

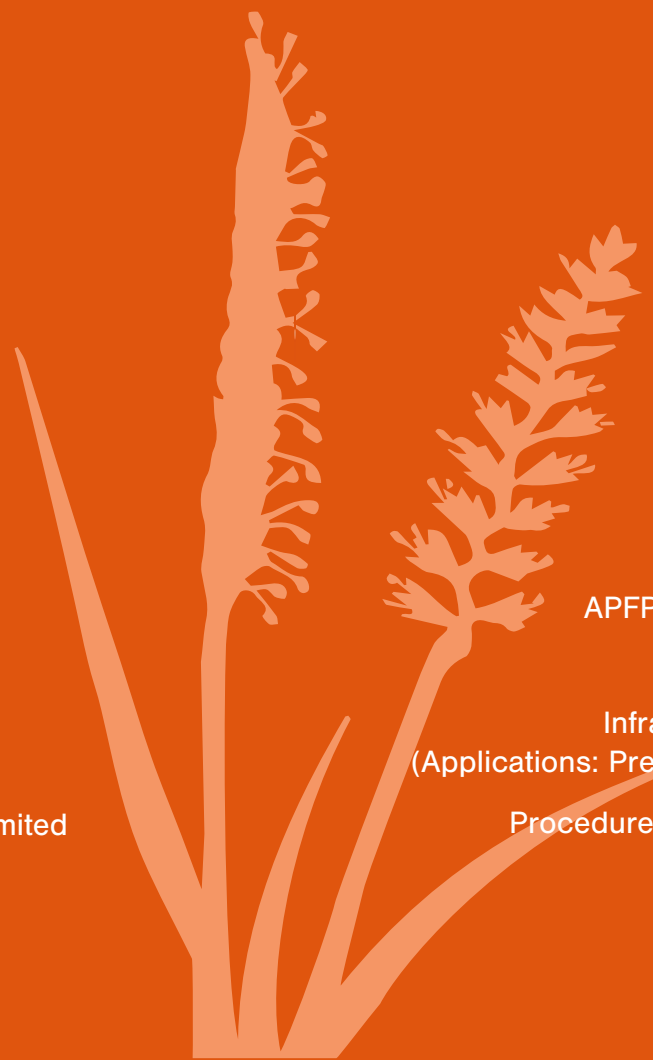
Springwell Solar Farm

Environmental Statement

Appendix 9.4: Geophysical Survey Report

Part 6

Volume 3



APFP Regulation 5(2)(a)
Planning Act 2008

Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009

EN010149/APP/6.3
November 2024
Springwell Energyfarm Limited

Document Parts

Part 1 - Geophysical Survey Report (Main Report)

Part 2 - Geophysical Survey Report (Supporting Figures 1 - 53)

Part 3 - Geophysical Survey Report (Supporting Figures 54 - 105)

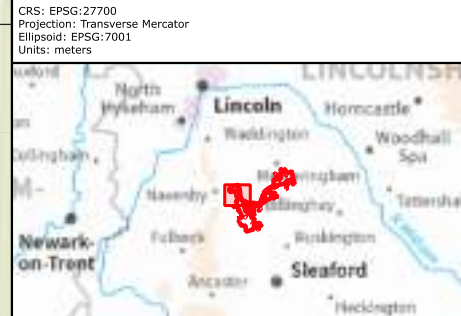
Part 4 - Geophysical Survey Report (Supporting Figures 106 - 157)

Part 5 - Geophysical Survey Report (Supporting Figures 158 - 208)

Part 6 - Geophysical Survey Report (Supporting Figures 209 – 229)



- Legend**
- Grid Collection Survey Area
 - Survey Extent
 - Location and Direction for Figure 02 to 04
 - GPS Swaths
 - Historic Environment Record Asset Line Data
 - Solar Farm Survey Area
 - Previous Geophysical Survey
 - Order Limits



