



Graftongate Investments Ltd

EMEB SPORTS & SOCIAL CLUB, NUTTS LANE, HINCKLEY

Geophysical Survey Report

Local Planning Authority: Hinckley & Bosworth Borough Council

Planning Reference: 25/01192/FUL

Internal Project Reference: 2531

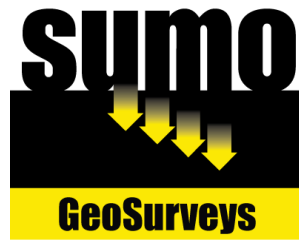
Date: 17th March 2026





Project Details

Project Name	EMEB SPORTS & SOCIAL CLUB, NUTTS LANE, HINCKLEY
Scope of Report	Geophysical Survey Report
Client	Graftongate Investments Ltd
Local Planning Authority	Hinckley & Bosworth Borough Council
Planning Reference	25/01192/FUL
Planning Condition Number	N/A
Internal Project Reference	2531
Oasis ID	Sumogeop1-540717
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Issue Date	17th March 2026
Version Number & Status	#1 Draft for Comment



GEOPHYSICAL SURVEY REPORT

E M E B Sports Social Club, Nutts Lane, Hinckley

Client

HEA

Survey Report

26747

OASIS Ref. No.

Sumogeop1-540717

Date

17 March 2026



Survey Report 26747: E M E B Sports Social Club, Nutts Lane, Hinckley

Survey dates	6 March 2026
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Report date	17 March 2026
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The geophysical interpretation drawings must be used in conjunction with the relevant results section and appendices of this report.

1 EXECUTIVE SUMMARY

- 1.1** SUMO GeoSurveys was commissioned to undertake a geophysical survey of an area outlined for development. This survey forms part of an archaeological investigation being undertaken by HEA.
- 1.2** The magnetometry survey at E M E B Sports Social Club in Hinckley has not identified any anomalies of archaeological interest. Linear responses interpreted as drainage features associated with the sports ground have been detected across the survey area and dominate the results; some could be associated with service pipes or cables and an old boundary which ran through the site. Areas of magnetic disturbance have been highlighted, caused by modern landscaping and consolidation, associated with the removal of a pavilion and a former tennis court.

2 PROJECT BACKGROUND

2.1 Site details

NGR / Postcode	SP 41059 92696 / LE10 0NT
Location	The site is located on the southwestern outskirts of Hinckley, Leicestershire. The site lies just north of the A6 (Watling Street) with Nutts Lane forming the northern and western boundaries, and Hammonds Way marking the southern limits. The eastern edge is bounded by an industrial park.
HER	Leicestershire and Rutland HER
OASIS Ref. No.	Sumogeop1-540717
District	Hinckley and Bosworth District
Topography	Flat
Land use	Recreation
Geology	Bedrock: Mercia Mudstone Group-Mudstone
(BGS 2026)	Superficial: Alluvium-Clay, silt, sand and gravel
Soils	Soilscape 18: Slowly permeable seasonally wet slightly acid but
(CU 2026)	base-rich loamy and clayey soils
Survey method(s)	Magnetometer survey (fluxgate gradiometer)
Site area	1.5 ha

2.2 Archaeological context

- 2.2.1** An archaeological desk-based assessment was not available at the time of writing this report, so the Leicestershire and Rutland HER (HG 2026), along with historic mapping has been consulted to inform this archaeological background.
- 2.2.2** Approximately 300 metres southeast of the survey area, six polished Neolithic stone axes were found in the vicinity of the Lime Kilns Inn (MLE7236). Trial trenching in 2010 uncovered a possible Bronze or Iron Age cremation which found 18 pottery sherds within one vessel along with burnt bone, 300 metres to the east of the site (MLE 18289). 600 metres to the northwest, archaeological work in 1999 and 2001 recorded an Iron Age enclosure containing three round houses, with another four houses unenclosed, together with 217 Iron Age pottery sherds (MLE8919). During the excavations on this site in 2001, an irregular enclosure was recorded overlaying the Iron Age enclosure, where a small amount of Roman pottery was recovered (MLE8920). Just to the northwest of these enclosures, 600 metres from the survey area, a rectangular enclosure was found containing a series of smaller enclosures, some of which contained features which housed 2nd and 3rd century Roman pottery. Post medieval/modern

finds of pottery, clay pipe and iron working slag were found during fieldwalking and subsequent trial trenching in 2009 and 2010, 300 m east of the survey area (MLE18291).

- 2.2.3 The HER records two WWII pill boxes, approximately 300 m (MLE8918) and 600 m (MLE17966) northwest of the site.

2.3 Aims and objectives

- 2.3.1 To locate and characterise any anomalies of possible archaeological interest within the study area.

3 SURVEY METHODOLOGY AND DATA PROCESSING

A magnetic survey was employed as the most effective method of locating the type of archaeological anomalies which might be expected at this site.

The survey fieldwork and this report follow the general guidance set out by ClfA (2020) and the European Archaeology Council (EAC) (2016).

3.1 Instrumentation

- 3.1.1 The magnetic survey was undertaken using the following equipment configuration:

Sensors	Equipment configuration	Traverse interval (m)	Sample interval (m)
4 No. Bartington Grad 601	Cart-based system Hand pushed Data is georeferenced by RTK GNSS	1.0	0.25

3.2 Survey methodology

- 3.2.1 The cart-based system can be towed by an all-terrain vehicle (ATV) or pushed by hand, depending on the ground conditions, accessibility and size of fields. The hand-pushed system was used in this instance.
- 3.2.2 The cart is fitted with a GNSS guidance system which is used to align the survey profiles and direct the operator.
- 3.2.3 The survey profiles are usually offset from field boundaries, buildings and other metallic features by several metres to reduce the detrimental effect that these surface magnetic features have on the data. Gaps were also left adjacent to boundaries and surface obstructions to allow the ATV and cart-based system sufficient space to safely pass and turn.
- 3.2.4 The location of the cart-based survey data is converted direct to Ordnance Survey National Grid co-ordinates, using the UK OSTN15 transformation.

