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Yorkshire Green Energy Enablement (GREEN) Project

Volume 5

Document 5.4.10 ES Chapter 10 Geology and Hydrogeology - Figures

Final Issue A

November 2022

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nationalgrid

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Contents

Figure 10.1 Solid Geology

Figure 10.2 Superficial Geology

Figure 10.3 Landfills, waste and potentially contaminative previous land uses

Figure 10.4 Aquifers and water abstractions

Figure 10.5 NO FIGURE

Figure 10.6 Detailed baseline at proposed Overton Substation site

Figure 10.7 Historical Pollution incidents to water near to the proposed Overton Substation site

Figure 10.8 Historical land use at the Tadcaster Area

Figure 10.9 Historical pollution incidents in the Monk Fyrston Area

Figure 10.10 Former Quarry and proposed underground cable configuration in the Tadcaster Area

Figure 10.11 Potential ground gas sources near to the proposed Monk Fyrston Substation Construction Compounds

Figure 10.12 Potential ground gas sources near to the proposed Tadcaster Area

Figure 10.13 Source Projection Zones 2 and 3 in the Tadcaster Area

Figure 10.14 Configuration of works relative to Source Protection Zones 1

Figure 10.15 Landslide hazard areas

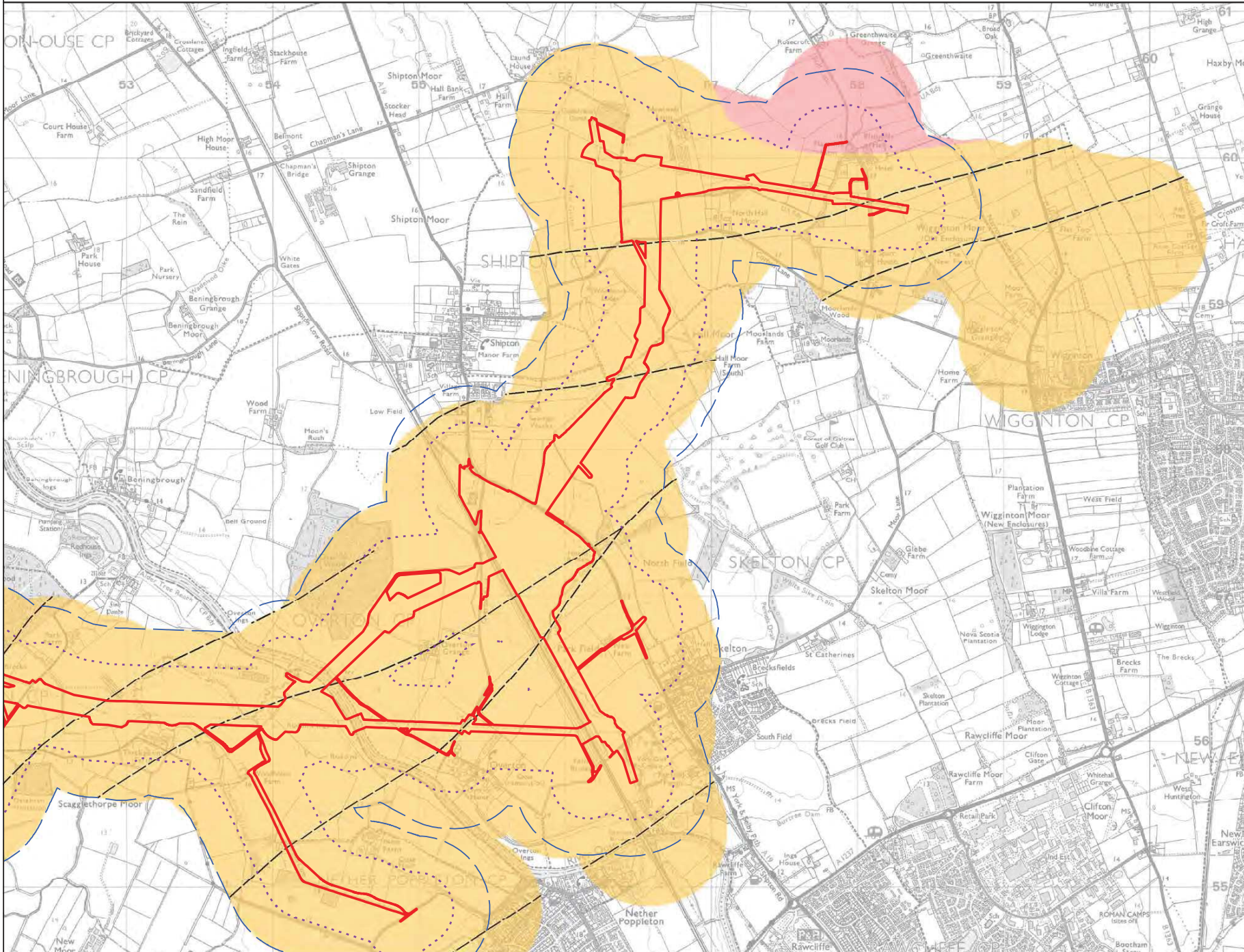
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Version History

Date	Version	Status	Description / Changes
01/11/2022	A	FINAL	First Issue



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.1 Solid Geology



Legend

- Order Limits
- 250m Study Area
- 500m Study Area

Linear Geology

- Fault (inferred)

Bedrock Geology

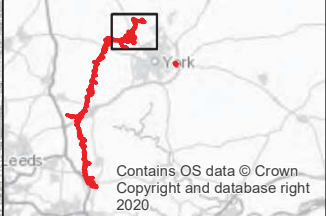
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 Geology and Hydrogeology
 Figure 10.1
 Solid Geology

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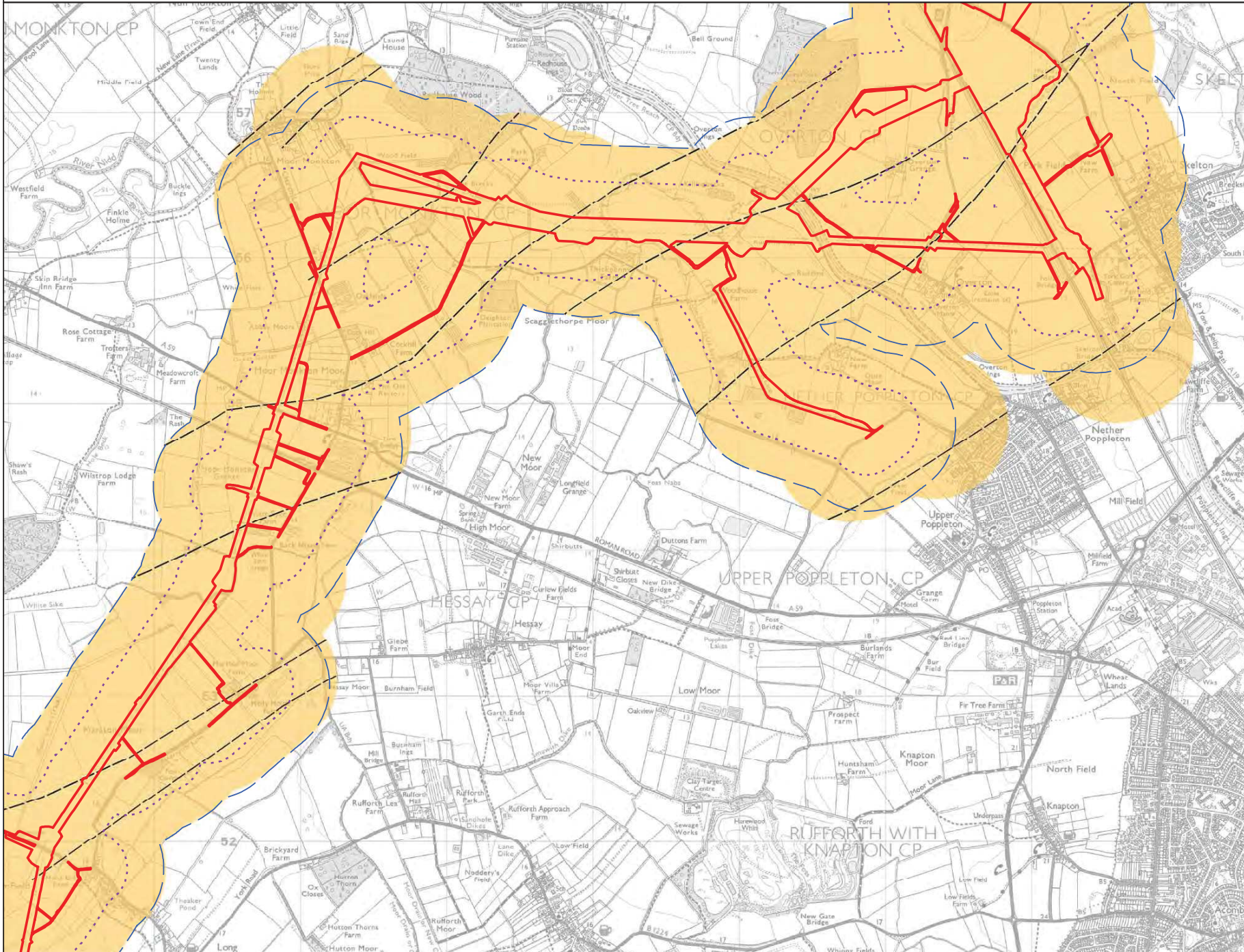
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Scale	Sheet Size	Sheet	Issue
1: 25000	A3	SHEET 1 OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
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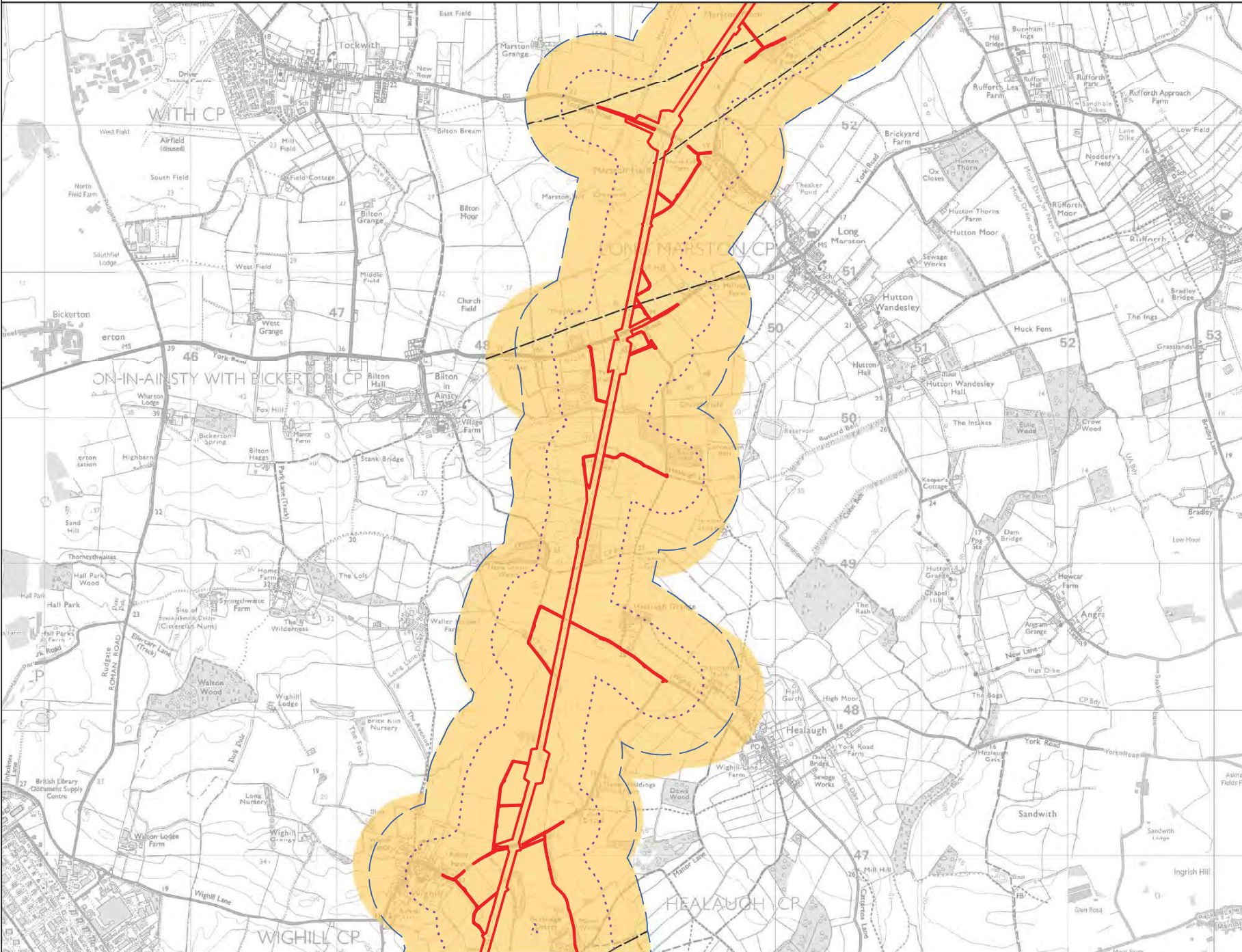
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5.4.10 ES Chapter 10 Geology and Hydrogeology Figure 10.1 Solid Geology					
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Figure Number		Figure 10.1			
Drawing Reference: GM11455:Figure 10.1 Sheet 2					
Scale	Sheet Size	Sheet	Issue		
1: 25000	A3	SHEET 2 OF 7	A		



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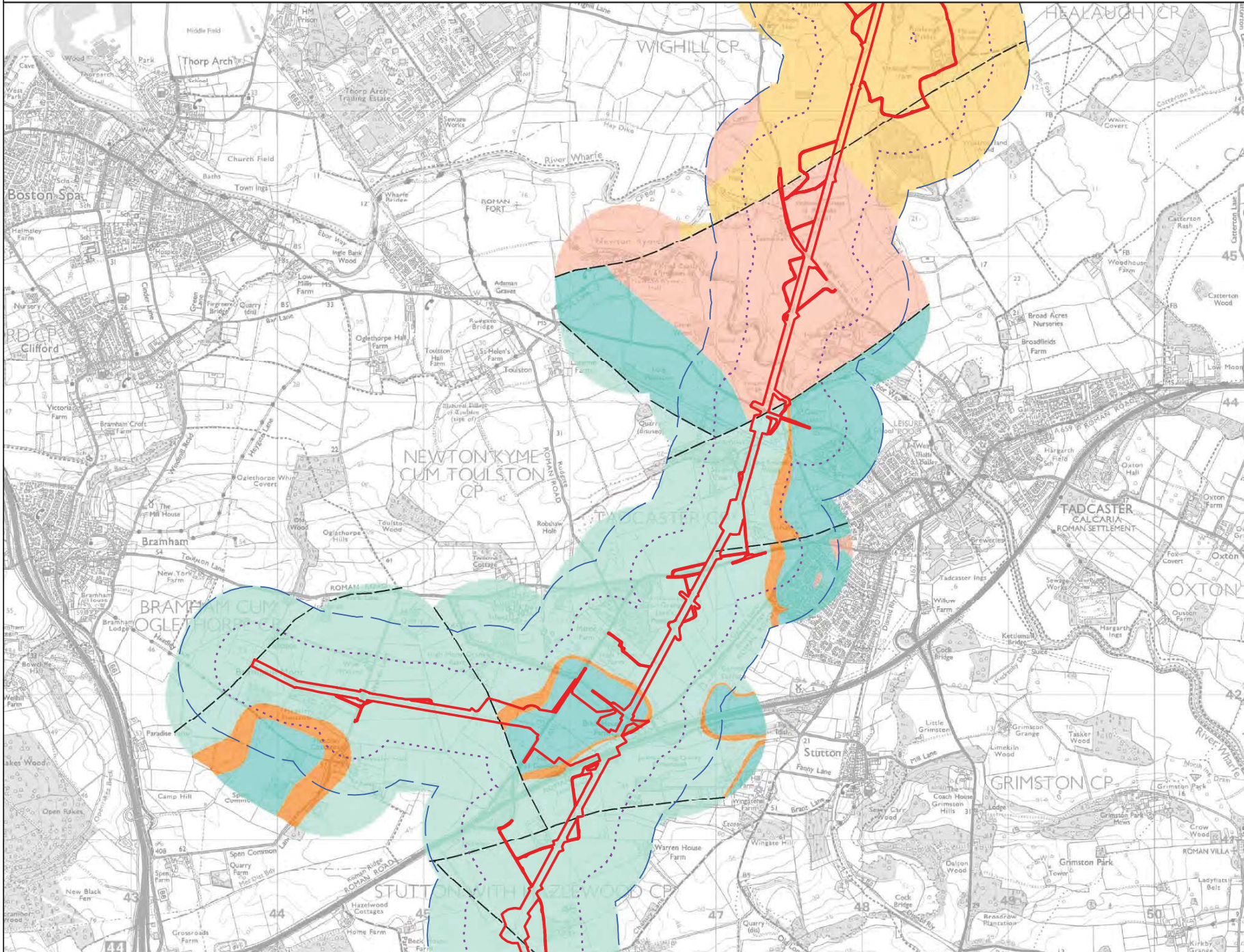
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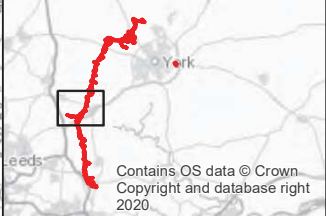
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Figure Number	Figure 10.1
Drawing Reference	GM11455:Figure 10.1 Sheet 4
Scale	1: 25000
Sheet Size	A3
Sheet	SHEET 4 OF 7
Issue	A