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

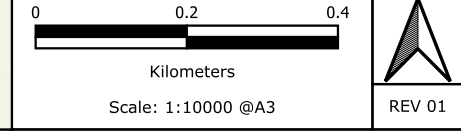
Springwell Solar Farm



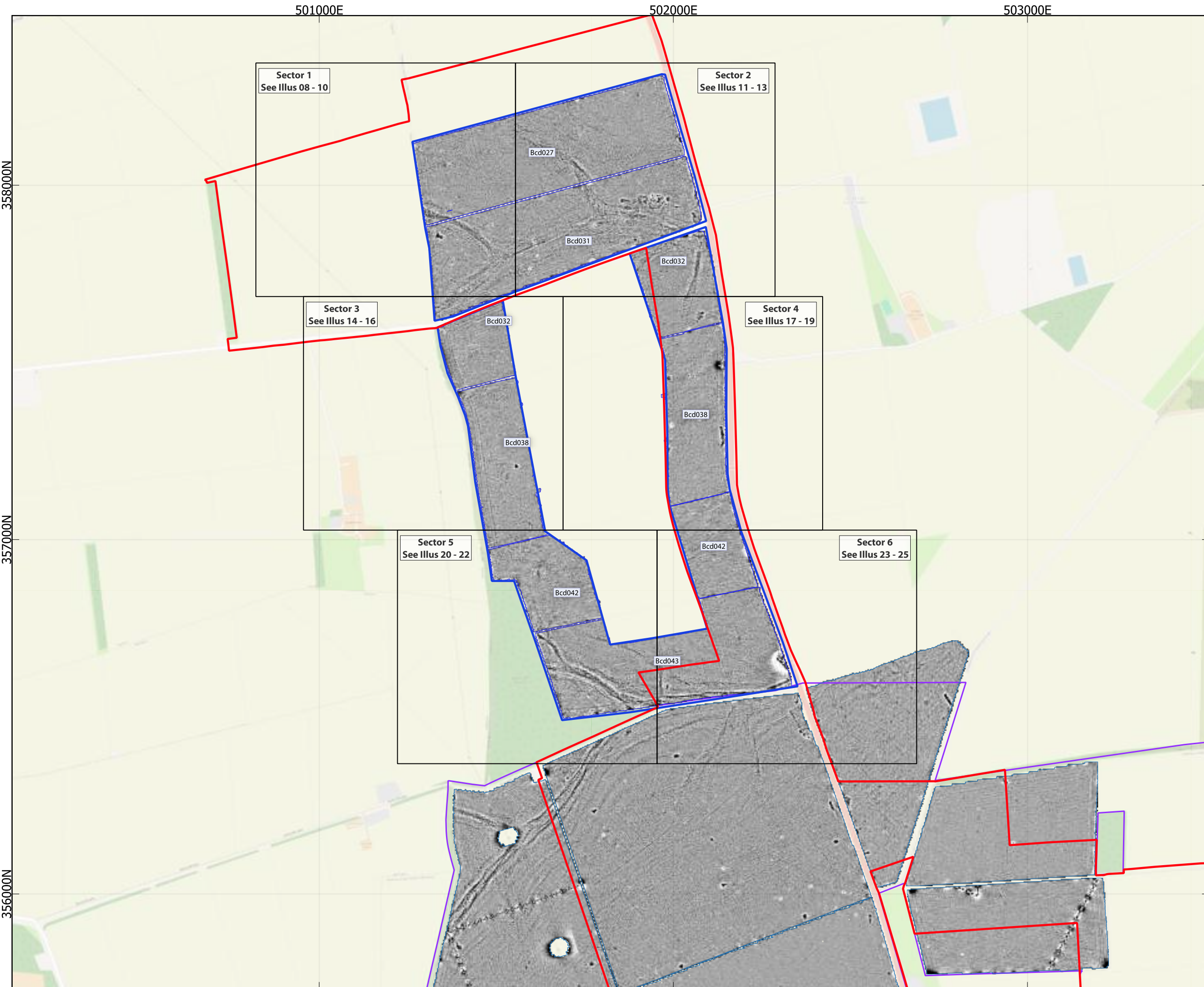
DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 209- Survey location showing GPS swaths and photograph locations

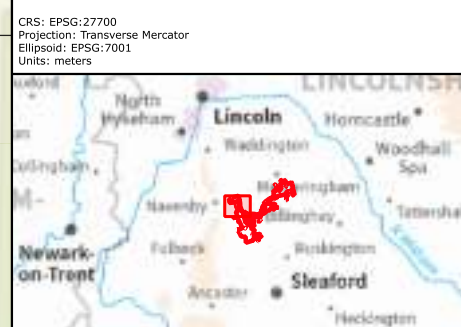
PINS REFERENCE NUMBER: EN010149/APP/6.3



Attribution: Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). © <https://www.openstreetmap.org> and contributors.



- Legend**
- Grid Collection Survey Area
 - Survey Extent
 - Area for Figure 08 to 25
 - Solar Farm Survey Area
 - Previous Geophysical Survey
 - Order Limits



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

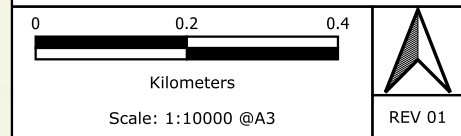
Springwell Solar Farm



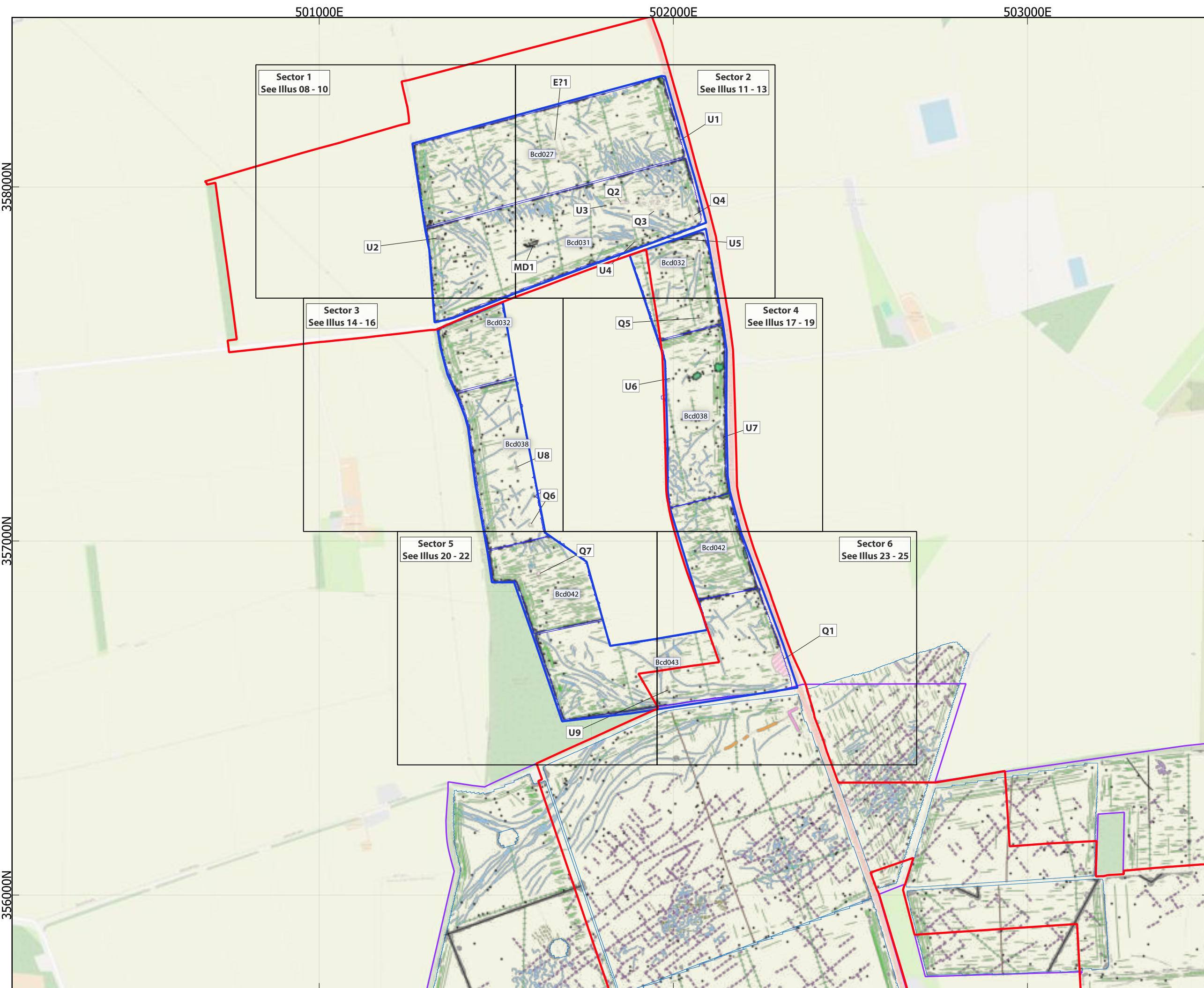
DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 210- Overall greyscale plot of processed magnetometer data

