

Geophysical surveys at Fowler Hill Lane

Site location: NGR SD 48798 47810

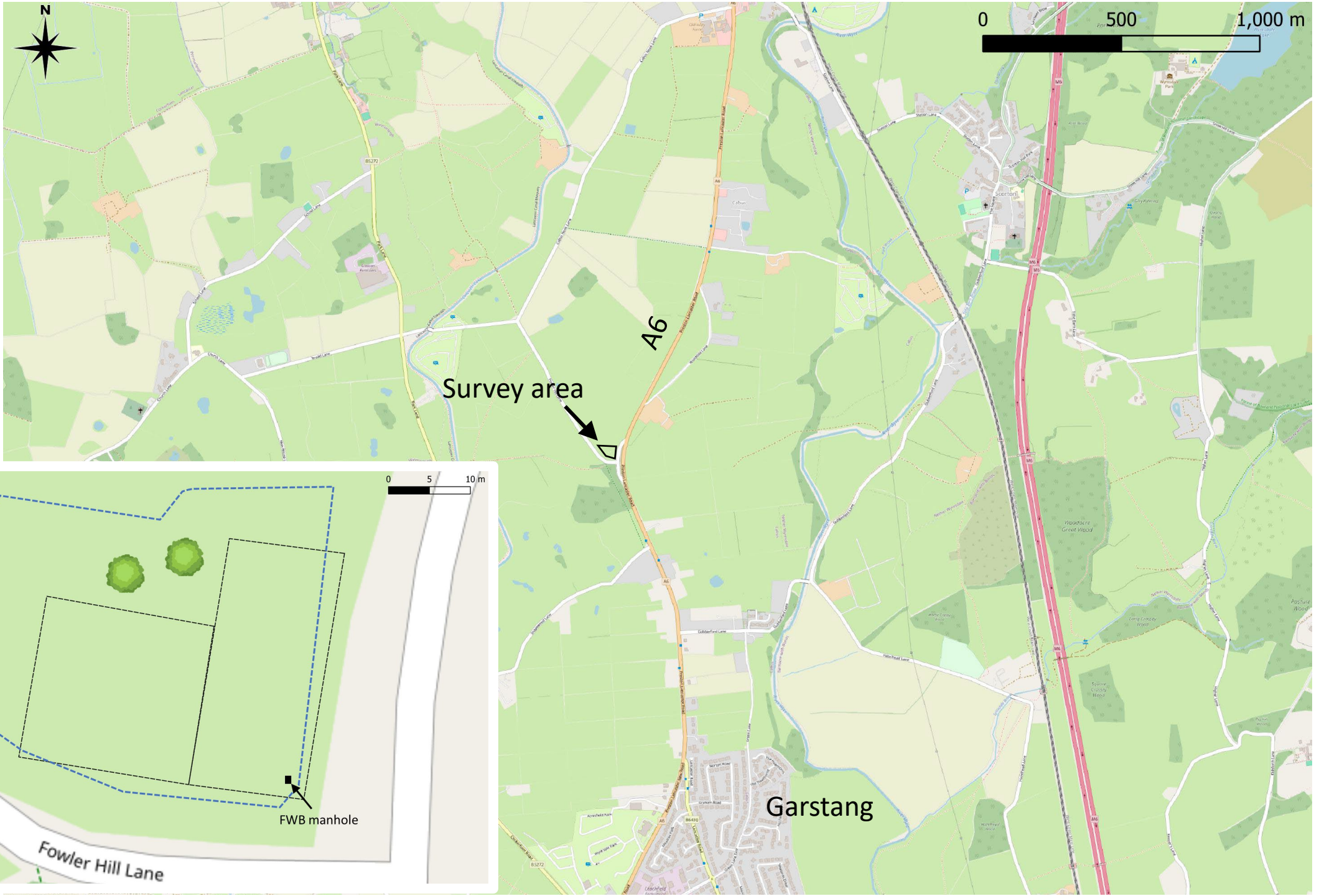
Survey type: Ground penetrating radar (GPR) with Mala ProEx 500 MHz antenna. Line spacing 0.3m. Two GPR plots surveyed. Electromagnetic induction (EMI) with GF Instruments MiniExplorer in roaming mode, georeferenced with a Trimble Pro 6 GNSS antenna.

Personnel: Andy Binley, Andy Jackson, Phil Crawshaw

Date of survey: 14 March 2024.

Objectives of survey: to determine subsurface features that may be associated with former building at the site.



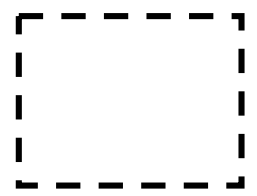




EMI survey area



GPR survey area

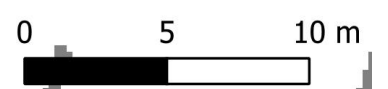


Fowler Hill Lane

FWB manhole



1890 County Series



EMI survey area

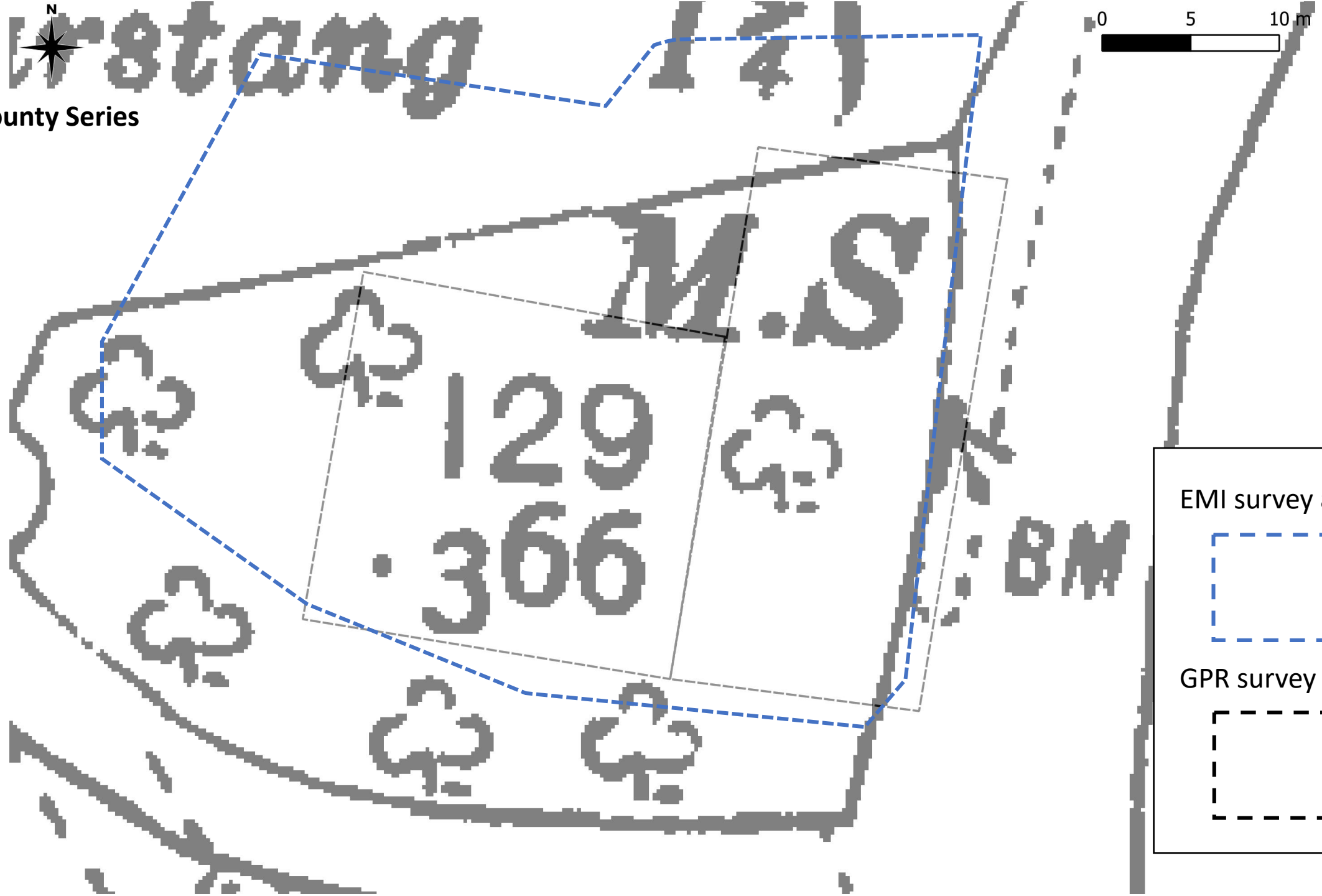
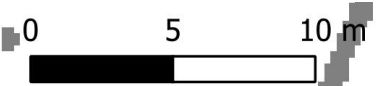