3.3 Data processing and display

- 3.3.1 The only processes performed on data are the following unless specifically stated otherwise:

Zero Mean Traverse: This process sets the background mean of each traverse within each grid to zero. The operation removes instrument striping effects and edge discontinuities over the whole of the data set.

- 3.3.2 The data was stored direct to a laptop using ML-GRAD software. Processing is carried out using Anomaly GeoSurveys which automatically corrects for instrument drift and calculates a

mean value for each profile. A positional value is assigned to each data point based on the sensor number and recorded GNSS co-ordinates. The data is gridded, and parameters are set based on the sensor spacing and mean values. No additional processing is required.

- 3.3.3 *Greyscale* raster images (PNG files) are displayed at a range of -1 nT to 2nT, which is 'standard' for archaeological surveys.
- 3.3.4 X-Y trace plots are examined for all the data and overlain onto the greyscale plot to assist in the interpretation, primarily to help identify dipolar / bipolar responses (that will probably be associated with surface / near-surface iron objects) and thermoremanent material. When not displayed in the report, a digital drawing showing the X-Y trace plot is provided in the Archive.
- 3.3.5 A detailed discussion of data processing, display and the general categories of anomaly which have been identified by the survey is provided in the Appendices.

4 RESULTS

4.1 *Probable / Possible Archaeology*

No magnetic responses have been detected which could be interpreted as being of archaeological interest, but areas of magnetic disturbance and modern ferrous response would mask responses of potential archaeological interest if they were present.

4.2 *Ferrous / magnetic disturbance*

- 4.2.1 Given the field's use in the recent past as sports pitches, many of the strong linear dipolar responses running north-south across the survey area are likely to be the result of drainage features. However, their variable strength may indicate other causes such as pipes or cables due to the survey areas proximity to many industrial complexes, including a power substation which resides directly across the road to the south. Old maps also show a former field boundary running through the centre of the site on a north-south alignment.
- 4.2.2 The strongest magnetic disturbance has been recorded in the south of the survey areas and coincides with a former tennis court and sports pavilion which previously occupied part of the space (see OS map: Figure 04).
- 4.2.3 The survey data are further magnetically disturbed by a variety of other factors, such as modern debris, adjacent car parks and industrial buildings, plus ferrous fencing which surrounds the northern, southern and western edges of the site; street lamps are also present.
- 4.2.4 Only the most prominent of these are isolated responses and areas of magnetic disturbance are highlighted on the interpretation diagram.

5 DATA APPRAISAL AND CONFIDENCE ASSESSMENT

- 5.1 The results from this survey are dominated by modern disturbance and this will have masked weaker responses of potential interest.
- 5.2 It should be noted that a geophysical survey does not directly locate sub-surface features - it identifies variations or anomalies in the background response caused by features. The interpretation of geophysical anomalies is often subjective, and it is rarely possible to identify the cause of all such anomalies. Not all features will produce a measurable anomaly, and the effectiveness of a geophysical survey is also dependant on the site-specific conditions. The main factors that may limit whether a feature can be detected are the composition of a feature,

its depth and size and the surrounding material. It is not possible to guarantee that a geophysical survey will identify all sub-surface features.

6 CONCLUSION

- 6.1** The magnetometer survey has not recorded any magnetic responses that could be interpreted as being of archaeological interest. Linear responses interpreted as being drainage features associated with the former sports field, plus possible service pipes and cables, have been detected across the survey area. Extensive areas of magnetic disturbance have been highlighted, caused by modern landscaping and consolidation, partly resulting from the demolition of a former sports pavilion and tennis court.

7 BIBLIOGRAPHY AND REFERENCES

- | | |
|-----------|---|
| BGS 2026 | <i>Geology of Britain Viewer</i> ; British Geological Survey. Website:
http://www.bgs.ac.uk/opengeoscience/home.html?Accordion1=1#maps |
| ClfA 2020 | <i>Standard and guidance for archaeological geophysical survey</i> ; ClfA guidance note 2014 (amended 2020). Chartered Institute for Archaeologists, Reading
https://www.archaeologists.net/sites/default/files/2023-11/ClfA-SandG-Geophysical-Survey-2020.pdf |
| CU 2025 | <i>Soilscapes Viewer</i> ; LandIS: The Land Information System. Soil data for England and Wales. Website: https://www.landis.org.uk/soilscapes/ |
| EAC 2016 | <i>EAC Guidelines for the Use of Geophysics in Archaeology</i> ; European Archaeological Council, Guidelines 2. |
| HG 2026 | <i>Heritage Gateway</i> ; Historic England, ALGAO and IHBC. Website:
https://www.heritagegateway.org.uk/gateway/ |

8 ARCHIVE

- 8.1** The minimally processed data, data images, X-Y traces and a copy of this report are stored in SUMO GeoSurveys' digital archive, on an internal RAID configured NAS drive in the Eckington Office. These data are also backed up to the Cloud for off-site storage.
- 8.2** The Grey Literature will be archived with OASIS and the relevant HER within a period of 12 months.