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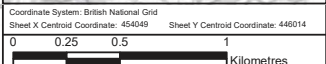
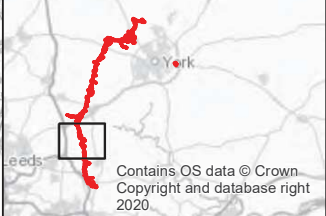
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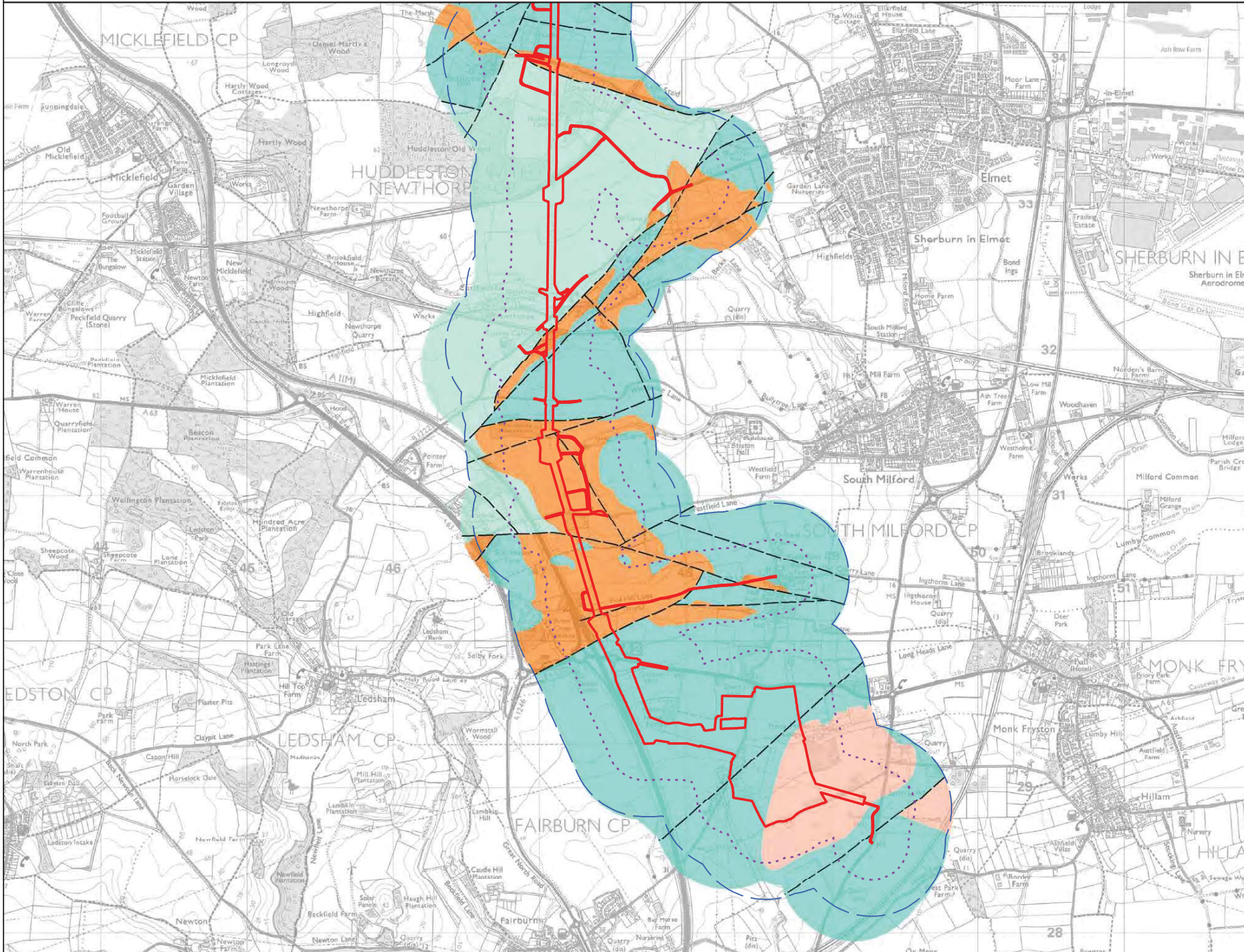


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 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.1 Solid Geology



Legend

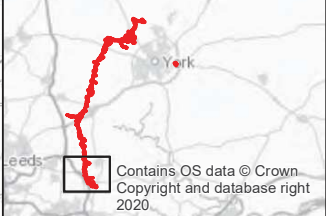
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 Geology and Hydrogeology
 Figure 10.1
 Solid Geology

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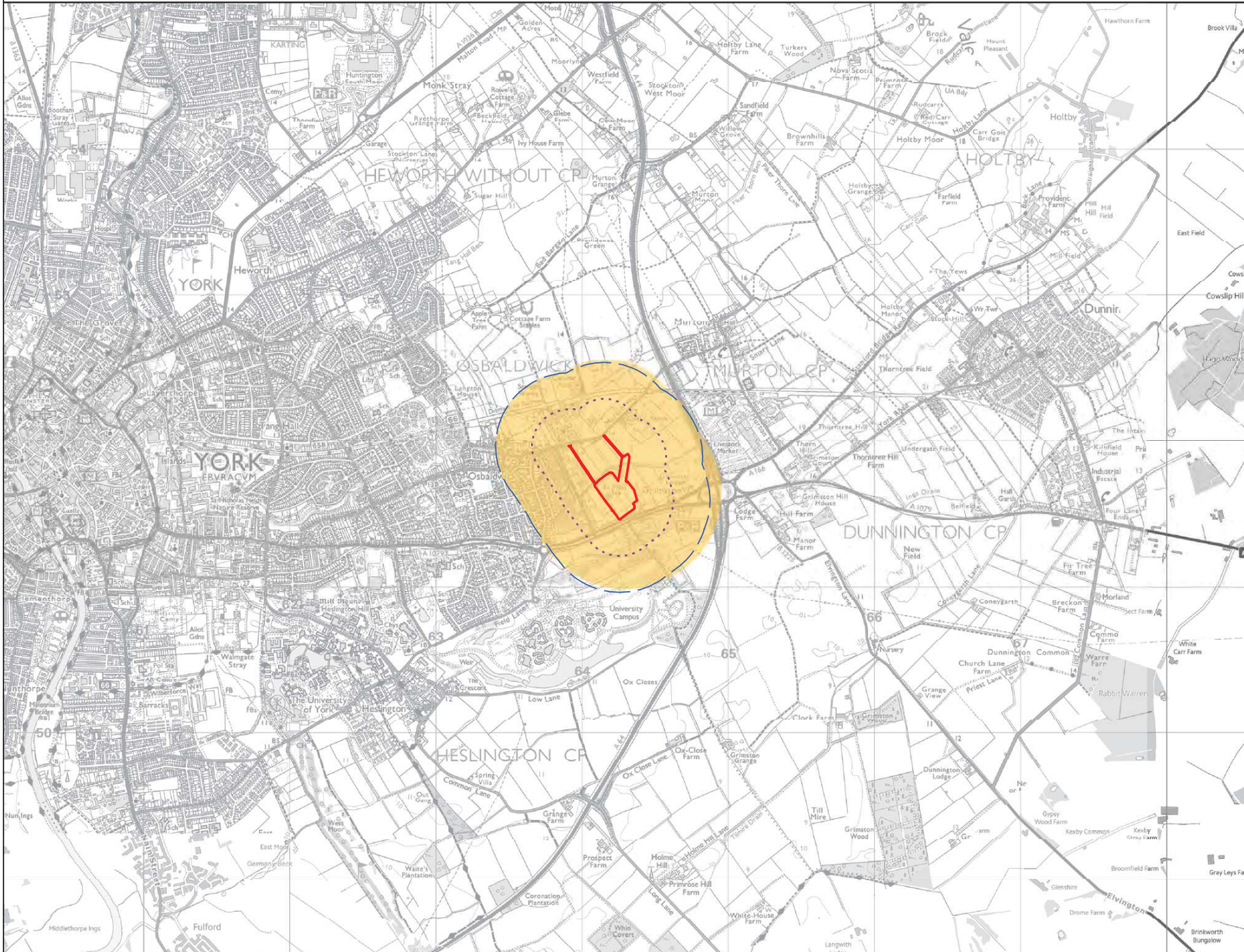
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.1 Solid Geology

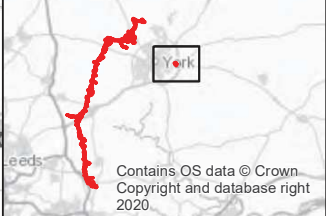


- Legend
- Order Limits
 - 250m Study Area
 - 500m Study Area

Bedrock Geology
 Sherwood
 SSG-SDST Sandstone Group - Sandstone

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 Geology and Hydrogeology
 Figure 10.1
 Solid Geology

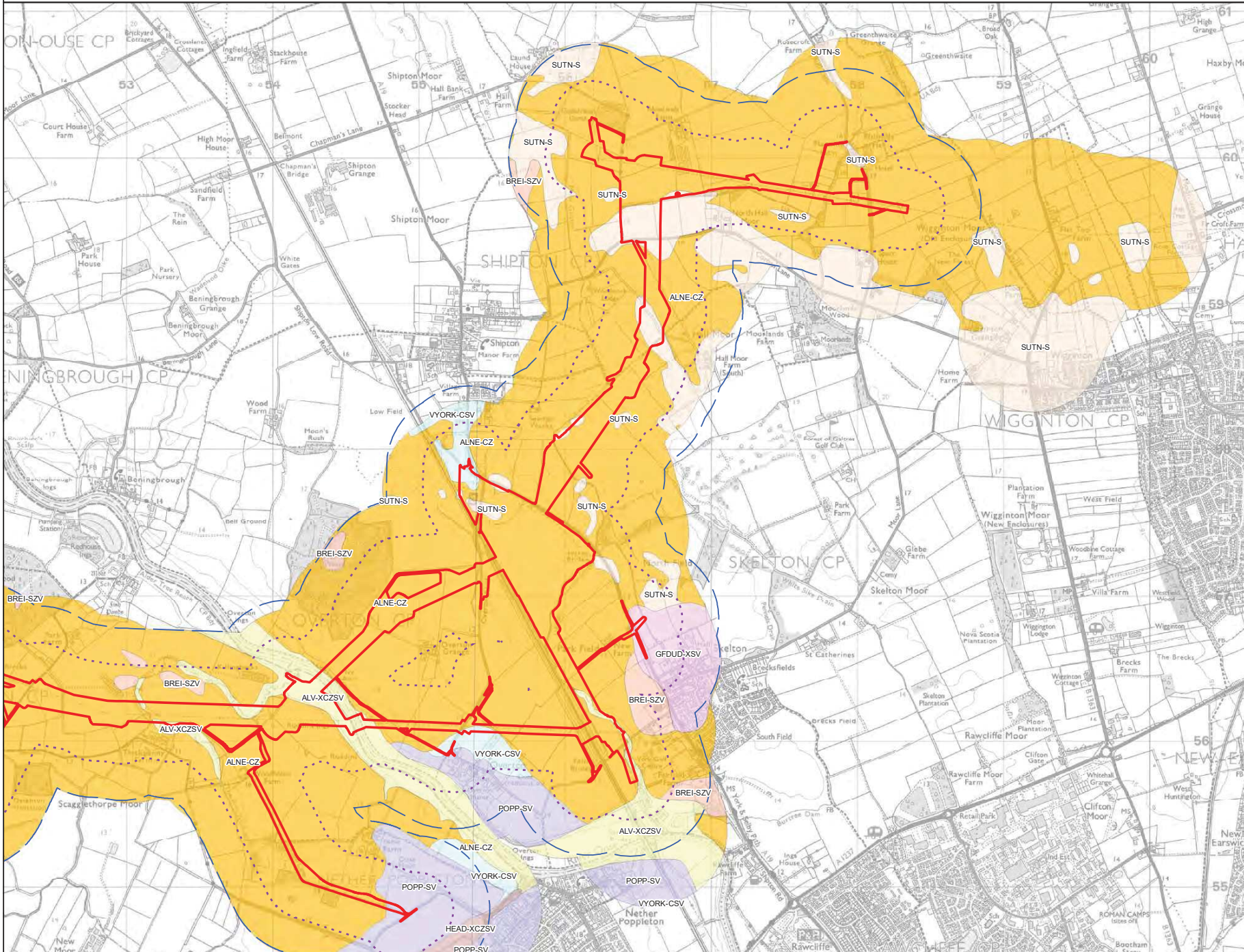
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.2 Superficial Geology



Legend

- Order Limits
- 250m Study Area
- 500m Study Area

Superficial Geology

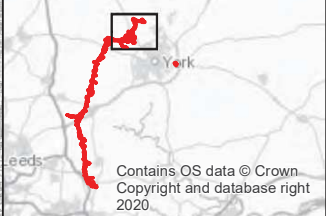
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- BREI-SZV BREIGHTON SAND FORMATION - SAND, SILTY, GRAVELLY
- GFDUD-XSV GLACIOFLUVIAL DEPOSITS, DEVENIAN - SAND AND GRAVEL
- POPP-SV POPPLETON GLACIOFLUVIAL MEMBER - SAND, GRAVELLY
- SUTN-S SUTTON SAND FORMATION - SAND
- VYORK-CSV VALE OF YORK FORMATION - CLAY, SANDY, GRAVELLY
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 Geology and Hydrogeology
 Figure 10.2
 Superficial Geology

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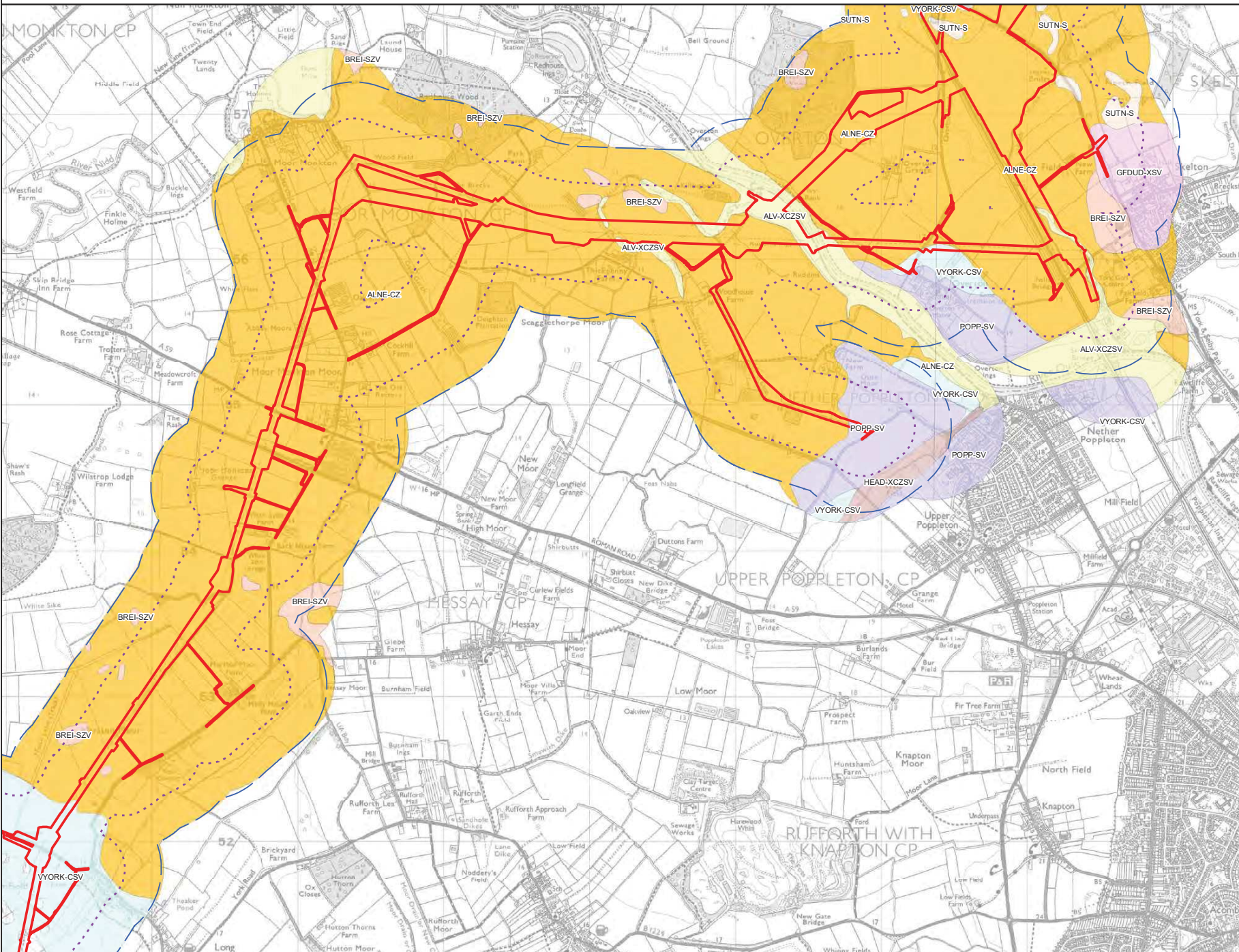
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 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.2 Superficial Geology