GPR survey area




1932 County Series


1932 County Series



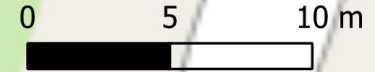
EMI survey area



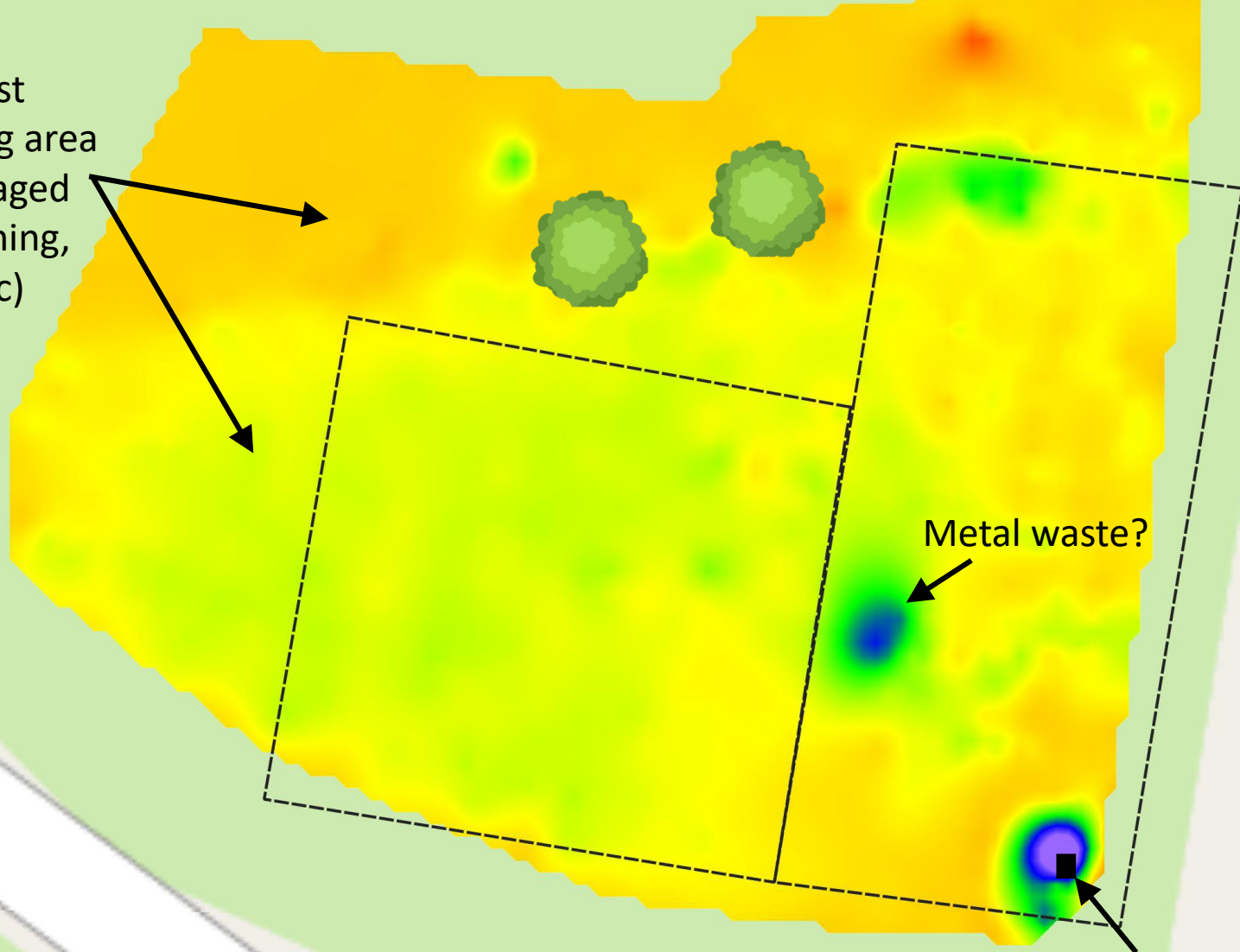
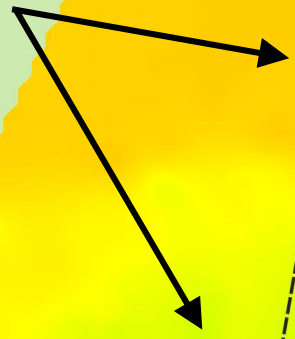
GPR survey area



EMI in-phase survey (equivalent to magnetic susceptibility)



Noticeable contrast probably reflecting area where soil is managed differently (ploughing, slurry addition, etc)



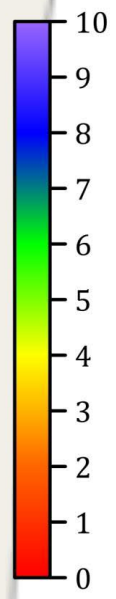
Metal waste?