PINS REFERENCE NUMBER: EN010149/APP/6.3



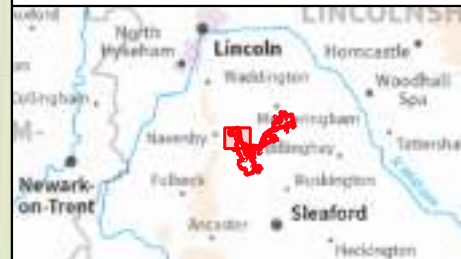
Attribution: Base map and data from OpenStreetMap and OpenStreetMap Foundation (CC-BY-SA). © <https://www.openstreetmap.org> and contributors.



- ### Legend
- Grid Collection Survey Area
 - Survey Extent
 - Area for Figure 08 to 25
 - Nominal Layer
 - Solar Farm Survey Area
 - Previous Geophysical Survey
 - Ferrous Objects
 - Agriculture
 - Field Boundary
 - Possible Field Boundary
 - Field Drain
 - Natural
 - Pipe
 - Uncertain
 - Ridge and Furrow
 - Field System
 - Possible Archaeology
 - Quarry
 - Archaeology
 - Magnetic Disturbance
 - Possible Archaeology
 - Quarry
 - Uncertain
 - Order Limits

Abbreviation	
U	Uncertain
Q	Quarrying
E?	Enclosure?
MD	Magnetic Disturbance

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



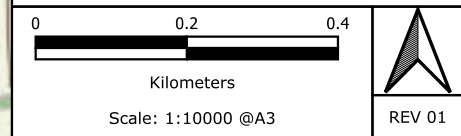
Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 211- Overall interpretation of magnetometer data

PINS REFERENCE NUMBER: EN010149/APP/6.3




500800E 501000E 501200E 501400E 501600E

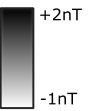
358200N

358000N

357800N

Legend

 Survey Extent



CRS: EPSG:27700
Projection: Transverse Mercator
Ellipsoid: EPSG:7001
Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

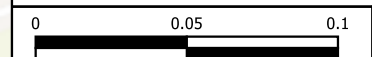
Springwell Solar Farm



DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3: APPENDIX 9.3
Regulation 5(2)(a)

TITLE: Figure 212- Processed greyscale magnetometer data; Sector 1

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01



500800E 501000E 501200E 501400E 501600E

358200N

358000N

357800N

Legend

-  Survey Extent
-  XY_Trace(25nT/cm)

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

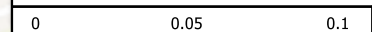
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 213- XY trace plot of minimally processed magnetometer data; Sector 1

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

500800E 501000E 501200E 501400E 501600E

358200N

358000N

357800N

Legend

- Survey Extent
- Ferrous Objects
- Agriculture
- Field Drain
- Natural
- Nominal Layer
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Uncertain

Abbreviation

U	Uncertain
Q	Quarrying
E?	Enclosure?
MD	Magnetic Disturbance

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

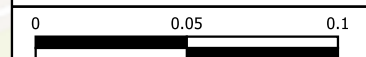
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE:
 Figure 214- Interpretation of
 magnetometer data; Sector 1

