

### **Geophysical Survey Report**

### Newton-Le-Willows, Merseyside

for

Oxford Archaeology North

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J2324

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Techniques:	Magnetic Susceptibility, Detailed Magnetometry, Detailed Resistivity				
National Grid Ref:	SJ 600 945				

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#### SUMMARY OF RESULTS

The geophysical survey undertaken over 185ha of agricultural land at Newton-le-Willows, Merseyside has identified a number of anomalies of possible archaeological origin. Positive linear anomalies indicate the presence of cut features such as ditches and negative anomalies suggest the presence of possible former earthworks or banks. Discrete positive anomalies have been interpreted as possible pits. The resistivity data undertaken over a section of Area 12 has little correlation with the results of the detailed magnetometry survey. However a former field boundary can be identified in both data sets.

#### 1. INTRODUCTION

1.1. <u>Background synopsis</u>

Stratascan were commissioned by Oxford Archaeology North to undertake a geophysical survey of an area outlined for development.

1.2. <u>Site location</u>

The site is located either side of the M6 motorway at Newton-Le-Willows, Merseyside at OS ref: SJ 600945.

1.3. <u>Description of site</u>

The survey area consists of approximately 185ha of agricultural land currently used for both pasture and arable. The underlying geology is Permian and Triassic sandstones (British Geological Survey South Sheet, Fourth Edition Solid, 2001). The overlying soils include Salop soils which are a type of stagnogley soil described as slowly permeable seasonally waterlogged reddish fine loamy over clayey soils; and Bridgenorth soils which are a type of brown sand described as well drained sandy and coarse loamy soils over soft sandstone (Soil Survey of England and Wales, Sheet 3 Midland and Western England).

1.4. Site history and archaeological potential

No specific details were available to Stratascan.

1.5. Survey objectives

The objective of the survey was to locate any features of possible archaeological significance in order that they may be investigated prior to development.

1.6. Survey methods

The reconnaissance technique of magnetic susceptibility was employed over the whole of the survey area. From this a number of areas were targeted for detailed magnetometry. A targeted detailed resistivity survey was subsequently carried out based on the results of the magnetometry survey. More information regarding these techniques is included in the Methodology section below.

#### 2. METHODOLOGY

#### 2.1. Date of fieldwork

The fieldwork was carried out over 33 days from 10<sup>th</sup> April 2007. Weather conditions during the survey were varied.

#### 2.2. <u>Grid locations</u>

The location of the survey grids has been plotted in Figure 1.

#### 2.3. Description of techniques and equipment configurations

#### 3.3.1 <u>Magnetic Susceptibility</u>

Alteration of iron minerals in topsoil through biological activity and burning can enhance the magnetic susceptibility (MS) of that soil. Measuring the MS of a soil can therefore give a measure of past human activity and can be used to target the more intensive and higher resolution techniques of Magnetometry and Resistivity. Measurements of MS were carried out using a field coil which provides a rapid scan and has the benefit of allowing "insitu" readings to be taken.

The equipment used on this contract was an MS2 Magnetic Susceptibility meter manufactured by Bartington Instruments Ltd. A field coil known as an MS2D was used to take field readings. This assessed the top 200mm or so of topsoil. To overcome the problem of ground contact all readings were taken 4 or 5 times and an average taken. All obvious localised "spikes" were ignored.

#### 3.3.2 <u>Magnetometer</u>

Although the changes in the magnetic field resulting from differing features in the soil are usually weak, changes as small as 0.2 nanoTesla (nT) in an overall field strength of 48,000nT, can be accurately detected using an appropriate instrument.

The mapping of the anomaly in a systematic manner will allow an estimate of the type of material present beneath the surface. Strong magnetic anomalies will be generated by buried iron-based objects or by kilns or hearths. More subtle anomalies such as pits and ditches can be seen if they contain more humic material which is normally rich in magnetic iron oxides when compared with the subsoil.

To illustrate this point, the cutting and subsequent silting or backfilling of a ditch may result in a larger volume of weakly magnetic material being accumulated in the trench compared to the undisturbed subsoil. A weak magnetic anomaly should therefore appear in plan along the line of the ditch. The magnetic survey was carried out using a dual sensor Grad601-2 Magnetic Gradiometer manufactured by Bartington Instruments Ltd. The Grad601-2 consists of two high stability fluxgate gradiometers suspended on a single frame. Each sensor has a 1m separation between the sensing elements increasing the sensitivity to small changes in the Earths magnetic field.