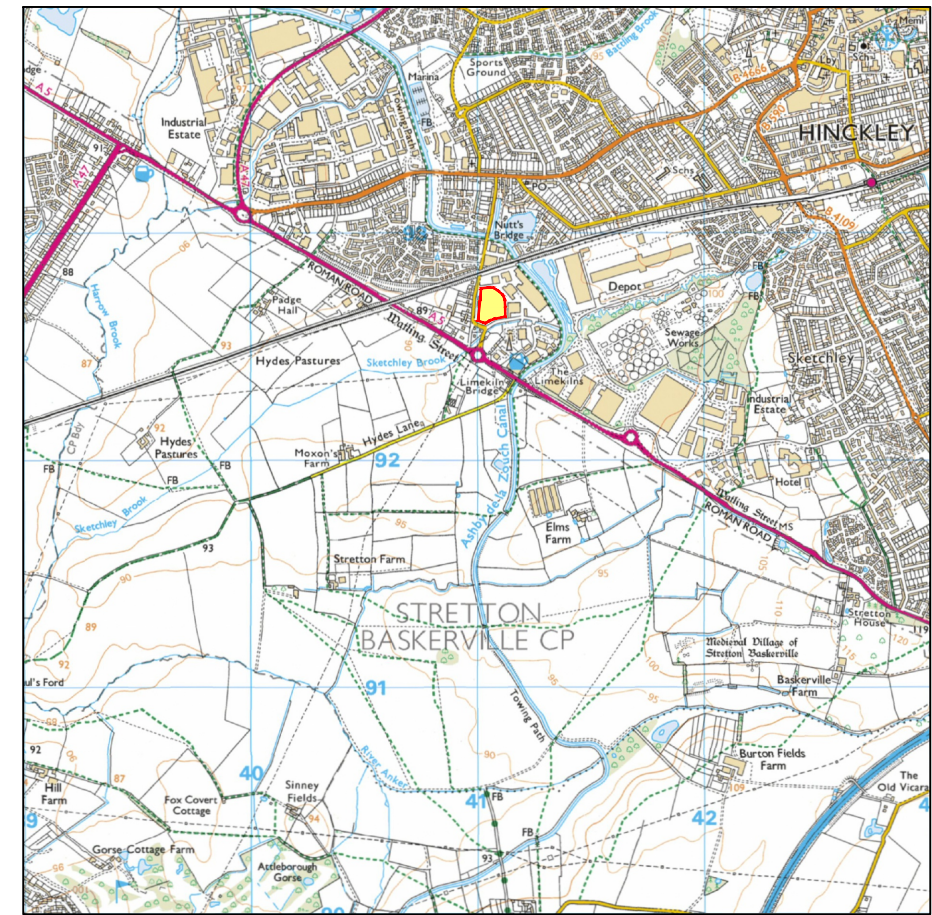
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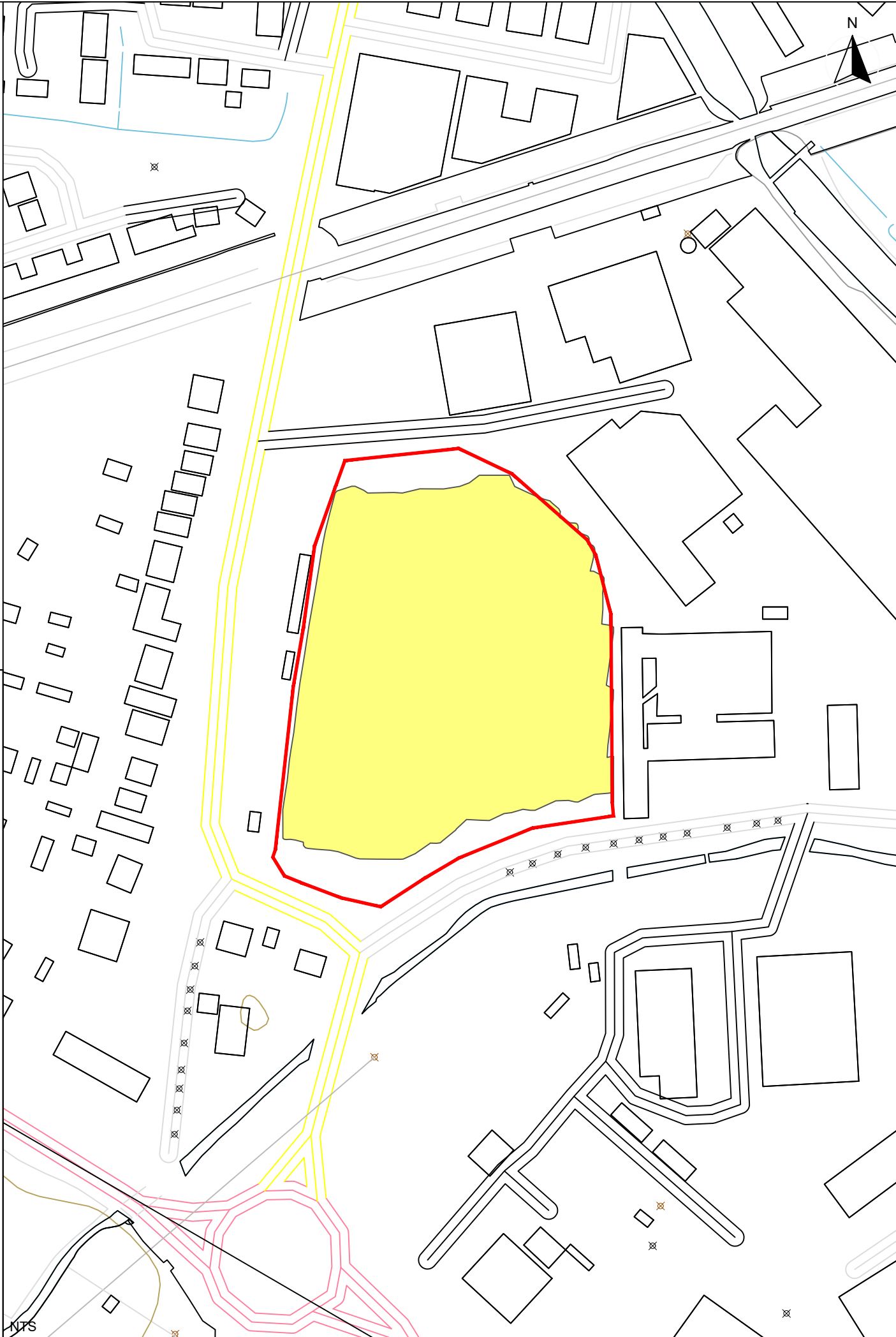
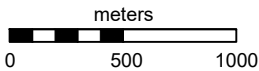
Site

