

YCCCART 2014 / Y8

North Somerset HER 2014/100

**Gradiometry Survey off Venus St.
(D Edwards field number 2)**

**YATTON, CONGRESBURY, CLAVERHAM AND CLEEVE ARCHAEOLOGICAL
RESEARCH TEAM (YCCCART)**

General Editor: Vince Russett



A piece of Romano-British Congresbury ware pottery.

Page	Contents
3	Abstract Acknowledgements Introduction
4	Site location Land use and geology
5	Historical & archaeological context
7	Survey objectives Methodology
8	Results
13	Recommendations References
14	Appendix – Site Record

Abstract

YCCCART has a project to establish the extent of the Congresbury Roman kiln sites. Iwood. A gradiometry survey has revealed what appear to be previously unknown kilns.

Acknowledgements

A Heritage Lottery Grant enabled the purchase, by YCCCART, of a Bartington 601 gradiometer meter without which this survey could not have been undertaken.

This survey would also not have been carried out without the willing permission of the landowners Mrs D Edwards and Mr D Edwards

The authors are grateful for the hard work by the members of YCCCART in performing the survey and Vince Russett for editing the report.

Introduction

YCCCART is one of a number of Community Archaeology teams across North Somerset, supported by the North Somerset Development Management Team.

The objective of the Community Archaeology in North Somerset (CANS) project is to undertake archaeological fieldwork to enable a better understanding and management of the heritage of the area while recording the activities and locations of the research carried out.

Site Location

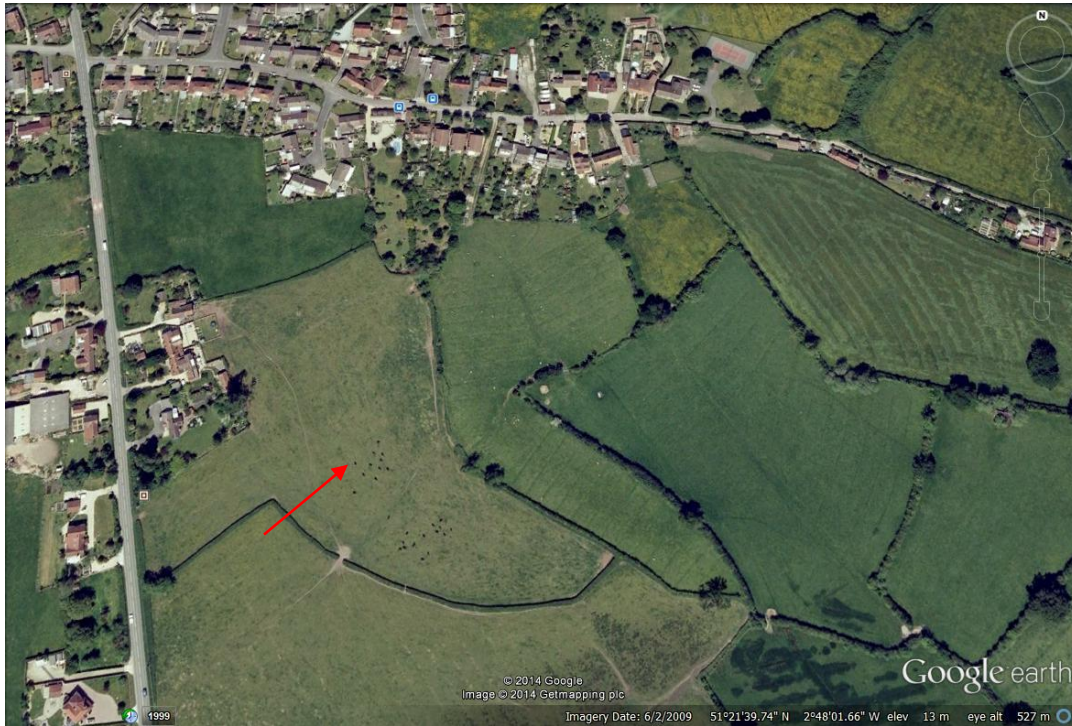


Fig 1: Site location indicated by red arrow.

