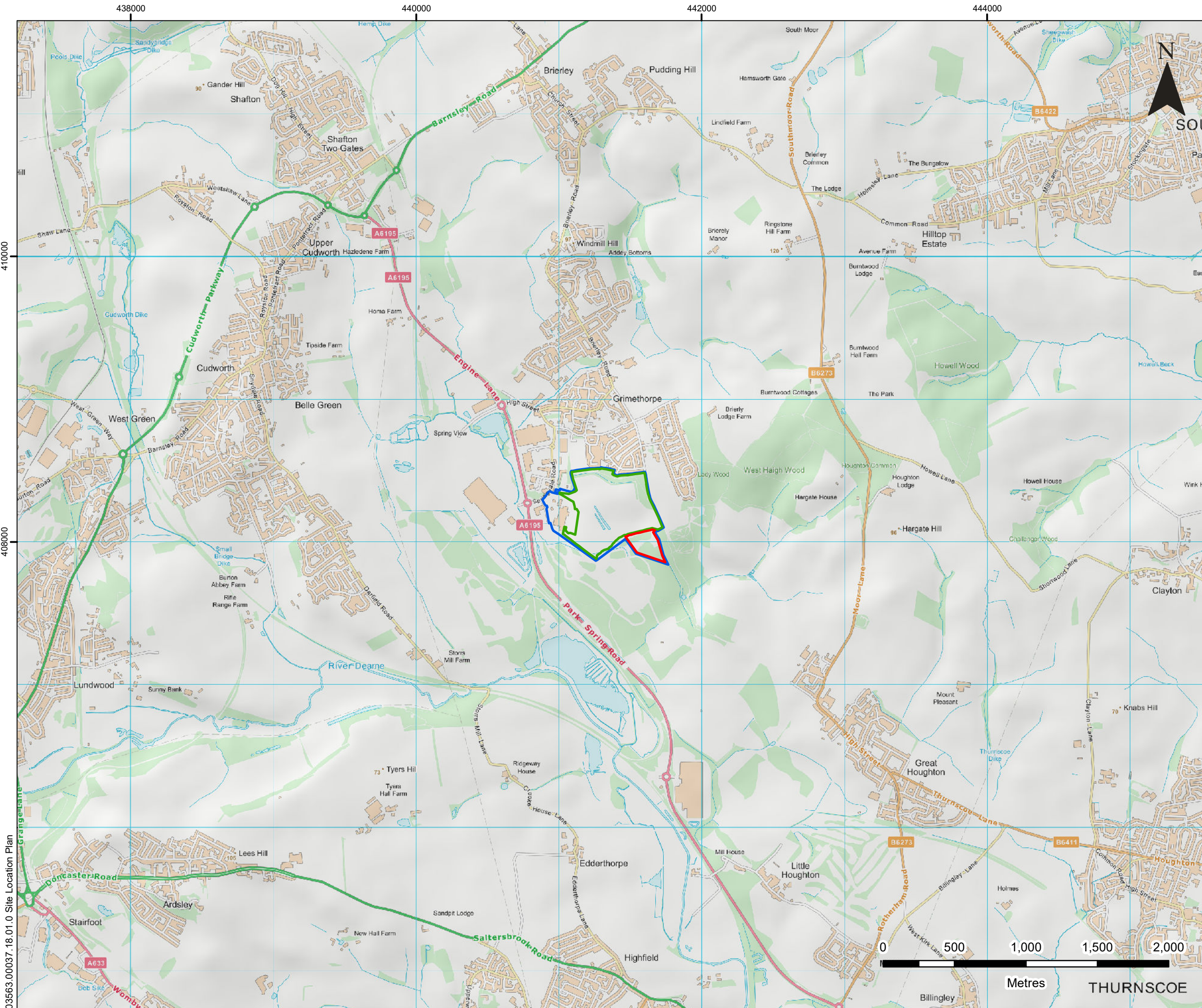
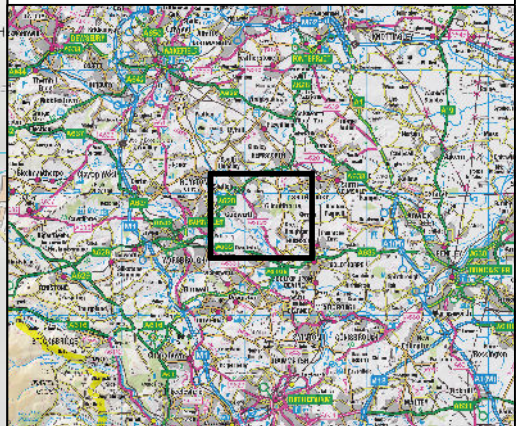