NTS



SP

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KEY

- Site boundary
- Survey area

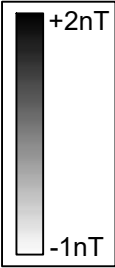


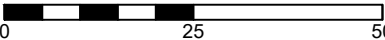
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Client:		HEA
Project:		EMEB Sports Social Club, Nutts Lane, Hinckley
Scale:	AS SHOWN	Fig No: 01

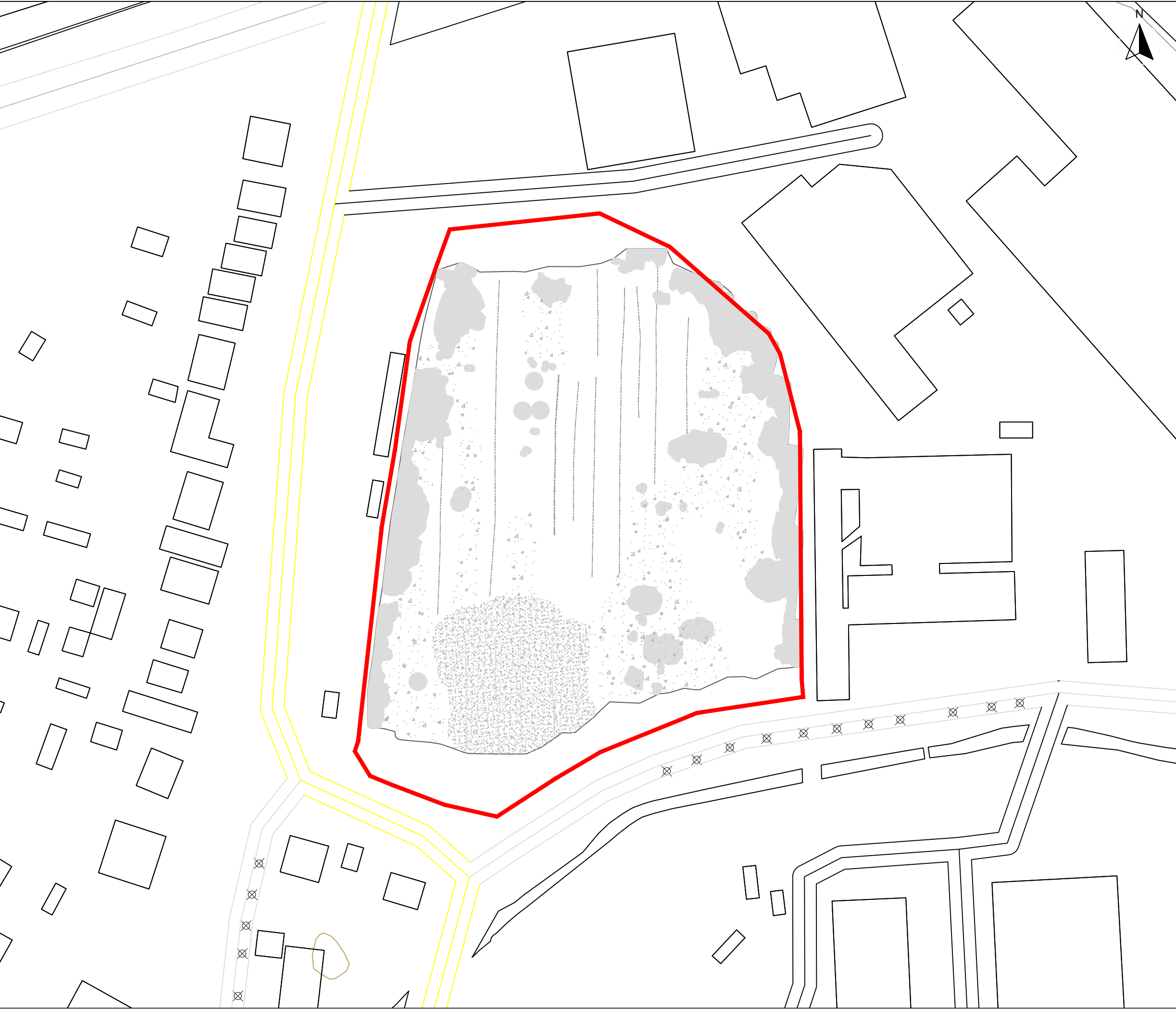


NOTES

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Title: Magnetic Gradient Data - Greyscale Plot	
Client: HEA	
Project: EMEB Sports Social Club, Nutts Lane, Hinckley	
Scale: 1:1000@A3 	Fig No: 02



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KEY	
	Agriculture (land drain)
	Magnetic disturbance - usually related to a spread / concentration of modern material
	Ferrous material