The site is in Congresbury and abuts Brinsea Road and is close to Venus Street.

Land use and geology

The site lies to the south of the flood plain of the natural course of the Congresbury Yeo. The geology is Carboniferous limestone, Keuper Marl and estuarine alluvium.

The field is private with no public access and is used for grazing.

Historical & archaeological context

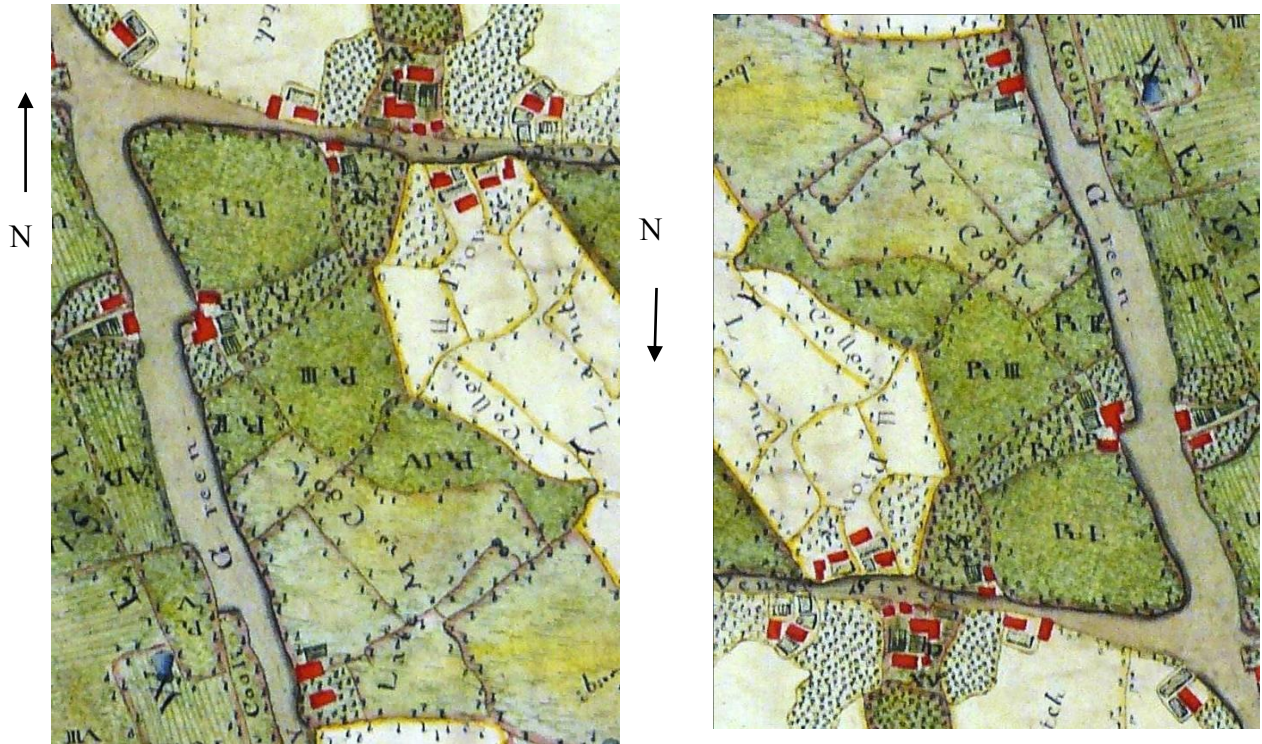


Fig 2: De Wilstar map of 1739. Courtesy of Bristol Record Office. Reference 33041/BMC/4/PL1/2. Note the map is upside down hence the lettering is the wrong way up.

The index to the De Wilstar Map of 1739 (Fig above) shows:
Field RI as Barne Close.
Fields RII and RIII are called "Brownes Ground".
Field RIV is called "The South Close."