Legend

- Order Limits
- 250m Study Area
- 500m Study Area

Superficial Geology

- ALV-XCZSV ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
- ALNE ALNE GLACIOLACUSTRINE FORMATION - CLAY, SILTY
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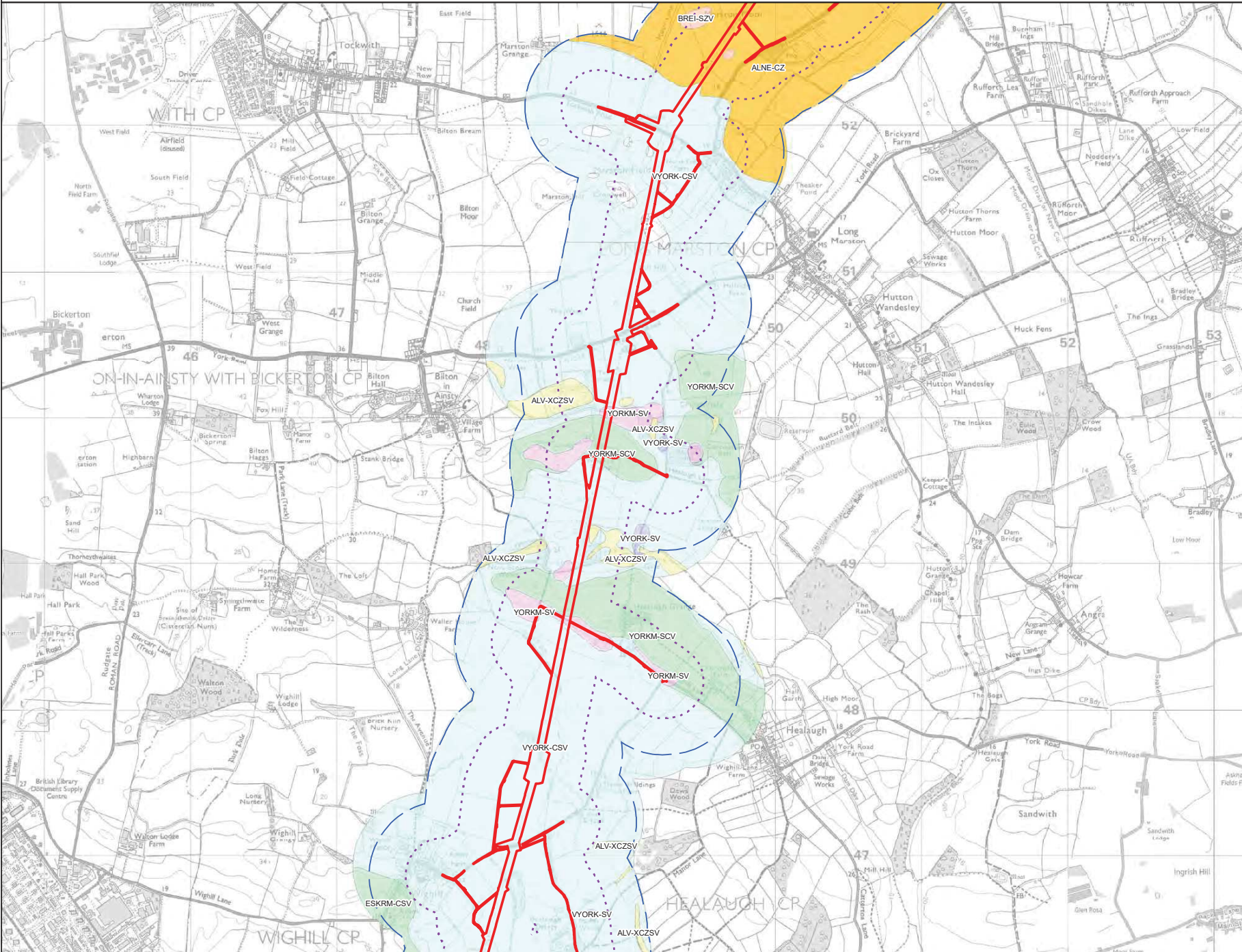
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- VYORK-SV VALE OF YORK FORMATION - SAND, GRAVELLY
- YORKM-SCV YORK MORaine MEMBER - SAND, CLAYEY, GRAVELLY
- YORKM-SV YORK MORaine MEMBER - SAND, GRAVELLY

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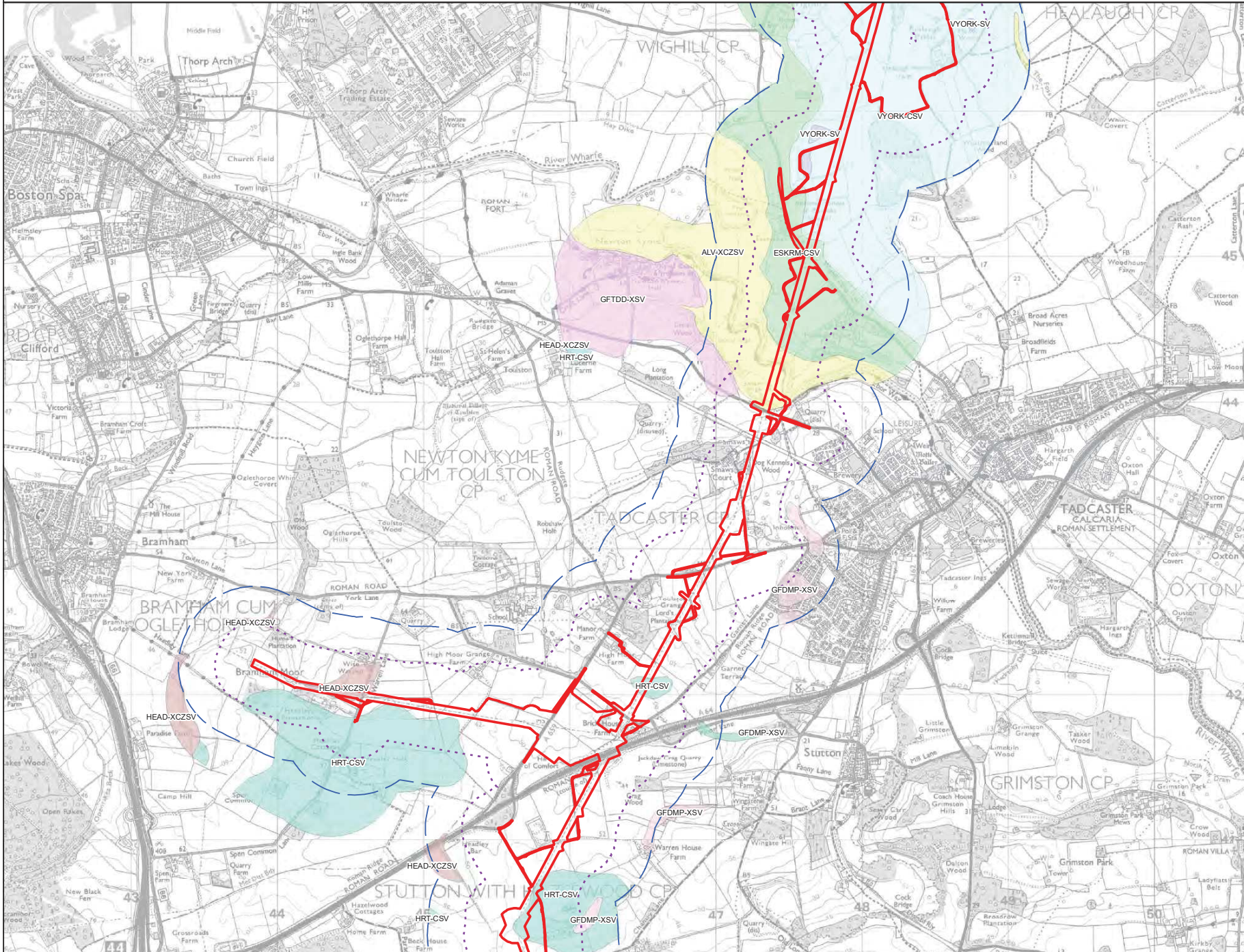
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Figure Number		Figure 10.2			
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Scale	Sheet Size	Sheet	Issue		
1: 25000	A3	SHEET 3 OF 7	A		



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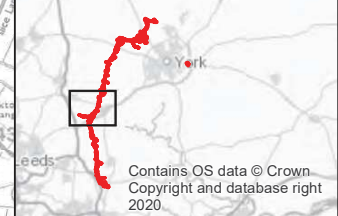
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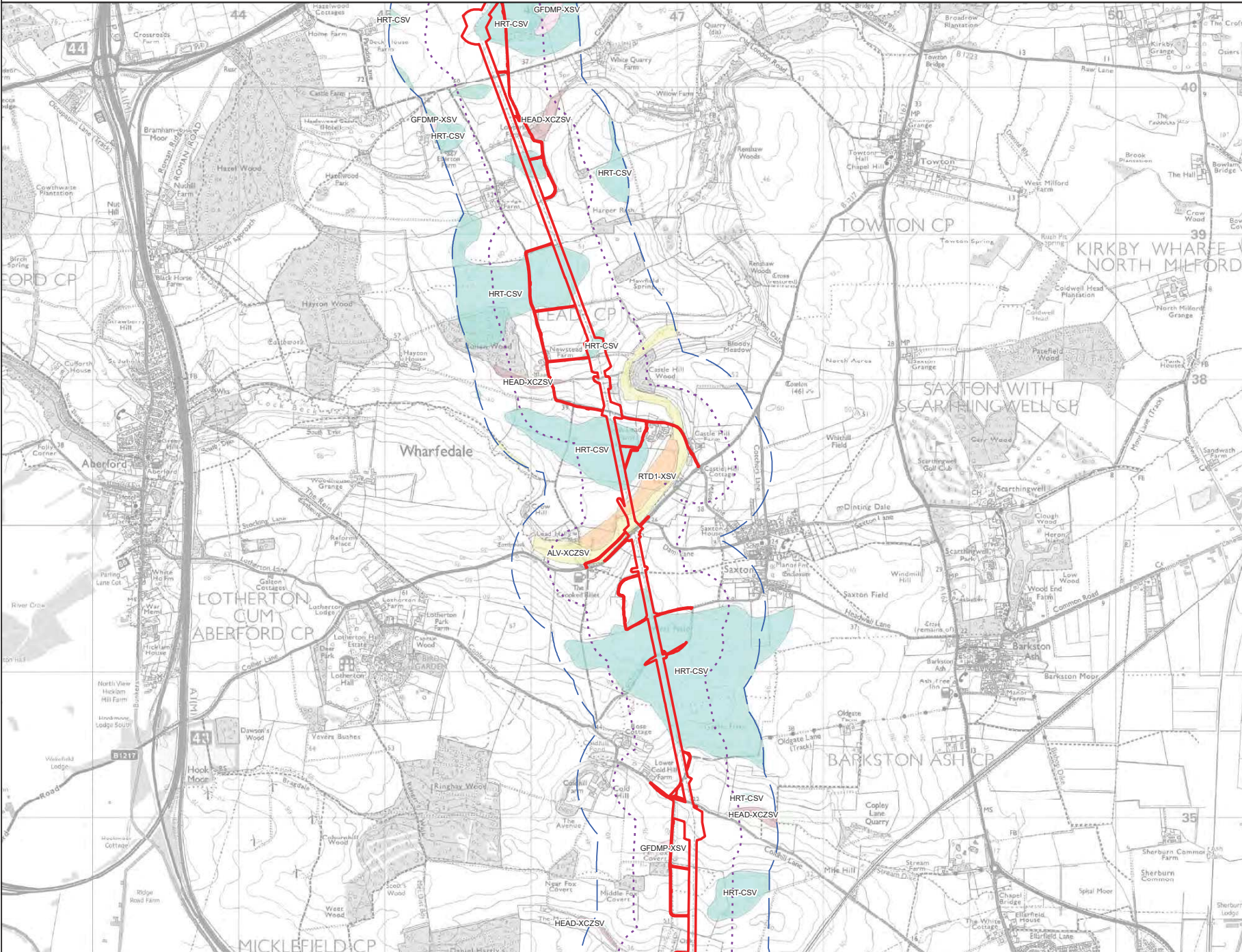
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 - HEAD-XCZSV HEAD - CLAY, SILT, SAND AND GRAVEL
 - RTD1-XSV RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL

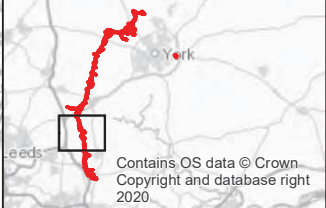
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5.4.10 ES Chapter 10
Geology and Hydrogeology
Figure 10.2
Superficial Geology

nationalgrid

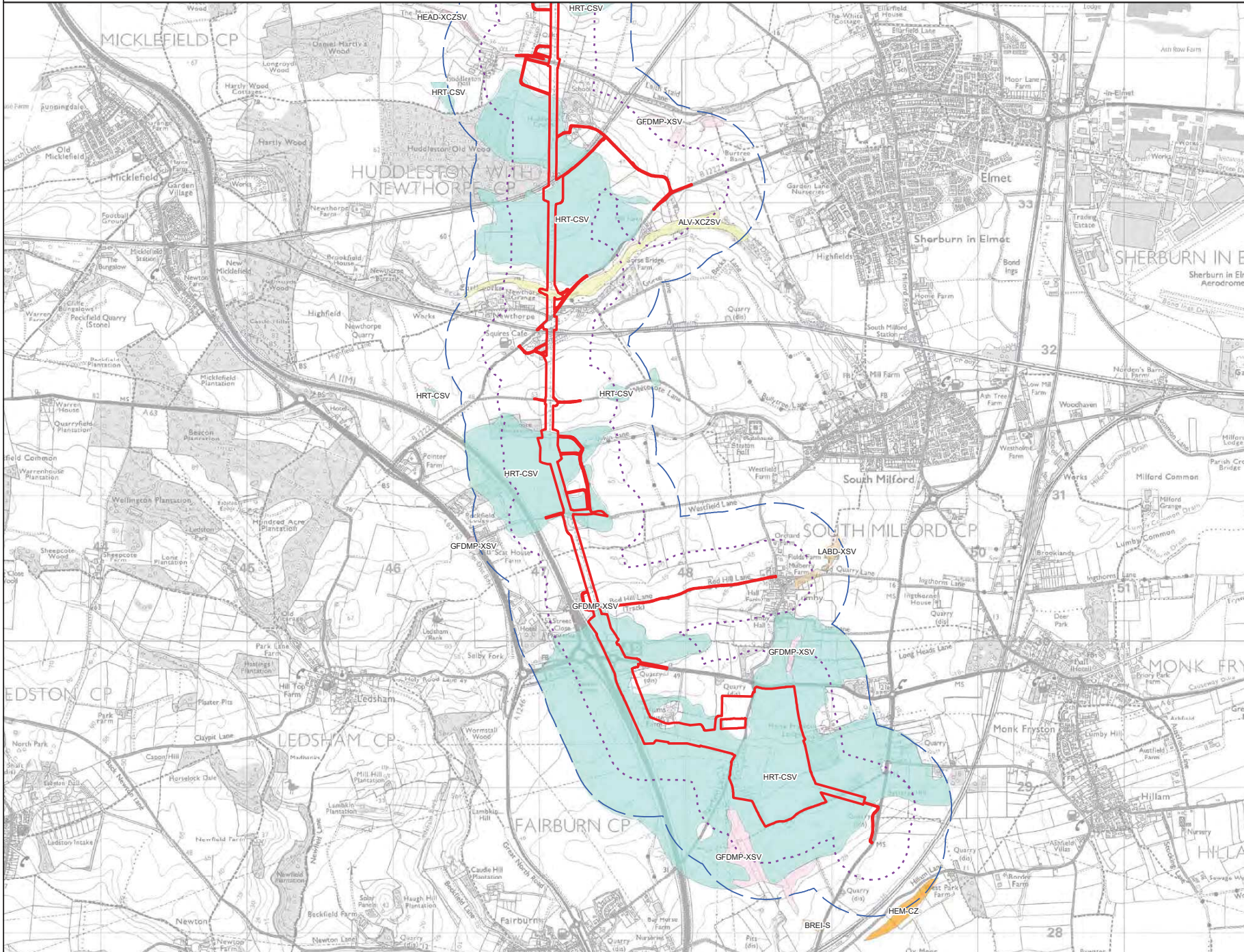
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Drawing Reference: GM11455(Figure 10.2 Sheet 5)

