RWE

Tween Bridge Solar Farm

Environmental Statement
Appendix 8.2: Geophysical Survey Report – Part 5

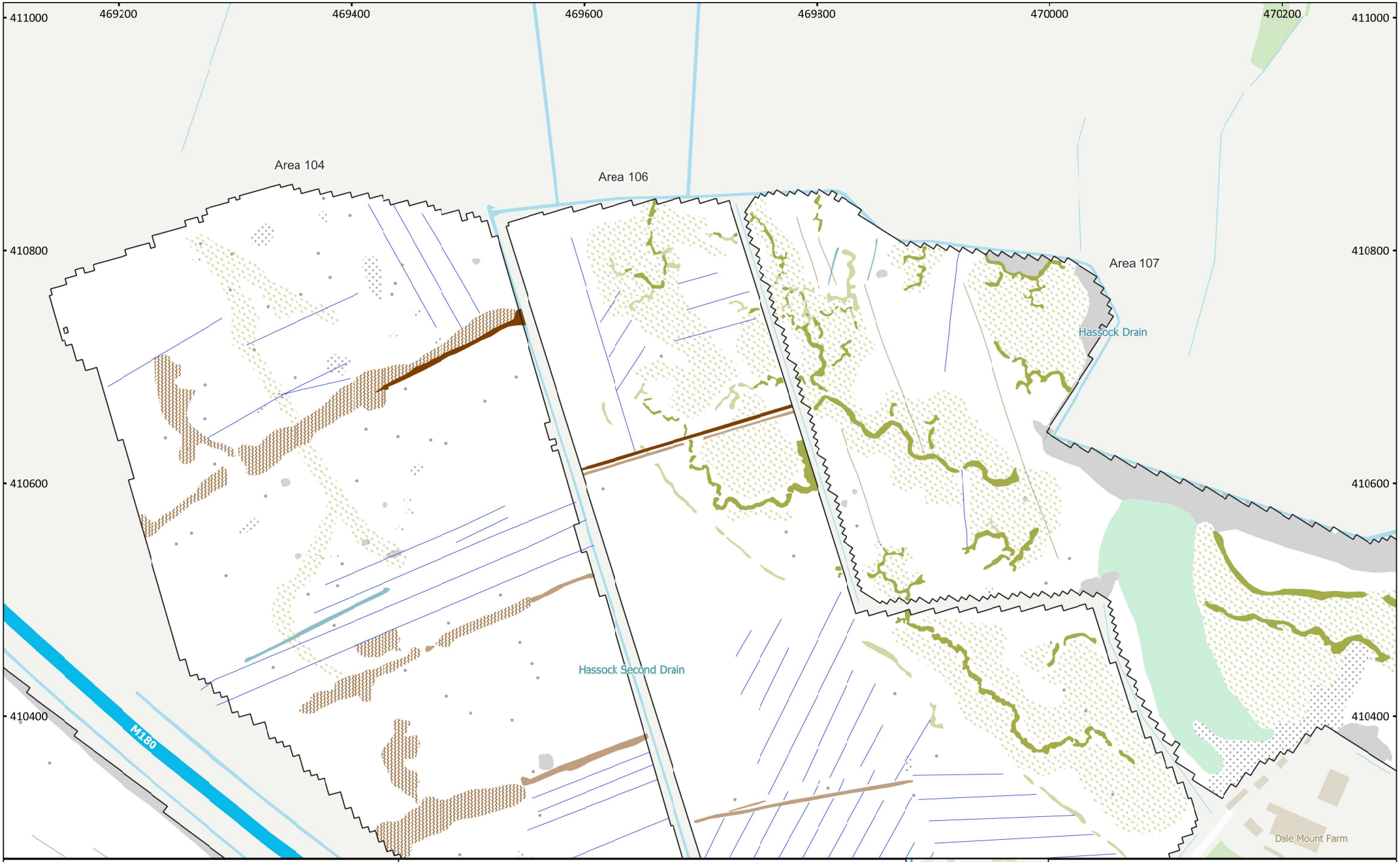
Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

APFP Regulation 5(2)(a)

Document Reference: 6.3.8.2

August 2025

Revision 1



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincclnshire
Figure 93 - Vlagnetic Interpretation (Areas 104, 106, 107 & 117)
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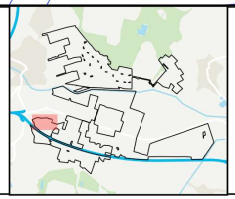

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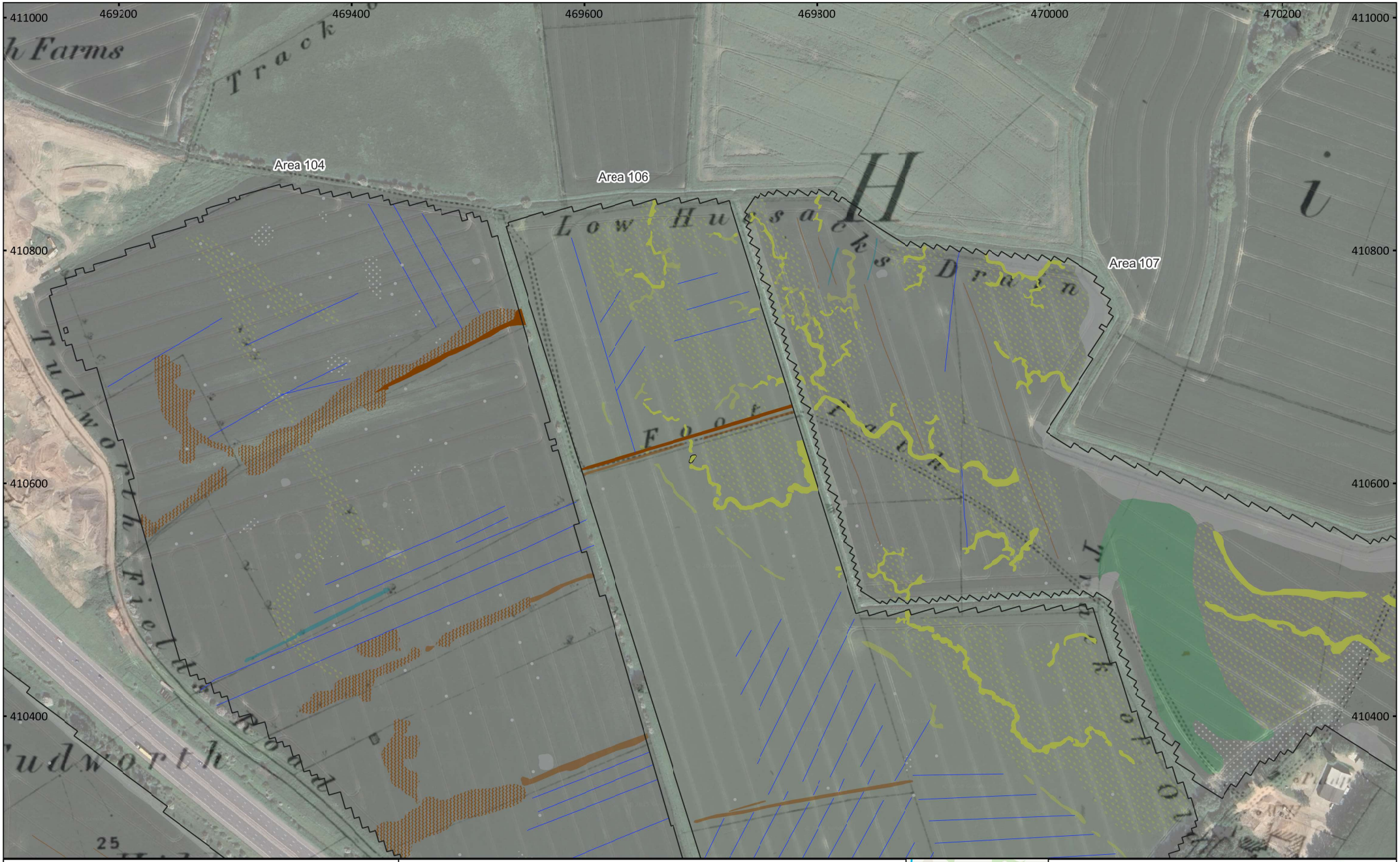
0 50 100 150 m

magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 94 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
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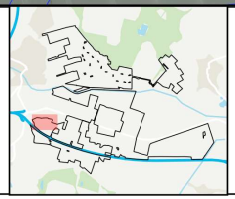
- Agricultural (Strong)
- Agricultural (Weak)
- Agricultural (Spread)
- Natural (Strong)
- Natural (Weak)
- Natural (Spread)
- Palaeochannel
- Undetermined (Weak)
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Agricultural (Trend)
- Drainage Feature
- Ferrous (Spike)