Tithe Map



Fig 3: 1839 Map. Courtesy of Bristol Record Office BRO 37959/9. The surveyed field is within the added red outline and numbered 1063 (right hand side only) and 1843.

The Tithe apportionment record, relating to the 1839 map above, shows both fields as pasture.

1063 is described as Browns Land and Allotments

1843 is described as Rent of Browns South Close.

The Trustees of Queen Elizabeth Hospital owned the land, which was occupied by Anne Osmond.

Survey objectives

The survey was undertaken in order to establish if further unknown Romano–British kilns could be located.

Methodology

The survey of field was undertaken during May 2014 by a team from YCCCART, using a Bartington 601 gradiometer.

The completed survey was downloaded to a TerraSurveyor program.

TerraSurveyor composites were adjusted using the following filters:

- Band weight equaliser
- Grad shade
- Despike
- Destripe
- Clip SD2
- Red Green Blue 2 (Colour image)

The report was written in Microsoft Word 2013.

Photographs were taken by members of YCCCART, and remain the copyright of YCCCART.

Results

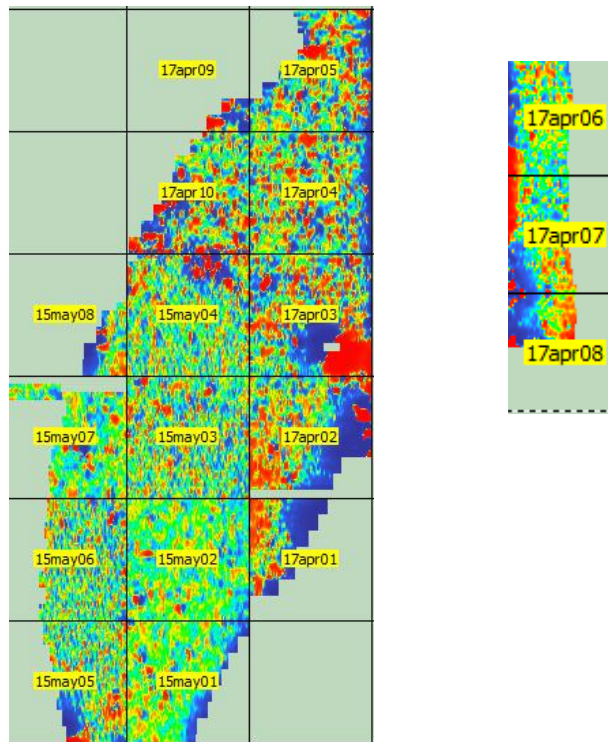
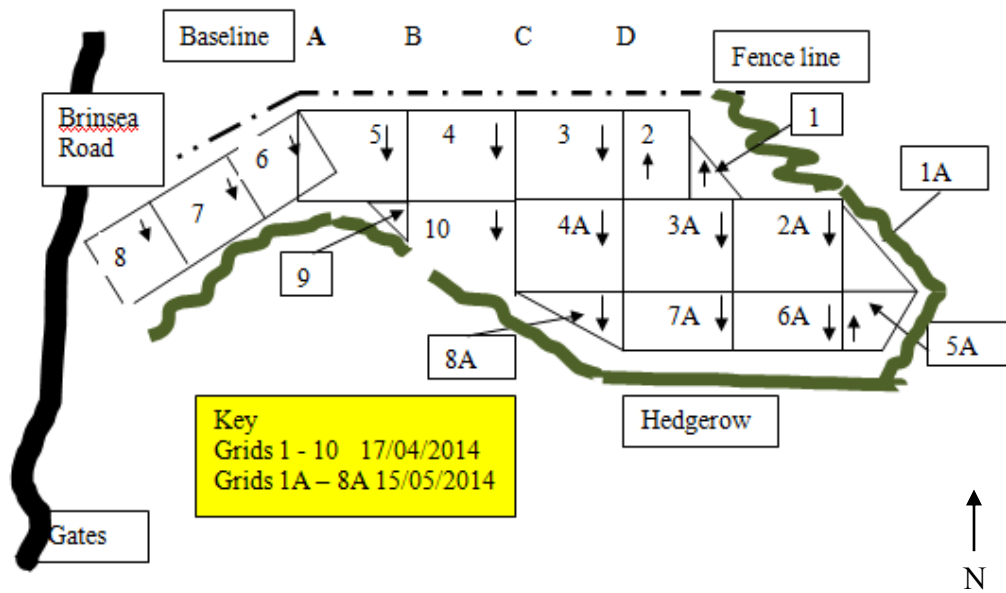


Fig 4: Above grid layout and below TerraSurveyor grids.