FWB manhole

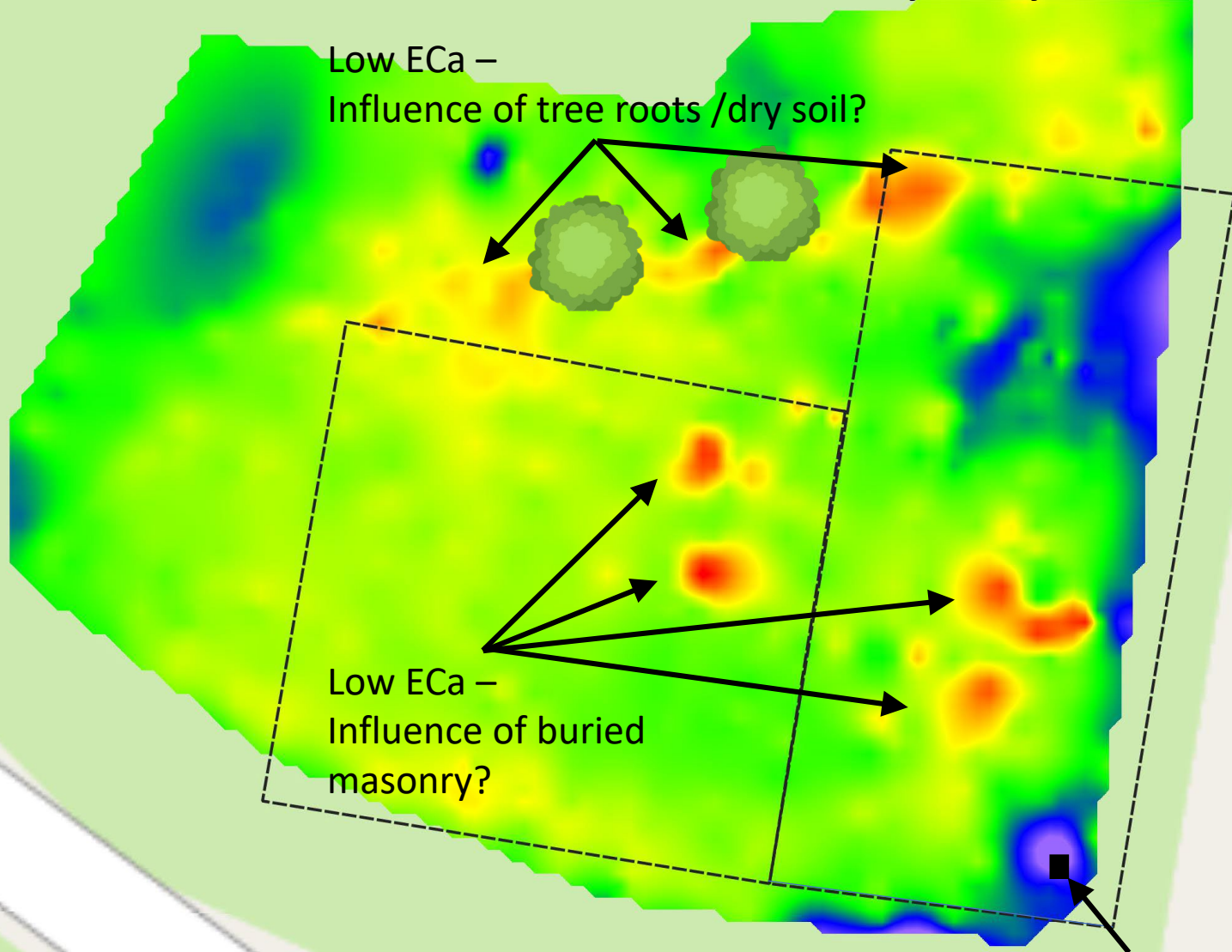
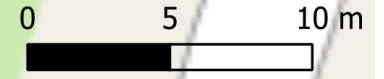


In-phase (ppt)

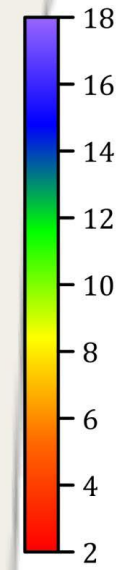


Fowler Hill Lane

EMI electrical conductivity survey

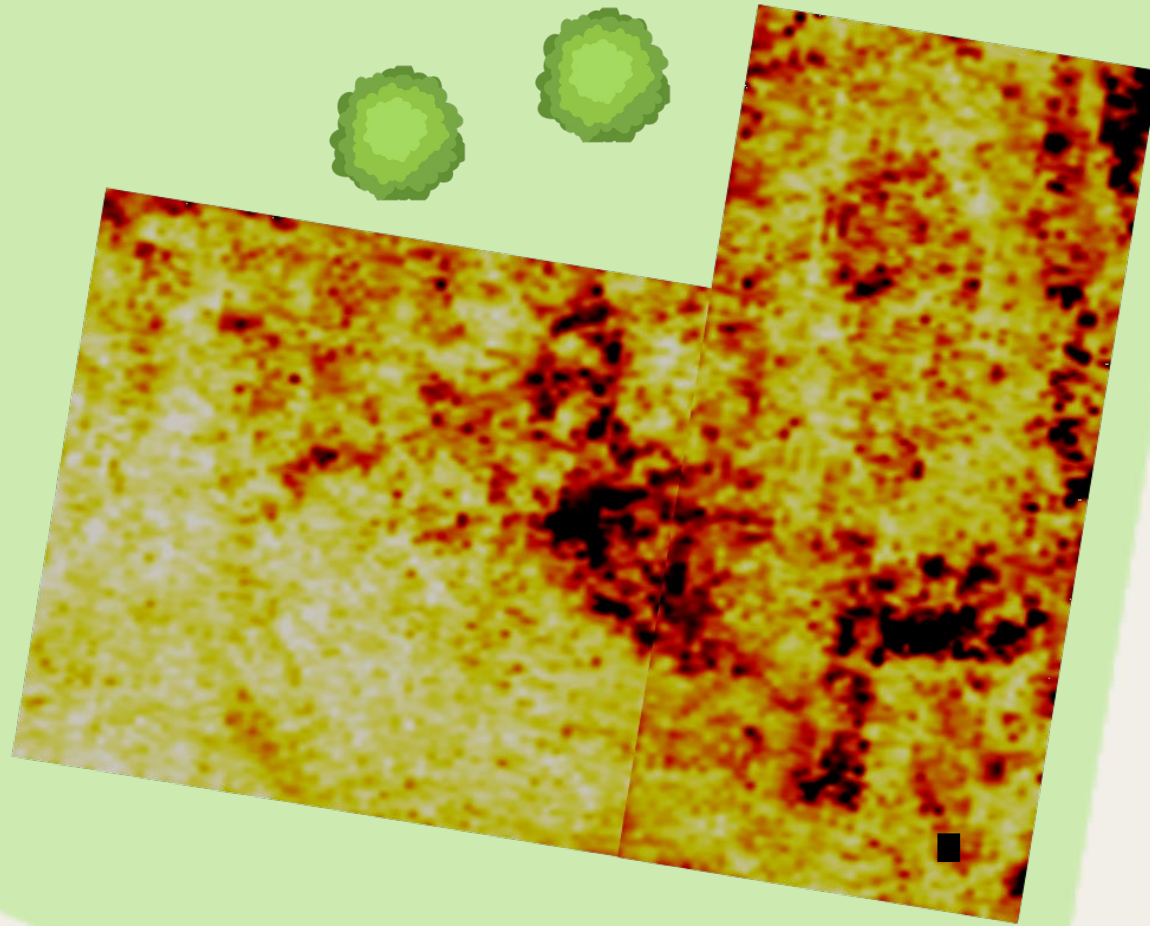
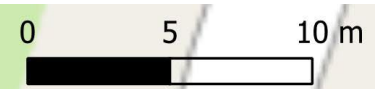


ECa (mS/m)