#### 3.3.3 <u>Resistivity</u>

This method relies on the relative inability of soils (and objects within the soil) to conduct an electrical current which is passed through them. As resistivity is linked to moisture content, and therefore porosity, hard dense features such as rock will give a relatively high resistivity response, while features such as a ditch which retains moisture give a relatively low response.

The resistance meter used was an RM15 manufactured by Geoscan Research incorporating a mobile Twin Probe Array. The Twin Probes are separated by 0.5m and the associated remote probes were positioned approximately 15m outside the grid. The instrument uses an automatic data logger which permits the data to be recorded as the survey progresses for later downloading to a computer for processing and presentation.

Though the values being logged are actually resistances in ohms they are directly proportional to resistivity (ohm-metres) as the same probe configuration was used through-out.

#### 2.4. Sampling interval, depth of scan, resolution and data capture

#### 3.4.1 *Sampling interval*

#### Magnetic susceptibility

The magnetic susceptibility survey was carried out on a 20m grid with readings being taken at the node points.

#### Magnetometer

Readings were taken at 0.25m centres along traverses 1m apart. This equates to 3600 sampling points in a full 30m x 30m grid. All traverses are surveyed in a "parallel" rather than "zigzag" mode to avoid heading error.

#### Resistivity

Readings were taken at 1.0m centres along traverses 1.0m apart. This equates to 900 sampling points in a full 30m x 30 grid. All traverses were surveyed in a "zigzag" mode.

#### 3.4.2 Depth of scan and resolution

#### Magnetic Susceptibility

The MS2D coil assesses the average MS of the soil within a hemisphere of radius 200mm. This equates to a volume of some 0.016m<sup>3</sup> and maximum depth of 200mm. As readings are only at 20m centres this results in a very coarse resolution but adequate to pick up trends in MS variations.

#### Magnetometer

The Grad601-2 has a typical depth of penetration of 0.5m to 1.0m. This would be increased if strongly magnetic objects have been buried in the site. The collection of data at 0.5m centres provides an appropriate methodology balancing cost and time with resolution.

#### Resistivity

The 0.5m probe spacing of a twin probe array has a typical depth of penetration of 0.5m to 1.0m. The collection of data at 1m centres with a 0.5m probe spacing provides an appropriate methodology balancing cost and time with resolution.

#### 3.4.3 *Data capture*

#### Magnetic susceptibility

The readings are logged manually on site, and then transferred to the office where they are entered into a computer and colour scale *Surfer* plots are produced.

#### Magnetometer

The readings are logged consecutively into the data logger which in turn is daily downloaded into a portable computer whilst on site. At the end of each job, data is transferred to the office for processing and presentation.

#### Resistivity

As with the magnetometer, readings are logged consecutively into the data logger which in turn is daily down- loaded into a portable computer whilst on site. At the end of each job, data is transferred to the office for processing and presentation.

#### 2.5. Processing, presentation of results and interpretation

#### 3.5.1 Processing

#### Magnetic susceptibility

No processing of the data has been undertaken.

#### Magnetometer

Processing is performed using specialist software known as *Geoplot 3*. This can emphasise various aspects contained within the data but which are often not easily seen in the raw data. Basic processing of the magnetic data involves 'flattening' the background levels with respect to adjacent traverses and adjacent grids. 'Despiking' is

also performed to remove the anomalies resulting from small iron objects often found on agricultural land. Once the basic processing has flattened the background it is then possible to carry out further processing which may include low pass filtering to reduce 'noise' in the data and hence emphasise the archaeological or man-made anomalies.

The following schedule shows the basic processing carried out on all processed magnetometer data used in this report:

Zero mean grid	$Threshold = 0.25 \ std. \ dev.$
Zero mean traverse	Last mean square fit = off
Despike	X radius = 1 $Y radius = 1$
-	$Threshold = 3 \ std. \ dev.$
	Spike replacement = mean

#### Resistivity

The processing was carried out using specialist software known as *Geoplot 3* and involved the 'despiking' of high contact resistance readings and the passing of the data though a high pass filter. This has the effect of removing the larger variations in the data often associated with geological features. The net effect is aimed at enhancing the archaeological or man-made anomalies contained in the data.