Title:
Magnetic Gradient Data - Interpretation

Client:
HEA

Project:
EMEB Sports Social Club, Nutts Lane, Hinckley

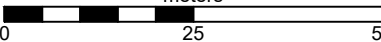
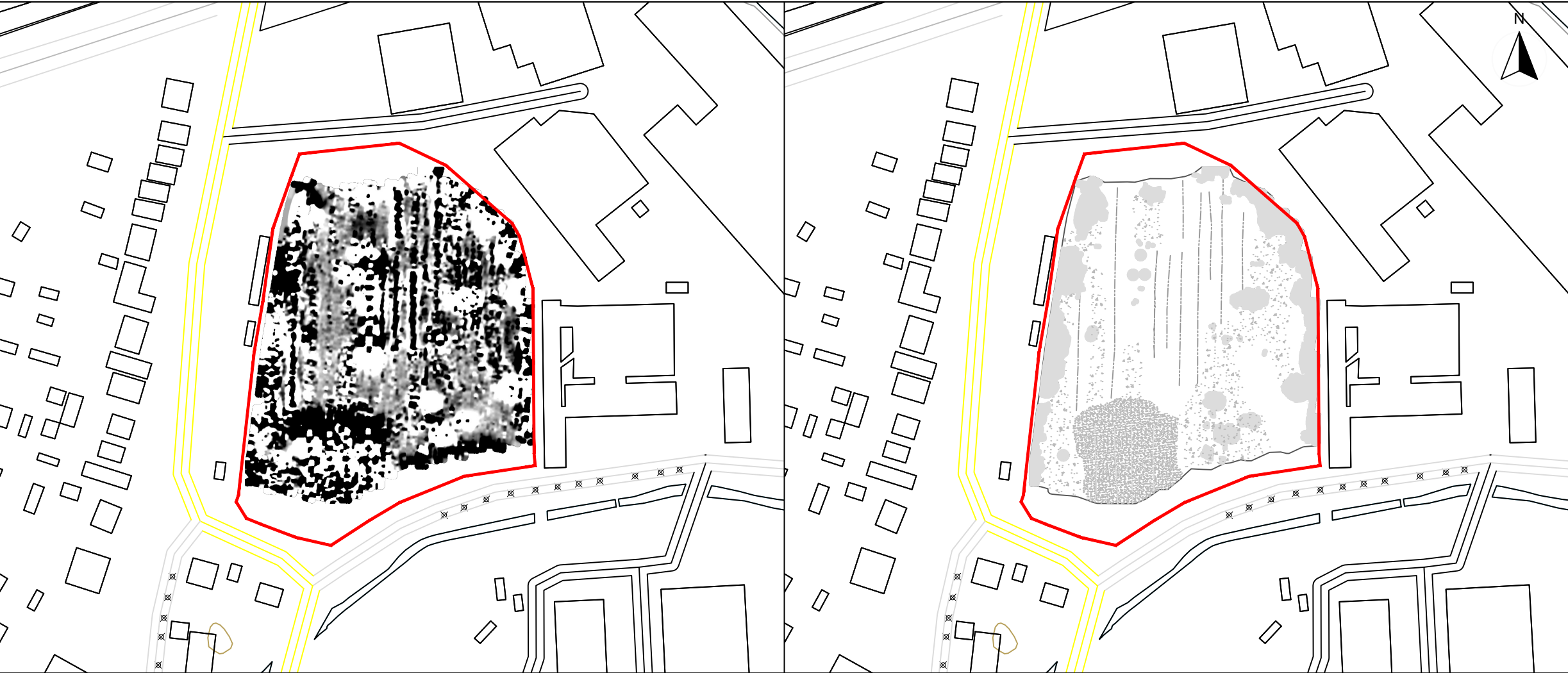
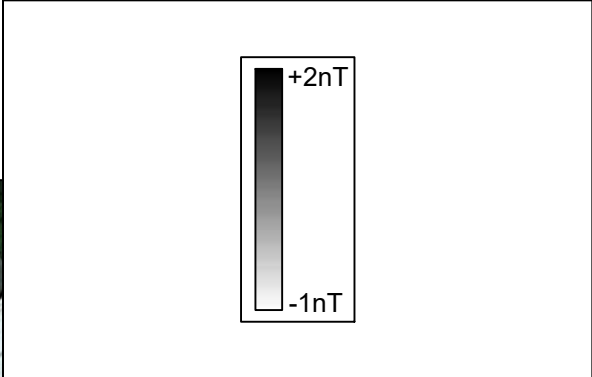
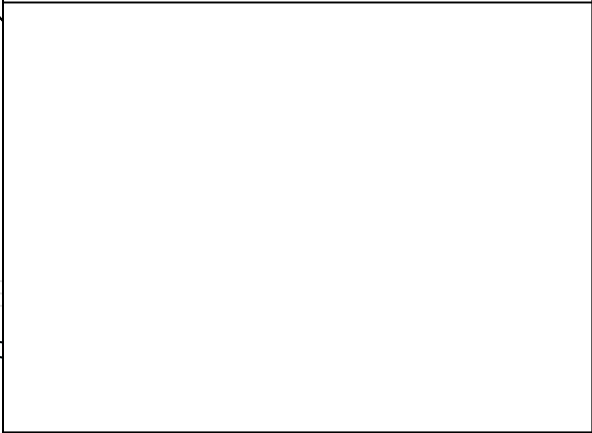
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Fig No:
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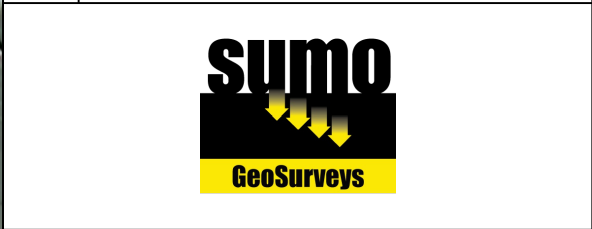