Scale	Sheet Size	Sheet	Issue
1: 25000	A3	SHEET 5 OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.2 Superficial Geology



Legend

- Order Limits
- 250m Study Area
- 500m Study Area

Superficial Geology

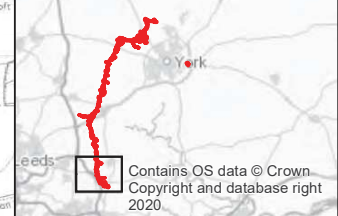
- ALV-XCZSV ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
- LABD-XSV LACUSTRINE BEACH DEPOSITS - SAND AND GRAVEL
- BREI-S BREIGHTON SAND FORMATION - SAND
- HEM-CZ HEMNBROUGH GLACIOLACUSTRINE FORMATION - CLAY, SILTY
- HRT-CSV HARRGATE TILL FORMATION - CLAY, SANDY, GRAVELLY
- GFDMP-XSV GLACIOFLUVIAL DEPOSITS, MD PLEISTOCENE - SAND AND GRAVEL
- HEAD-XCZSV HEAD - CLAY, SILT, SAND AND GRAVEL

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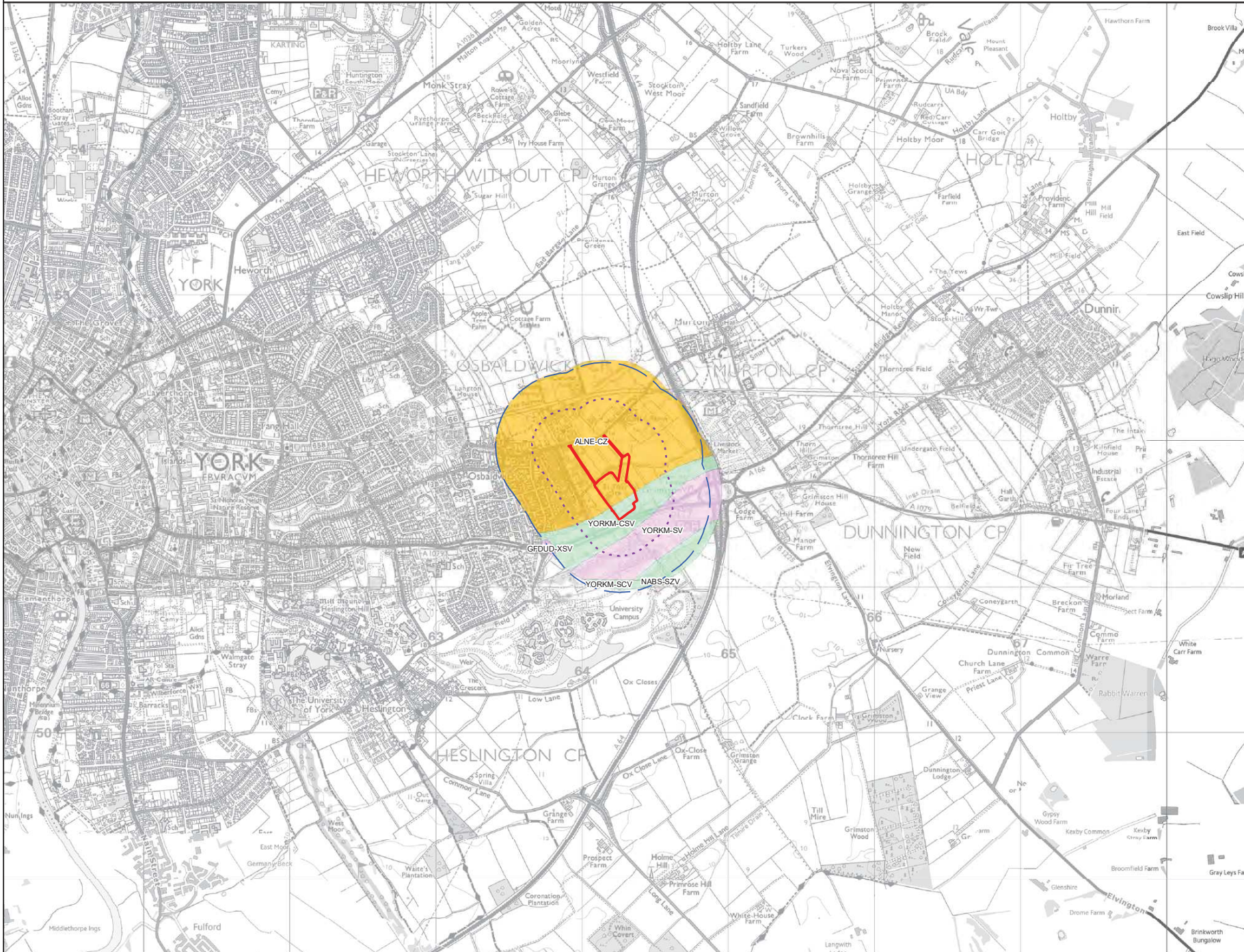
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Issue	Date	Remarks	Drawn	Checked	Approved
Title					

5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.2
 Superficial Geology

nationalgrid			
Figure Number	Figure 10.2		
Drawing Reference	GM11455:Figure 10.2 Sheet 6		
Scale	Sheet Size	Sheet	Issue
1: 25000	A3	SHEET 6 OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.10 ES Chapter 10 Geology and Hydrogeology
Figure 10.2 Superficial Geology



Legend

- Order Limits
- 250m Study Area
- 500m Study Area

Superficial Geology

- ALNE-CZ ALNE GLACIOLACUSTRINE FORMATION - CLAY, SILTY
- GFDUD-XSV GLACIOFLUVIAL DEPOSITS, DEVENSIAN - SAND AND GRAVEL
- NABS-SZV NABURN SAND MEMBER - SAND, SILTY, GRAVELLY
- YORKM-CSV YORK MORaine MEMBER - CLAY, SANDY, GRAVELLY
- YORKM-SCV YORK MORaine MEMBER - SAND, CLAYEY, GRAVELLY
- YORKM-SV YORK MORaine MEMBER - SAND, GRAVELLY

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5.4.10 ES Chapter 10
Geology and Hydrogeology
Figure 10.2
Superficial Geology

nationalgrid

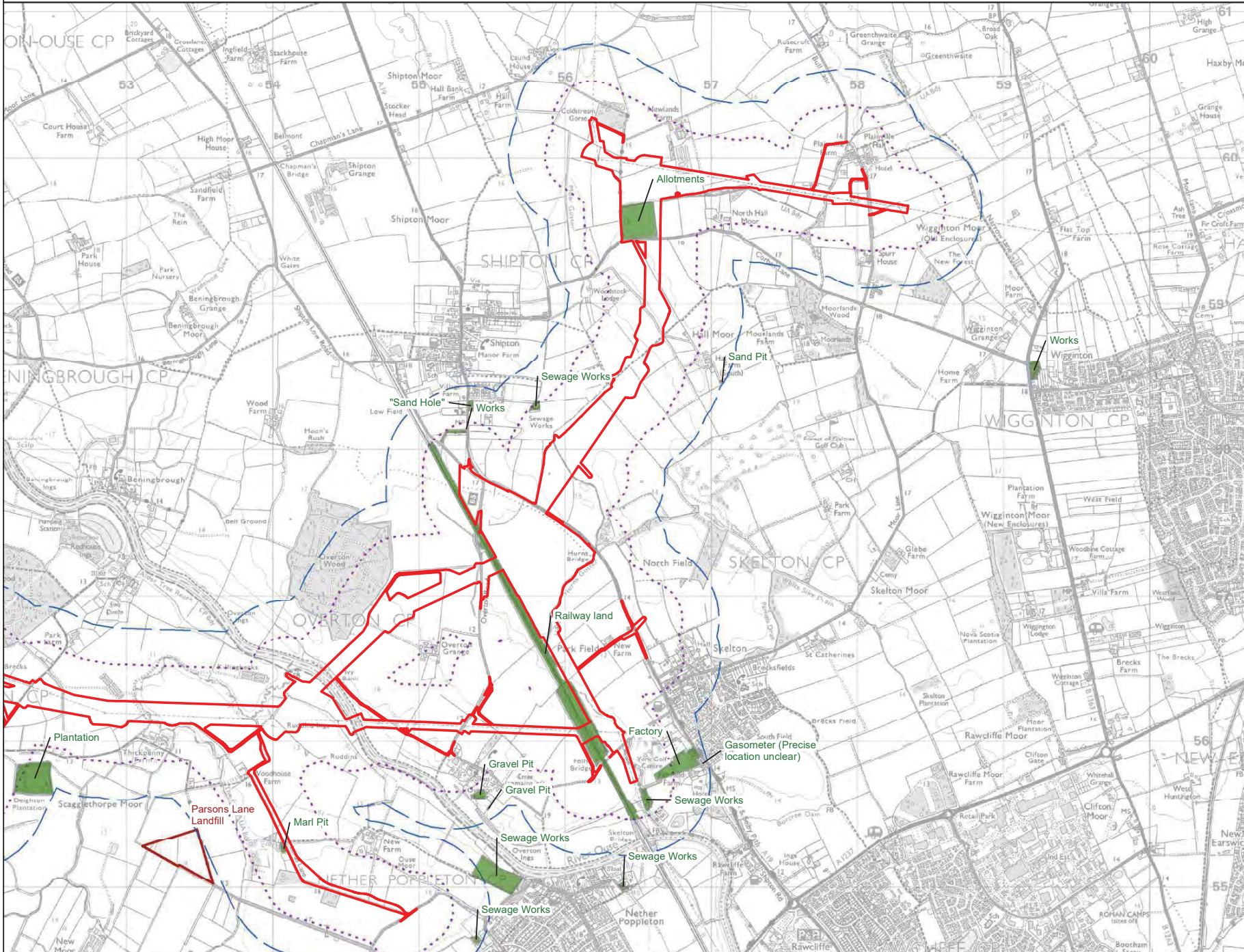
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Scale	Sheet Size	Sheet	Issue
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.3 Landfills, Waste and Potentially Contaminative Previous Land Use



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Authorised Landfill Sites
- Historical Land Use

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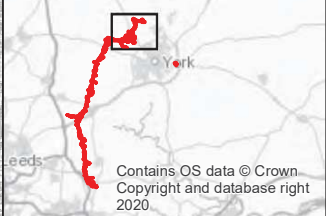
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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.3
 Landfills, Waste and Potentially Contaminative Previous Land Use



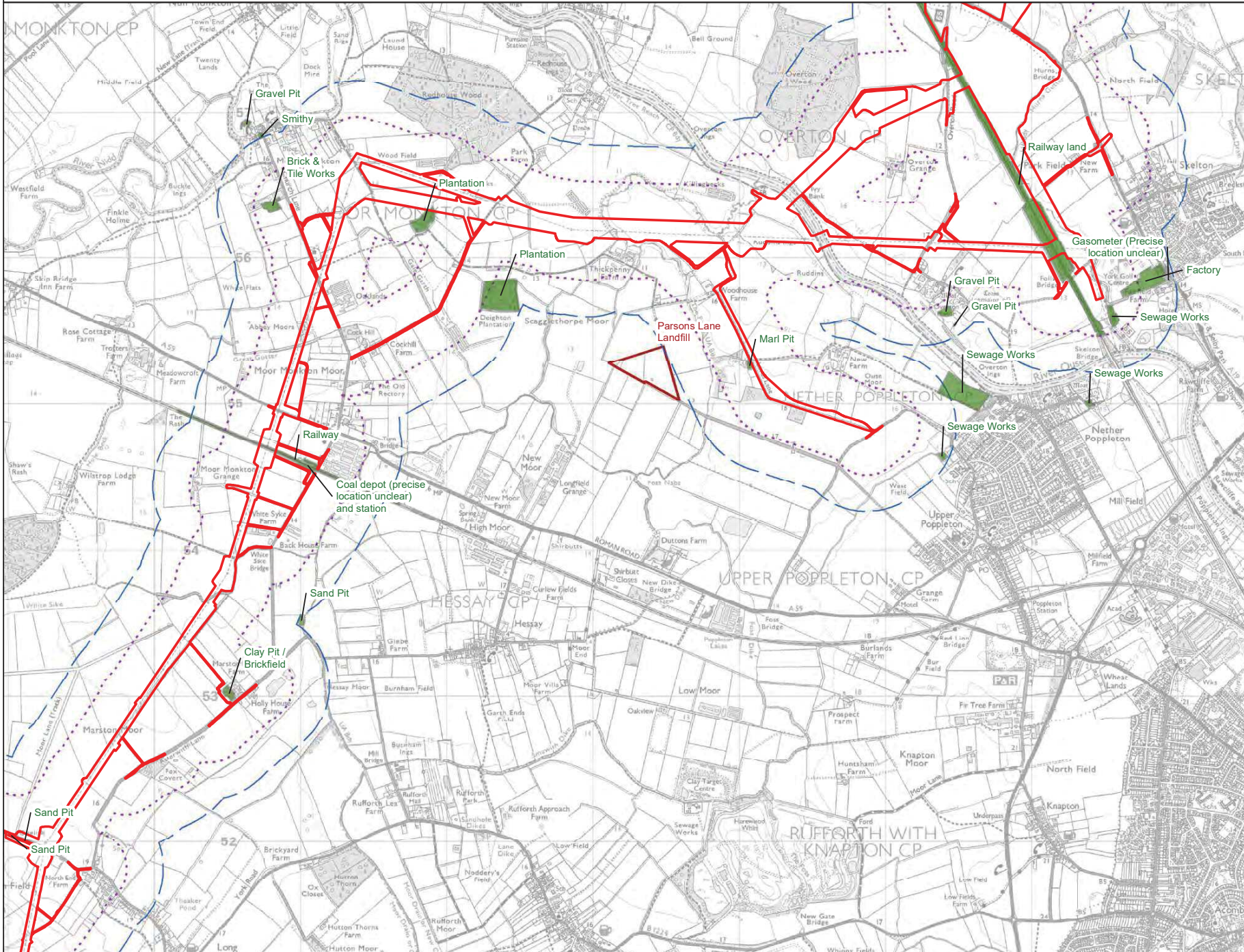
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Scale	Sheet Size	Sheet	Issue
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.3 Landfills, Waste and Potentially Contaminative Previous Land Use



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Authorised Landfill Sites
- Historical Land Use

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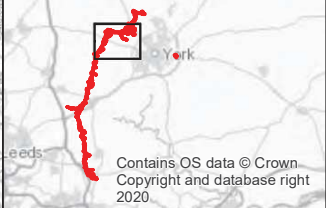
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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.3
 Landfills, Waste and Potentially Contaminative Previous Land Use