The following schedule shows the processing carried out on the processed resistance plots.

Despike	X radius = 1
-	Y radius = 1
	Spike replacement

#### 3.5.2 Presentation of results and interpretation

#### Magnetic susceptibility

The presentation of the data for this site involves a colour scale plot of the field measurements overlain onto a site plan (see Figure 2).

#### Magnetometer

The presentation of the data for each site involves a print-out of the raw data both as grey scale (Figures 3, 8, 13, 18, 23, 28 and 33) and trace plots (Figures 4, 5, 9, 10, 14, 15, 19, 20, 24, 25, 29, 30, 34 and 35), together with a grey scale plot of the processed data (Figures 6, 11, 16, 21, 26, 31 and 36). Magnetic anomalies have been identified and plotted onto the 'Abstraction and Interpretation of Anomalies' drawing for the site (Figures 7, 12, 17, 22, 27, 32 and 37).

The presentation of the data for the site involves a print-out of the raw data as a grey scale plot (Figure 38), together with a grey scale plot of the processed data (Figure 39). Anomalies have been identified and plotted onto the 'Abstraction and Interpretation of Anomalies' drawing (Figure 40).

#### 3. **RESULTS**

#### 3.1. <u>Magnetic Susceptibility</u>

The reconnaissance technique of magnetic susceptibility was used over the entire 185ha of the site. The results showed that the fields to the east of the M6 had a generally higher magnetic susceptibility value than those to the west. This may be due to increased human activity or pedological variance. However, the Soil Survey of England and Wales shows no such change in geology (Soil Survey of England and Wales, Sheet 3 Midland and Western England).

Detailed gradiometry grids were targeted based on the results of the magnetic susceptibility survey.

#### 3.2. Detailed Magnetometry

Detailed magnetometry was carried out over areas highlighted by the results of the magnetic susceptibility survey. Grids were positioned over areas of high susceptibility and areas of lesser enhancement in order to sample the area. However, a number of areas could not be surveyed due to access issues. These areas include: Area 2, Area 3, Area 4 and Area 16a.

A number of anomalies of possible archaeological origin have been identified and are outlined below.

#### Positive Linear and Area Anomalies

Positive linear and area anomalies have been identified in Areas 1, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16. These features represent cut features, such as ditches and may be of an archaeological origin. A rectilinear arrangement of cut features can be noted in the western limits of Area 12 and a smaller arrangement is evident in the central region of this area. Further investigation would be required in order to ascertain the nature of both of these features.

Positive curvilinear anomalies are evident in Areas 14 and 15. These anomalies may be related to prehistoric activity, however further investigation would be necessary to confirm this.

Positive linear anomalies related to agricultural activity such as ploughing are evident in many of the survey areas, as are anomalies that may be related to former field boundaries.

#### Negative Linear and Area Anomalies

Negative linear anomalies indicating the presence of former earthworks/banks have been identified in Areas 7, 10, 12, 13, 14, 15 and 16. A rectilinear arrangement of these anomalies in Area 7 may represent some form of enclosure in this part of the site. A negative curvilinear anomaly can be noted in the central region of Area 14. Negative linear anomalies in close proximity with positive linear anomalies suggesting some form of bank and ditch arrangement are evident in Areas 12, 13, 15 and 16.

#### Discrete Positive Anomalies

Discrete positive anomalies are evident in all the survey areas with the exception of Areas 6 and 8. These anomalies have been interpreted as possible pits and may be of an archaeological origin. The greatest concentration of these anomalies can be seen in Areas 10, 11, 12 and 15. Further investigation may be necessary in order to ascertain as to whether these anomalies are pits of an archaeological origin or natural features.

#### Magnetic Disturbance

Discrete areas of magnetic disturbance are evident in many of the survey areas. These anomalies represent some form of ground disturbance having taken place. A large discrete area of magnetic disturbance can be noted in Area 6. This anomaly has been interpreted as a thermoremnant feature of uncertain origin. The large numbers of areas of magnetic disturbance with values that may be attributed to thermoremnance may suggest some form of industrial activity or the dumping of industrial waste taking place on the site.

Large areas of magnetic variance can be noted in Areas 6, 7 and 8. The cause of this variance is unknown but may be related to changes in geology or pedology.