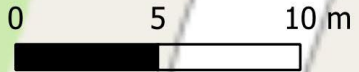
Fowler Hill Lane

GPR 0.25m depth



Fowler Hill Lane

GPR 0.25m depth

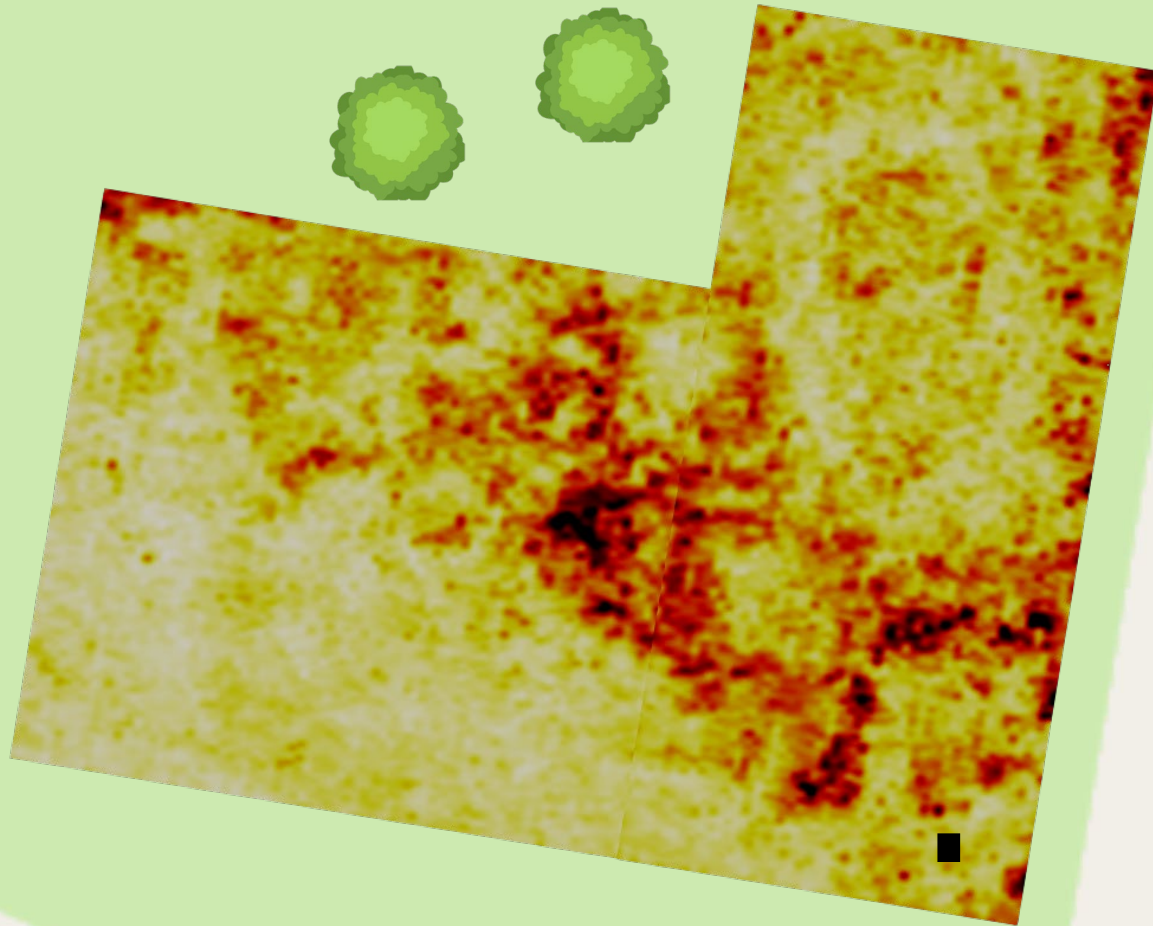
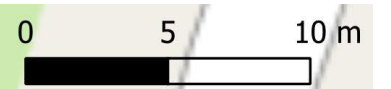


1890 County Series
Features



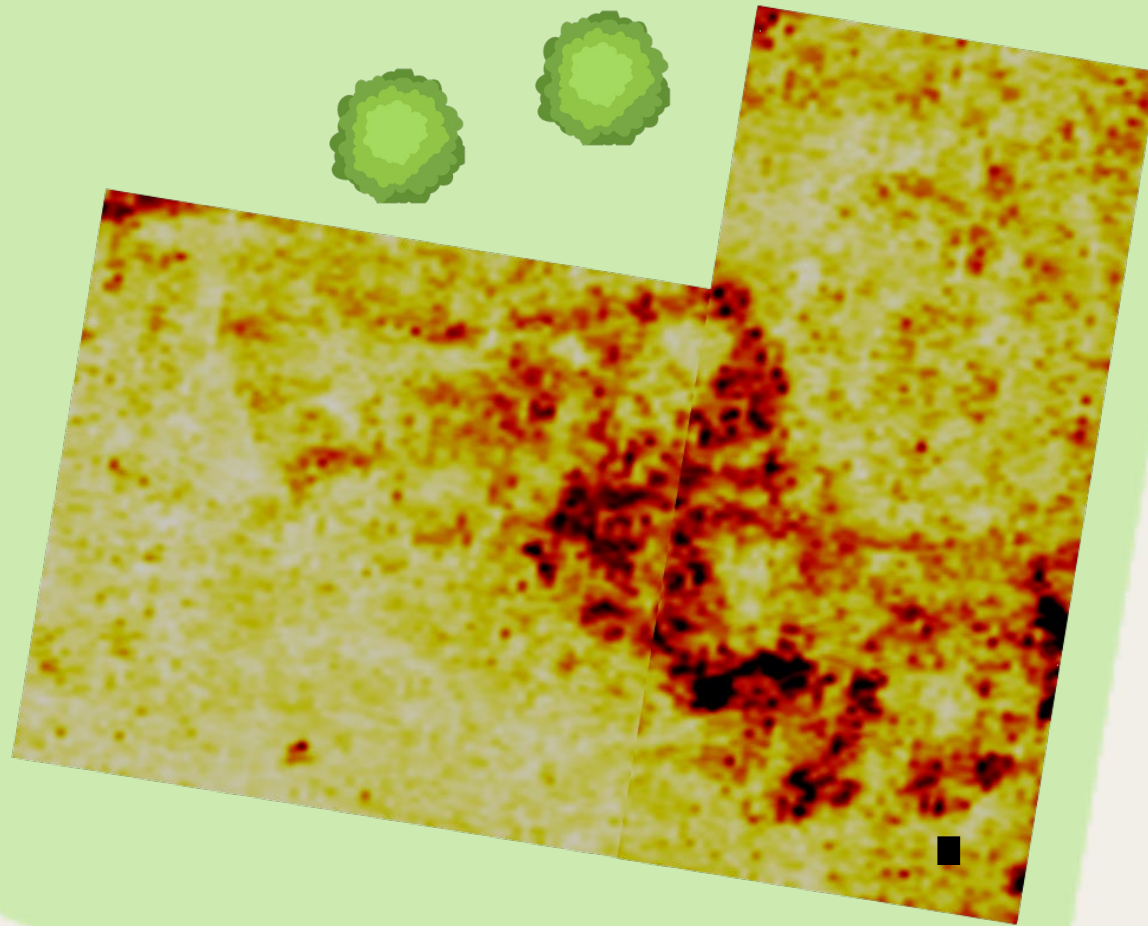
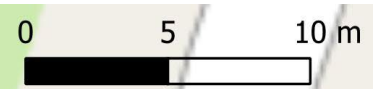
Fowler Hill Lane