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KEY	
	Agriculture (land drain)
	Magnetic disturbance - usually related to a spread / concentration of modern material
	Ferrous material



Title:
Greyscale Plot / Interpretation / c. 1944-1975
Ordnance Survey Map / 2006 Aerial Image

Client:
HEA

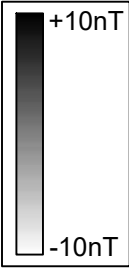
Project:
EMEB Sports Social Club, Nutts Lane, Hinckley

Scale: NOT TO SCALE	Fig No: 04
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Title:
Minimally Processed Magnetic Gradient Data -
Greyscale Plot

Client:
HEA

Project:
EMEB Sports Social Club, Nutts Lane, Hinckley

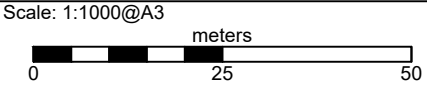


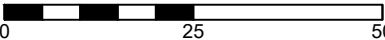
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Title: Magnetic Gradient Data -X-Y Trace Plots (clipped at +/-15nT)	
Client: HEA	
Project: EMEB Sports Social Club, Nutts Lane, Hinckley	
Scale: 1:1000@A3 	Fig No: 06

Appendix A - Technical information: Magnetic survey

Instrumentation:

Fluxgate gradiometers were used for the magnetic survey. These are systems that have two fluxgate magnetometers a set distance apart in a vertical sensor each of which measures the vertical component of the earth's magnetic field. The difference in measurements between the two magnetometers indicates the gradient of the earth's magnetic field.

Generally, features up to 1 m deep may be detected using fluxgate gradiometers, though strongly magnetic objects may be visible at greater depths and features / material that produce relatively weak magnetic responses may only be detected at shallower depths.

Data points and survey grids are georeferenced using using an RTK GNSS (Real-Time Kinematic Global Navigation Satellite System) to an accuracy usually in the order of +/- 0.05 m, and at all times better than 0.1 m. Positional data is converted to the Ordnance Survey National Grid co-ordinates, using the UK OSTN15 transformation.

SUMO GeoSurveys utilise Bartington or Foerster fluxgate gradiometers in several different configurations, depending on the client's requirements, survey objectives and site specific conditions. These include:

Bartington cart system

Cart survey: Four Grad601 sensors, with a sensor spacing of 1.0 m, are mounted on a non-magnetic cart. Readings are taken at nominal 0.125 m intervals. The sensors and an on-board RTK GNSS are connected to a control unit / data logger which allows each data point to be geo-referenced and related to Ordnance Survey National Grid. Readings are triggered at time intervals so the speed of survey can affect how often a reading is taken but the frequency a reading is taken and the speed of survey are set so that on average a reading will be taken at the required interval or better.

Bartington Grad 601-2

Hand-held: In this configuration two paired sensors, connected to a control unit / data logger, are carried by hand. The sensor are spaced 1 m apart and readings are taken at 0.25 m centres along traverses. Regular 30 m grids are set out across the survey area and the data is collected over these.

Foerster cart system (MACS)

Cart survey: A multi-sensor array cart system (MACS) utilising 4 or 8 Foerster 4.032 Ferex CON 650 gradiometers that are mounted on a non-magnetic cart. Readings are taken at between 0.1 and 0.15 m intervals. The sensors and an on-board RTK GNSS are connected to a control unit / data logger (an Eastern Atlas digitiser) which allows each data point to be geo-referenced and related to Ordnance Survey National Grid. Readings are triggered at time intervals so the speed of survey can affect how often a reading is taken but the frequency a reading is taken and the speed of survey are set so that on average a reading will be taken at the required interval or better.

Foerster cart system (MACS)

Cart survey: A multi-sensor array cart system (MACS) utilising 4 Foerster 4.032 Ferex MG-10-550 gradiometers that are mounted on a non-magnetic cart. Readings are taken at between 0.1 and 0.15 m intervals. The sensors and an on-board RTK GNSS are connected to a control unit / data logger which allows each data point to be geo-referenced and related to Ordnance Survey National Grid. Readings are triggered at time intervals so the speed of survey can affect how often a reading is taken but the frequency a reading is taken and the speed of survey are set so that on average a reading will be taken at the required interval or better.

Data processing

The processing sequence used for the data will depend on the instrument and configuration used.

Bartington Grad601 cart survey data

Zero Mean	This process sets the background mean of each traverse to zero. The operation
Traverse	removes striping effects and edge discontinuities caused by individual sensors having slightly different values when zeroed or where striping errors occur due to instrument drift or are a product of data collection.

Bartington Grad601-2 hand-held data

Zero Mean	This process sets the background mean of each traverse within each grid to zero.
Traverse	The operation removes striping effects and edge discontinuities caused by individual sensors having slightly different values when zeroed or where striping errors occur due to instrument drift or are a product of data collection.
Step Correction (De-stagger)	When gradiometer data are collected in 'zig-zag' fashion, stepping errors or stagger can sometimes arise. These occur because of a slight difference in the speed of walking on the forward and reverse traverses. The result is a staggered effect in the data, which is particularly noticeable on linear anomalies. This process corrects these errors.