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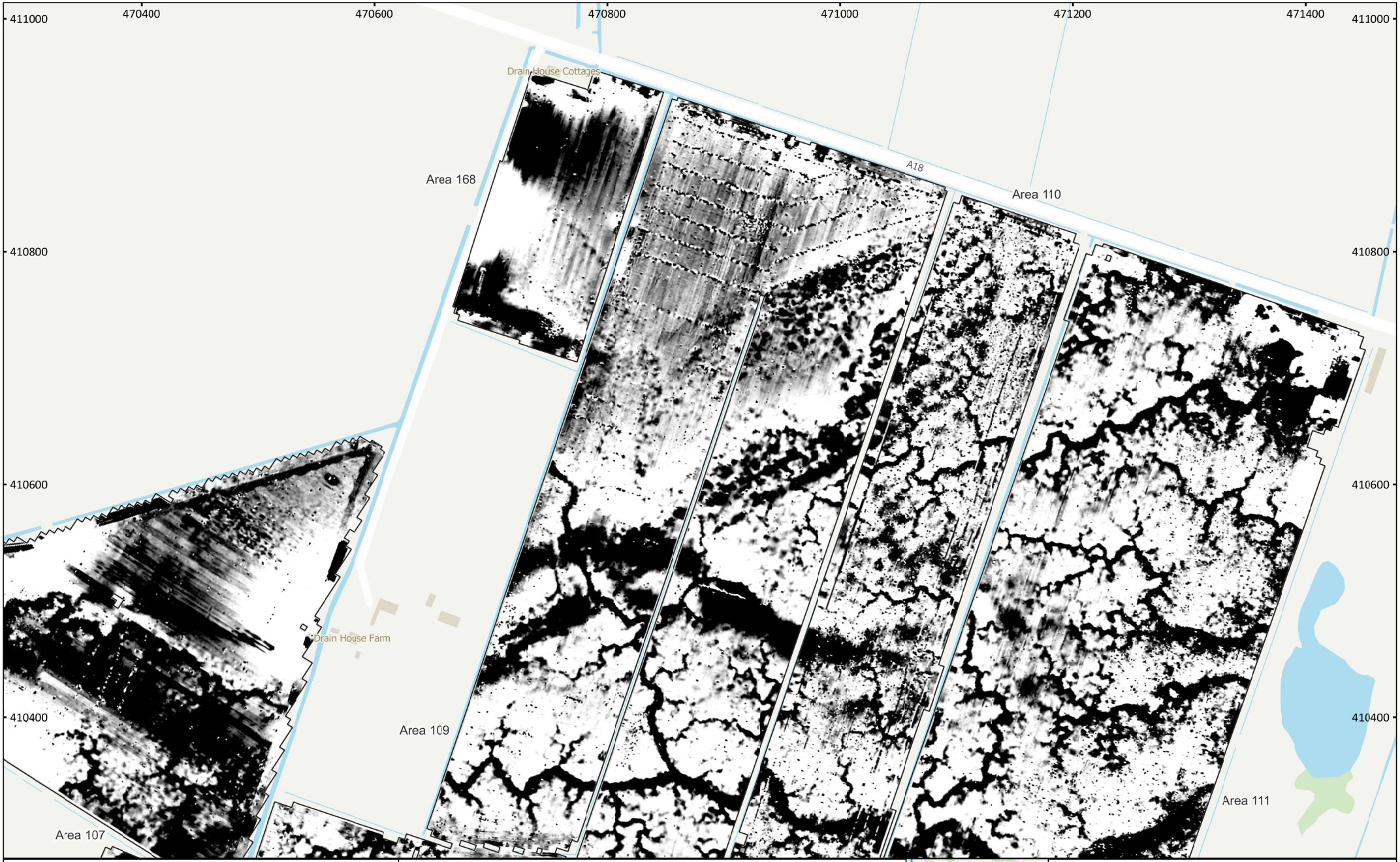
magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 95 - Magnetic Total Field (Lower Sensor) (Areas 107, 109, 110, 111 & 168)
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48997 nT 49005

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0 50 100 150 m

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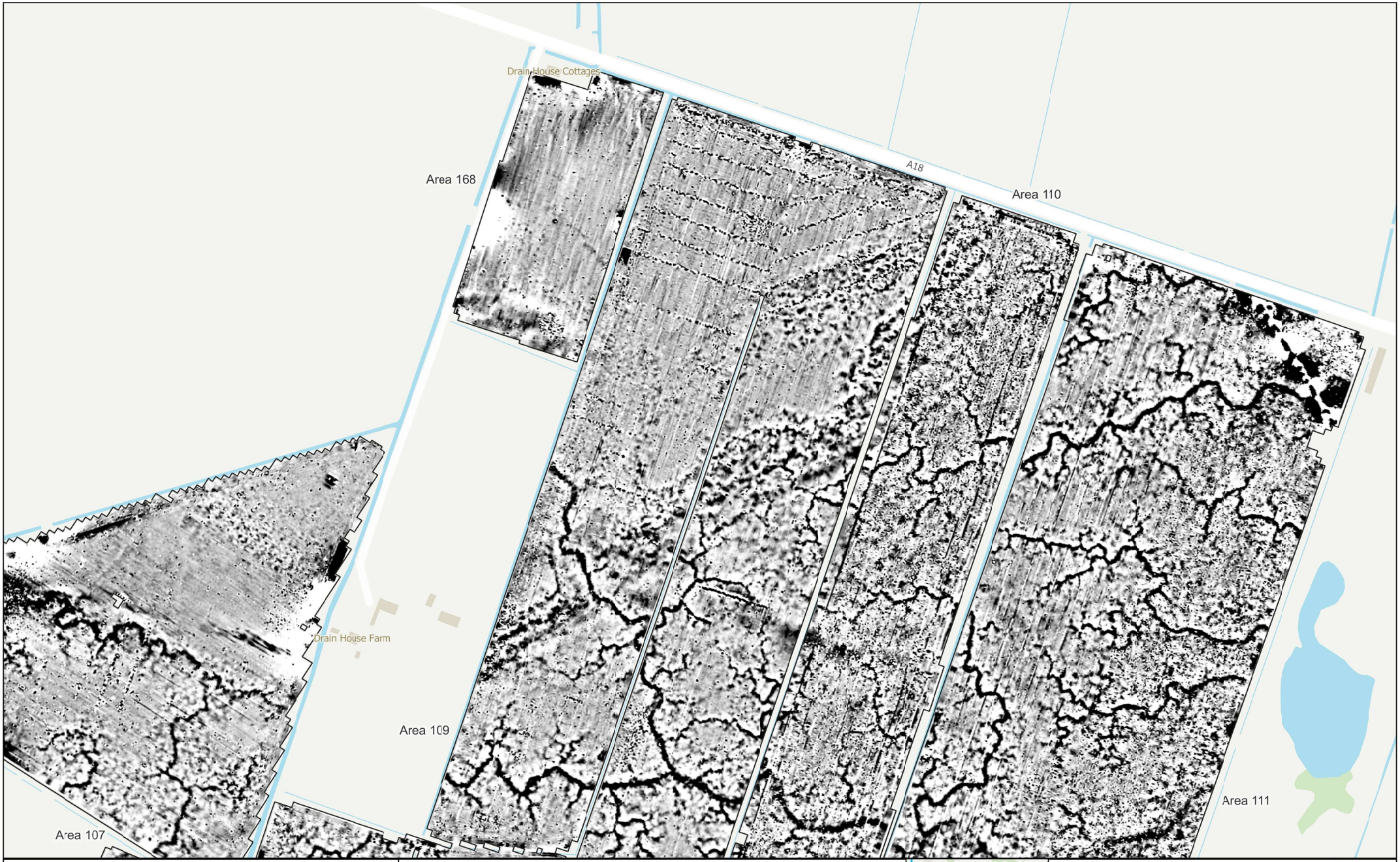