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

501600E

501800E

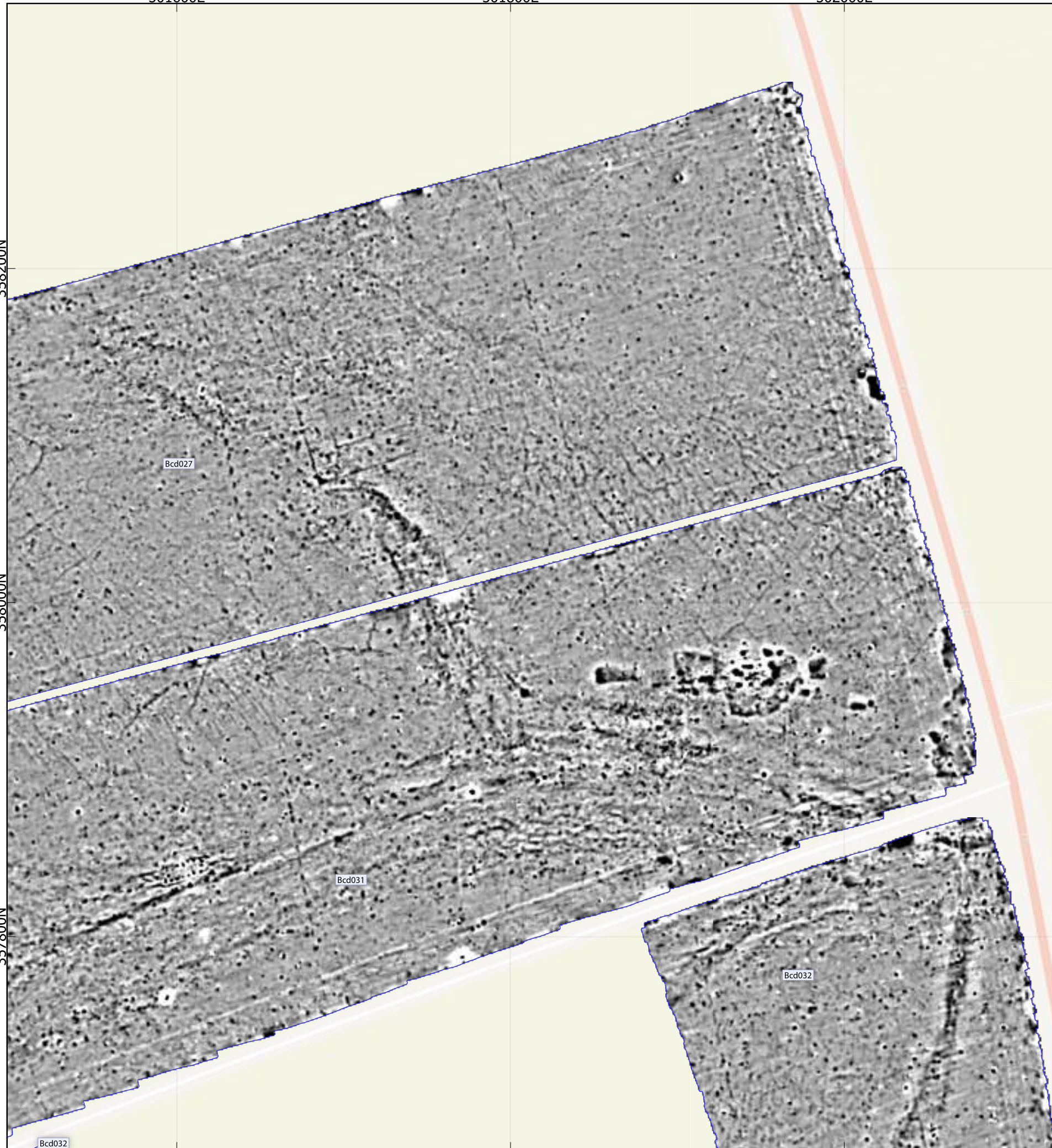
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502200E


358200N

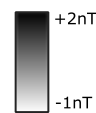
358000N

357800N



Legend

 Survey Extent



CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

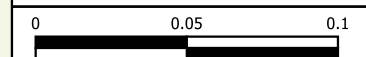
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 215- Processed greyscale magnetometer data; Sector 2

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

501600E

501800E

502000E



502200E

358200N

358000N

357800N

Legend

-  Survey Extent
-  XY_Trace(25nT/cm)

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

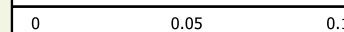
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 216- XY trace plot of
 minimally processed magnetometer
 data; Sector 2