#### 3.3. <u>Detailed Resistivity</u>

The data collected during the resistivity survey is dominated by high and low resistance linear anomalies representing agricultural activity such as ploughing. However high resistance linear and area anomalies have been identified which may relate to buried structural remains or compacted earth.

There is little correlation with the magnetometry data collected in this area. However, a possible former field boundary is evident in both the resistance and magnetometry data sets.

#### 4. CONCLUSION

The geophysical survey undertaken at Newton-le-Willows, Merseyside has identified a number of anomalies of possible archaeological origin. Positive linear and area anomalies identified within the magnetometer data indicate the presence of cut features such as ditches. These features are evident within the majority of the survey areas however; particular concentrations can be noted in Areas 12, 13 and 15 which may suggest centres of activity in these areas.

A number of circular features have been noted within the magnetometer data in Areas 14 and 15. Further investigation may reveal these anomalies to be of an archaeological origin.

Discrete positive anomalies are evident across the site. These anomalies have been interpreted as possible pits, however the large number and spread of these features may suggest that they are of a geological origin. Further investigation would be required to ascertain the nature of these anomalies.









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	Minim	um +7	$0\Omega$ (white)	
	-39		+35D	+700
			Surve	v Date
	505 110.	2324		MAY 2007
	Client			
	OXF	ORD /	ARCHAEOL	OGY NORTH
	Project T	Title		
		GEOPHYSICAL SURVEY-		
	NEWTON-LE-WILLOWS,			
	Subject		MEKSEYSI	
		PLO	T OF PROCI	ESSED
		RES	SISTANCE	DATA
	<b>dP</b> ,			
/	5.	M.		
	G	GEOPHYSICS FOR ARCHAEOLOGY		
		AND ENGINEERING VINEYARD HOUSE		
		UP	TON UPON SE	VERN
			UK WR8 0SA	×2110
		T: -	+44 (0)1684 5	92266
		г:- Е: ir	nfo@stratascar	n.co.uk
	Scale	WV	ww.stratascan.	20 25 30m
	1:50	0		
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	JUN	E 07	RAJS	39

![](_page_52_Picture_0.jpeg)

N	Issue No	Date	Amendmen	its
	-		-	
/				
			KEY	
	High remai	resistance li ns or compa	near anomaly - possibl acted ground	e structural
	Agric	ultural mark		
	High	resistance li er field boun	near anomaly- possibly darv	/ related to
	High remai	resistance a ns or compa	rea anomaly - possible	structural
	High forme	resistance a	rea anomaly - possibly dary	related to
	Job No.	222.1	, Surve	
	Client	2324		MAY U/
	OXFO	JRD A	ARCHAEOL	OGY NORTH
	Project T	itle		
	(	GEOPI	HYSICAL S	SURVEY-
		NEWT	ON'LE'WI	LLOWS,
	<u>C.</u>	1	MERSEYSI	DE
	Subject			
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	Date	E 07	Drawn by RA1S	Figure No.

![](_page_53_Picture_0.jpeg)

Ņ	Amendments
/	
	KEY Agricultural mark- evident in both magnetometry and resistivity data sets
	Former field boundary- evident in both magnetometry and resistivity data sets MAGNETOMETRY
	Positive linear anomaly- cut feature of possible archaeological origin           Positive linear anomaly- possible former field boundary
	Positive area anomaly- cut feature of possible archaeological origin Magnetic disturbance
	Discrete positive anomaly- possible pit     Bipolar anomaly- ferrous object
	RESISTANCE
	remains or compacted ground High resistance area anomaly - possible structural remains or compacted ground
	Client
	OXFORD ARCHAEOLOGY NORTH
	GEOPHYSICAL SURVEY-
	MERSEYSIDE
	COMBINED MAGNETOMETRY AND
	RESISTANCE INTERPRETATION
	GEOPHYSICS FOR ARCHAFOLOGY
	AND ENGINEERING VINEYARD HOUSE UPPER HOOK ROAD
	UPTON UPON SEVERN UK UK WR8 0SA
	T: +44 (0)1684 592266 F: +44 (0)1684 594142 E: info@stratascan.co.uk
	www.stratascan.co.uk Scale 0m 5 10 15 20 25 30m 1:500
	PlotChecked by PPBIssue No.A1PPB01DateDrawn byFigure No.
/	JUNE 07 RAJS 41

![](_page_54_Figure_0.jpeg)