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 96 - Magnetic Gradient (Areas 107, 109, 110, 111 & 168)
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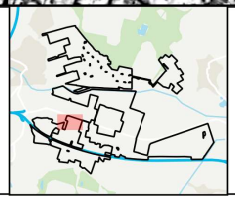

N

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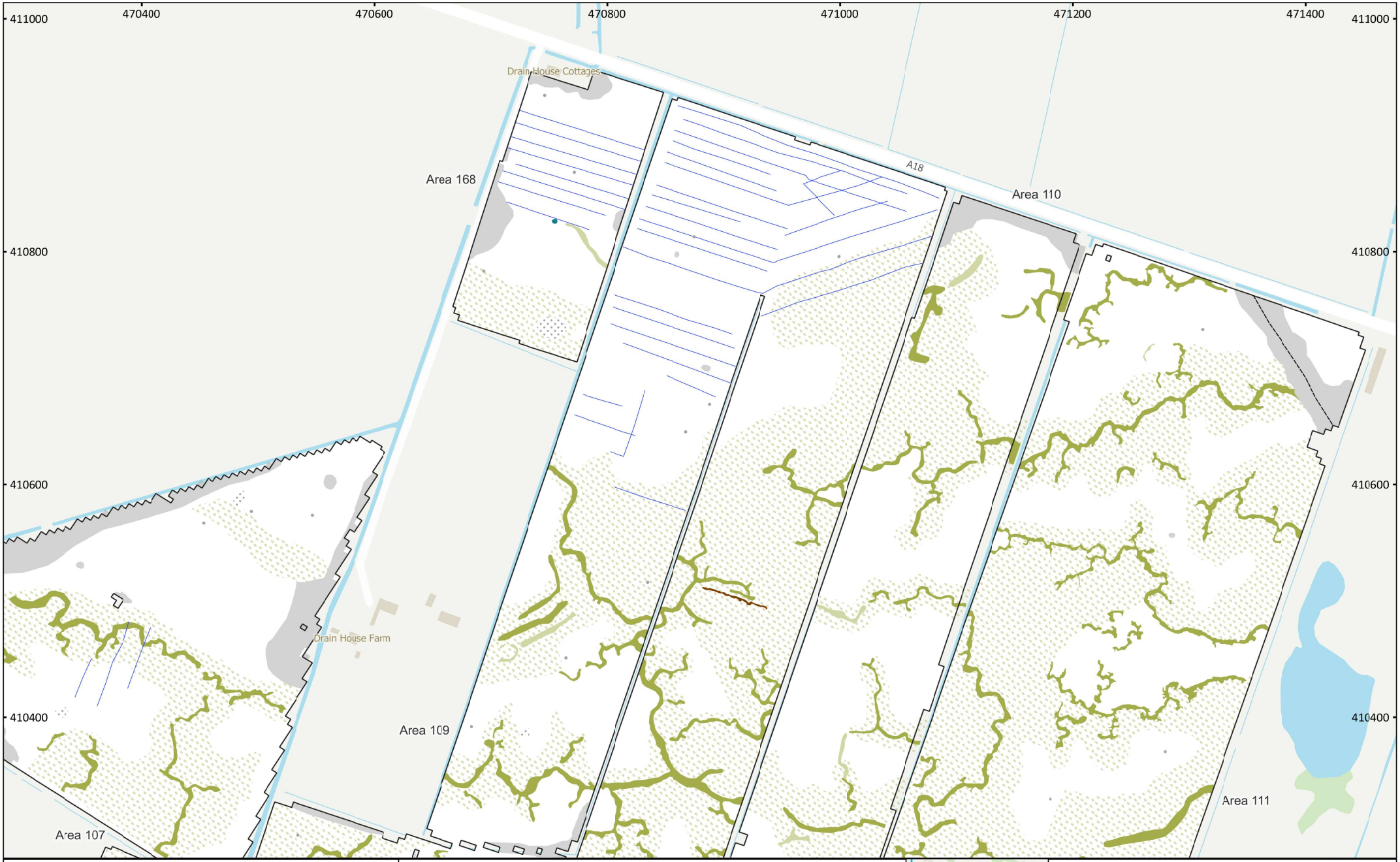
magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 97 - Magnetic Interpretation (Areas 107, 109, 110, 111 & 168)
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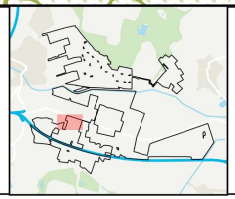

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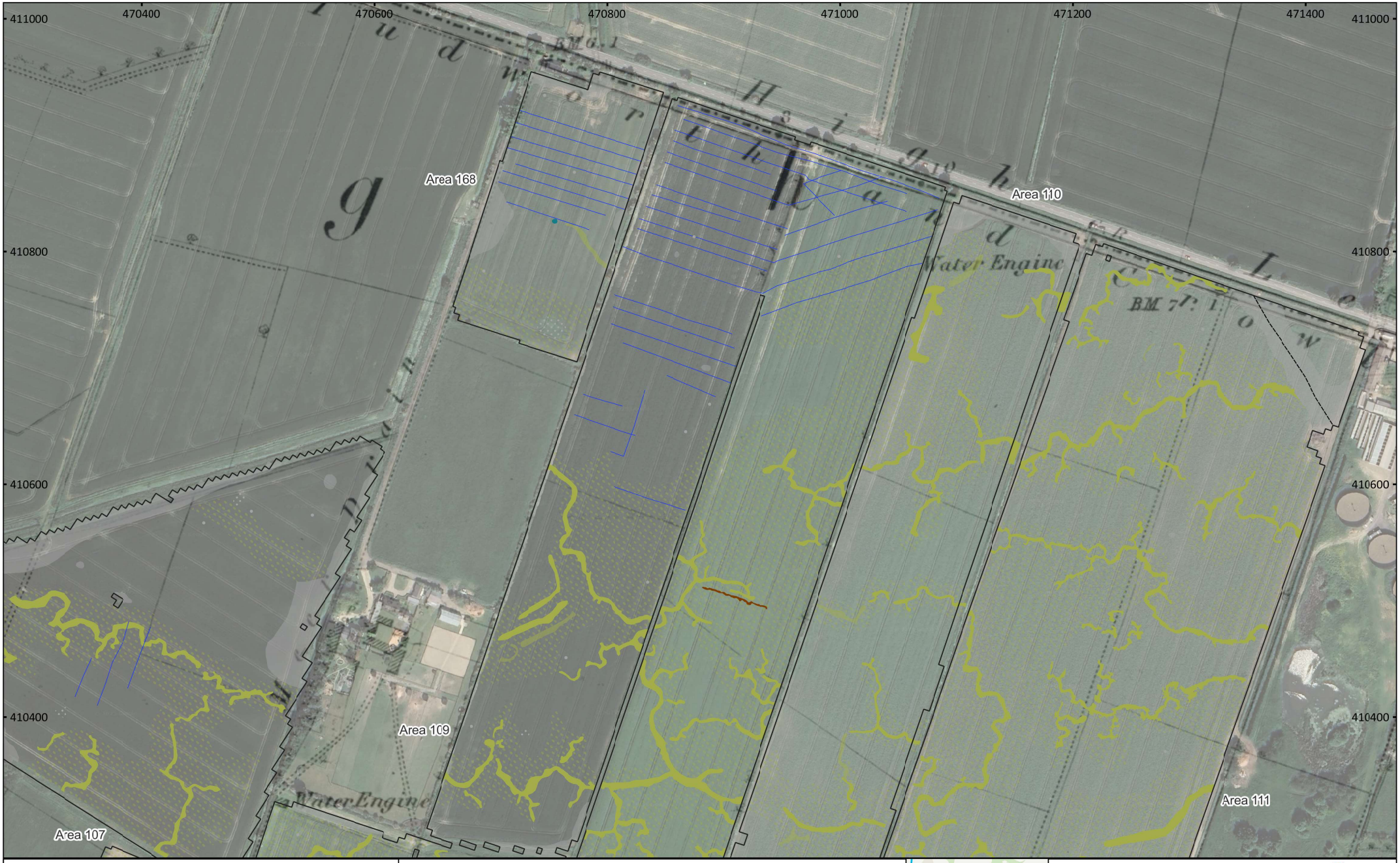
0 50 100 150 m

magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 98 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
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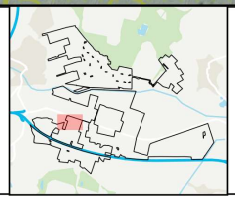
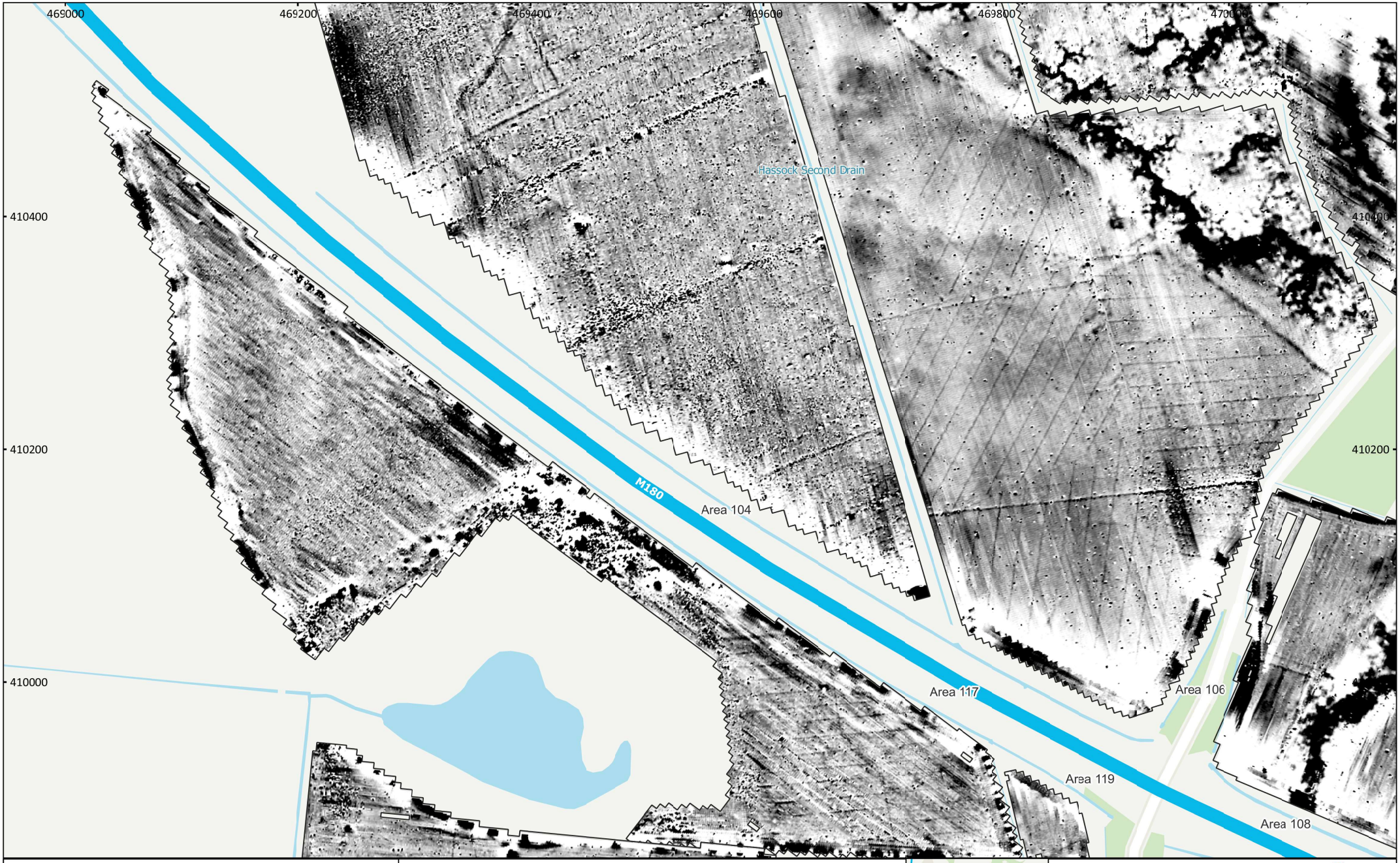
- Agricultural (Strong)
- Natural (Strong)
- Natural (Weak)
- Natural (Spread)
- Undetermined (Strong)
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Service
- Drainage Feature
- Ferrous (Spike)



N

0 50 100 150 m

magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 99 - Magnetic Total Field (Lower Sensor) (Areas 104, 106, 107, 108, 117 & 119)
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48997 nT 49005

N

0 50 100 150 m

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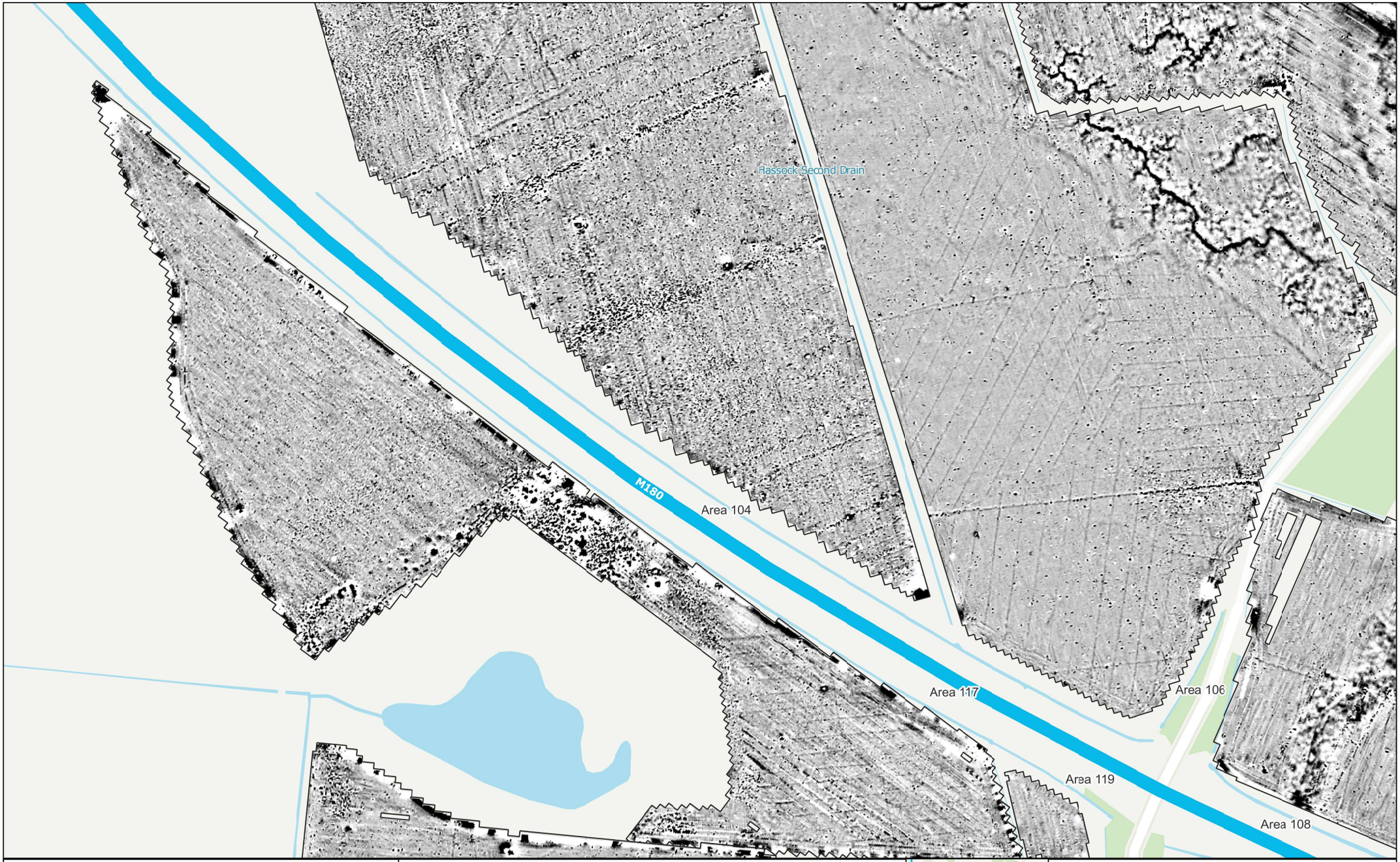