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

501600E

501800E

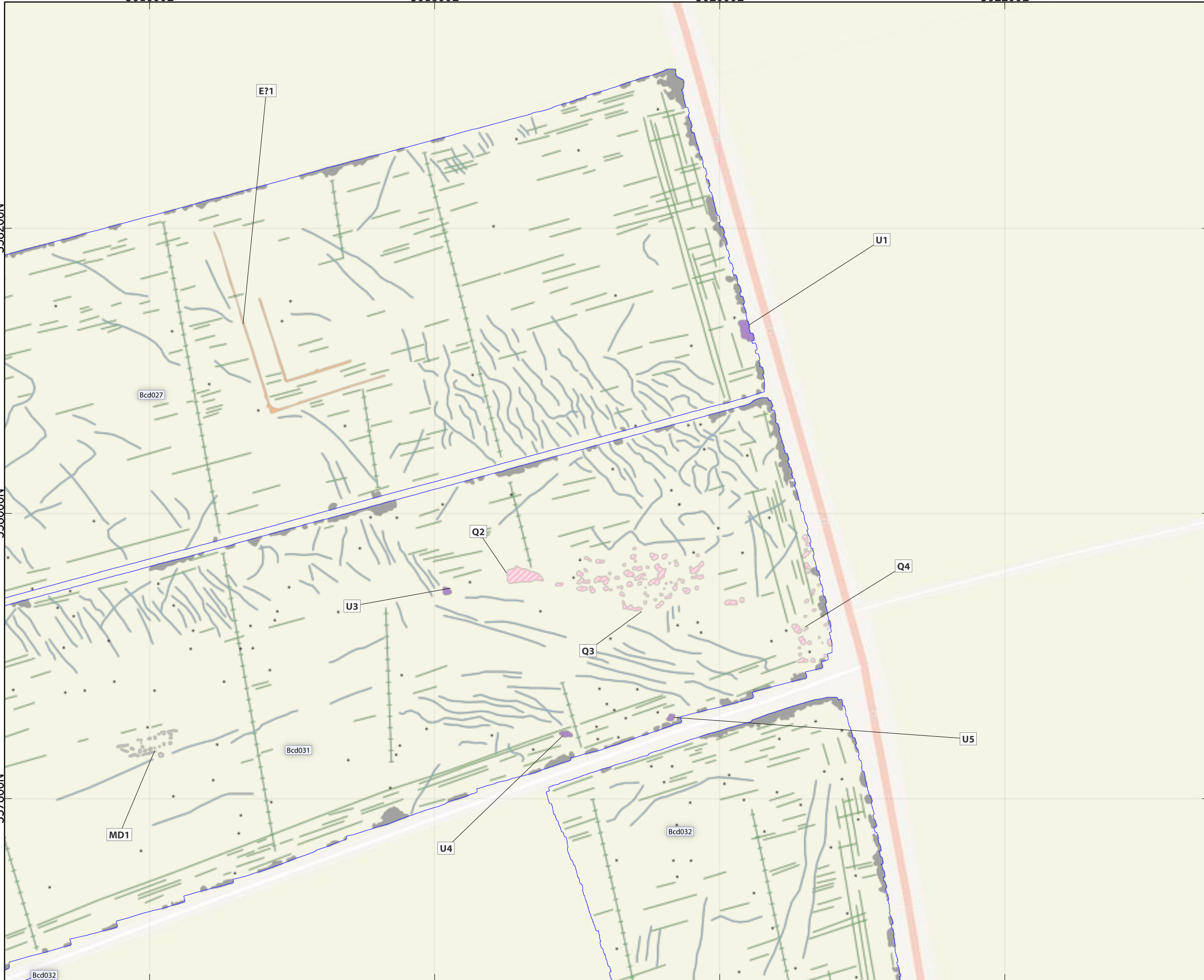
502000E

502200E

358200N

358000N

357800N



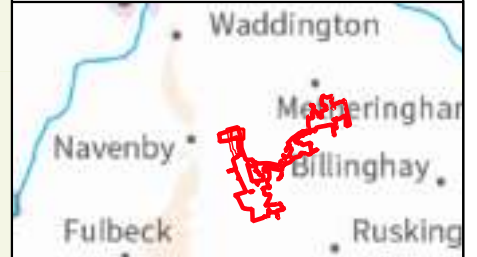
Legend

- Survey Extent
- Ferrous Objects
- Agriculture
- Field Drain
- Natural
- Nominal Layer
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Possible Archaeology
- Quarry
- Uncertain

Abbreviation

U	Uncertain
Q	Quarrying
E?	Enclosure?
MD	Magnetic Disturbance

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



01	NOV 2024	DCO Submission	RSK	RSK	EDF
Rev	Date	Description	Drn	Chk	App

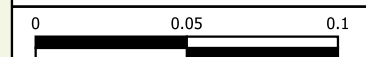
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 217- Interpretation of magnetometer data; Sector 2

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

501000E

501200E

501400E


501600E

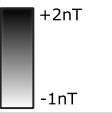
357600N

357400N

357200N

Legend

 Survey Extent



CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

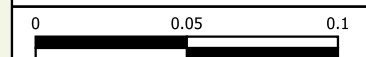
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 218- Processed greyscale magnetometer data; Sector 3

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

501000E

501200E

501400E



501600E

357600N

357400N

357200N

Legend

-  Survey Extent
-  XY_Trace(25nT/cm)

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

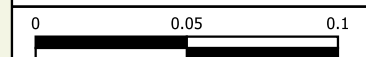
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 219-XY trace plot of minimally processed magnetometer data; Sector 3