GPR 0.3m depth



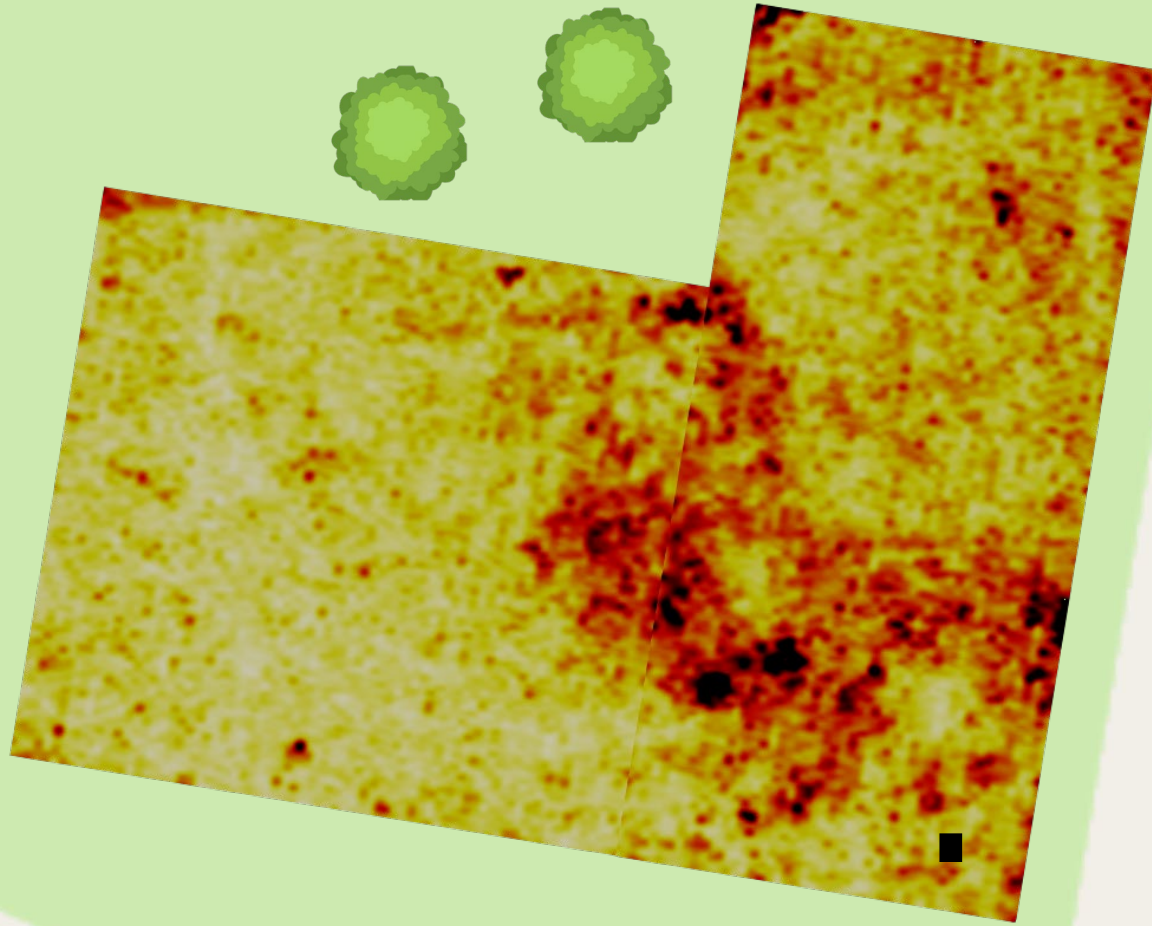
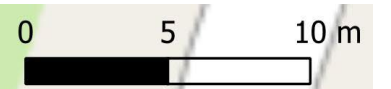
Fowler Hill Lane

GPR 0.4m depth



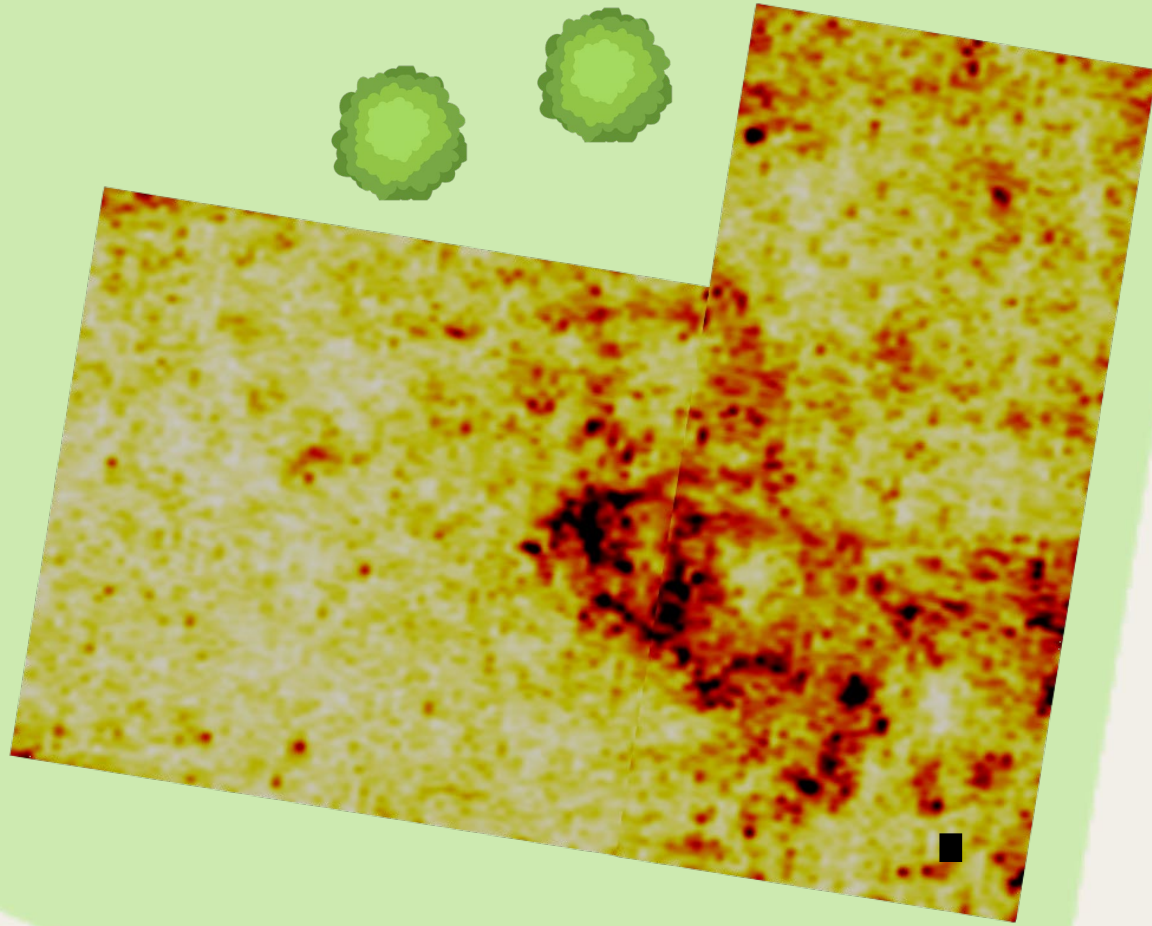
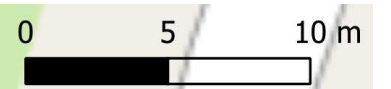
Fowler Hill Lane