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 100 - Magnetic Gradient (Areas 104, 106, 107, 108, 117 & 119)
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0 50 100 150 m

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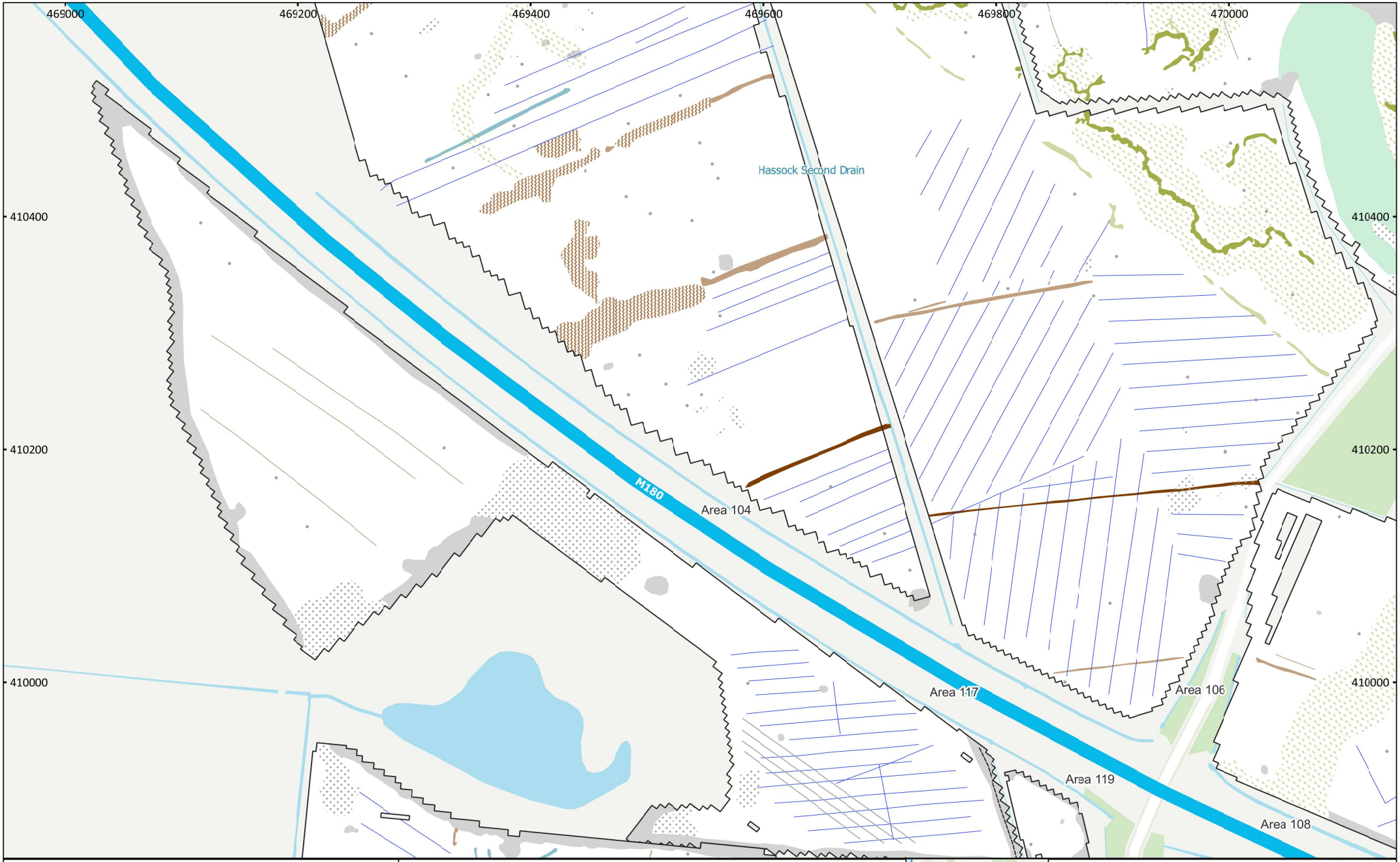

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 101 - Magnetic Interpretation (Areas 104, 106, 107, 108, 117 & 119)
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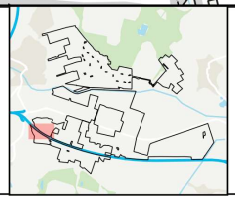

N

0 50 100 150 m

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MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 102 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
1:3,000 @ A3
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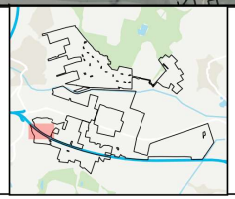
- Agricultural (Strong)
- Agricultural (Weak)
- Agricultural (Spread)
- Natural (Strong)
- Natural (Weak)
- Natural (Spread)
- Palaeochannel
- Undetermined (Weak)
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Agricultural (Trend)
- Data Artefact
- Service
- Drainage Feature
- Ferrous (Spike)



N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 103 - Magnetic Total Field (Lower Sensor) (Areas 104, 106, 108, 117, 118, 119, 120 & 121)
1:3,000 @ A3
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48997 nT 49005

N

0 50 100 150 m

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MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 104 - Magnetic Gradient (Areas 104, 106, 108, 117, 118, 119, 120 & 121)
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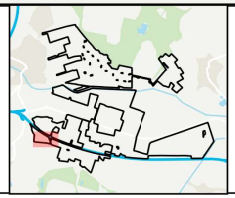

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0 50 100 150 m

magnitude surveys

469200
469400
469600
469800
470000
470200
410000
409800
409600
Area 104
Area 117
Area 106
Area 119
M180
Area 108
Sandtoft Road
Area 118
Area 120 Low Levels Bank
Stoupersgate Farm
Area 121

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 105 - Magnetic Interpretation (Areas 104, 106, 108, 117, 118, 119, 120 & 121)
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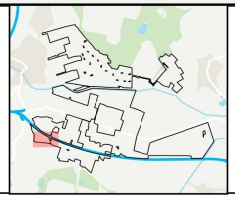

N

0 50 100 150 m

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MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 106 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
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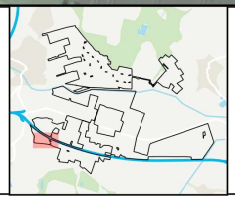
- Agricultural (Strong)
- Agricultural (Weak)
- Natural (Weak)
- Natural (Spread)
- Palaeochannel
- Undetermined (Weak)
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Agricultural (Trend)
- Data Artefact
- Service
- Drainage Feature
- Ferrous (Spike)