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

501000E

501200E

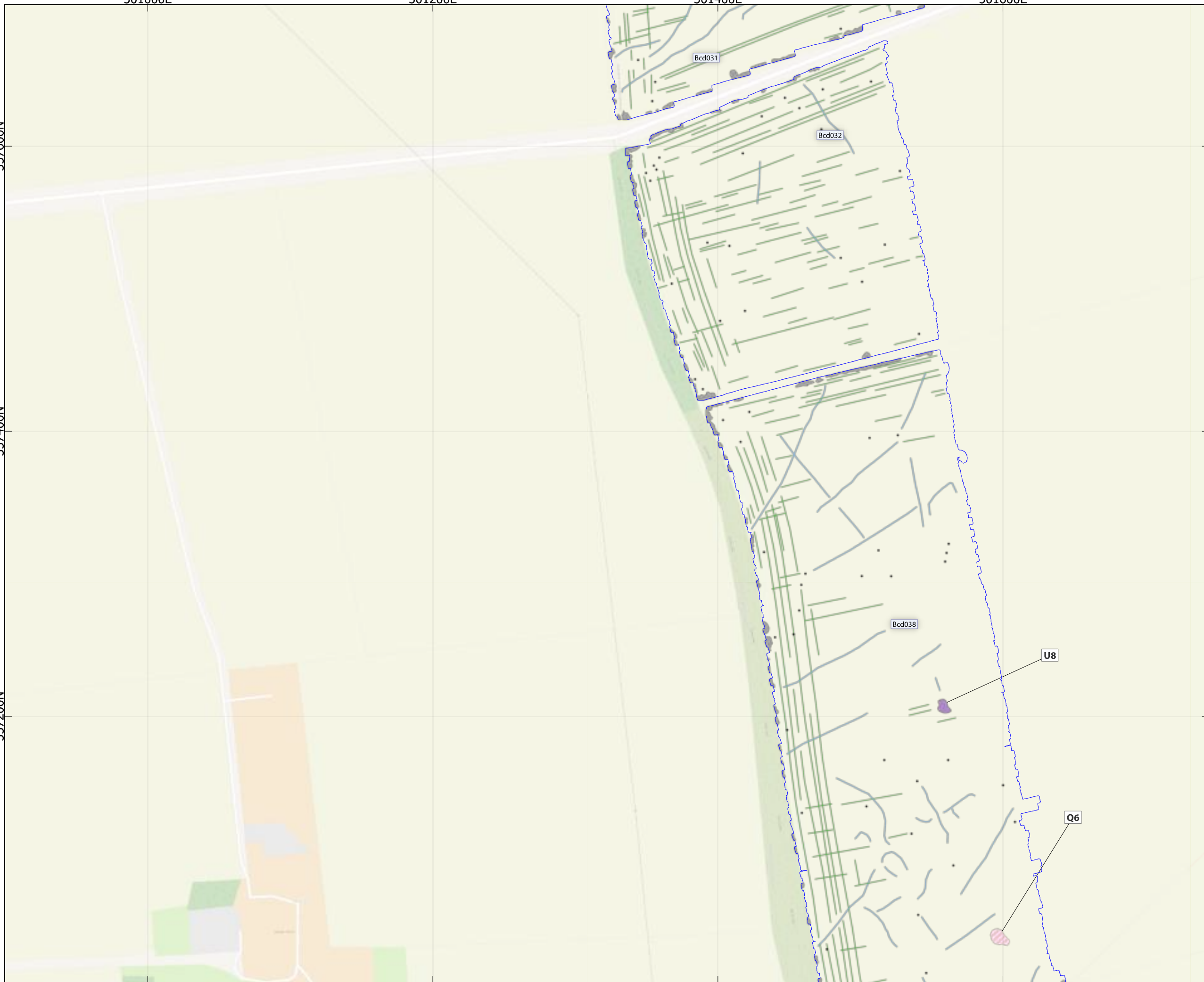
501400E

501600E

357600N

357400N

357200N



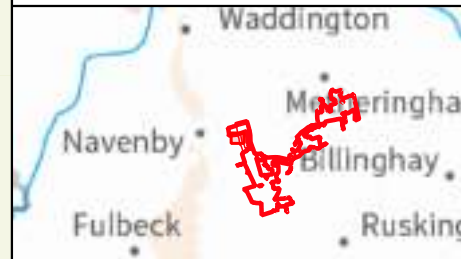
Legend

- Survey Extent
- Ferrous Objects
- Agriculture
- Field Drain
- Natural
- Nominal Layer
- Magnetic Disturbance (Above Ground)
- Quarry
- Uncertain

Abbreviation

U	Uncertain
Q	Quarrying
E?	Enclosure?
MD	Magnetic Disturbance

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

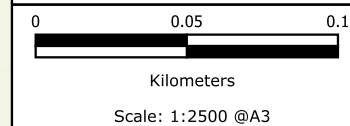
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 220- Interpretation of magnetometer data; Sector 3