GPR 0.5m depth



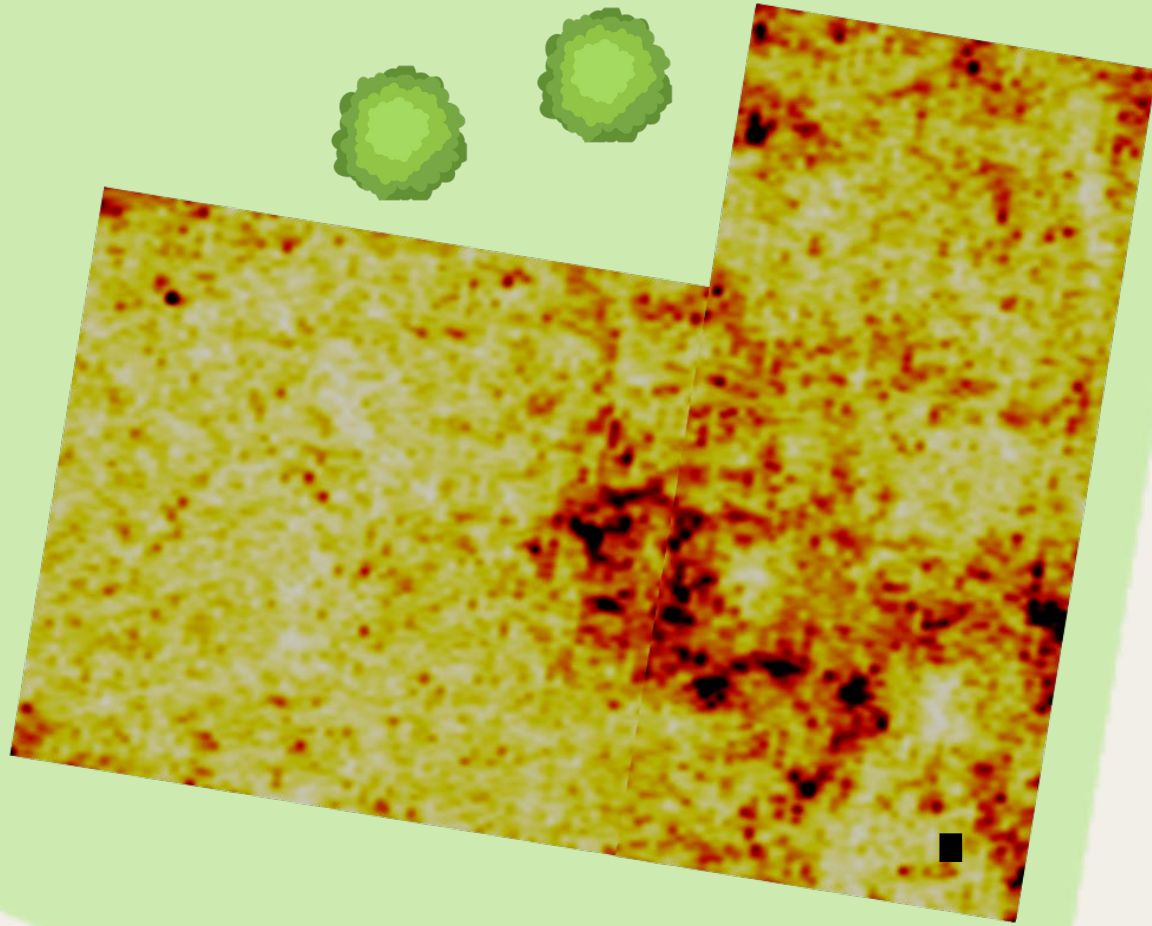
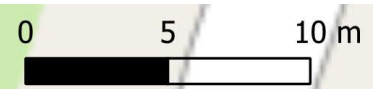
Fowler Hill Lane

GPR 0.6m depth



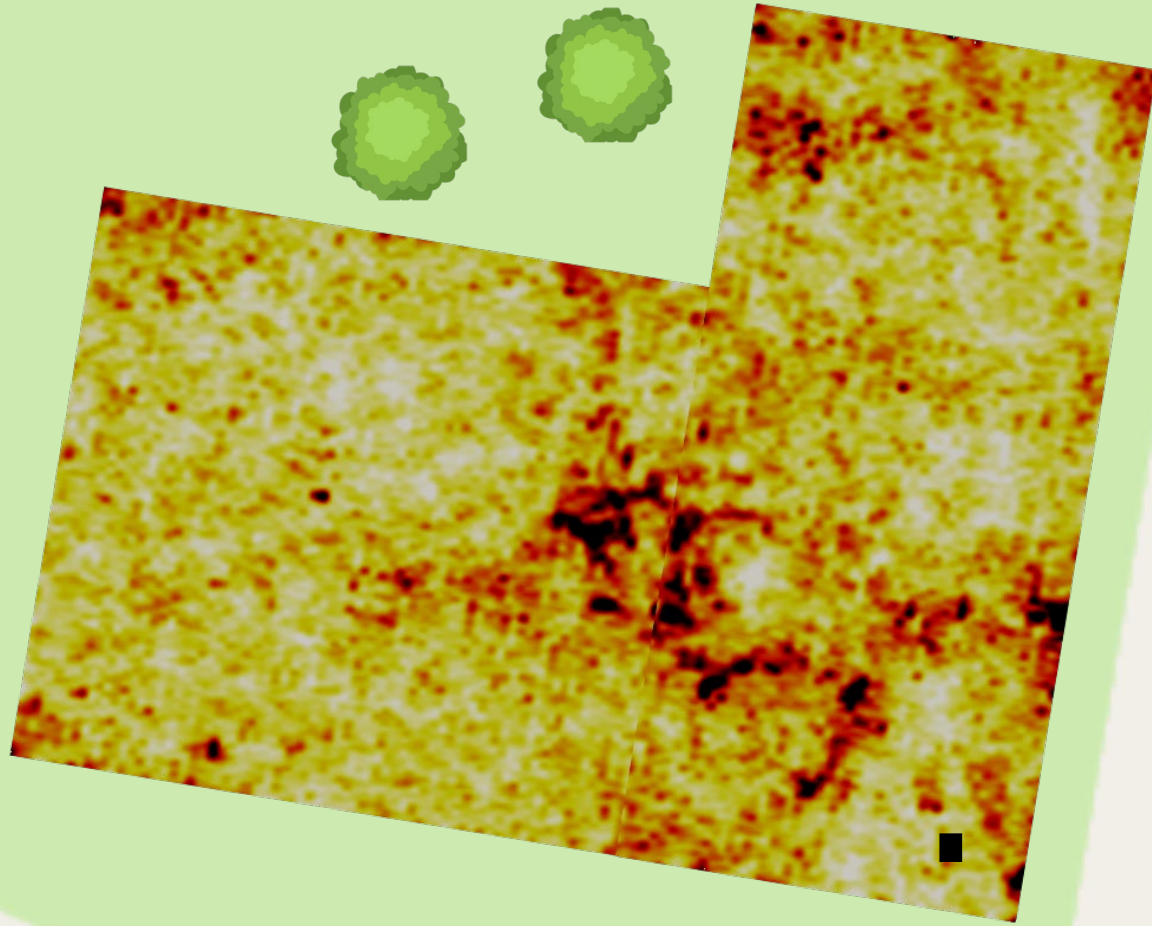
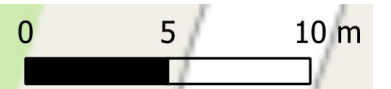
Fowler Hill Lane