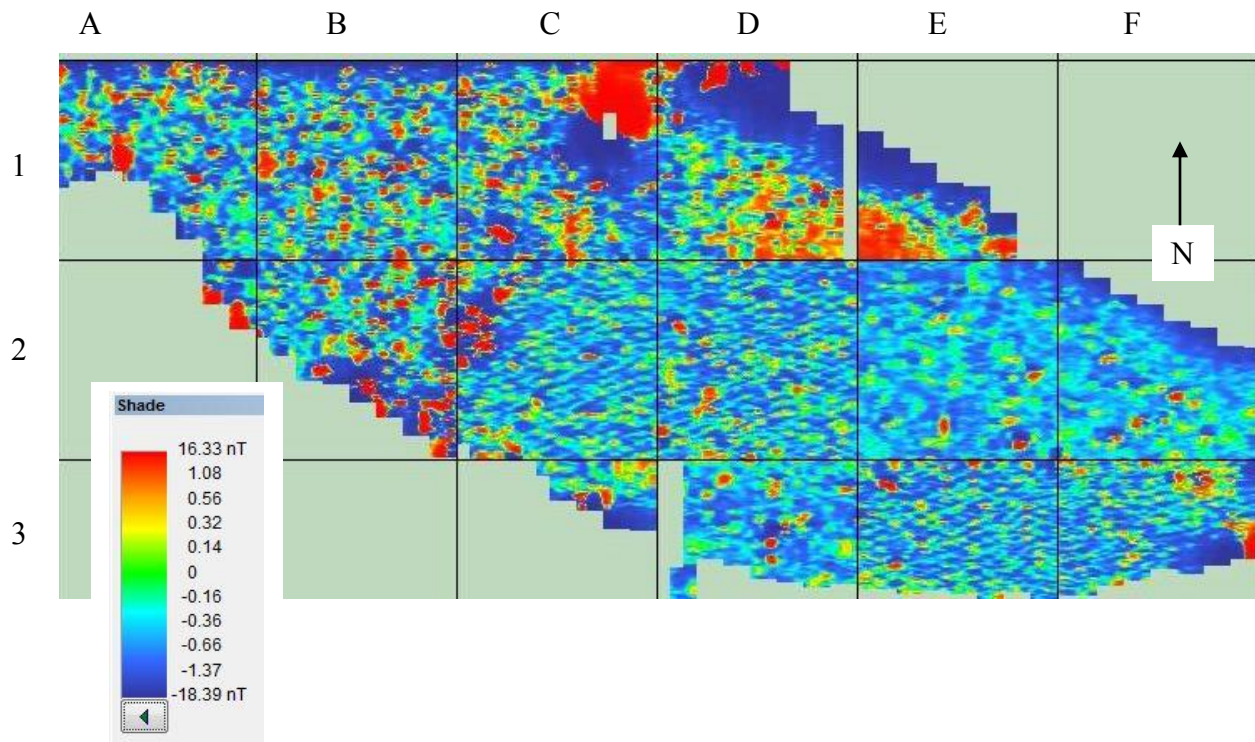


Fig 5: TerraSurveyor Shade view image excluding 17 April grids 6, 7 & 8. High readings are red.

The top right of grid 1C contains a high (red) anomaly which seems to have resulted from a metal horse trough. The white gap in the survey results is where the team were unable to survey because the trough was in the way.