LEGEND

- Applicant Land Ownership
- Current Planning Boundary
- Proposed Extension



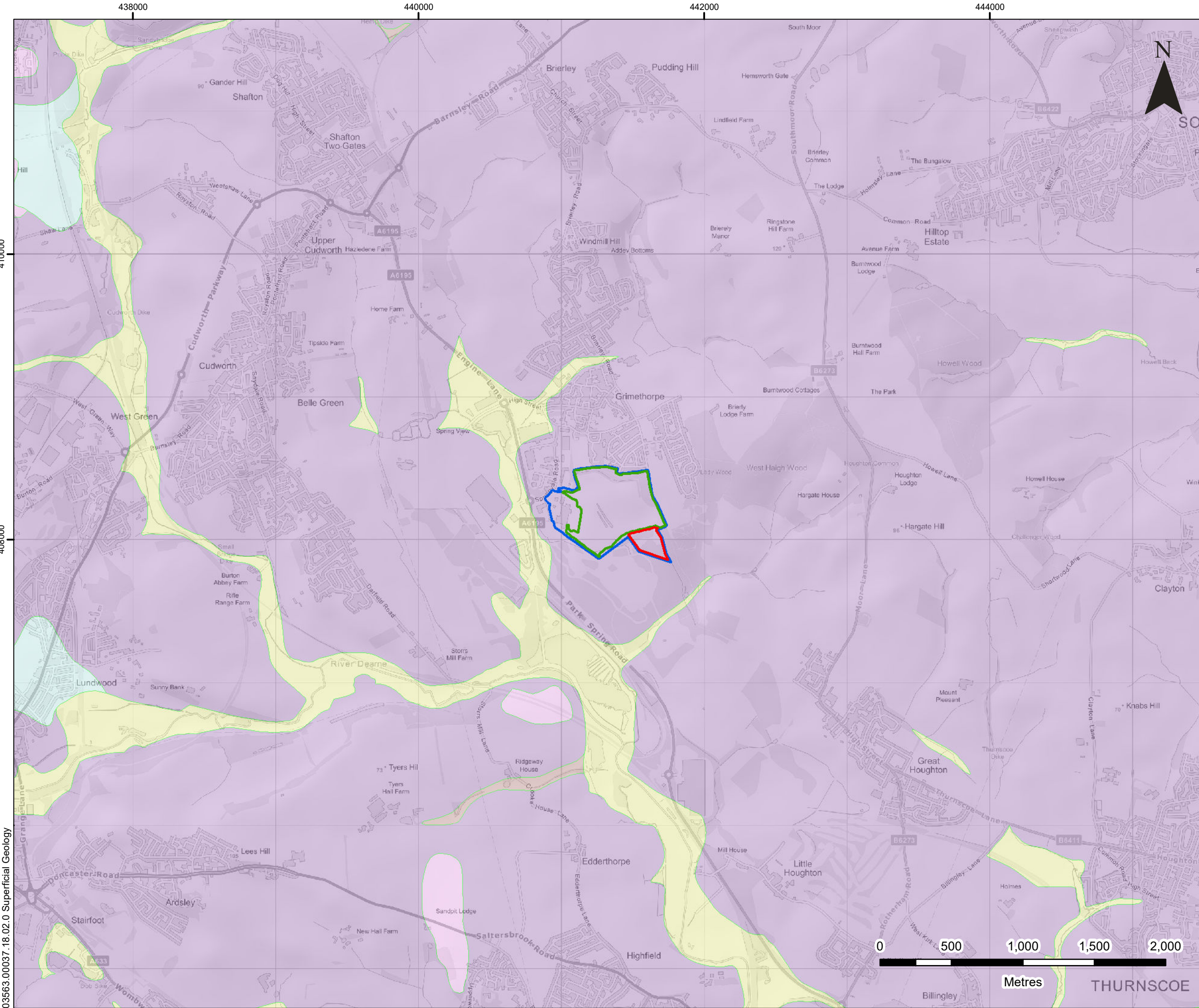
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EXTENSION TO CARLTON
MAIN CLAY PIT
GEOLOGY AND WATER ENVIRONMENT
SITE LOCATION PLAN
DRAWING 01

