse
APS_36, APS_37, APS_38	Negligible adverse	55	Negligible adverse	Negligible adverse
APS_37	Negligible adverse	56	Negligible adverse	Negligible adverse
APS_36, APS_37	Negligible adverse	57	Minor adverse	Minor adverse
APS_36	None	58	Negligible adverse	Negligible adverse
197 and 123, APS_34, APS_36	Minor adverse	59, 60, 61 and 63	None	None
139-142, 187, APS_36	Negligible adverse	64	Minor adverse	Minor adverse
APS_36	None	65	None	None
APS_36	None	66	Negligible adverse	Negligible adverse
APS_36	None	67	Negligible adverse	Negligible adverse
APS_36	None	68	Negligible adverse	Negligible adverse
APS_36	None	69	Negligible adverse	Negligible adverse
APS_36	None	70	Moderate adverse	Moderate adverse
None	None	71	Negligible adverse	Negligible adverse
APS_32	None	72	Negligible adverse	Negligible adverse
104, APS_32	Negligible adverse	73	Moderate adverse	Moderate adverse
APS_32	None	74	None	None
248, APS_32	Negligible adverse	75	Negligible adverse	Negligible adverse
APS_32	None	76	None	None
APS_31	Negligible adverse	77	Negligible adverse	Negligible adverse
APS_31	Negligible adverse	78	None	Negligible adverse

ES asset number	ES Residual Effect	Geophysical survey field(s) areas	Geophysical survey assessment Residual Effect	Final reported residual effect
None	None	79	Negligible adverse	Negligible adverse
APS_30	None	80	Negligible adverse	Negligible adverse
251, APS_30	Negligible adverse	81	None	Negligible adverse
251, APS_30	Negligible adverse	82	None	Negligible adverse
APS_29	Negligible adverse	86	Negligible adverse	Negligible adverse
248	Negligible adverse	88	None	Negligible adverse
250, APS28	Negligible adverse	89	Negligible adverse	Negligible adverse
250, APS_28	Negligible adverse	90	Negligible adverse	Negligible adverse
250, APS_28	Negligible adverse	91	None	Negligible adverse
250, APS_28	Negligible adverse	92	Negligible adverse	Negligible adverse
APS_28	None	93	Negligible adverse	Negligible adverse
250	Negligible adverse	95	Negligible adverse	Negligible adverse
250, APS_27	Negligible adverse	97	Negligible adverse	Negligible adverse
250, APS_27	Negligible adverse	98	Negligible adverse	Negligible adverse
APS_26	None	100/101	Negligible adverse	Negligible adverse
APS_24, APS_25	Negligible adverse	102 and 103	Moderate adverse	Moderate adverse
APS_24	None	104	None	None
250, APS_24	Negligible adverse	105	Negligible adverse	Negligible adverse
APS_23	None	108	Negligible adverse	Negligible adverse
250, APS_23	Negligible adverse	109	Moderate adverse	Moderate adverse
APS_23	None	110	Negligible adverse	Negligible adverse
APS_23	None	111	Negligible adverse	Negligible adverse
244, APS_23	Negligible adverse	112	Negligible Adverse	Negligible adverse
APS_23	None	113	Negligible adverse	Negligible adverse
APS_23	None	114	Negligible adverse	Negligible adverse

ES asset number	ES Residual Effect	Geophysical survey field(s) areas	Geophysical survey assessment Residual Effect	Final reported residual effect
APS_22	None	115	Minor adverse	Minor adverse
APS_22	None	116	Negligible adverse	Negligible adverse
APS_22	None	117	Negligible adverse	Negligible adverse
APS_22	None	118	Negligible adverse	Negligible adverse
APS_22	None	119	Negligible adverse	Negligible adverse
None	None	121	Negligible adverse	Negligible adverse
None	None	122	Negligible adverse	Negligible adverse
APS_22	None	123	Negligible adverse	Negligible adverse
APS_22	None	124	Negligible adverse	Negligible adverse
APS_18, APS_20	Negligible adverse	127, 128 and 130	Moderate adverse	Moderate adverse
APS_18	Negligible adverse	131	Negligible adverse	Negligible adverse
APS_18, APS_19	Minor adverse	132	Negligible adverse	Minor adverse
APS_17	Minor adverse	135	Minor adverse	Minor adverse
APS_17	Minor adverse	136	None	Minor adverse
None	None	137	None	None
None	None	138	None	None
None	None	139	None	None
None	None	140/141	Negligible adverse	Negligible adverse
None	None	142	Minor adverse	Minor adverse
APS_16	None	143	Negligible adverse	Negligible adverse
APS_16	None	144	Negligible adverse	Negligible adverse
APS_16	None	145	None	None
APS_15	Negligible adverse	149	Negligible adverse	Negligible adverse
APS_15	Negligible adverse	150	Minor adverse	Minor adverse
APS_15	Negligible adverse	151	Minor adverse	Minor adverse
APS_15	Negligible adverse	152	None	Negligible adverse
APS_15	Negligible adverse	153/154	None	Negligible adverse
APS_15	Negligible adverse	155	None	Negligible adverse