The most interesting results, shown in Fig 5 above, are in grids 2B, 2C and 1D. Roman pottery kiln sites are generally indicated in gradiometry surveys by strong negative (blue) and positive peaks (red) immediately adjacent to each other. These grids appear to include such features.

Grid B1 is said to contain a water pipe.

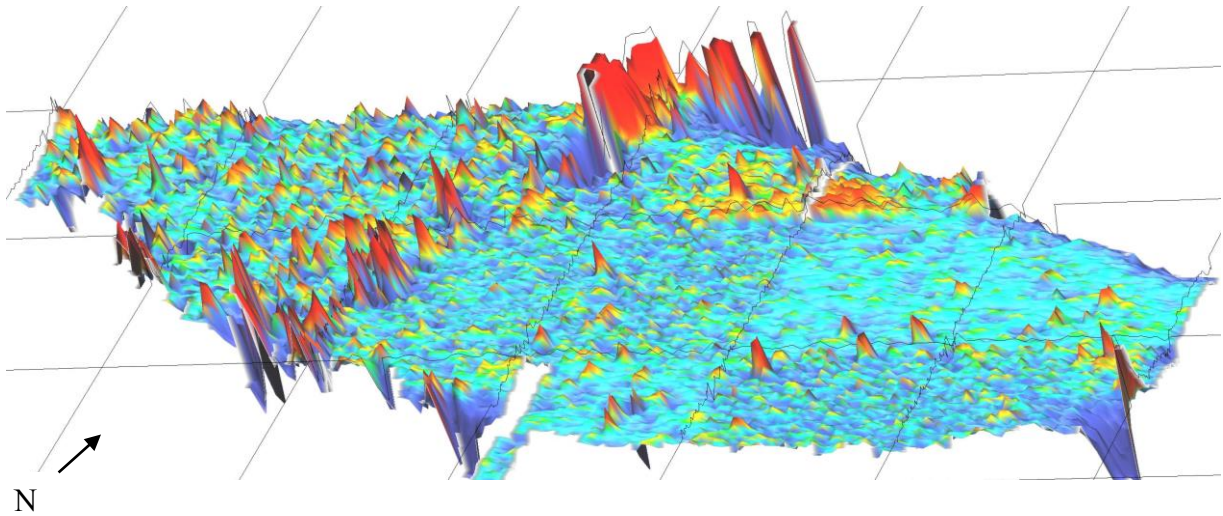


Fig 6: TerraSurveyor 3d colour shade image excluding 17 April grids 6, 7 & 8. High readings are red.

The 3d image in Fig 6 above clearly shows the high red peaks and adjacent negative, blue peaks.

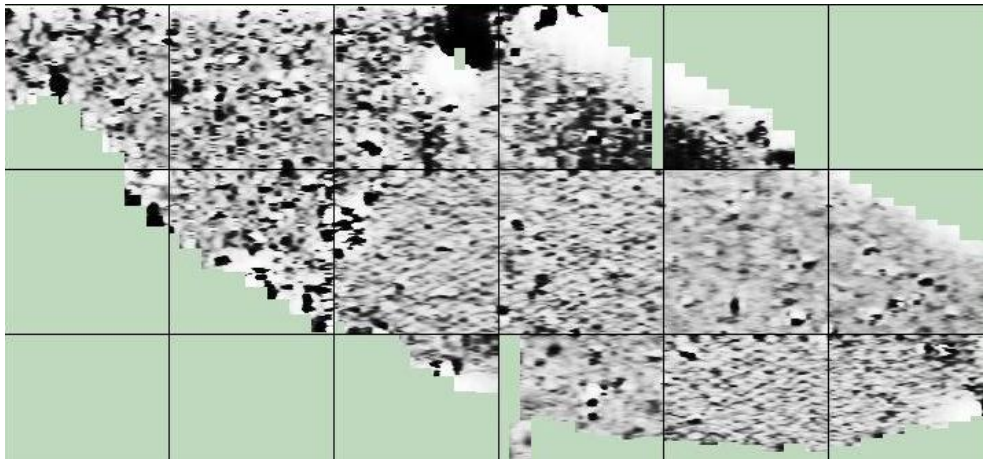


Fig 7: TerraSurveyor black and white image excluding 17 April grids 6, 7 & 8. High readings are black.