Foerster cart system (MACS)

ealdec	This process decodes the raw data and converts it to a csv file. Positional values are assigned to each data point based on data from the GNSS and the offset of each sensor relative to the GNSS.
Ealmat.m	This is the equivalent of a zero mean traverse, wherein the data is normalised and a drift correction applied for each probe.
Ealgrid.m	This grids the data by merging each profile file. Parameters are set by based on the sensor spacing and resolution required.

Foerster cart system (MACS)

Zero Mean	This process sets the background mean of each traverse to zero. The operation
Traverse	removes striping effects and edge discontinuities caused by individual sensors having slightly different values when zeroed or where striping errors occur due to instrument drift or are a product of data collection.

Display

Greyscale plot	A greyscale plot of magnetic data is a visual representation of magnetic field strength variations over a given area. Magnetic gradient measurements are converted into a two-dimensional image where different shades of grey correspond to different magnetic values. This format divides a given range of readings into a set number of classes. Each class is represented by a specific shade of grey, the intensity increasing with value. All values above the given range are allocated the same shade (maximum intensity); similarly, all values below the given range are represented by the minimum intensity shade. In this instance black is used for the maximum intensity values and white for the minimum.
X-Y trace plot	An X-Y trace plot of magnetic data is a visual representation of magnetic field strength variations over a given area. Magnetic gradient measurements along a single traverse are displayed as a graph where the X-axis represents the distance along a traverse and the Y-axis is the measured magnetic gradient value at that point. Plots for each traverse are stacked to produce the X_Y trace plot for an area. The main advantage of the shape of individual anomalies can be viewed, and if required the full range of data can be viewed, although the data is often clipped at +/- 15 nT to +/- 20 nT.

Interpretation Categories

In certain circumstances (usually when there is corroborative evidence from desk-based or excavation data) very specific interpretations can be assigned to magnetic anomalies (for example, *Roman Road, Wall, etc.*) and where appropriate, such interpretations will be applied. The list below outlines the generic categories commonly used in the interpretation of the magnetic gradient data.

<i>Archaeology / probable archaeology</i>	This term is used when the form, nature and pattern of the responses are clearly or very probably archaeological and /or if corroborative evidence is available. These anomalies, whilst considered anthropogenic, could be of any age.
<i>Possible archaeology</i>	These anomalies exhibit either weak signal strength and / or poor definition, or form incomplete archaeological patterns, thereby reducing the level of confidence in the interpretation. Although the archaeological interpretation is favoured, they may be the result of variable soil depth or plough damage.
<i>Industrial / Burnt / fired</i>	Strong magnetic anomalies that, due to their shape and form or the context in which they are found, suggest the presence of kilns, ovens, corn dryers, metal- working areas or hearths. It should be noted that in many instances modern ferrous material can produce similar magnetic anomalies.
<i>Ridge and furrow</i>	Parallel linear anomalies whose broad spacing suggests ridge and furrow cultivation. In some cases, the response may be the result of more recent agricultural activity.
<i>Uncertain origin</i>	Anomalies which stand out from the background magnetic variation, yet whose form and lack of patterning gives little clue as to their origin. Often the characteristics and distribution of the responses straddle the categories of <i>Possible Archaeology / Natural</i> or (in the case of linear responses) <i>Possible Archaeology / Agriculture</i> ; occasionally they are simply of an unusual form.
<i>Former field boundary (probable and possible)</i>	Anomalies that correspond to former boundaries indicated on historic mapping, or which are clearly a continuation of existing land divisions. Possible denotes less confidence where the anomaly may not be shown on historic mapping but nevertheless the anomaly displays all the characteristics of a field boundary.
<i>Agriculture (ploughing)</i>	Parallel linear anomalies or trends with a narrower spacing, sometimes aligned with existing boundaries, indicating more recent cultivation regimes. The general orientation of the cultivation regime is shown but, for the sake of clarity, each individual anomaly has not been shown.
<i>Agriculture (land drain)</i>	Weakly magnetic linear anomalies, quite often appearing in series forming parallel and herringbone patterns. Smaller drains may lead and empty into larger diameter pipes, which in turn usually lead to local streams and ponds. These are indicative of clay fired land drains.
<i>Natural (e.g. geological / pedological)</i>	These responses form clear patterns in geographical zones where natural variations are known to produce significant magnetic distortions.
<i>Magnetic disturbance</i>	Areas of strong dipolar / bipolar anomalies, usually related to a spread / concentration of modern magnetic including ferrous and fired (e.g. brick or tile rubble) material.
<i>Service (e.g. pipe, cable or drain)</i>	Magnetically strong anomalies, usually forming linear alignments are indicative of ferrous pipes cables. Sometimes other materials (e.g. pvc) or the fill of the trench can cause weaker magnetic responses which can be identified from their uniform linearity.
<i>Ferrous</i>	This type of response is associated with ferrous material and may result from small items in the topsoil, larger buried objects such as pipes, or above ground features such as fence lines or pylons. Ferrous responses are usually regarded as modern. Individual burnt stones, fired bricks or igneous rocks can produce responses similar to ferrous material.

Where appropriate some anomalies will be further classified according to their form (positive or negative) and relative strength and coherence (trend: weak and poorly defined).

Appendix B - Technical information: Magnetic theory

Detailed magnetic survey can be used to effectively define areas of past human activity by mapping spatial variation and contrast in the magnetic properties of soil, subsoil and bedrock. Although the changes in the magnetic field resulting from differing features in the soil are usually weak, changes as small as 0.1 nanoTeslas (nT) in an overall field strength of 48,000 (nT), can be accurately detected.

Weakly magnetic iron minerals are always present within the soil and areas of enhancement relate to increases in *magnetic susceptibility* and permanently magnetised *thermoremanent* material.