GPR 0.7m depth



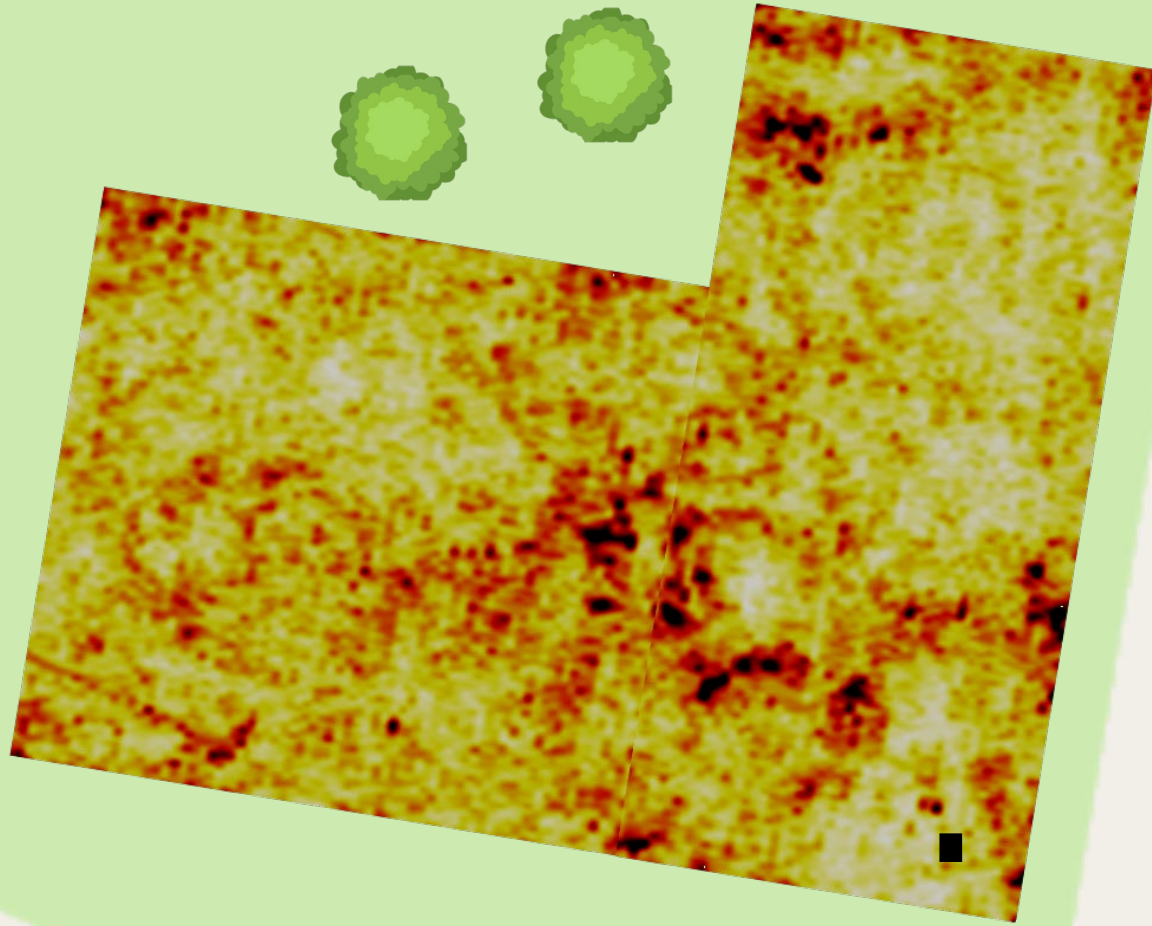
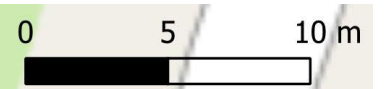
Fowler Hill Lane

GPR 0.8m depth



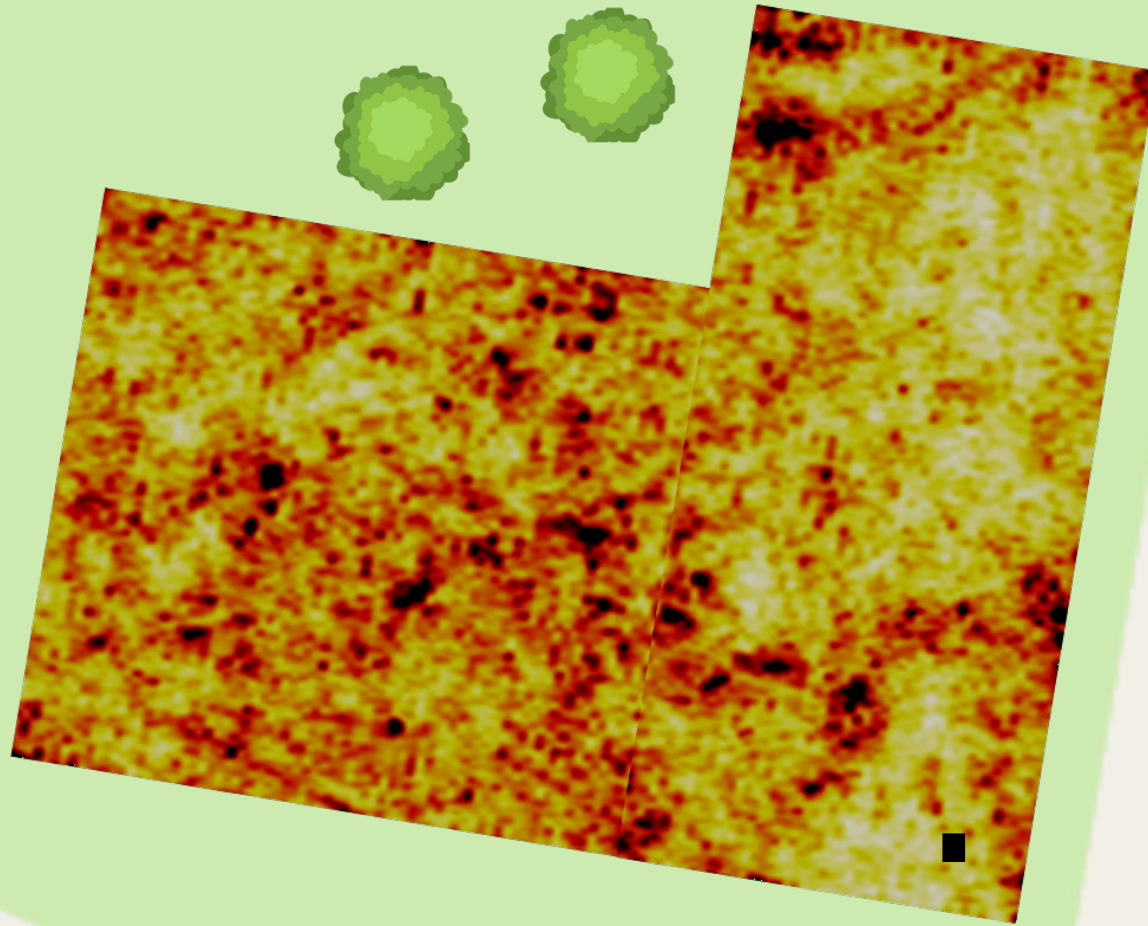
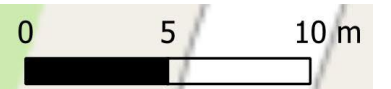
Fowler Hill Lane

GPR 0.9m depth



Fowler Hill Lane

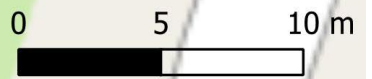
GPR 1.0m depth







Fowler Hill Lane




Interpretation (EMI)




-  Low electrical conductivity
-  High electrical conductivity
-  High in-phase but low electrical conductivity
-  High in-phase and high electrical conductivity