The black and white image, in Fig 7 above, shows no additional features.

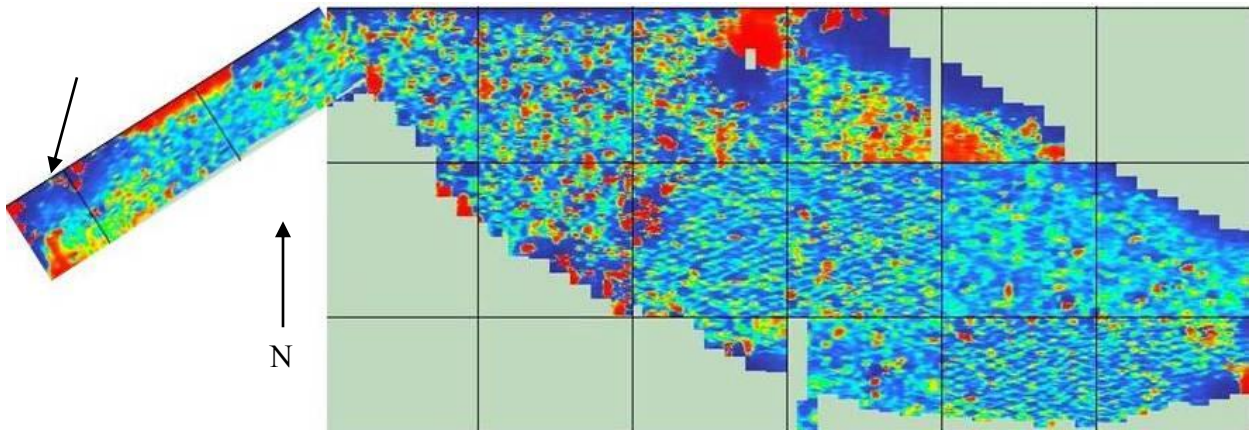


Fig 8: TerraSurveyor grids including 17 April grids 6, 7 & 8 (3 grids on the left).

The addition of grids 6 to 8 to the left, in fig 8 above, reveals potential further Romano-British pottery kilns in the area indicated by the arrow. (Grid 8 and part of grid 7) The 3d, results for these grids, in Fig 9 below, further confirms this supposition.

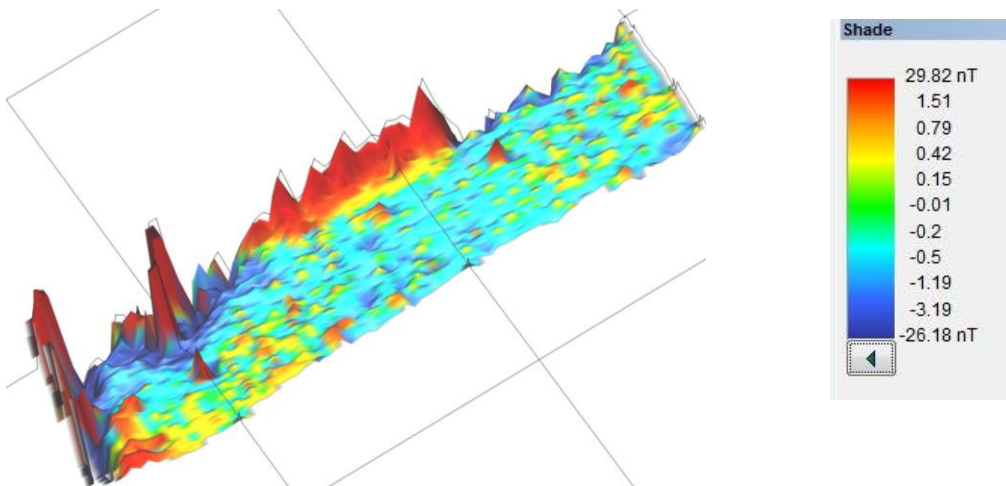


Fig 9: TerraSurveyor result. 3 image of 17th April 6, 7 & 8. High readings are red.