Magnetic susceptibility relates to the induced magnetism of a material when in the presence of a magnetic field. This magnetism can be considered as effectively permanent as it exists within the Earth's magnetic field. Magnetic susceptibility can become enhanced due to burning, soil formation, weathering, erosion and complex biological or fermentation processes.

Thermoremanence is a permanent magnetism acquired by iron minerals that, after heating to a specific temperature known as the Curie Point, are effectively demagnetised followed by re-magnetisation by the Earth's magnetic field on cooling. Thermoremanent archaeological features can include hearths and kilns; material such as brick and tile may be magnetised through the same process.

Silting and deliberate infilling of ditches and pits with magnetically enhanced soil creates a relative contrast against the much lower levels of magnetism within the subsoil into which the feature is cut. Systematic mapping of magnetic anomalies will produce linear and discrete areas of enhancement allowing assessment and characterisation of subsurface features. Material such as subsoil and non-magnetic bedrock used to create former earthworks and walls may be mapped as areas of lower enhancement compared to surrounding soils.

A magnetic survey is carried out using a magnetometer which can measure these small changes in magnetic properties, which are referred to as anomalies. Magnetometers can either measure the total field or the gradient. Measuring the gradient of the earth's magnetic field can suppress any diurnal or regional effects and makes the instrument sensitive to smaller, localised anomalies, which is critical for archaeological surveys. The total field or magnetic gradient are measured in Tesla (T) with the small variations detected in archaeological surveys recorded in nanoTesla (nT).

Factors affecting the magnetic survey may include soil type, local geology, previous human activity and disturbance from modern services (pipes, cables or drains) or other modern material / activity.

Appendix C - OASIS Summary Sheet

OASIS Summary for sumogeop1-540717

OASIS ID (UID)	sumogeop1-540717
Project Name	Magnetometry Survey, Geophysical Survey at E M E B Sports Social Club, Nutts Lane, Hinckley
Sitename	LE10 ONT
Sitecode	
Project Identifier(s)	SUMO-26747 E M E B Sports Social Club, Nutts Lane, Hinckley
Activity type	Magnetometry Survey, Geophysical Survey, MAGNETOMETRY SURVEY
Planning Id	
Reason For Investigation	Planning: Pre application
Organisation Responsible for work	SUMO Geophysics Ltd.
Project Dates	06-Mar-2026 - 06-Mar-2026
Location	LE10 ONT NGR : SP 41064 92680 LL : 52.530444, -1.396111 12 Fig : 441064,292680
Administrative Areas	Country : England County/Local Authority : Leicestershire Local Authority District : Hinckley and Bosworth Parish : Hinckley and Bosworth, unparished area
Project Methodology	Data was collected using a cart carrying four paired Bartington magnetic sensors. Four sensors mounted 1m horizontally apart and very accurately aligned to nullify the effects of the earth's magnetic field. Readings relate to the difference in localised magnetic anomalies compared with the general magnetic background. Each data point is geographically referenced using an on-board Trimble RTK survey grade GPS system. Readings were taken at 0.125m centres along traverses 1.0m apart. Readings relate to the difference in localised magnetic anomalies compared with the general magnetic background.
Project Results	The magnetometer survey has not recorded any magnetic responses that could be interpreted as being of archaeological interest. Linear responses interpreted as being drainage features associated with the former sports field, plus possible service pipes and cables, have been detected across the survey area. Extensive areas of magnetic disturbance have been highlighted, caused by modern landscaping and consolidation, partly resulting from the demolition of a former sports pavilion and tennis court.
Keywords	
Funder	Private or public corporation HEA
HER	Leicestershire HER - unRev - STANDARD
Person Responsible for work	Darcy Hooper
HER Identifiers	
Archives	

Appendix D – Data Management Plan & Archive Selection Strategy

Data Management Plan

Project ID / OASIS ID

SUMO-26747 / sumogeop1-540717

Project Name

E M E B Sports Social Club, Nutts Lane, Hinckley

Project Description

Detailed magnetic survey over approx. 1.5ha

Client

HEA

Project Manager

Darcy Hooper

Field Leader

Robert Knight

Date DMP created

19/02/2026

Date DMP last updated

17/03/2026

Version

3

Technique - data

Detailed magnetic survey

Manual – cart - other

Cart Magnetometers

Documentation and metadata

All documentation and data produced are stored on SUMO servers in a specific job file.

Data storage, access and back-up

- SUMO Secure server during the project life set up in a RAID configuration (a RAID configuration incorporates a level of data redundancy meaning if a single hard drive in fails data can still be restored).

- Snap shots of the data will be made at several intervals during the day to allow data to be restored for up to 30 days if changed / deleted.
- Once the final report has been completed data will be moved onto NAS drive set up in a RAID configuration.
- All data is backed up to an off-site location (Cloud storage).

Archive Selection Strategy

Digital Data

Selection

It is proposed that only the final version of all born digital documents (reports, images and CAD files) will be selected for inclusion in the Preserved Archive. All raw and processed survey data will be included in the preserved archive. Below is what will constitute the selected archive:

- Raw data in XYZ format .csv and .png plus .pgw world file
- Processed data as .png plus .pgw world file
- Final survey report .pdf
- CAD and Vector graphics (interpretations) in .dwg format

De-selected digital data

The de-selected material will be retained on the SUMO Secure server and Cloud storage.

Documents

Not applicable – no archive

Materials

Not applicable – no archive



- Archaeological Geophysics
- Engineering Geophysics
- Measured Building Services
- Utility and Topographic Services
- Aerial Surveys
- Rail Surveys

SUMO GeoSurveys is a trading name of SUMO Geophysics Ltd.
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