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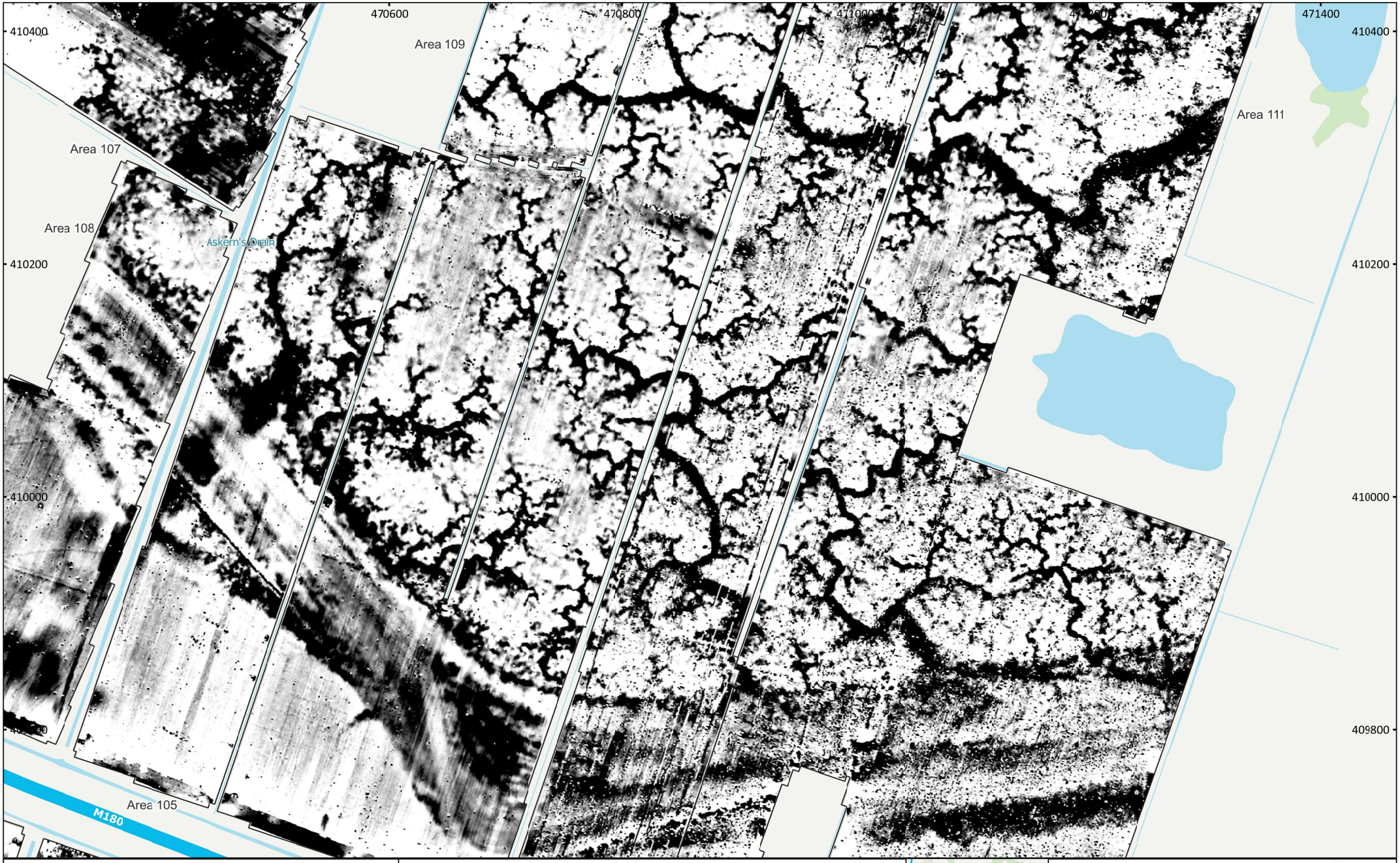
0 50 100 150 m

magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 107 - Magnetic Total Field (Lower Sensor) (Areas 105, 107, 108, 109, 110 & 111)
1:3,000 @ A3
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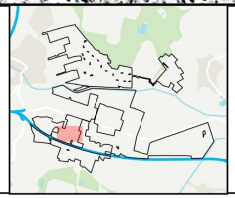
48997 nT 49005



N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 108 - Magnetic Gradient (Areas 105, 107, 108, 109, 110 & 111)
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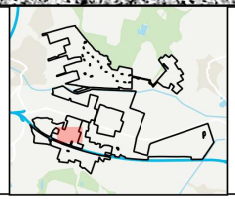

N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 109 - Magnetic Interpretation (Areas 105, 107, 108, 109, 110 & 111)
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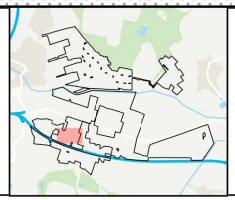

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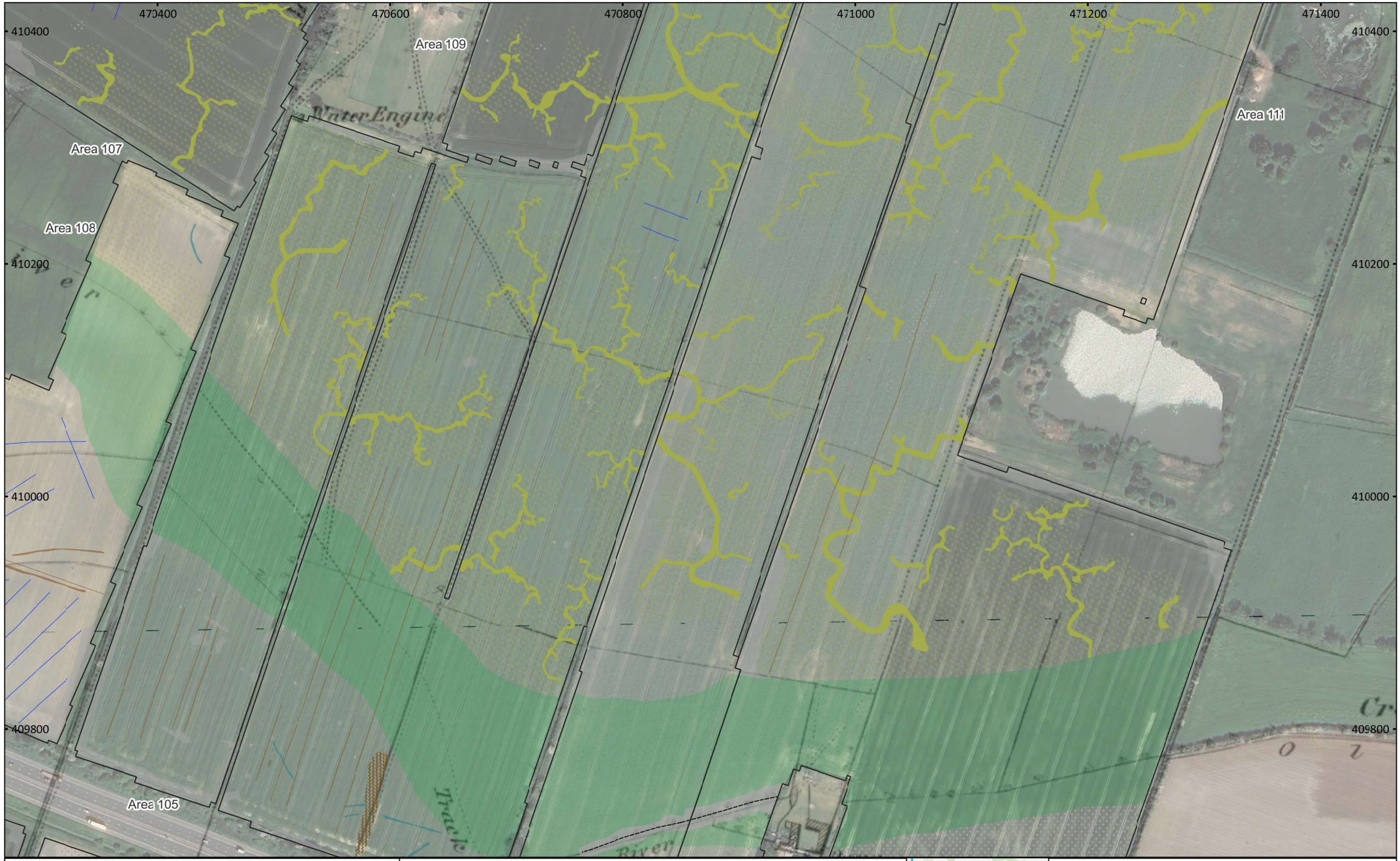
magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 110 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
1:3,000 @ A3
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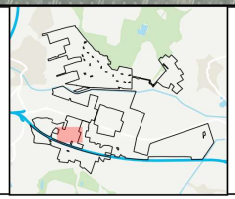
- Agricultural (Weak)
- Agricultural (Spread)
- Natural (Strong)
- Natural (Weak)
- Natural (Spread)
- Palaeochannel
- Undetermined (Weak)
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Agricultural (Trend)
- Service
- Drainage Feature
- Ferrous (Spike)