Scale 1:25,000 @ A3 Date SEPTEMBER 2020

03563.00037.18.01.0 Site Location Plan



LEGEND

- Applicant Land Ownership
- Current Planning Boundary
- Proposed Extension

Superficial Geology

- Alluvium - Clay and Silt
- Alluvium - Clay, Silt, Sand and Gravel
- Glaciofluvial Deposits, Mid Pleistocene - Sand and Gravel
- Till, Mid Pleistocene – Diamicton
- Head – Diamicton

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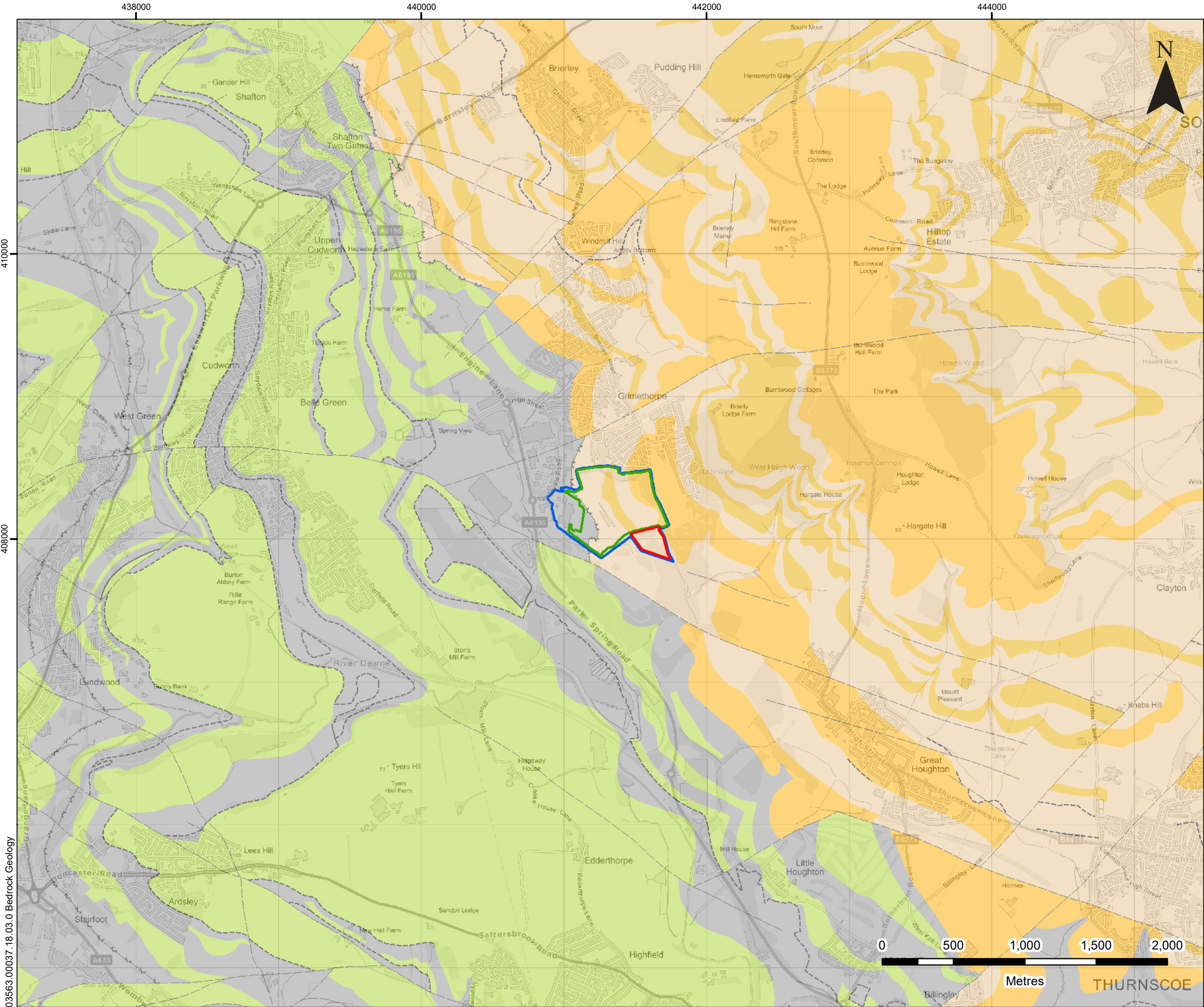
GEOLOGY AND WATER ENVIRONMENT