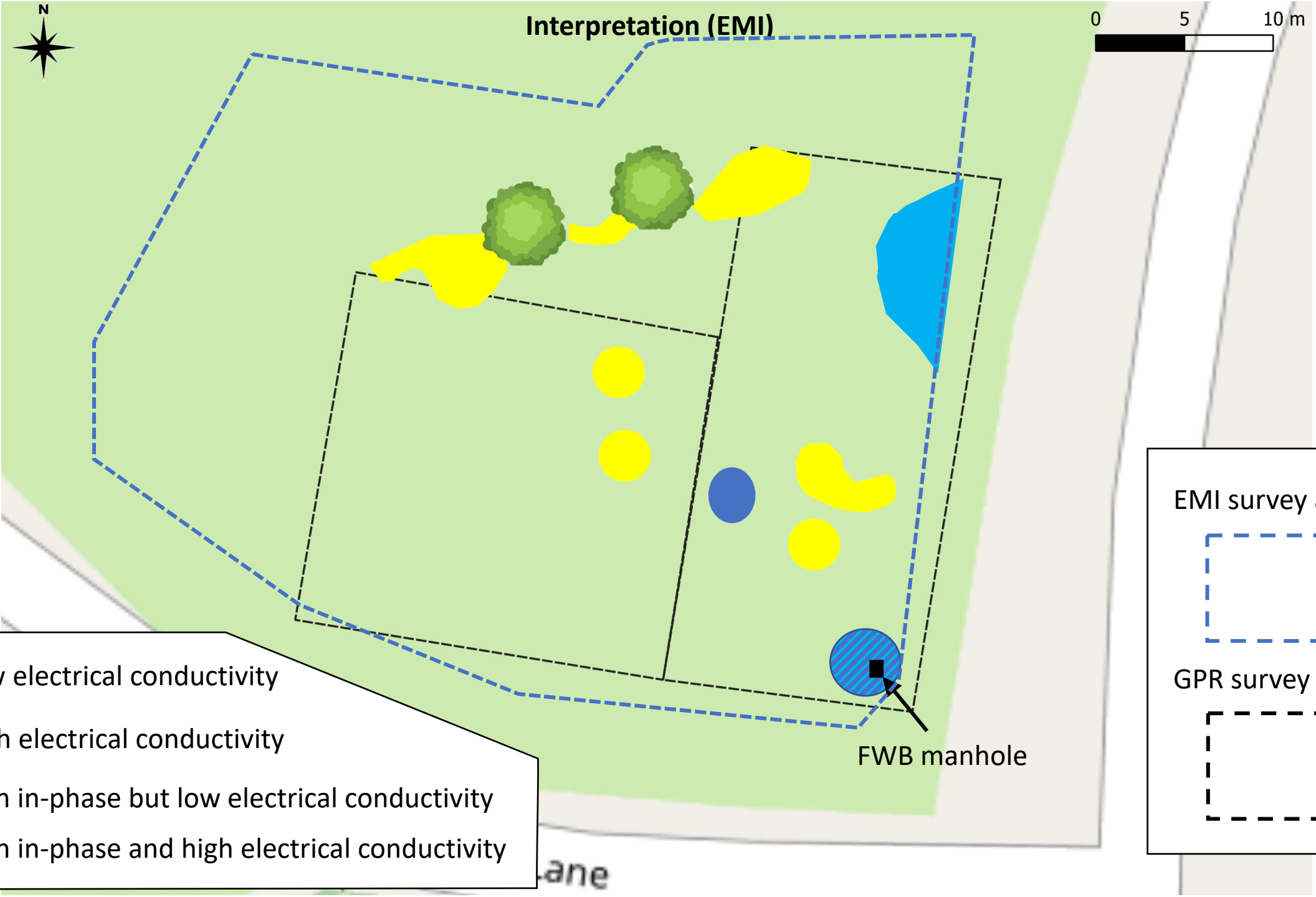
EMI survey area



GPR survey area

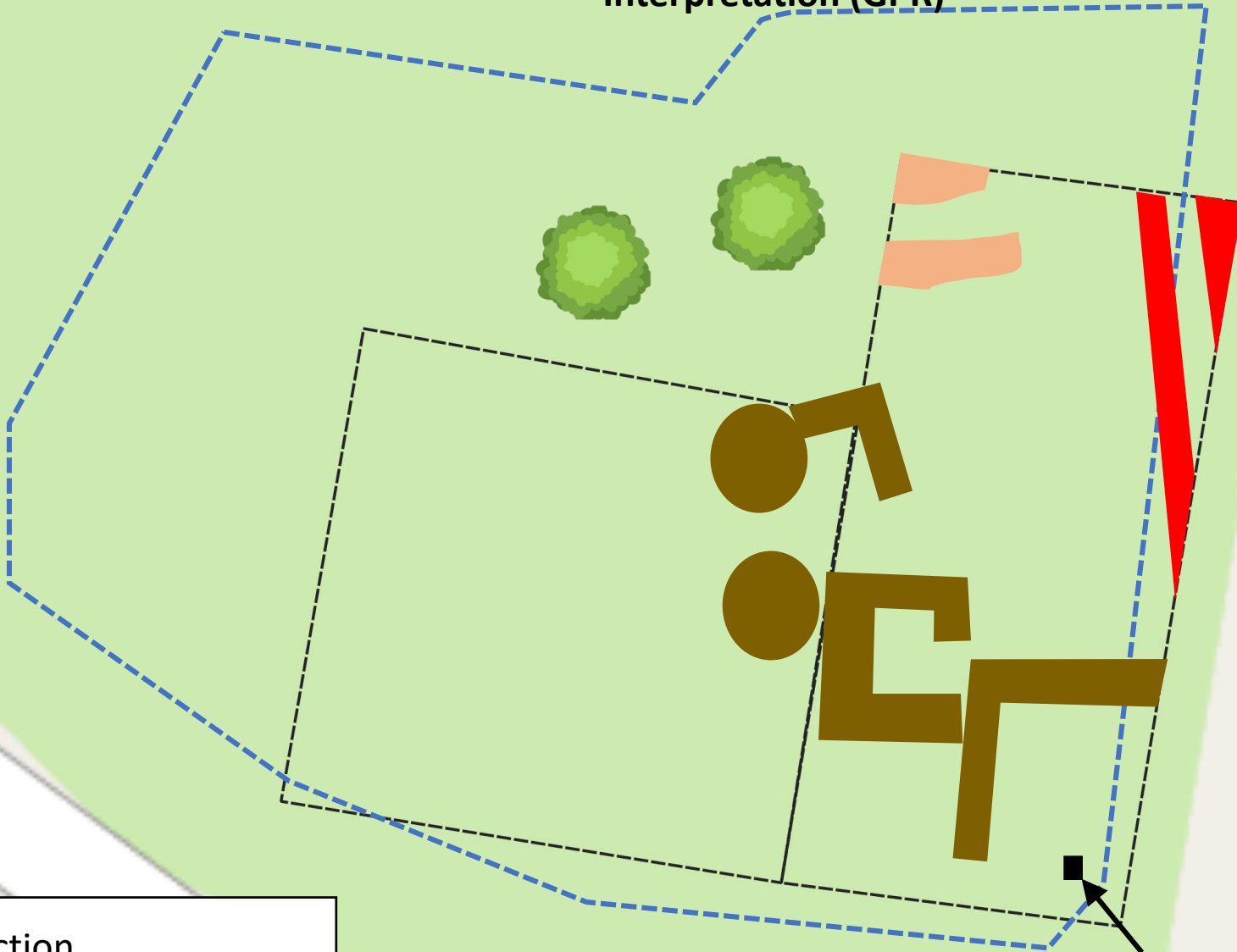
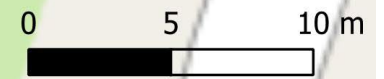





FWB manhole







Interpretation (GPR)



-  Clear reflection
-  Clear reflection (shallow only)
-  Clear reflection (deep only)

- EMI survey area

- GPR survey area


Fowler Hill Lane




FWB manhole





Interpretation (GPR)



1890 County Series
Features

-  Clear reflection
-  Clear reflection (shallow only)
-  Clear reflection (deep only)

-  EMI survey area
-  GPR survey area