PINS REFERENCE NUMBER: EN010149/APP/6.3



501800E

502000E

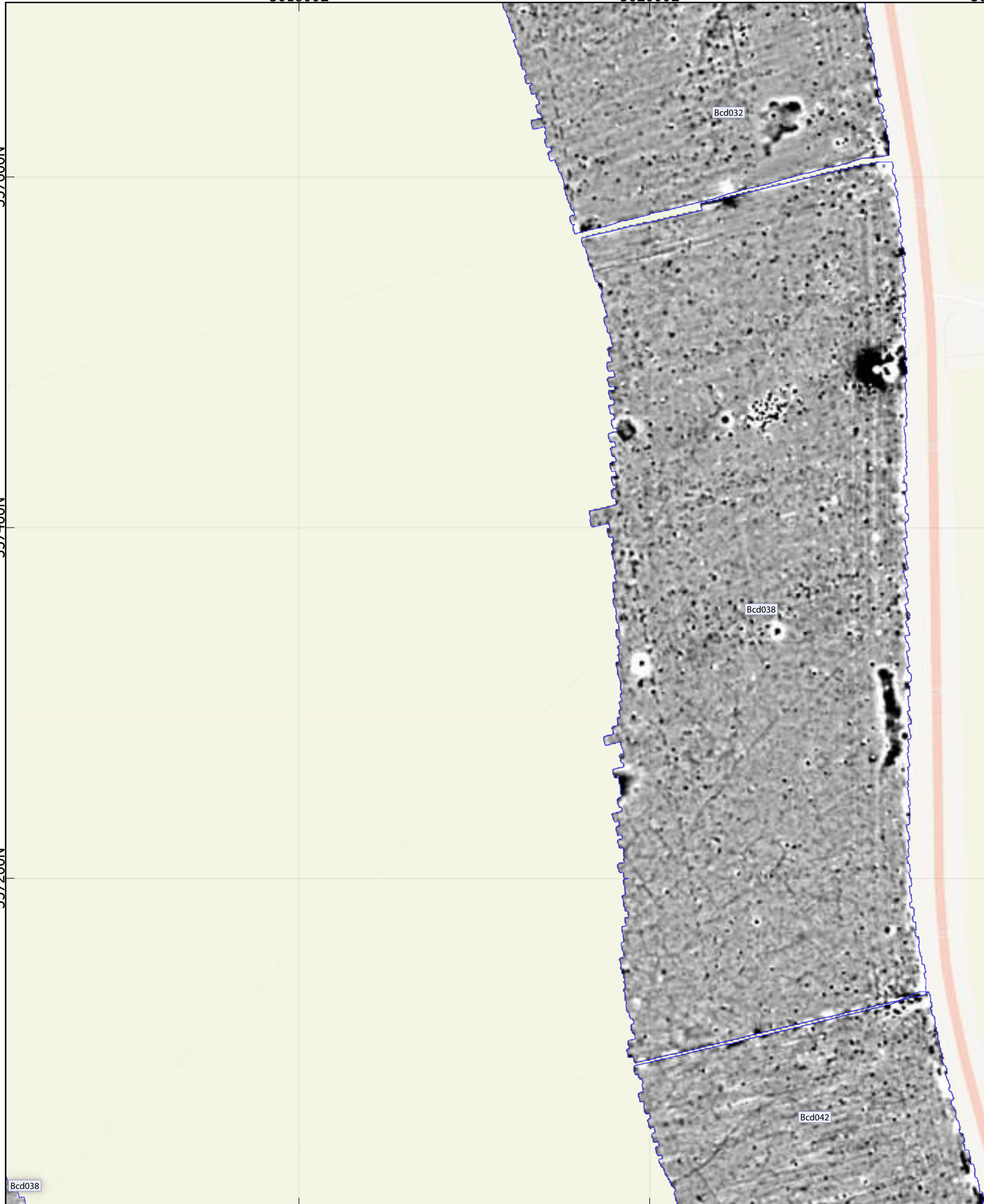
502200E

502400E


357600N

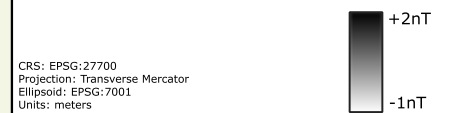
357400N

357200N

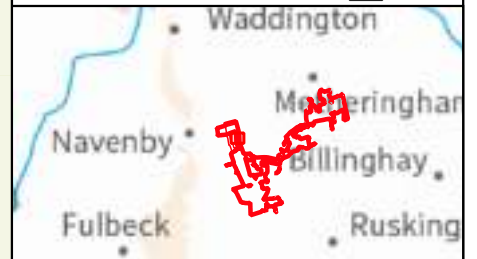


Legend

 Survey Extent



CRS: EPSG:27700
Projection: Transverse Mercator
Ellipsoid: EPSG:7001
Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

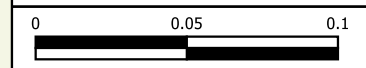
Springwell Solar Farm



DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3: APPENDIX 9.3
Regulation 5(2)(a)

TITLE: Figure 221- Processed greyscale magnetometer data; Sector 4

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

Bcd038

501800E

502000E

502200E



502400E

357600N

357400N

357200N

Legend

-  Survey Extent
-  XY_Trace(25nT/cm)

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

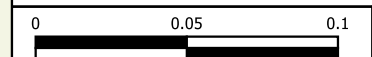
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 222-XY trace plot of minimally processed magnetometer data; Sector 4

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

Bcd038

Bcd032

Bcd038

Bcd042

501800E

502000E

502200E

502400E

357600N

357400N

357200N

Legend

- Survey Extent
- Ferrous Objects
- Agriculture
- Field Drain
- Natural
- Nominal Layer
- Magnetic Disturbance (Above Ground)
- Magnetic Disturbance (Below Ground)
- Quarry
- Uncertain

Abbreviation

U	Uncertain
Q	Quarrying
E?	Enclosure?
MD	Magnetic Disturbance

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

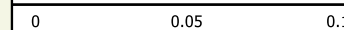
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 223- Interpretation of magnetometer data; Sector 4