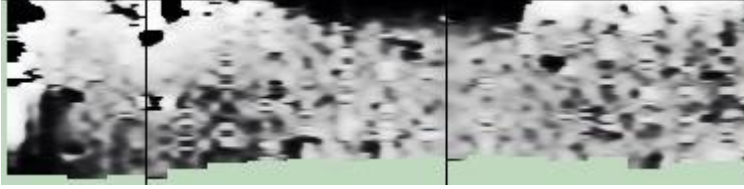


Fig 10: *TerraSurveyor* results for 17th April grids 6, 7 & 8 only. Top left: 3d image. High readings red. Below: Black and white image. High readings are black.

The black and white image, in Fig 10 above, shows no additional features.

Recommendations

Review when all project results are available.

References

Congresbury Tithe Map 1839

BRO 37959/9. (Bristol Record Office)

De Wilstar map of 1739

BRO 33041/BMC/4/PL1/2. (Bristol Record Office)

Authors: Chris Short

Date: June 2014

Appendix

Site Record

YCCART Site Survey Project – D_D Edwards #2 – Congresbury Kilns projects		
Survey date	15 th May 2014	
Report date	15 th May 2014	
Type /Instrument	Grad 601	
	Pace :1.5m/s Lines/m : 1 Range:100nT Volume: High Sensors:2	Grid size: 30m x30m Pattern : Zig Zag Samples/m:4 Audio: On Threshold:10nT Reject:50 Hz
Location	Adjacent Brinsea Road	
Ref	none	
Site name	D_D Edwards #2	
Landowner	Delia and David Edwards	
Tenant	None	
HER ref		
Site type	Open land	
Description	Grazing	
Period		
Geology		
Land use	Grazing	
Survey team and conditions		
14/04/2014	Team	Peter Wright, Peter English, , Ian Morton
	weather	Sunny and warm
17/04/2014	Team	Peter Wright, Ferdi, Arthur Langley, Ann Dymock , Ian Morton
	weather	Sunny intervals
15/05/2014	Team	Peter Wright, Ferdi, Arthur Langley, Janet Dickson , Mike Fox, Ian Morton
	weather	Sunny warm

Survey area		notes		readings		
		size	walk direction	max	min	mean
Date	Grid number					
14/04/2014	Setting out grids					
17/04/2014	1	30 x 30m Mirror and return Partial grid	N	+1.7	-52.8	-5.0
	2	30 x 30m Mirror and return	N	+95	-100/0	-4.2
	3	30 x 30m	S	+99.6	-100.0	-1.0
	4	30 x 30m	S	+33.4	-30.2	-2.3
	5	30 x 30m Mirror and return	S	+19.1	-33.4	-2.8
	6	30 x 30m Mirror and return	SE	+17.7	-34.3	-2.3
	7	30 x 30m Mirror and return	SE	+99.2	-100.0	-5.1
	8	30 x 30m Mirror and return Partial grid	SE	+99.7	-100.0	-5.1
	9	30 x 30m Mirror and return Partial grid	S	-0.6	-10.5	-6.9
	10	30 x 30m Mirror and return	S	+45.7	-42.9	-3.1
15/05/2014	1	30 x 30m Mirror and return	N	+10.5	-8.5	-1.0
	2	30 x 30m	S	+8.9	-9.0	-1.2
	3	30 x 30m	S	+8.5	-18.0	-1.3
	4	30 x 30m Probable water pipe across grid Mirror and return	S	+20.1	-24.9	-1.6
	5	30 x 30m Mirror and return	S	+31.4	-84.3	-2.0
	6	30 x 30m Mirror and return	S	+6.4	-13.0	-1.6
	7	30 x 30m Mirror and return	S	+22.9	-19.3	-1.9
	8	30 x 30m Mirror and return Partial grid	S	+4.7	-46.8	-2.8

Annex 1 Setting out details