N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 111 - Magnetic Total Field (Lower Sensor) (Areas 109, 110, 111, 112, 120, 121, 122, 123, 124, 125, 126, 156, 181 & 182)
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48997 nT 49005

N

0 50 100 150 m

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MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 112 - Magnetic Gradient (Areas 109, 110, 111, 112, 120, 121, 122, 123, 124, 125, 126, 156, 181 & 182)
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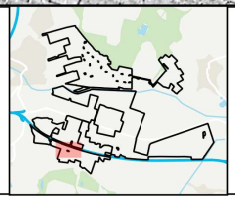

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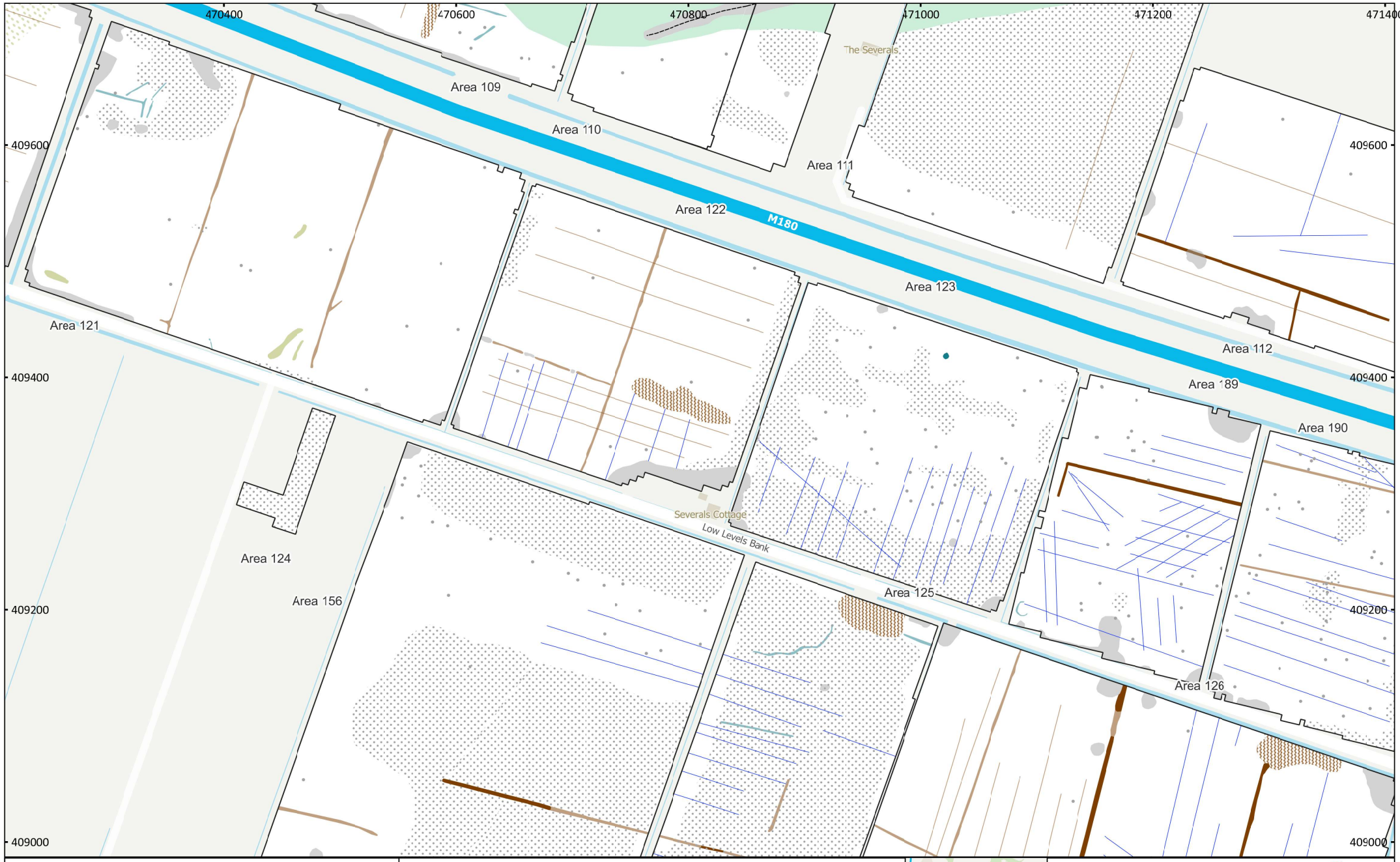
magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 113 - Magnetic Interpretation (Areas 109, 110, 111, 112, 120, 121, 122, 123, 124, 125, 126, 156, 181 & 182)
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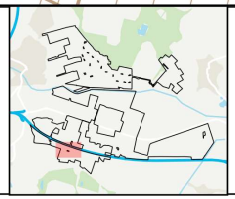

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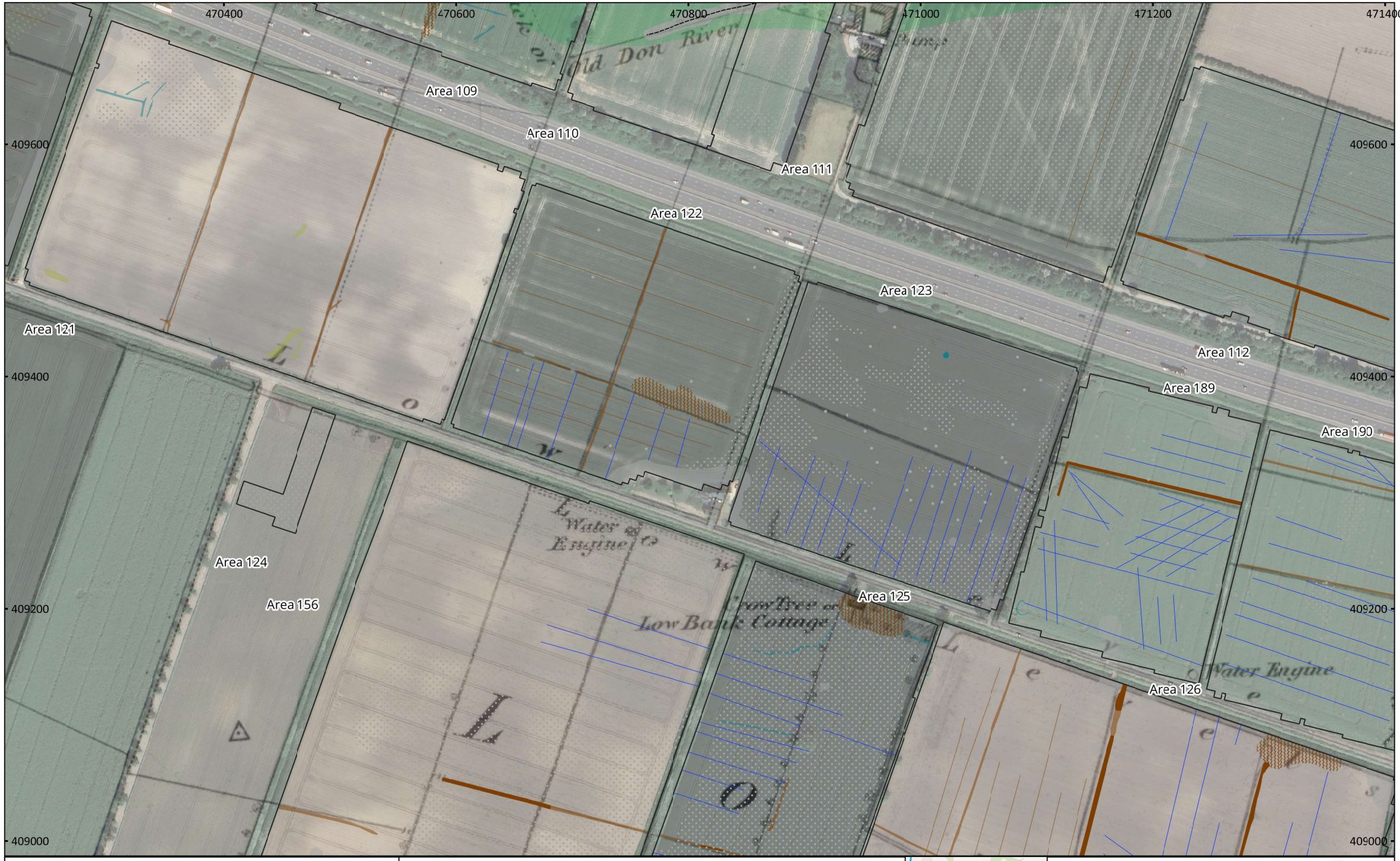
magnitude surveys



MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 114 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
1:3,000 @ A3
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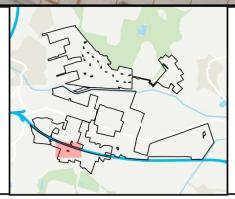
- Agricultural (Strong)
- Agricultural (Weak)
- Agricultural (Spread)
- Natural (Weak)
- Natural (Spread)
- Palaeochannel
- Undetermined (Strong)
- Undetermined (Weak)
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Agricultural (Trend)
- Service
- Drainage Feature
- Ferrous (Spike)



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0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 115 - Magnetic Total Field (Lower Sensor) (Areas 125, 126, 129, 130, 132 & 156)
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48997 nT 49005

N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 116 - Magnetic Gradient (Areas 125, 126, 129, 130, 132 & 156)
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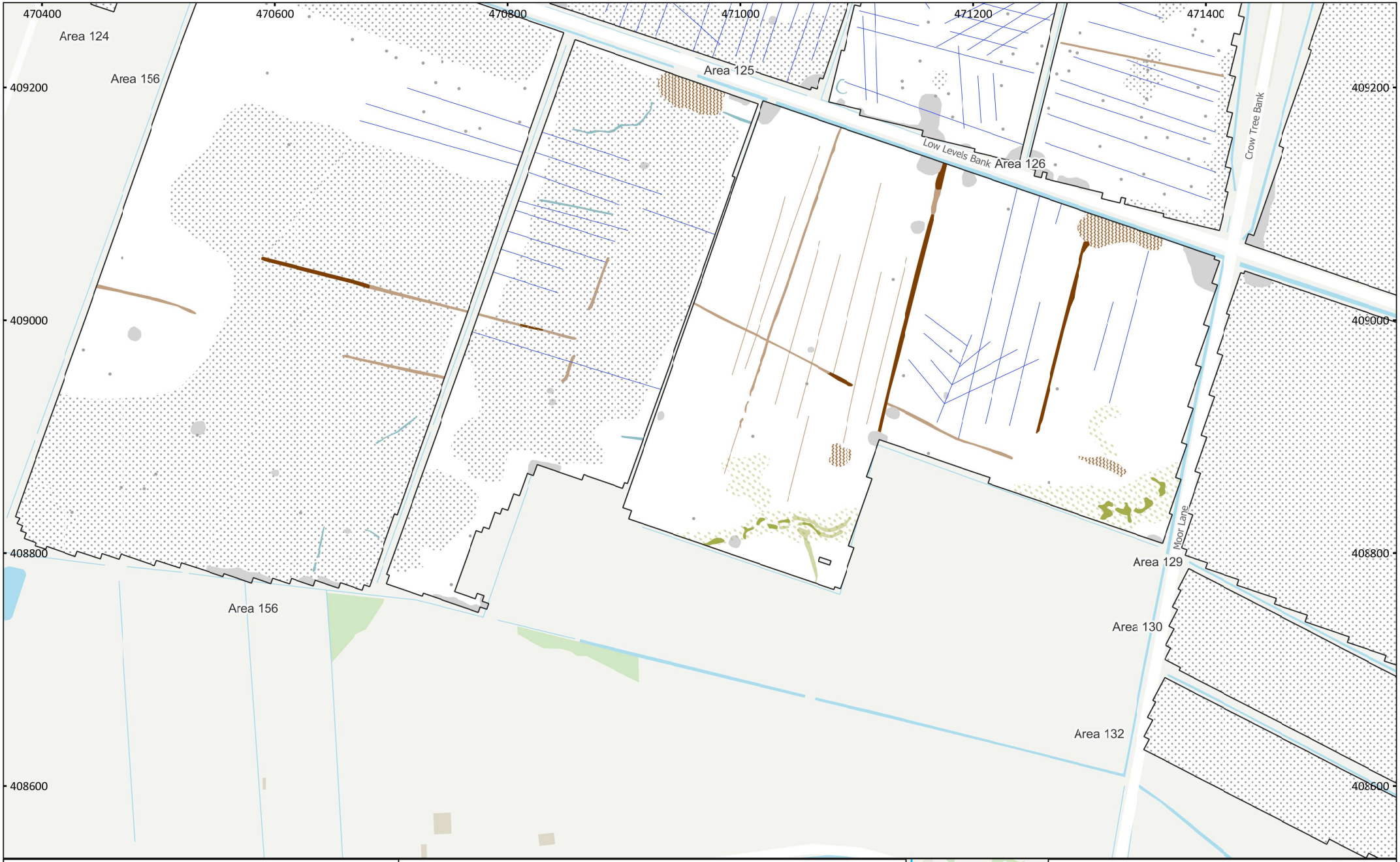

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincclnshire
Figure 117 - Magnetic Interpretation (Areas 125, 126, 129, 130, 132 & 156)
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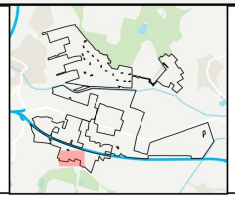

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0 50 100 150 m

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MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 118 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
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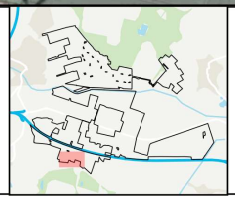
- Agricultural (Strong)
- Agricultural (Weak)
- Agricultural (Spread)
- Natural (Strong)
- Natural (Weak)
- Natural (Spread)
- Undetermined (Weak)
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Agricultural (Trend)
- Drainage Feature
- Ferrous (Spike)



N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 119 - Magnetic Total Field (Lower Sensor) (Areas 126, 129, 130, 131, 132 & 179)
1:3,000 @ A3
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48997 nT 49005

N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 120 - Magnetic Gradient (Areas 126, 129, 130, 131, 132 & 179)
1:3,000 @ A3
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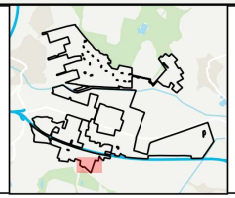
-1 nT 2



N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincclnshire
Figure 121 - Magnetic Interpretation (Areas 126, 129, 130, 131, 132 & 179)
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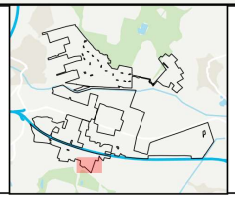

N

0 50 100 150 m

magnitude surveys

MSSE1548: Tween Bridge - Thorne, Doncaster, South Yorkshire to Crowle, North Lincolnshire
Figure 122 - Magnetic Interpretation Over Historical Maps and Satellite Imagery
1:3,000 @ A3
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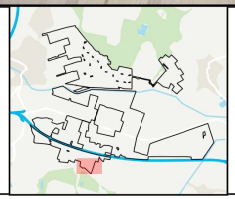
- Agricultural (Strong)
- Agricultural (Weak)
- Agricultural (Spread)
- Natural (Strong)
- Natural (Weak)
- Natural (Spread)
- Palaeochannel
- Magnetic Disturbance
- Ferrous/Debris (Spread)
- Drainage Feature
- Ferrous (Spike)



N

0 50 100 150 m

magnitude surveys