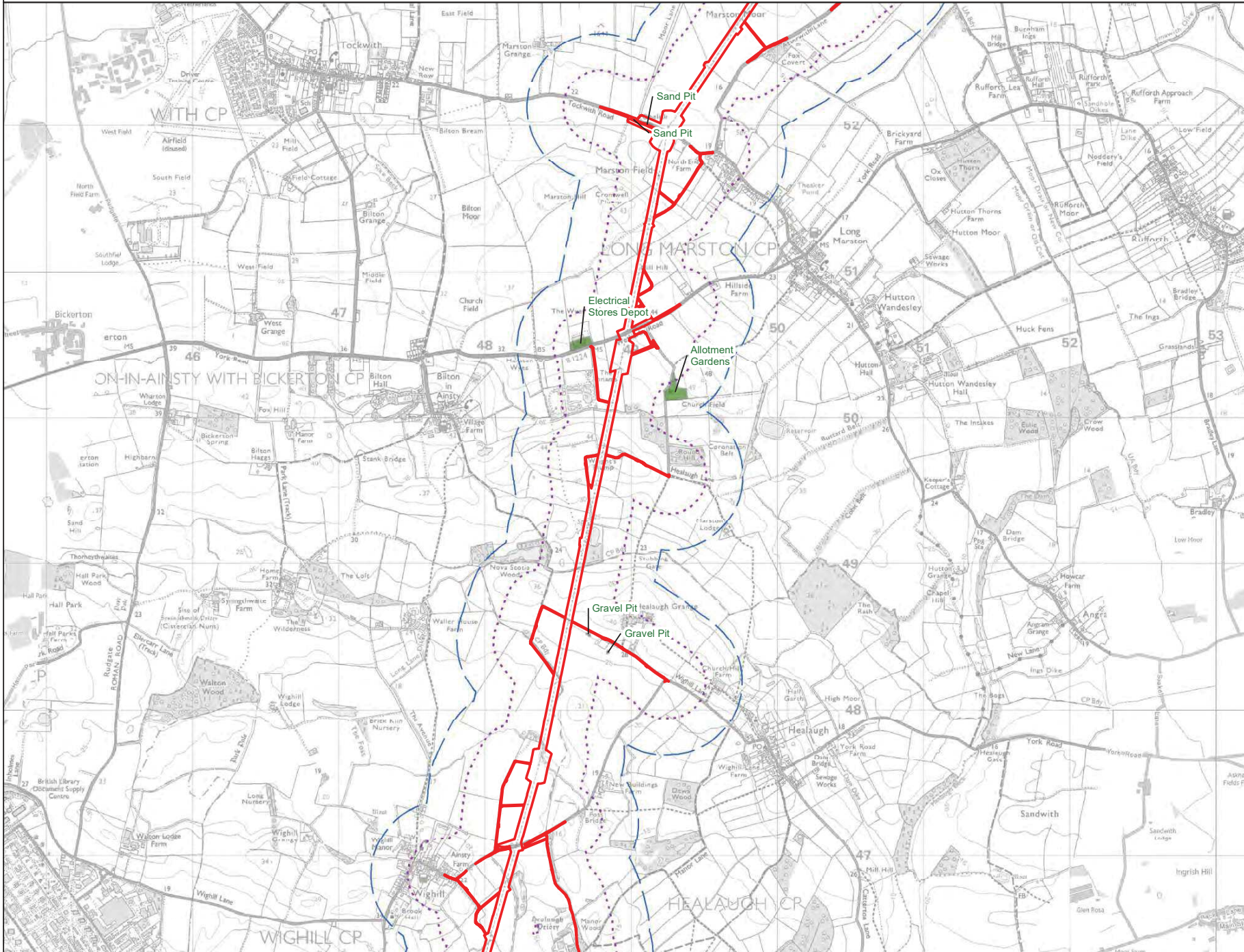
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Scale	Sheet Size	Sheet	Issue
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.3 Landfills, Waste and Potentially Contaminative Previous Land Use



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Historical Land Use

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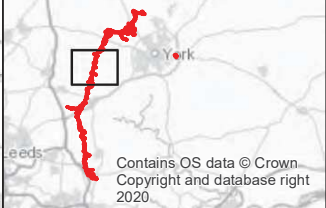
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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.3
 Landfills, Waste and Potentially Contaminative Previous Land Use

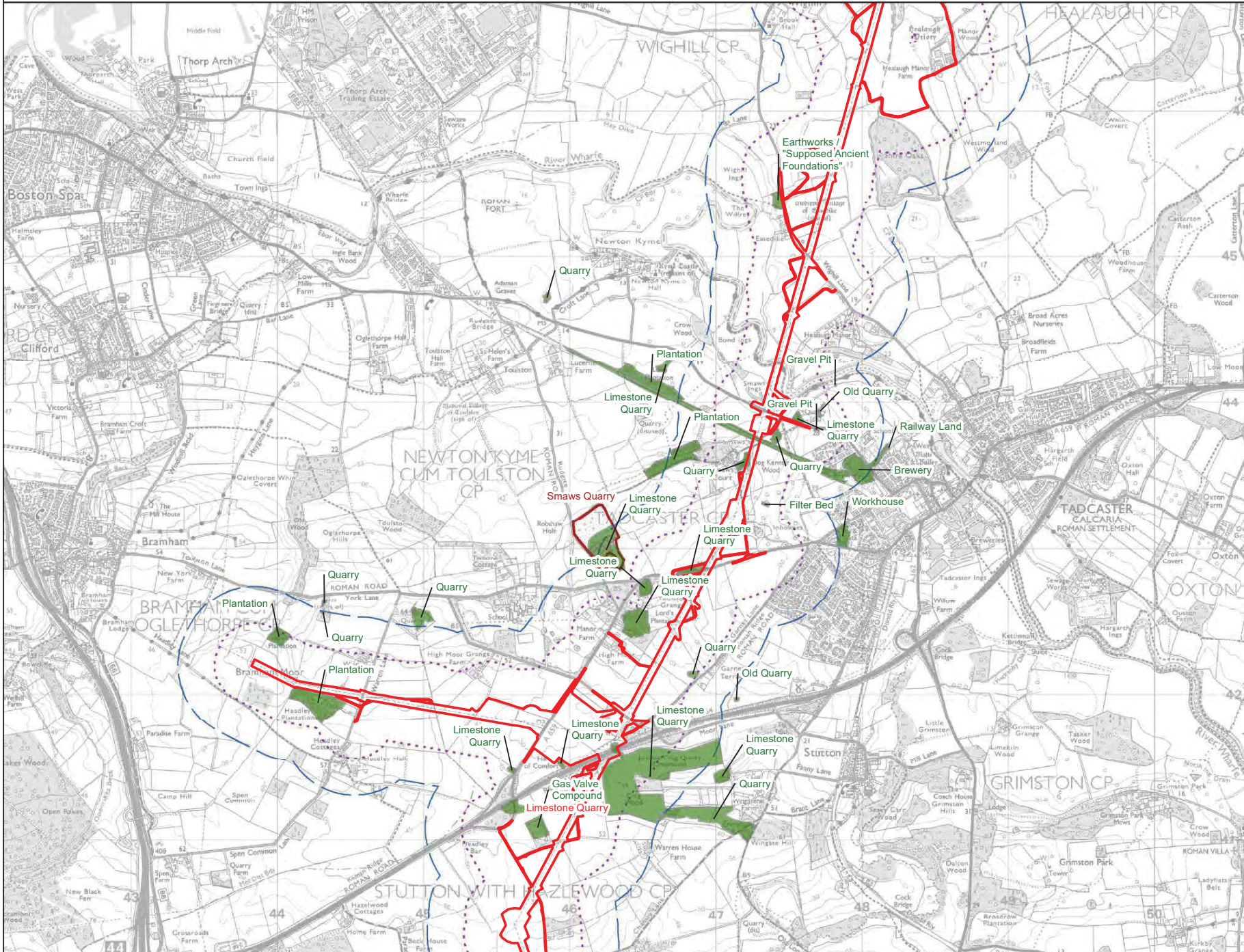
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 Drawing Reference: GM11455/Figure 10.3 Sheet 3

Scale	Sheet Size	Sheet	Issue
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.3 Landfills, Waste and Potentially Contaminative Previous Land Use



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Authorised Landfill Sites
- Historical Land Use

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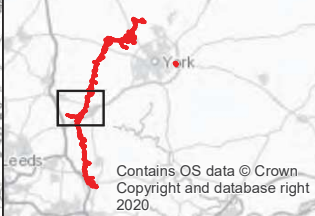
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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.3
 Landfills, Waste and Potentially Contaminative Previous Land Use



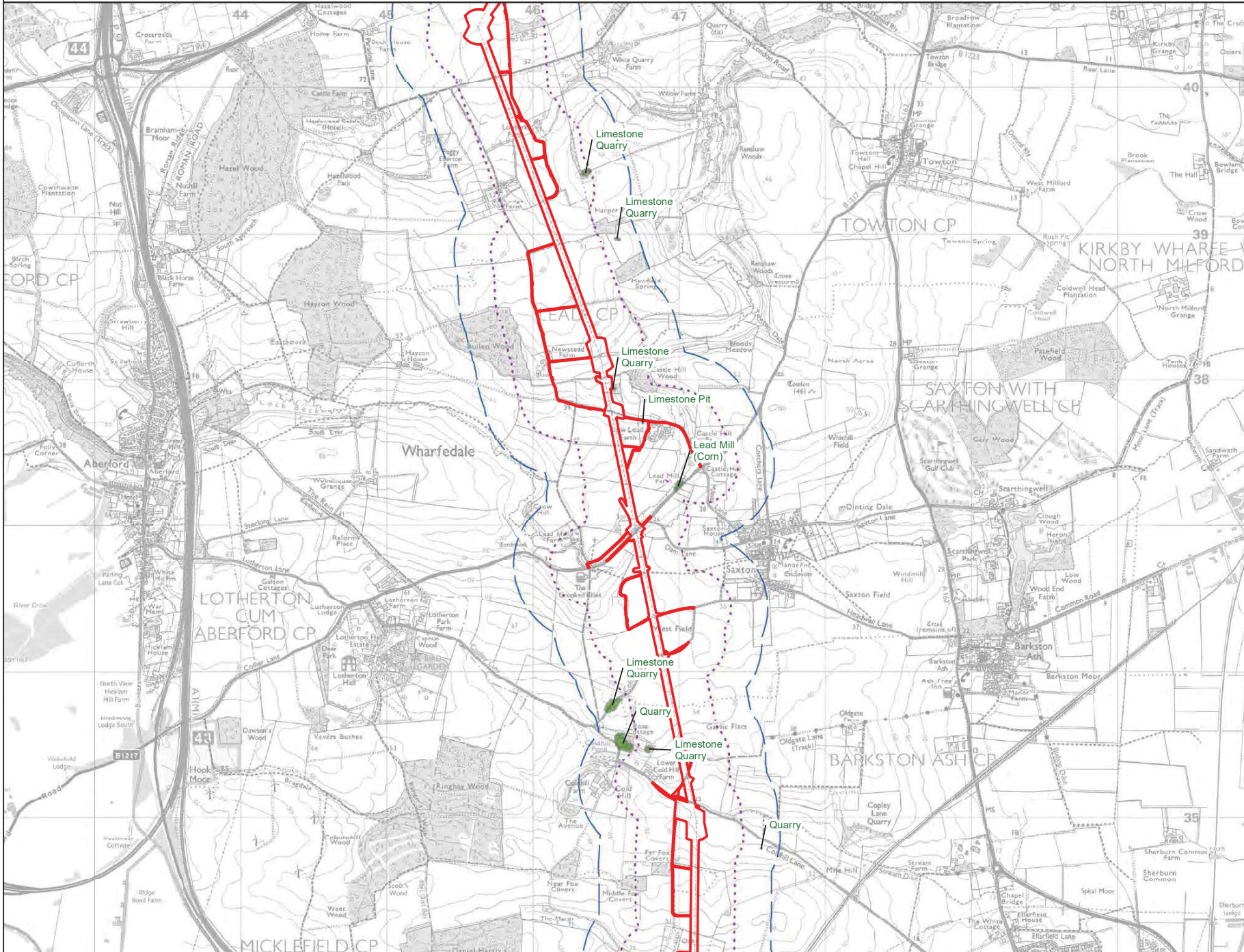
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.3 Landfills, Waste and Potentially Contaminative Previous Land Use



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Historical Land Use

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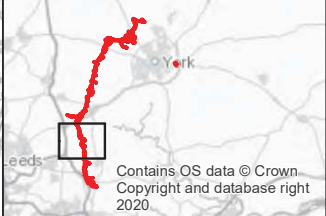
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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.3
 Landfills, Waste and Potentially Contaminative Previous Land Use



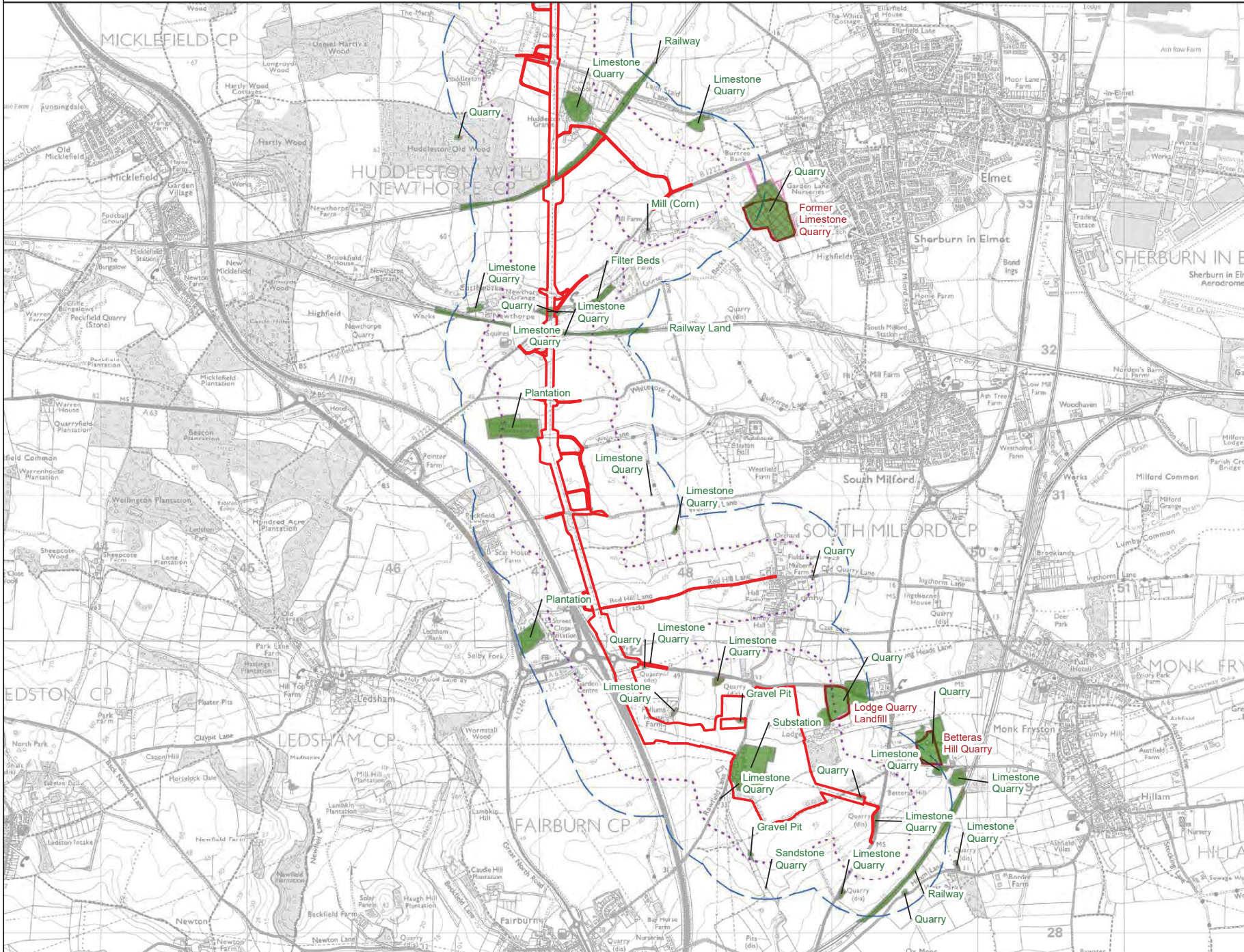
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.3 Landfills, Waste and Potentially Contaminative Previous Land Use



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Authorised Landfill Sites
- Historical Land Use

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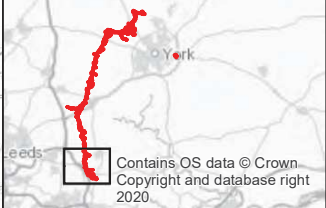
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 Geology and Hydrogeology
 Figure 10.3
 Landfills, Waste and Potentially Contaminative Previous Land Use