SUPERFICIAL GEOLOGY

DRAWING 02

Scale 1:25,000 @ A3

Date
SEPTEMBER 2020



LEGEND

 Applicant Land Ownership

 Current Planning Boundary

 Proposed Extension

Bedrock Geology

 Coal Seam, Inferred

 Fault, Inferred, Crossmark on Downthrow Side, Throw in Metres

 Marine Band

 Ackton Rock – Sandstone

 Ackworth Rock – Sandstone

 Badsworth Rock – Sandstone

 Brierley Rock – Sandstone

 Glass Houghton Rock – Sandstone

 Mexborough Rock – Sandstone

 Newstead Rock – Sandstone

 Pennine Upper Coal Measures Formation - Mudstone, Siltstone and Sandstone

 Pennine Upper Coal Measures Formation – Sandstone

 Ravenfield Rock – Sandstone

 Oaks Rock – Sandstone

 Pennine Middle Coal Measures Formation - Mudstone, Siltstone and Sandstone

 Pennine Middle Coal Measures Formation - Sandstone

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**EXTENSION TO CARLTON
MAIN CLAY PIT**

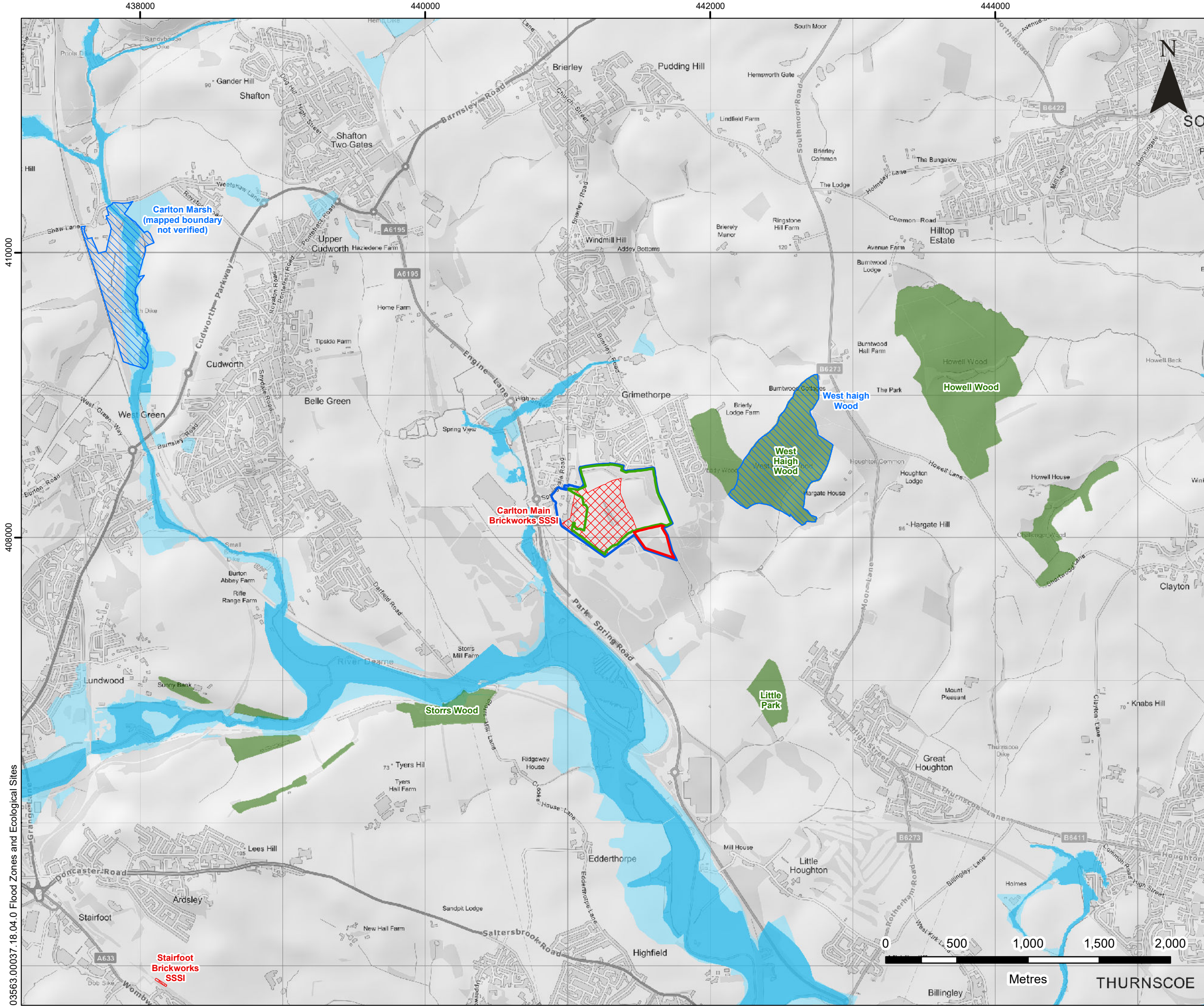
GEOLOGY AND WATER ENVIRONMENT

BEDROCK GEOLOGY

DRAWING 03

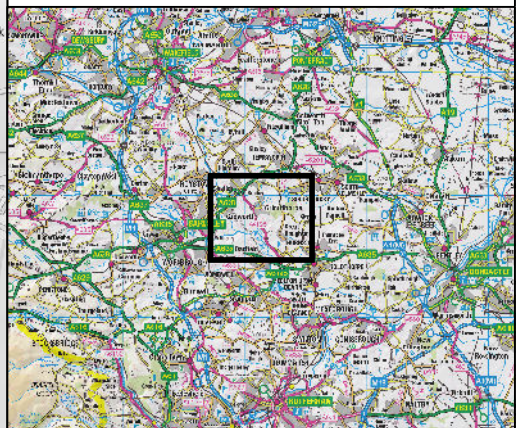
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Date SEPTEMBER 2020



LEGEND

- Applicant Land Ownership
- Current Planning Boundary
- Proposed Extension
- Ancient Woodland Inventory
- Local Nature Reserve
- Sites of Special Scientific Interest (SSSI)
- Flood Zone 2
- Flood Zone 3