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01

Q5

U6

U7

Q6

Bcd032


Bcd038

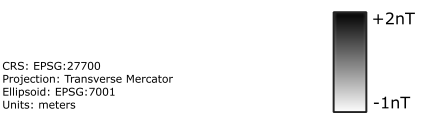
Bcd042

Bcd038

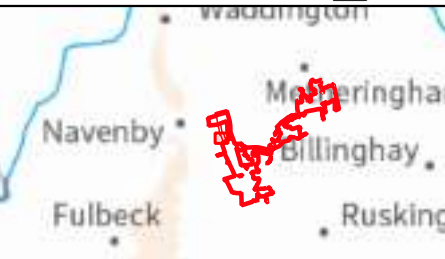


Legend

 Survey Extent



CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



01	NOV 2024	DCO Submission	RSK	RSK	EDF
Rev	Date	Description	Drn	Chk	App

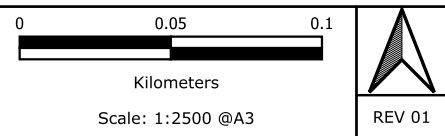
Springwell Solar Farm

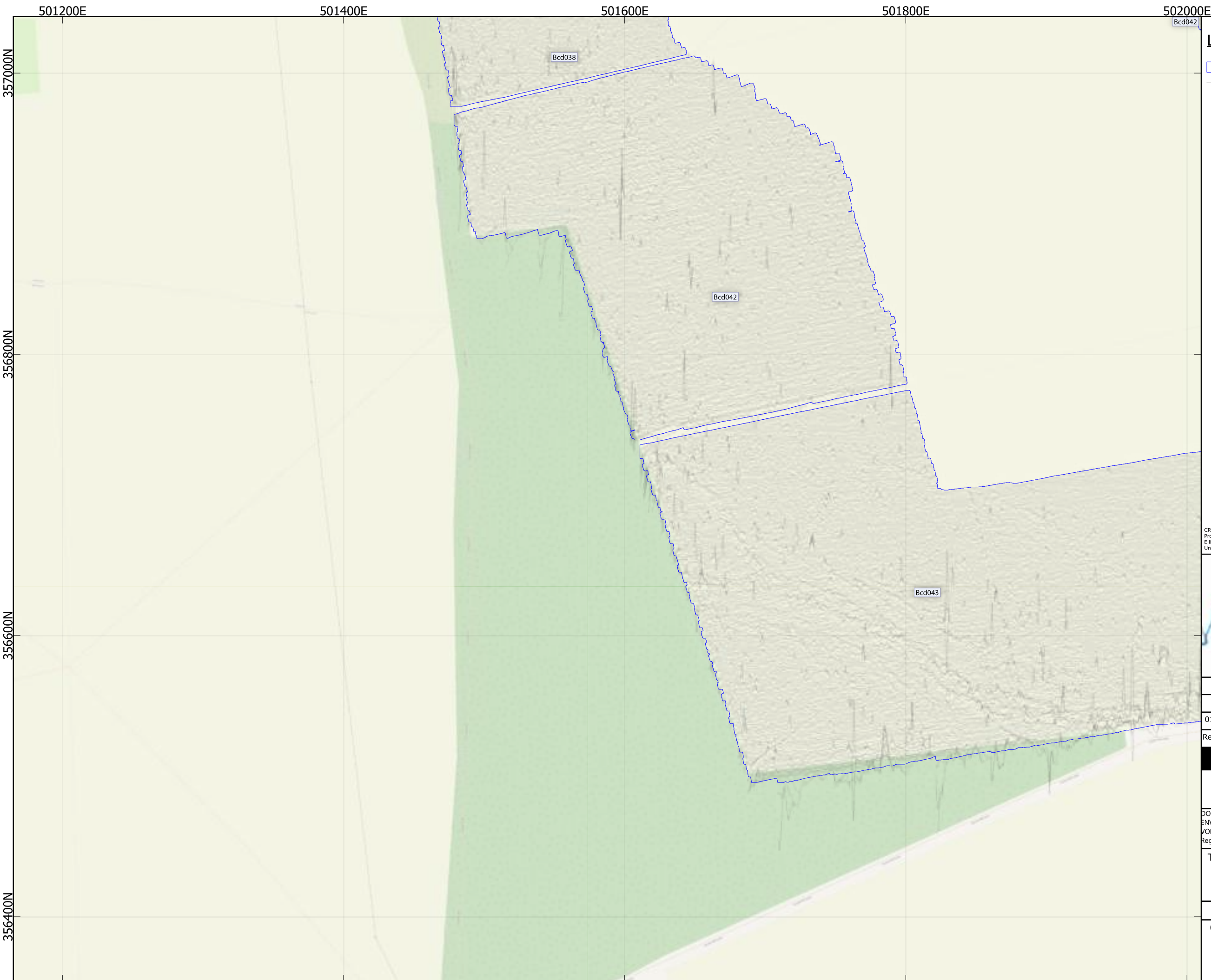


DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 224- Processed greyscale magnetometer data; Sector 5

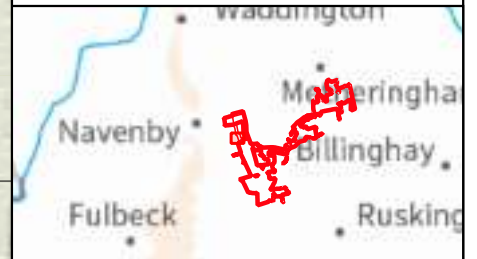
PINS REFERENCE NUMBER: EN010149/APP/6.3





Legend
 Survey Extent
 XY_Trace(25nT/cm)

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

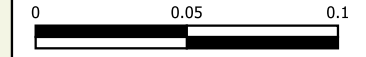
Springwell Solar Farm



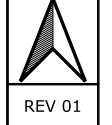
DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 225- XY trace plot of minimally processed magnetometer data; Sector 5

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers
 Scale: 1:2500 @A3



REV 01



- ### Legend
- Survey Extent
 - Ferrous Objects
 - Agriculture
 - Field Drain
 - Natural
 - Nominal Layer
 - Magnetic Disturbance (Above Ground)
 - Quarry
 - Uncertain

Abbreviation

U	Uncertain
Q	Quarrying
E?	Enclosure?
MD	Magnetic Disturbance

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



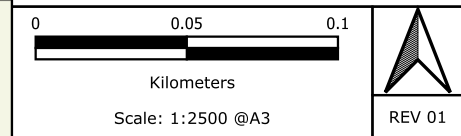
Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE:
 Figure 226- Interpretation of magnetometer data; Sector 5

PINS REFERENCE NUMBER: EN010149/APP/6.3



502000E

502200E

502400E

502600E

357000N

356800N

356600N

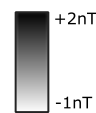
356400N

Bcd042

Bcd043

Legend

 Survey Extent



CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

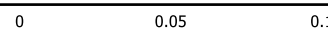
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 227- Processed greyscale magnetometer data; Sector 6

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers
 Scale: 1:2500 @A3



REV 01

502000E

502200E

502400E

502600E

357000N

356800N

356600N

356400N

Bcd042

Bcd043

Legend

- Survey Extent
- XY_Trace(25nT/cm)

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drm	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

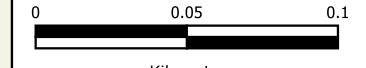
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE: Figure 228- XY trace plot of minimally processed magnetometer data; Sector 6

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers
 Scale: 1:2500 @A3



REV 01

502000E

502200E

502400E

502600E

357000N

356800N

356600N

356400N

Bcd042

Bcd043

Q1

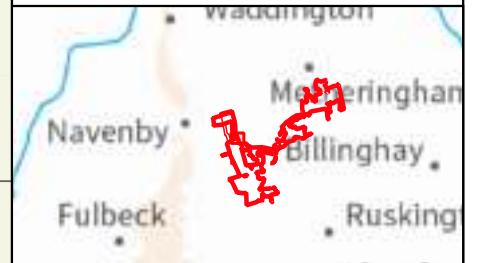
Legend

- Survey Extent
- Ferrous Objects
- Agriculture
- Field Drain
- Natural
- Nominal Layer
- Magnetic Disturbance (Above Ground)
- Quarry
- Uncertain

Abbreviation

U	Uncertain
Q	Quarrying
E?	Enclosure?
MD	Magnetic Disturbance

CRS: EPSG:27700
 Projection: Transverse Mercator
 Ellipsoid: EPSG:7001
 Units: meters



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO Submission	RSK	RSK	EDF

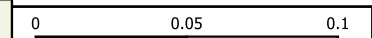
Springwell Solar Farm



DOCUMENT:
 ENVIRONMENTAL STATEMENT
 VOLUME 3: APPENDIX 9.3
 Regulation 5(2)(a)

TITLE:
 Figure 229- Interpretation of
 magnetometer data; Sector 6

PINS REFERENCE NUMBER: EN010149/APP/6.3



Kilometers

Scale: 1:2500 @A3



REV 01



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