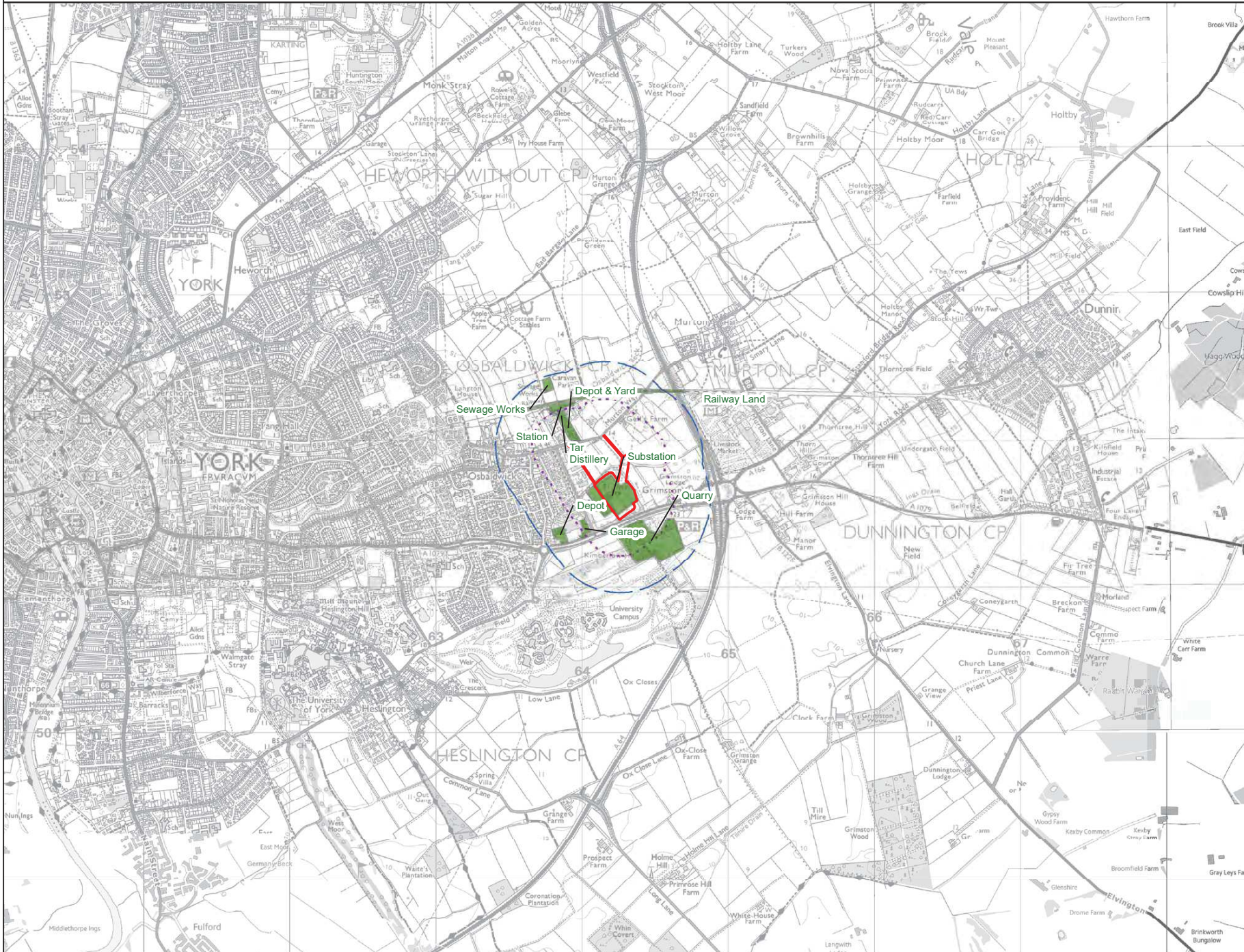


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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.3 Landfills, Waste and Potentially Contaminative Previous Land Use



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Historical Land Use

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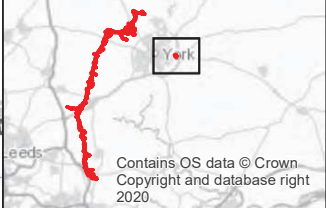
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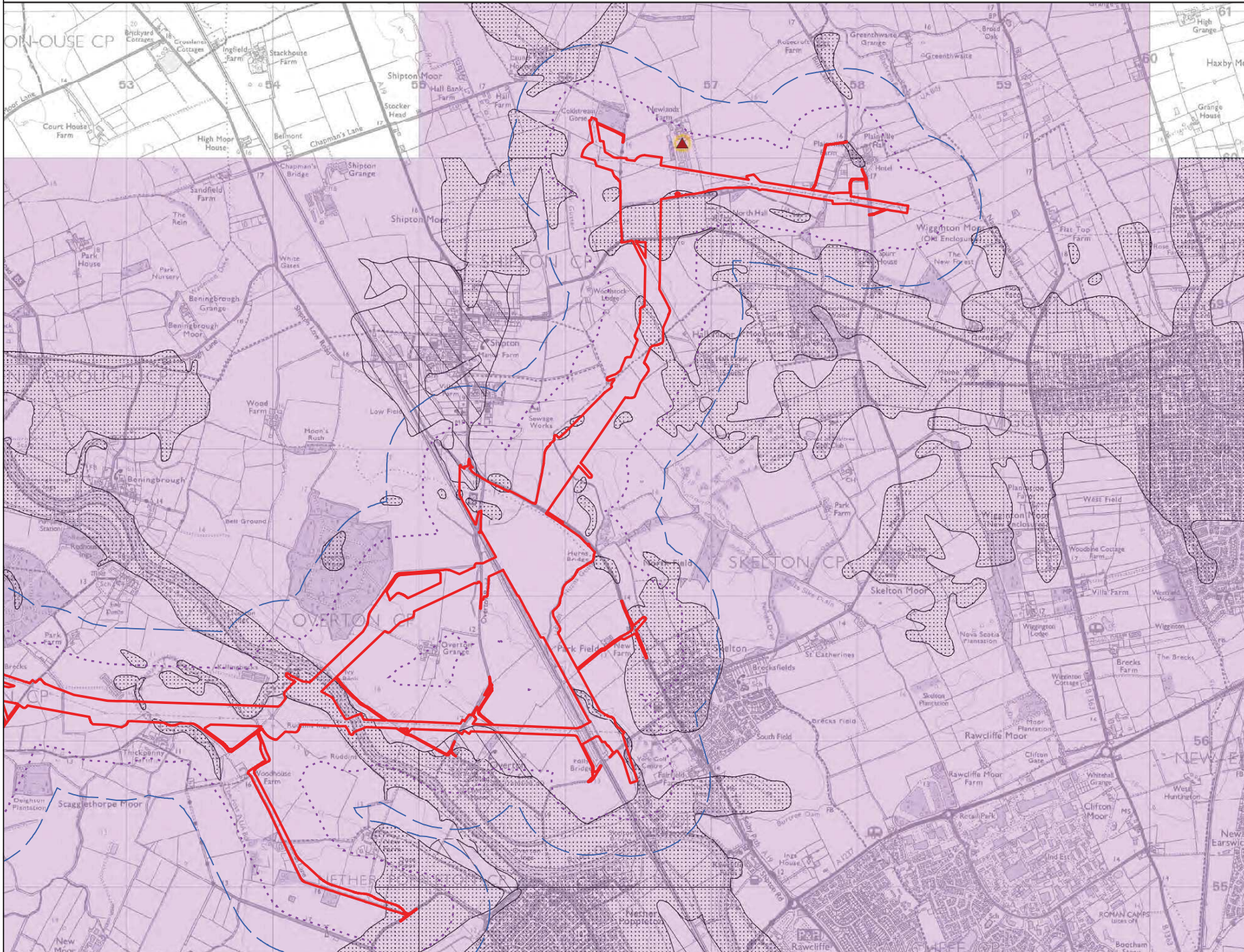
5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.3
 Landfills, Waste and Potentially Contaminative Previous Land Use



Figure Number	Figure 10.3				
Drawing Reference	GM11455/Figure 10.3 Sheet 7				
Scale	Sheet Size	Sheet	Issue		
1: 25000	A3	SHEET 7 OF 7	A		



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Aquifers & Water Abstractions



- Legend**
- Order Limits
 - 250m Study Area
 - 500m Study Area
 - ▲ Licensed groundwater abstractions (Environment Agency)
 - Source Protection Zones within 500m of Order Limits
 - Zone I - Inner Protection Zone
 - Aquifer Designation Superficial
 - Secondary A
 - Secondary (undifferentiated)
 - Aquifer Designation Bedrock
 - Principal

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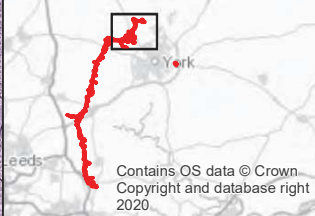
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Water Company supply abstraction co-ordinates are not supplied by the EA so any such abstractions will be absent from this figure.

Private water supply data received from Selby DC. Leeds City Council provided nil response (no data held). Hambleton DC, York City Council and Harrogate BC data yet to be received.

The areas outside of Aquifer designations which show no data not within data coverage of project baseline data collection.

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Title
 5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.4
 Aquifers & Water Abstractions

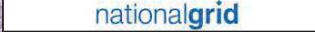


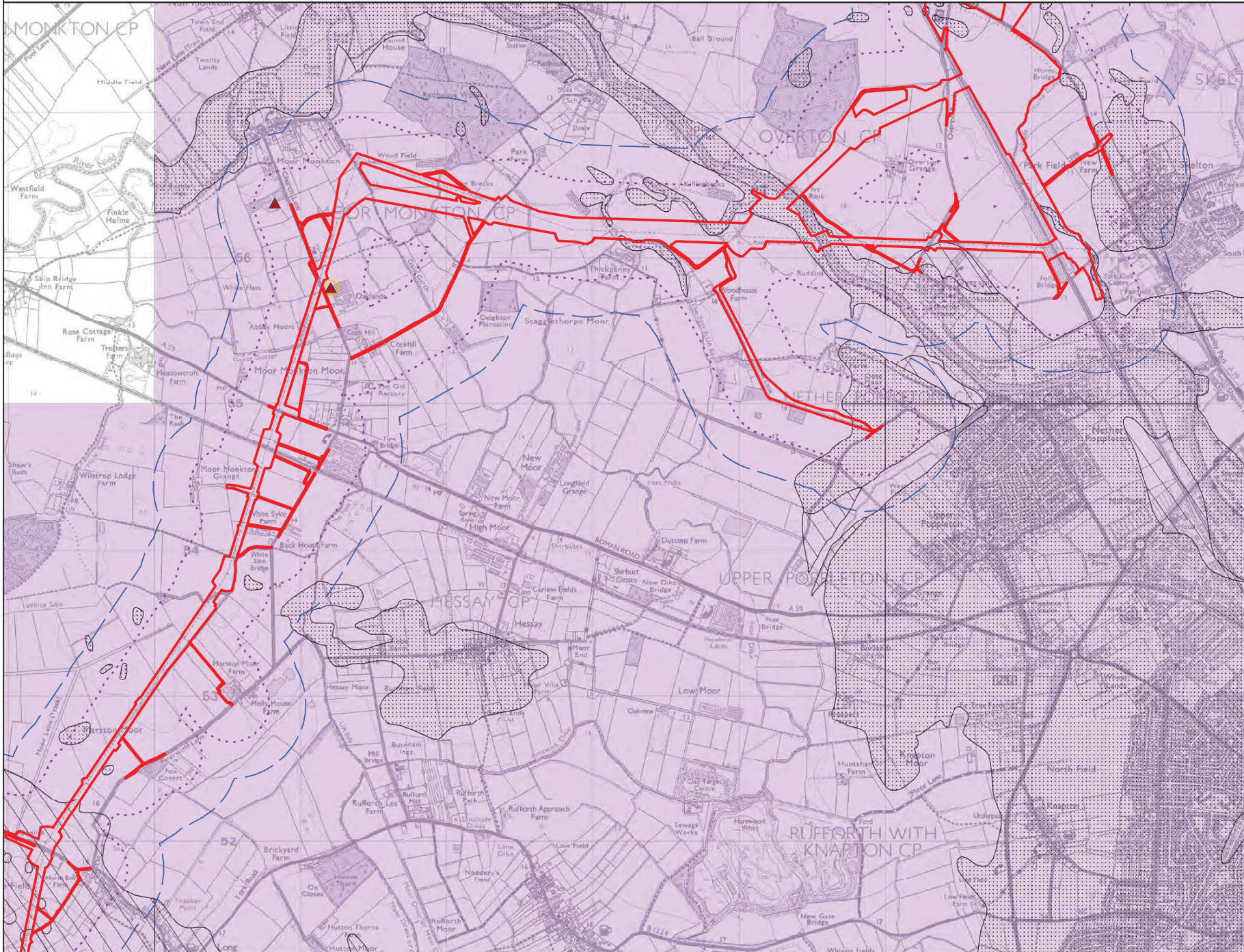
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Drawing Reference: GM11455/Figure 10.4 Sheet 1

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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Aquifers & Water Abstractions



- Legend**
- Order Limits
 - 500m Study Area
 - Zone I - Inner Protection Zone
 - Aquifer Designation Superficial
 - Secondary A
 - Secondary (undifferentiated)
 - Aquifer Designation Bedrock
 - Principal

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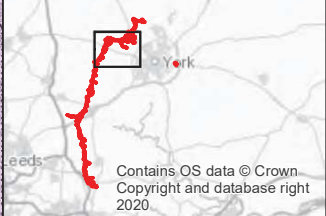
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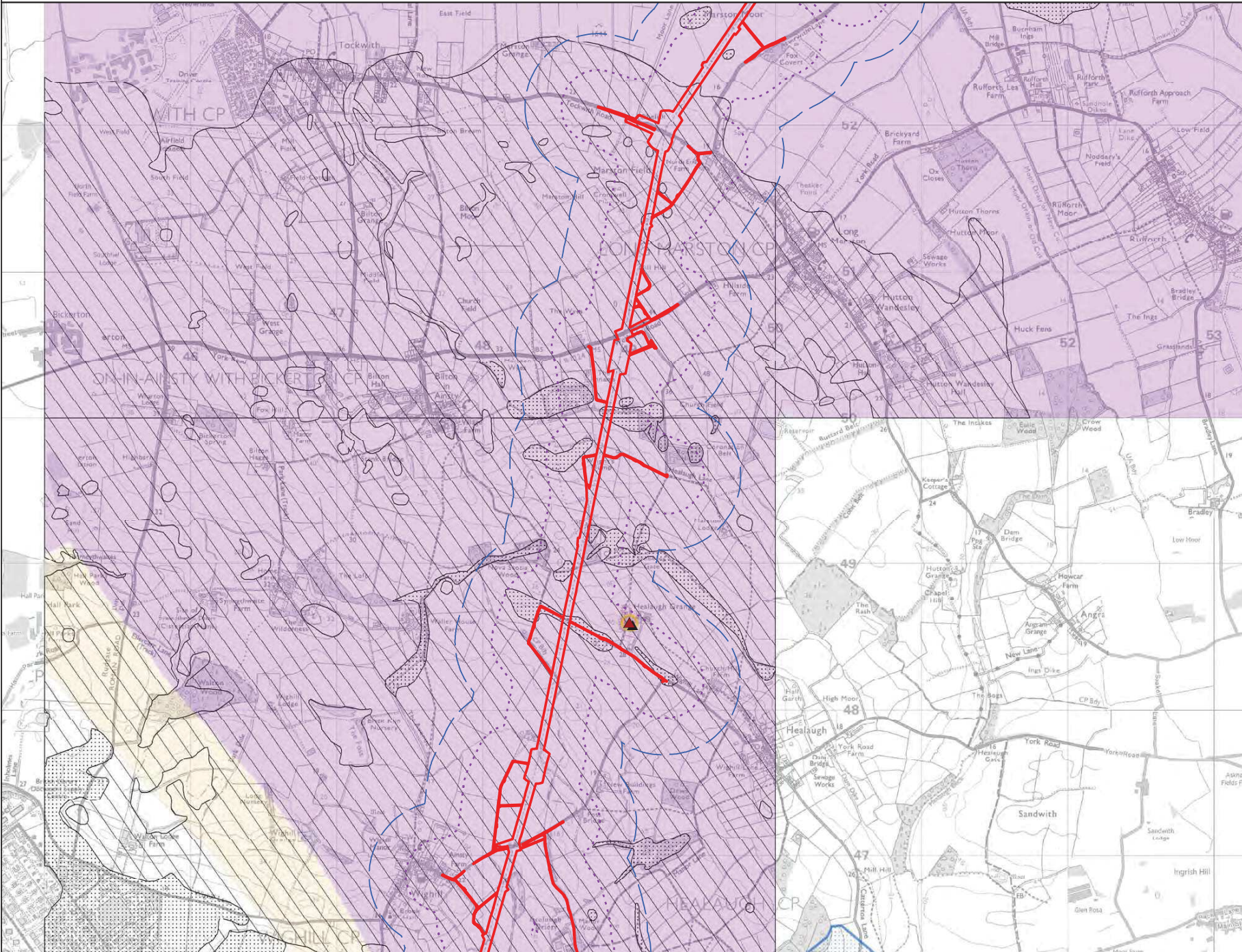
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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.4
 Aquifers & Water Abstractions

Figure Number		Figure 10.4 Sheet 2	
Drawing Reference		GM11455\Figure 10.4 Sheet 2	
Scale	Sheet Size	Sheet	Issue
1: 25000	A3	SHEET 2 OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Aquifers & Water Abstractions



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- ▲ Licensed groundwater abstractions (Environment Agency)
- ▲ Private water supplies (Selby DC); not stated whether these are groundwater or surface water

Source Protection Zones within 500m of Order Limits

- Zone I - Inner Protection Zone
- Zone III - Total Catchment

Aquifer Designation Superficial

- Secondary A
- Secondary (undifferentiated)

Aquifer Designation Bedrock

- Principal
- Secondary B

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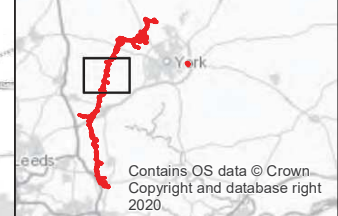
Water Company supply abstraction co-ordinates are not supplied by the EA so any such abstractions will be absent from this figure.