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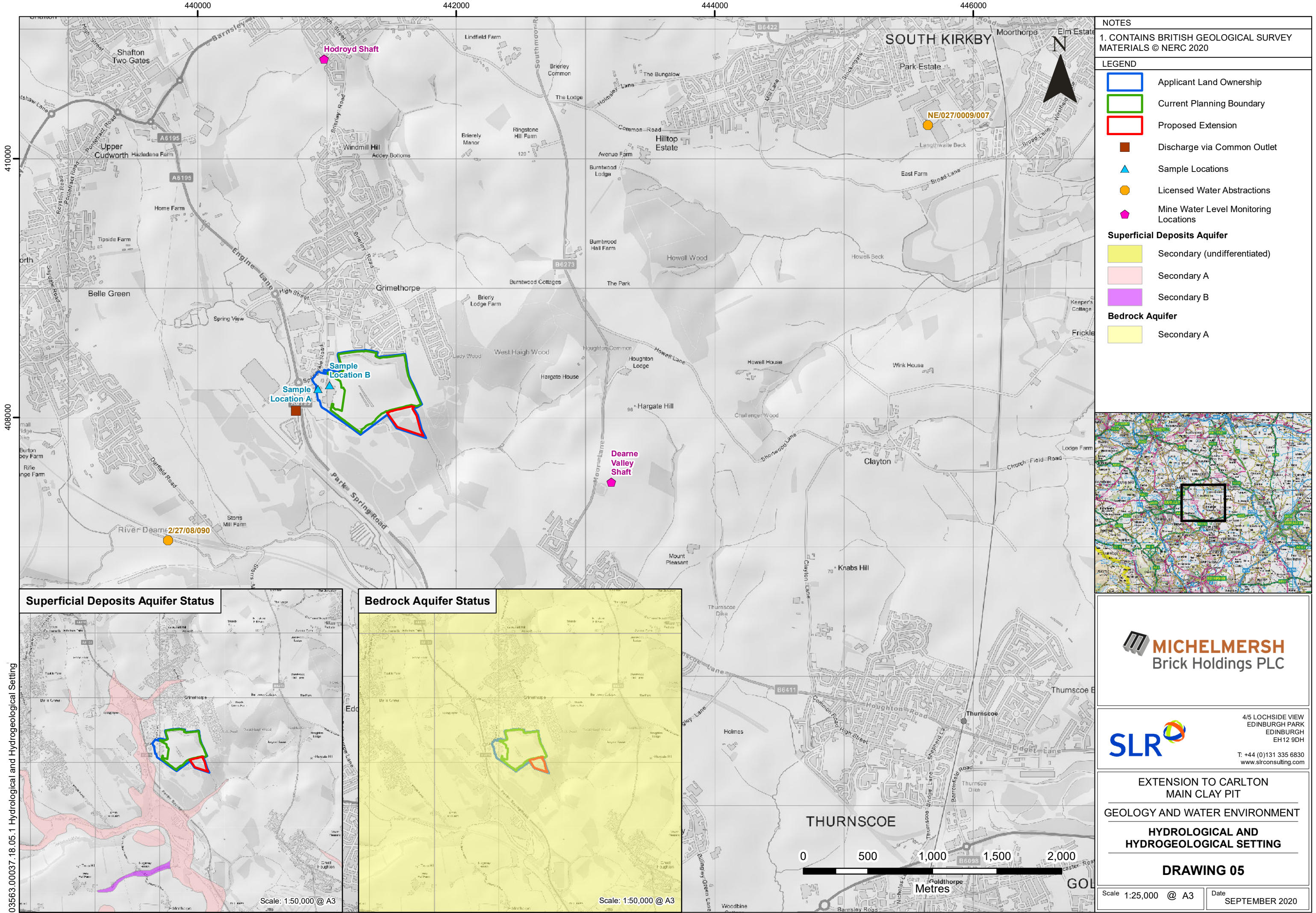
GEOLOGY AND WATER ENVIRONMENT
FLOOD ZONE AND ECOLOGICAL SITES

DRAWING 04

Scale 1:25,000 @ A3

Date
SEPTEMBER 2020

03563.00037.18.04.0 Flood Zones and Ecological Sites



NOTES

1. CONTAINS BRITISH GEOLOGICAL SURVEY MATERIALS © NERC 2020

LEGEND

Applicant Land Ownership

Current Planning Boundary

Proposed Extension

Discharge via Common Outlet

Sample Locations

Licensed Water Abstractions

Mine Water Level Monitoring Locations

Superficial Deposits Aquifer

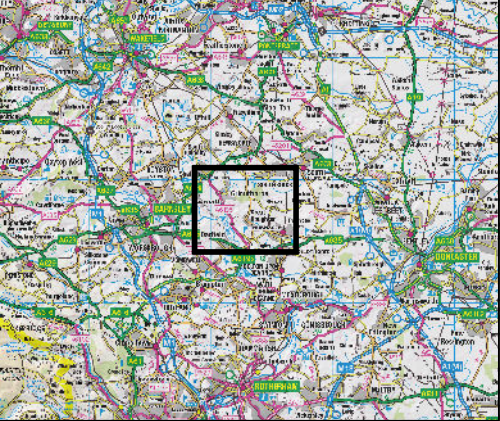
Secondary (undifferentiated)