ES asset number	ES Residual Effect	Geophysical survey field(s) areas	Geophysical survey assessment Residual Effect	Final reported residual effect
APS_15	Negligible adverse	156	None	Negligible adverse
APS_14	Negligible adverse	157	None	Negligible adverse
APS_14	Negligible adverse	158	None	Negligible adverse
APS_14	Negligible adverse	161	Minor adverse	Minor adverse
APS_12	Negligible adverse	162 part	None	Negligible adverse
APS_12	Negligible adverse	165	None	Negligible adverse
APS_12, APS_13	Negligible adverse	166	None	Negligible adverse
APS_09	Negligible adverse	171	Minor adverse	Minor adverse
APS_09	Negligible adverse	172	None	Negligible adverse
APS_09	Negligible adverse	173	None	Negligible adverse
APS_09	Negligible adverse	174	Negligible adverse	Negligible adverse
APS_09	Negligible adverse	175	Negligible	Negligible adverse
APS_09	Negligible adverse	176	None	Negligible adverse
APS_08	Minor adverse	177	Negligible	Minor adverse
APS_08	Minor adverse	178	None	Minor adverse
APS_08	Minor adverse	179	Minor adverse	Minor adverse
APS_08	Minor adverse	180	None	Minor adverse
APS_08	Minor adverse	181	None	Minor adverse
APS_08	Minor adverse	182	None	Minor adverse
APS_08	Minor adverse	184	None	Minor adverse
APS_08	Minor adverse	185	Negligible adverse	Minor adverse

ES asset number	ES Residual Effect	Geophysical survey field(s) areas	Geophysical survey assessment Residual Effect	Final reported residual effect
APS_08	Minor adverse	187	None	Minor adverse
APS_08	Minor adverse	188	Minor adverse	Minor adverse
APS_08	Minor adverse	189	Negligible adverse	Minor adverse
APS_08	Minor adverse	190	Negligible adverse	Minor adverse
APS_08	Minor adverse	191	None	Minor adverse
APS_08	Minor adverse	192	None	Minor adverse
APS_08	Minor adverse	193	None	Minor adverse
APS_08	Minor adverse	195	None	Minor adverse
APS_08	Minor adverse	197	None	Minor adverse
APS_08	Minor adverse	198	Moderate adverse	Minor adverse
APS_08	Minor adverse	199	Negligible adverse	Minor adverse
APS_08	Minor adverse	200	Negligible adverse	Minor adverse
APS_08	Minor adverse	201	None	Minor adverse
None	None	202	None	None
APS_04	None	205	None	None
APS_02, APS_04	Minor adverse	206	None	Minor adverse
APS_02	Minor adverse	207	None	Minor adverse
None	None	208	None	None
None	None	209	None	None
None	None	210	None	None
None	None	211	None	None
APS_01	None	212/213	None	None
APS_01	None	214	None	None
APS_01	None	215	None	None
APS_01	None	216	None	None

ES asset number	ES Residual Effect	Geophysical survey field(s) areas	Geophysical survey assessment Residual Effect	Final reported residual effect
APS_01	None	217	None	None
None	None	218	None	None
None	None	219	Negligible adverse	Negligible adverse
APS_06	Minor adverse	222	Minor adverse	Minor adverse
APS_06	Minor adverse	223	Minor adverse	Minor adverse
APS_06	Minor adverse	227	None	Minor adverse
APS_06	Minor adverse	228	None	Minor adverse
APS_06	Minor adverse	229	None	Minor adverse
APS_06	Minor adverse	230	None	Minor adverse
APS_06	Minor adverse	231	Negligible adverse	Minor adverse
APS_06	Minor adverse	232	None	Minor adverse
APS_06	Minor adverse	233	None	Minor adverse
APS_06	Minor adverse	234	Negligible adverse	Minor adverse
APS_06	Minor adverse	235	None	Minor adverse
APS_05	Minor adverse	237	Negligible adverse	Minor adverse