Private water supply data received from Selby DC. Leeds City Council provided nil response (no data held), Hambleton DC, York City Council and Harrogate BC data yet to be received.

The areas outside of Aquifer designations which show no data not within data coverage of project baseline data collection.

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Title					

**5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.4
 Aquifers & Water Abstractions**

nationalgrid

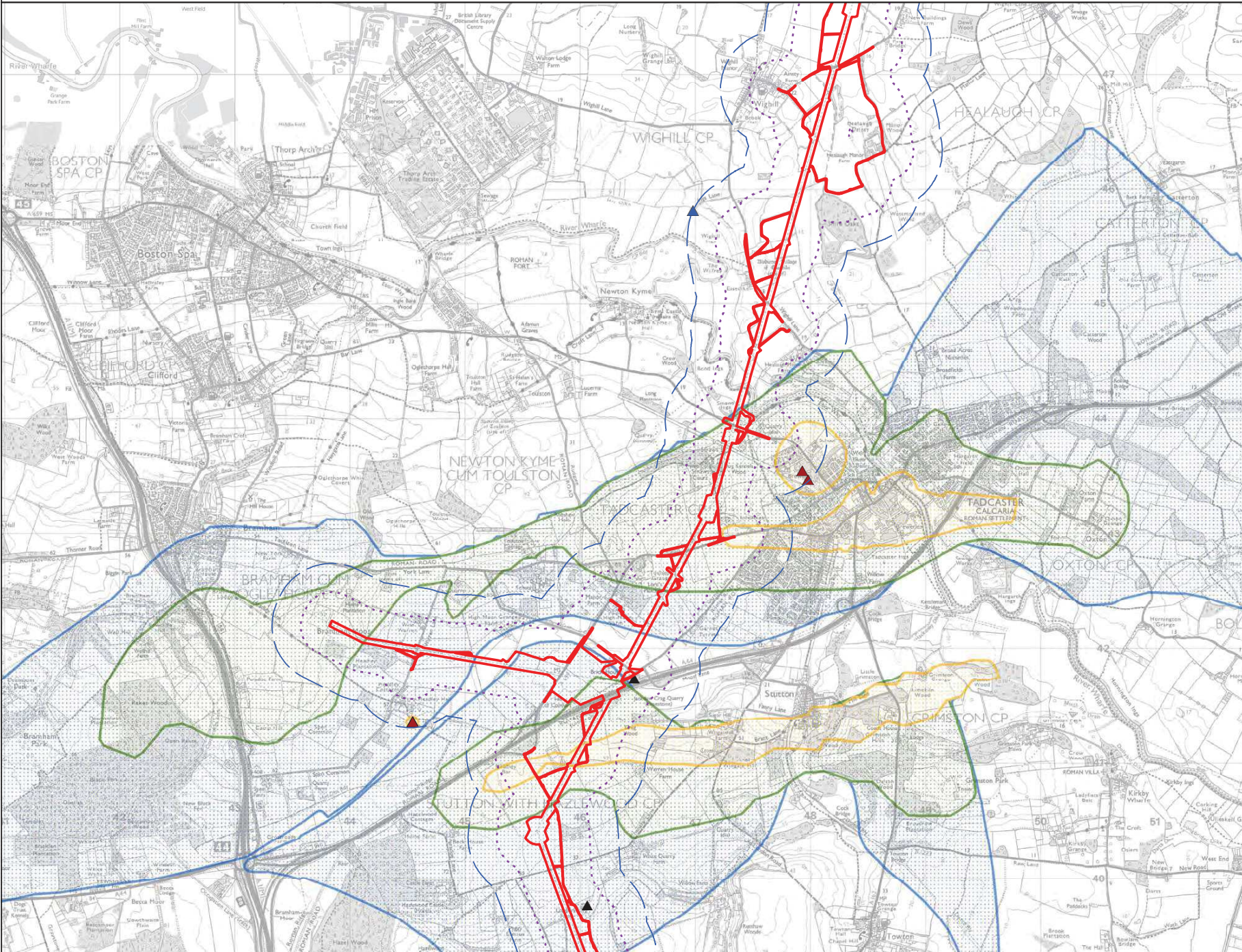
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Drawing Reference GM11455/Figure 10.4 Sheet 3

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1: 25000	A3	SHEET 3 OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Water Abstractions & SPZ



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- ▲ Licensed groundwater abstractions (Environment Agency)
- ▲ Licensed surface water abstractions (Environment Agency)
- ▲ Private water supplies (Selby DC); not stated whether these are groundwater or surface water

Source Protection Zones within 500m of Order Limits

- Zone I - Inner Protection Zone
- Zone II - Outer Protection Zone
- Zone III - Total Catchment

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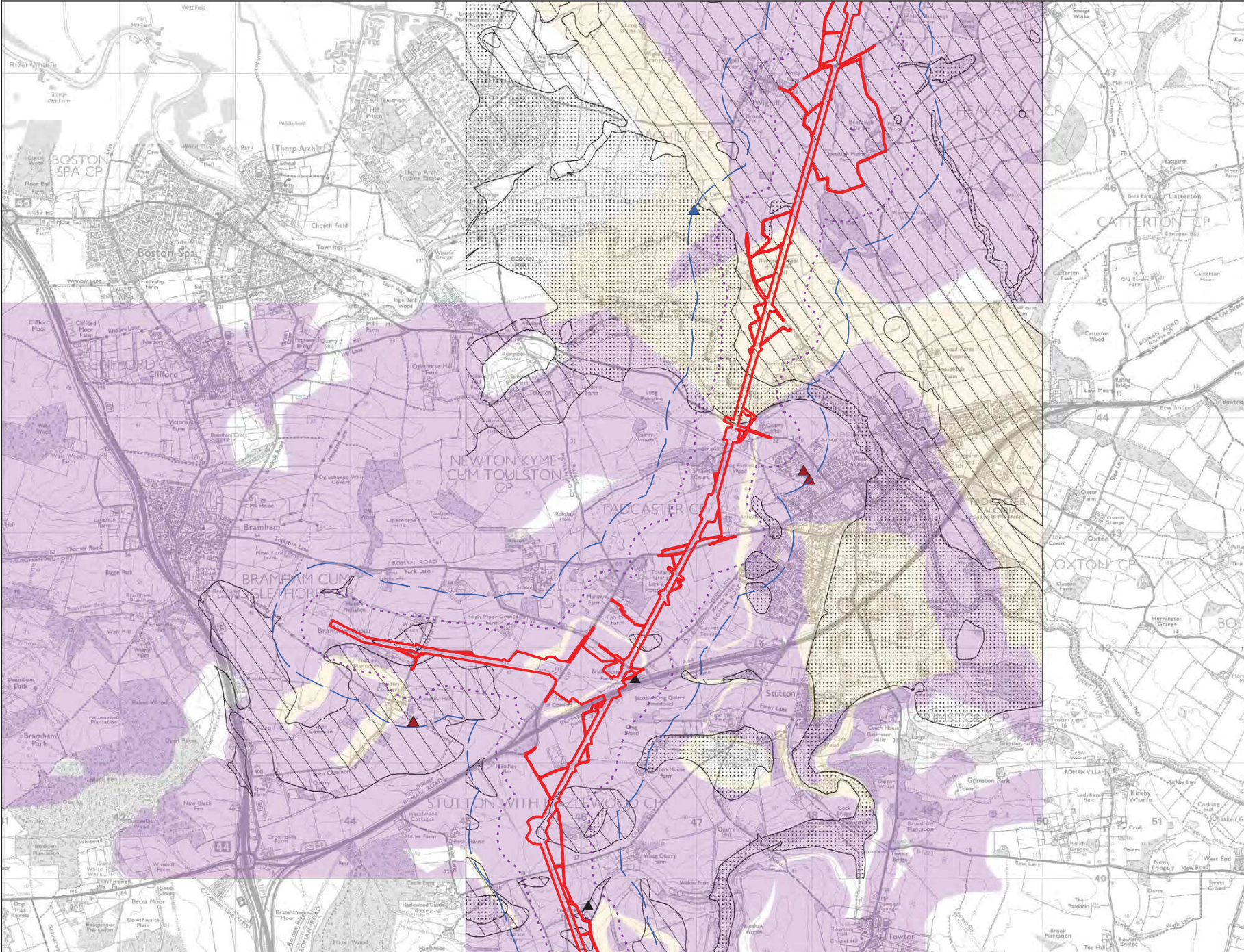
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Title					
5.4.10 ES Chapter 10 Geology and Hydrogeology Figure 10.4					
Water Abstractions & SPZ					
Figure Number		Figure 10.4			
Drawing Reference					
GM11455/Figure 10.4 Sheet 4a					
Scale	Sheet Size	Sheet	Issue		
1: 25000	A3	SHEET 4a OF 7	A		



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Aquifers



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Licensed groundwater abstractions (Environment Agency)
- Licensed surface water abstractions (Environment Agency)
- Private water supplies (Selby DC); not stated whether these are groundwater or surface water
- Aquifer Designation Superficial
 - Secondary A
 - Secondary (undifferentiated)
- Aquifer Designation Bedrock
 - Principal
 - Secondary B

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0 0.3 0.6 1.2 Kilometres

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Title

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 Geology and Hydrogeology
 Figure 10.4
 Aquifers

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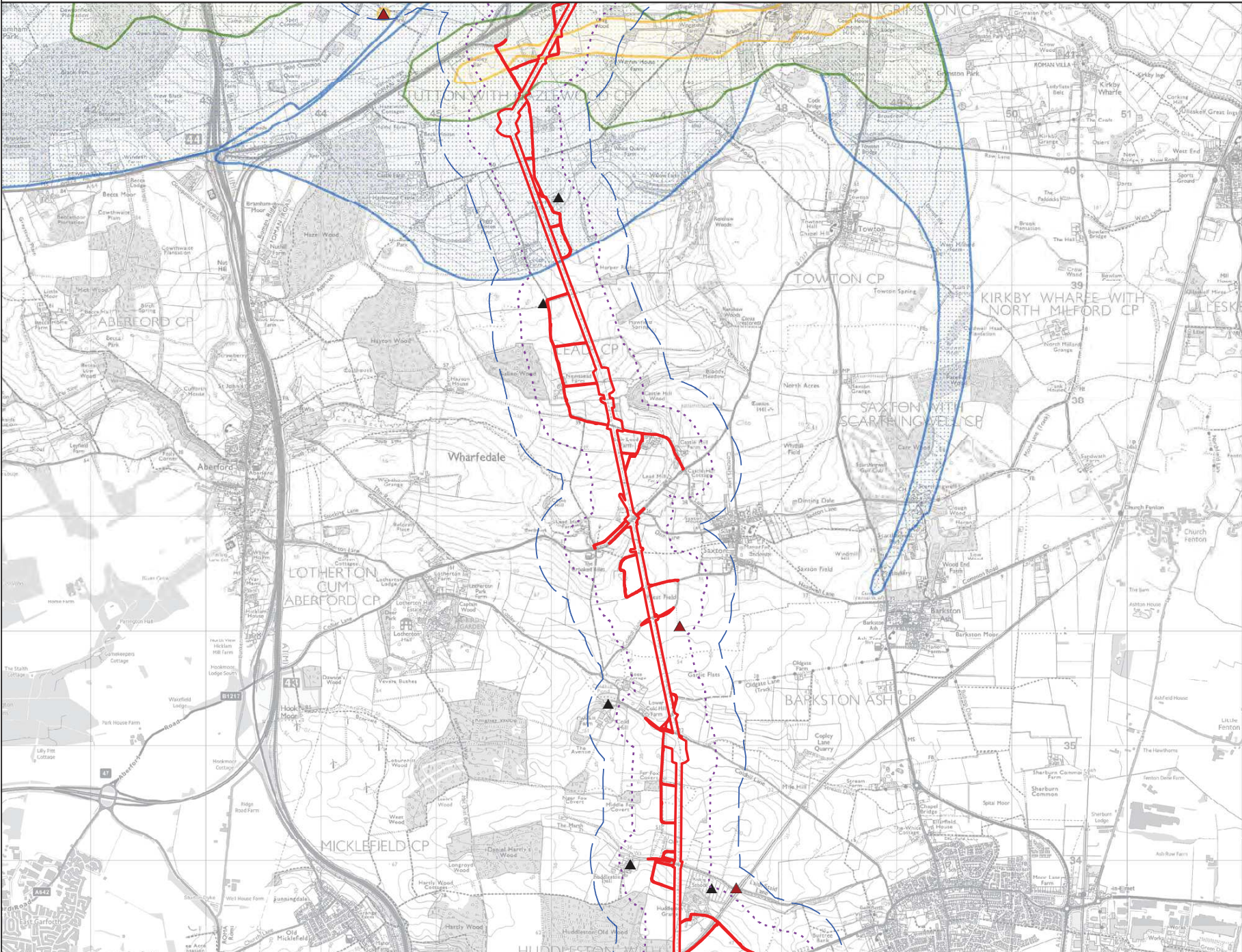
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Drawing Reference: GM11455/Figure 10.4 Sheet 4b

Scale	Sheet Size	Sheet	Issue
1: 25000	A3	SHEET 4b OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Water Abstractions & SPZ



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Licensed groundwater abstractions (Environment Agency)
- Private water supplies (Selby DC); not stated whether these are groundwater or surface water
- Source Protection Zones within 500m of Order Limits
 - Zone I - Inner Protection Zone
 - Zone II - Outer Protection Zone
 - Zone III - Total Catchment

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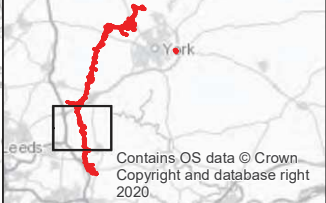
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0 0.3 0.6 1.2
 Kilometres

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 Geology and Hydrogeology
 Figure 10.4
 Water Abstractions & SPZ