Secondary A

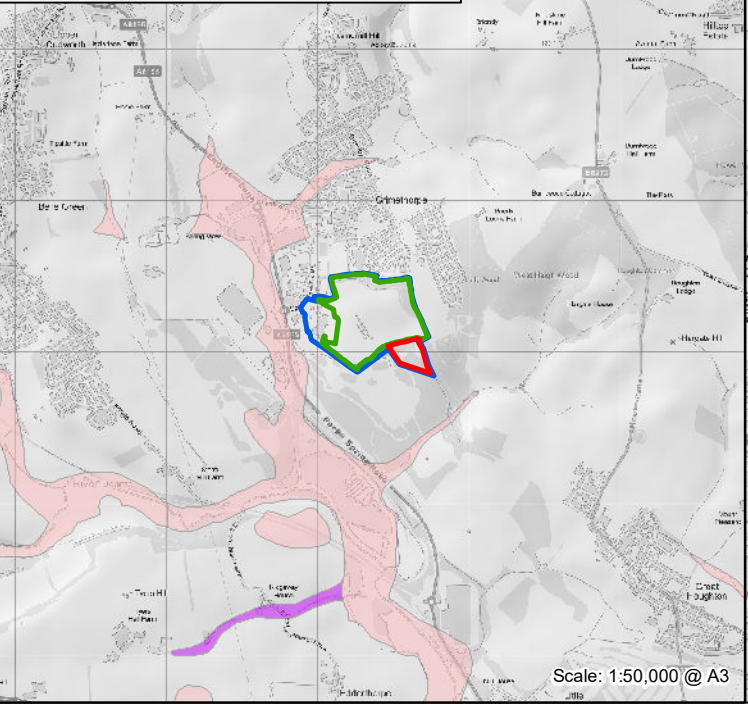
Secondary B

Bedrock Aquifer

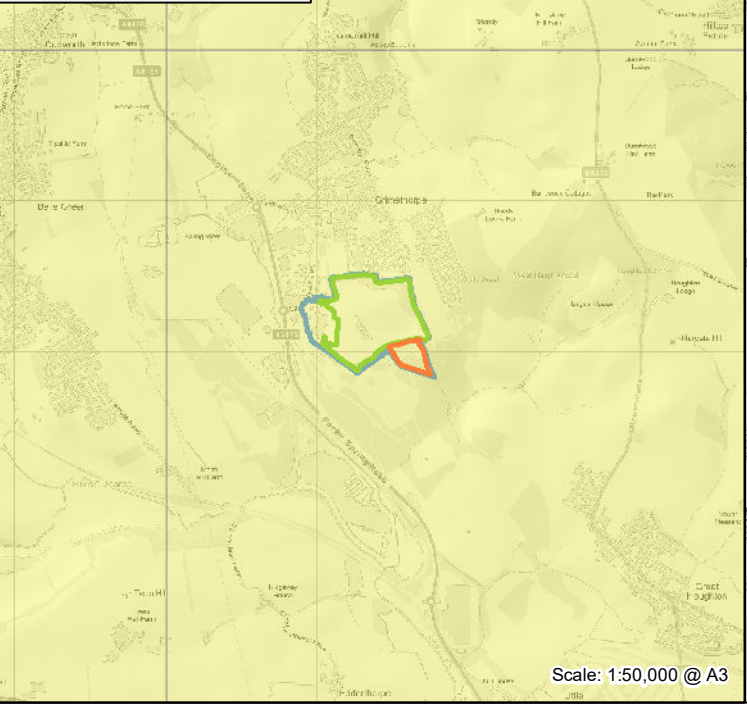
Secondary A



Superficial Deposits Aquifer Status



Bedrock Aquifer Status



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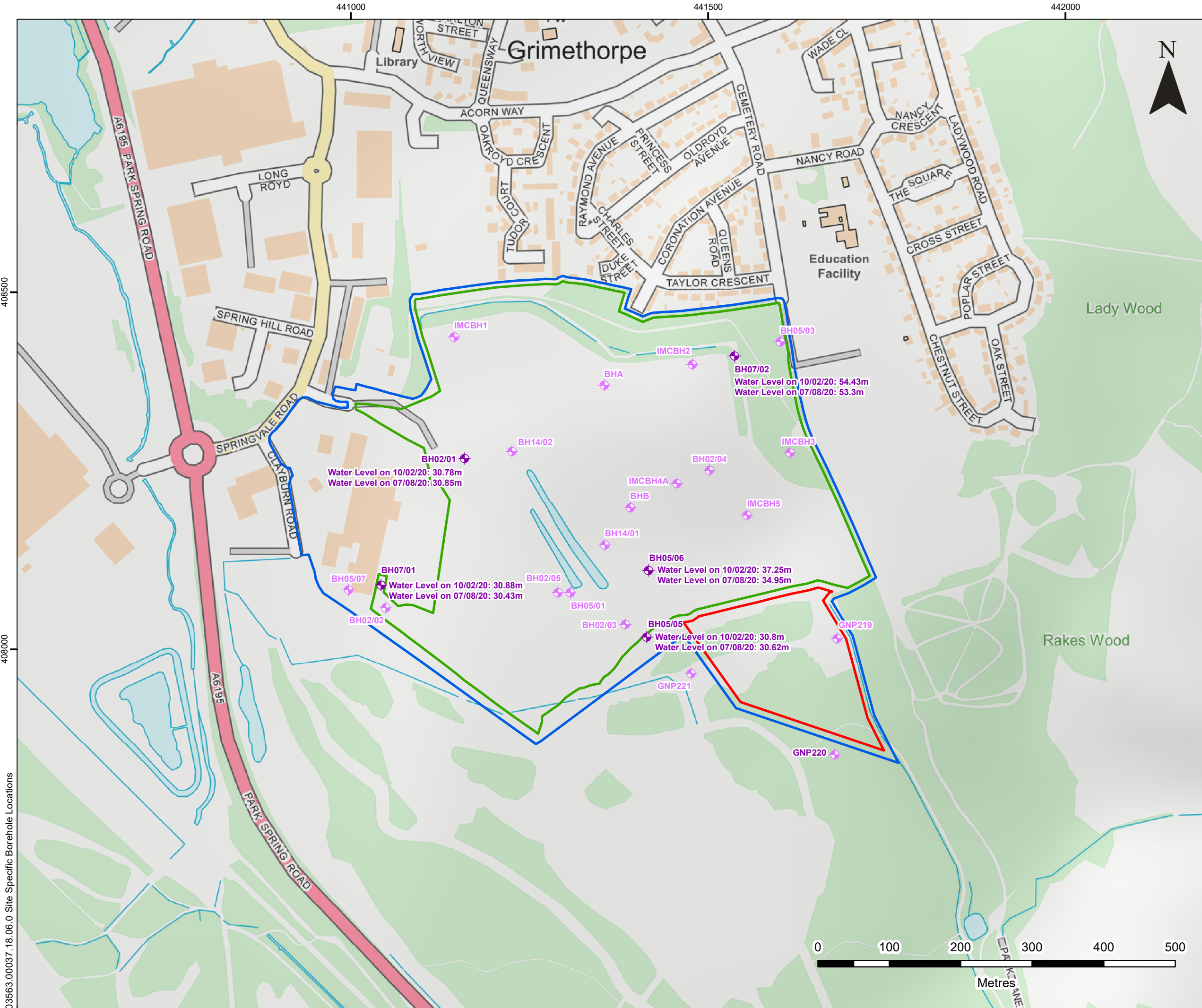
GEOLOGY AND WATER ENVIRONMENT

HYDROLOGICAL AND
HYDROGEOLOGICAL SETTING

DRAWING 05

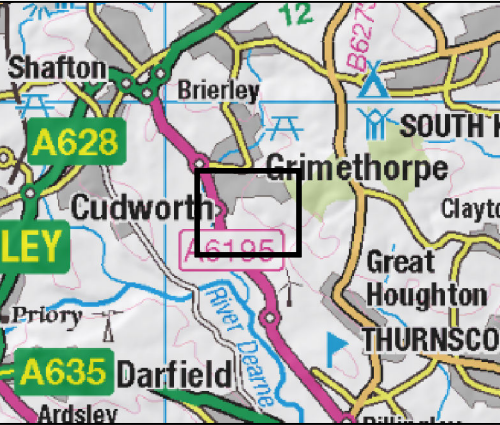
Scale 1:25,000 @ A3 Date SEPTEMBER 2020

03563.00037.18.05.1 Hydrological and Hydrogeological Setting



LEGEND

- Applicant Land Ownership
- Current Planning Boundary
- Proposed Extension
- Borehole Location
- Borehole Location with Measured Water Level



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EXTENSION TO CARLTON
MAIN CLAY PIT
GEOLOGY AND WATER ENVIRONMENT
SITE SPECIFIC BOREHOLE LOCATIONS

DRAWING 06

Scale 1:5,000 @ A3 Date SEPTEMBER 2020

03563.00037.18.06.0 Site Specific Borehole Locations