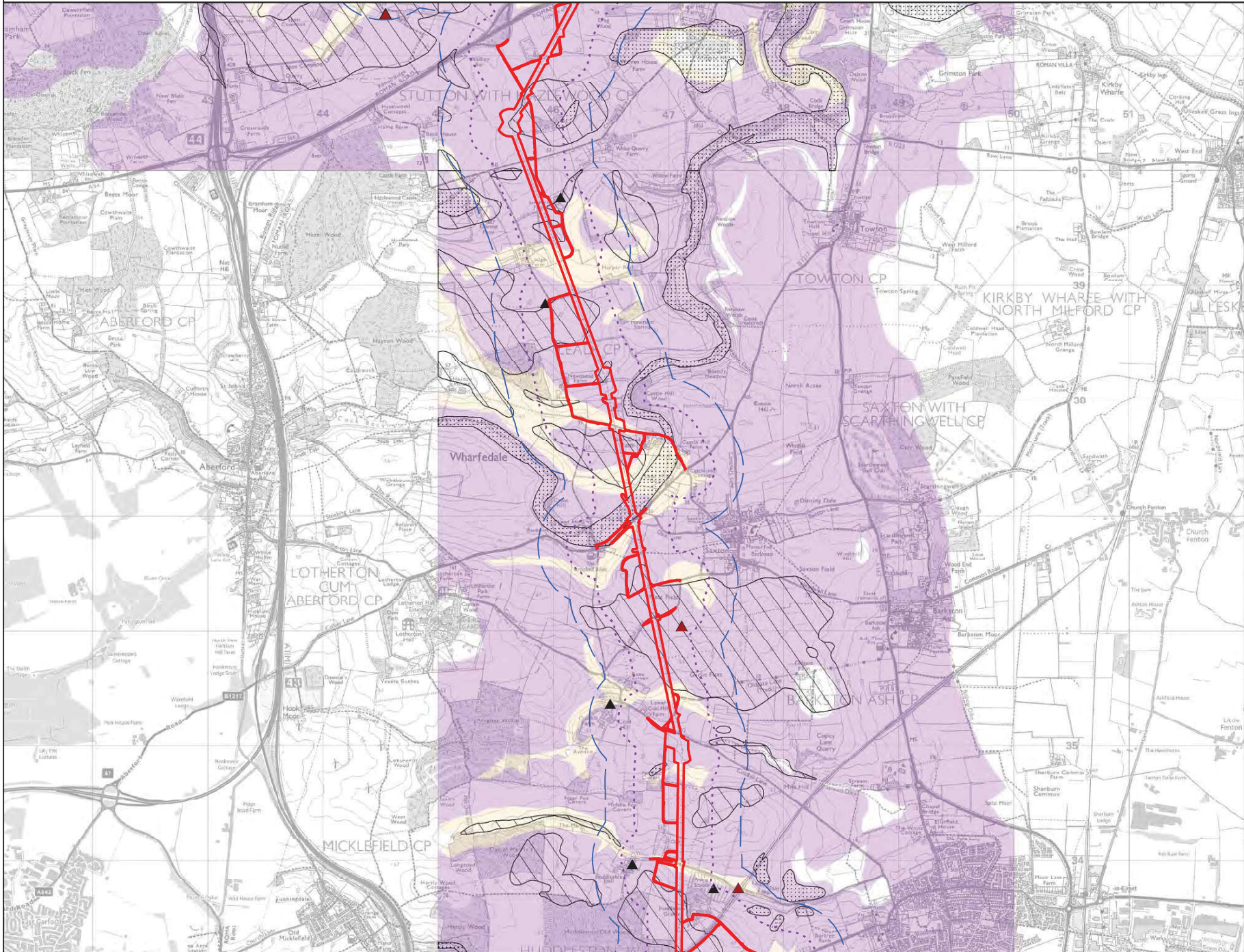
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Scale	Sheet Size	Sheet	Issue
1: 25000	A3	SHEET 5a OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
5.4.10 ES Chapter 10 Geology and Hydrogeology
Figure 10.4 Aquifers



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- ▲ Licensed groundwater abstractions (Environment Agency)
- ▲ Private water supplies (Selby DC); not stated whether these are groundwater or surface water

Aquifer Designation Superficial

- Secondary A
- Secondary (undifferentiated)

Aquifer Designation Bedrock

- Principal
- Secondary B

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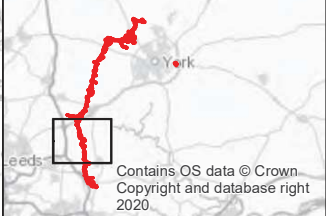
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Kilometres

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Geology and Hydrogeology
Figure 10.4
Aquifers

nationalgrid

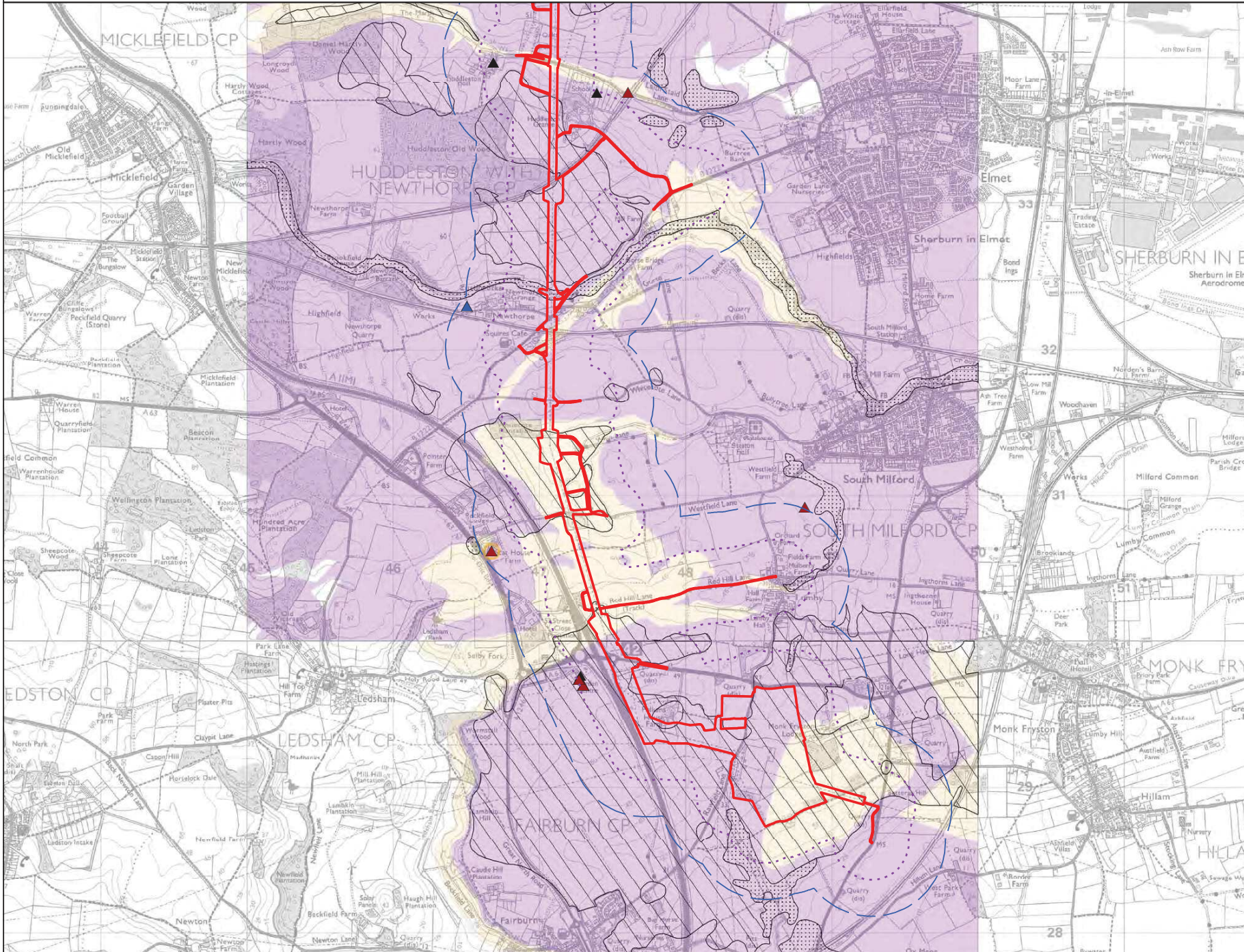
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Scale	Sheet Size	Sheet	Issue
1: 25000	A3	SHEET 5b OF 7	A



National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Aquifers & Water Abstractions



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- ▲ Licensed groundwater abstractions (Environment Agency)
- ▲ Licensed surface water abstractions (Environment Agency)
- ▲ Private water supplies (Selby DC); not stated whether these are groundwater or surface water

Source Protection Zones within 500m of Order Limits

- Zone I - Inner Protection Zone

Aquifer Designation Superficial

- Secondary A
- Secondary (undifferentiated)
- Principal

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**5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.4
 Aquifers & Water Abstractions**

nationalgrid

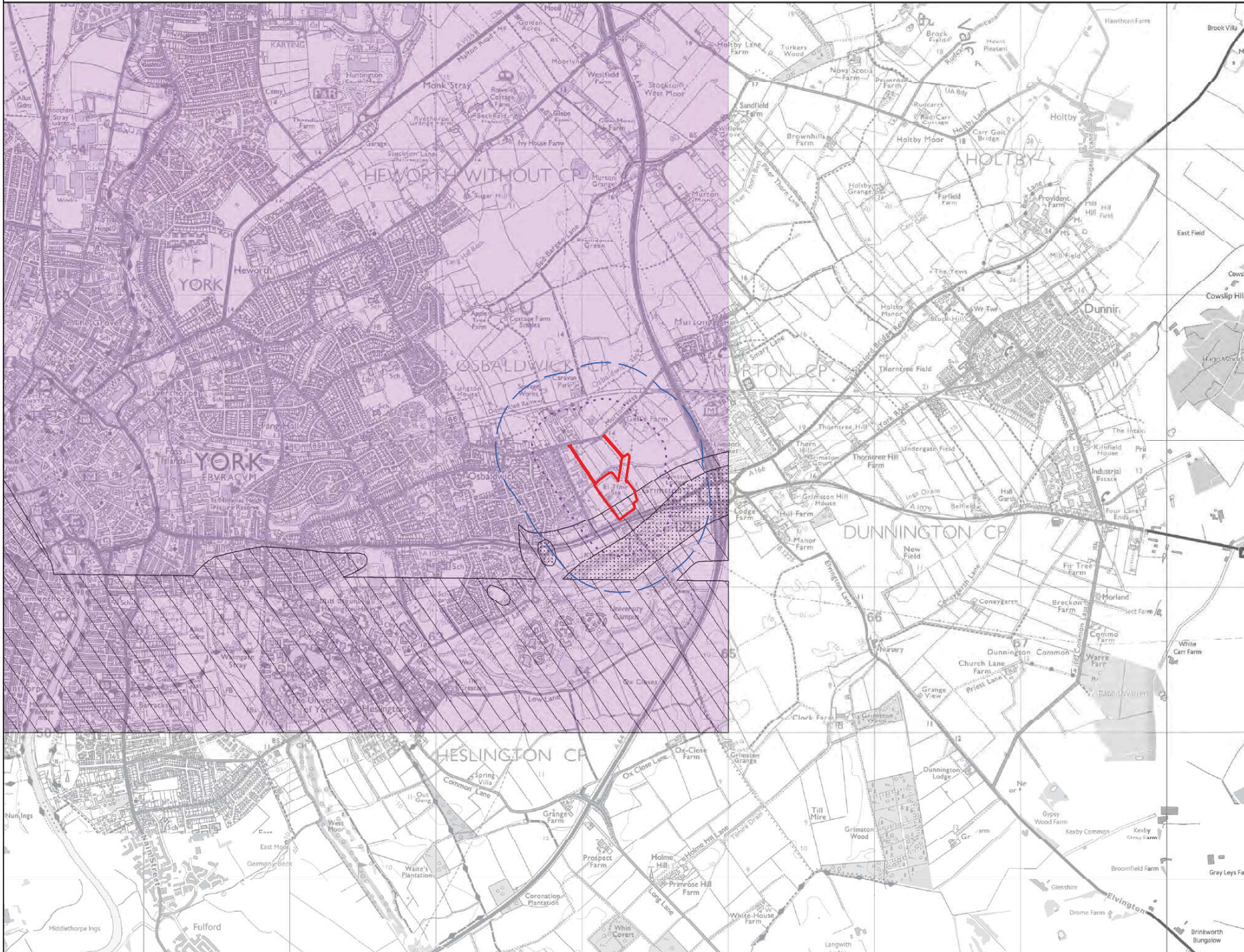
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Drawing Reference: GM11455/Figure 10.4 Sheet 6

Scale	Sheet Size	Sheet	Issue
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.4 Aquifers & Water Abstractions



Legend

- Order Limits
- 250m Study Area
- 500m Study Area
- Aquifer Designation Superficial
 - Secondary A
 - Secondary (undifferentiated)
- Aquifer Designation Bedrock
 - Principal

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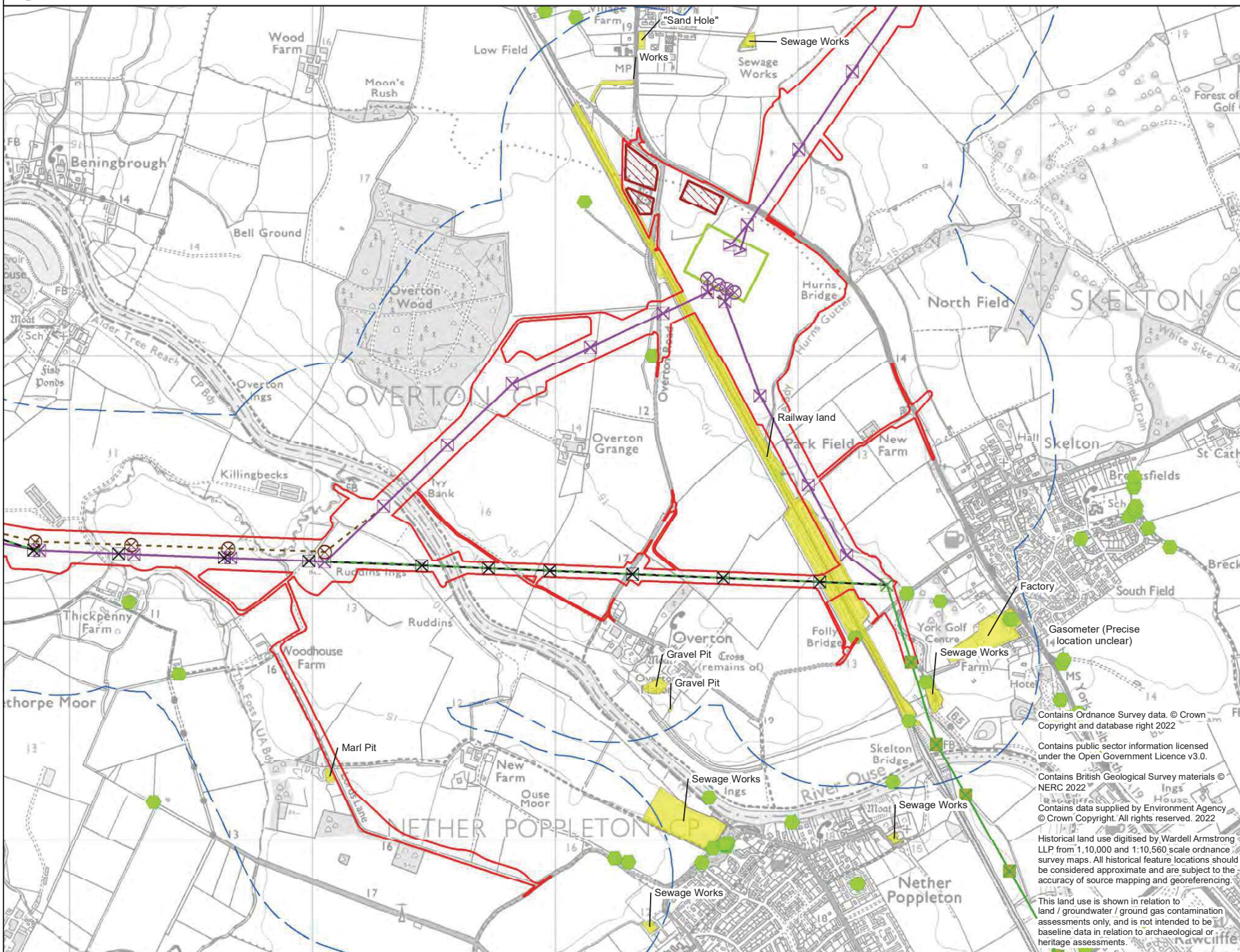
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nationalgrid					
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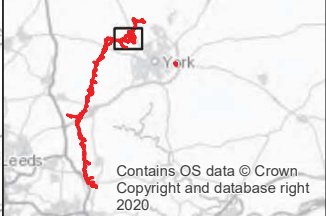
National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.6 Detailed Baseline at proposed Overton Substation Site



Legend

- 500m Study Area
- Existing Pylons
 - Existing Lattice Pylon - To be Modified
 - Existing Lattice Pylon - Not Affected
 - Existing Lattice Pylon - To be Dismantled
- Indicative Existing Overhead Line Circuit
 - Existing Overhead Line - Not Affected
 - Existing Overhead Line - To be Dismantled
- New Pylons
 - Indicative New Lattice Pylon
 - Indicative New Gantry
 - Indicative New Full Line Tension Gantry
 - Indicative Temporary Pylon or Mast
- New Overhead Line Circuit
 - Indicative New Overhead Line
 - Indicative Temporary Overhead Line
- Proposed Substation Area
 - Overton 400/275kV Substation
 - Order Limits
 - Construction Compounds
- Historical pollution incidents to land
- Historical Land Use

Notes
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0 0.15 0.3 0.6
 Kilometres

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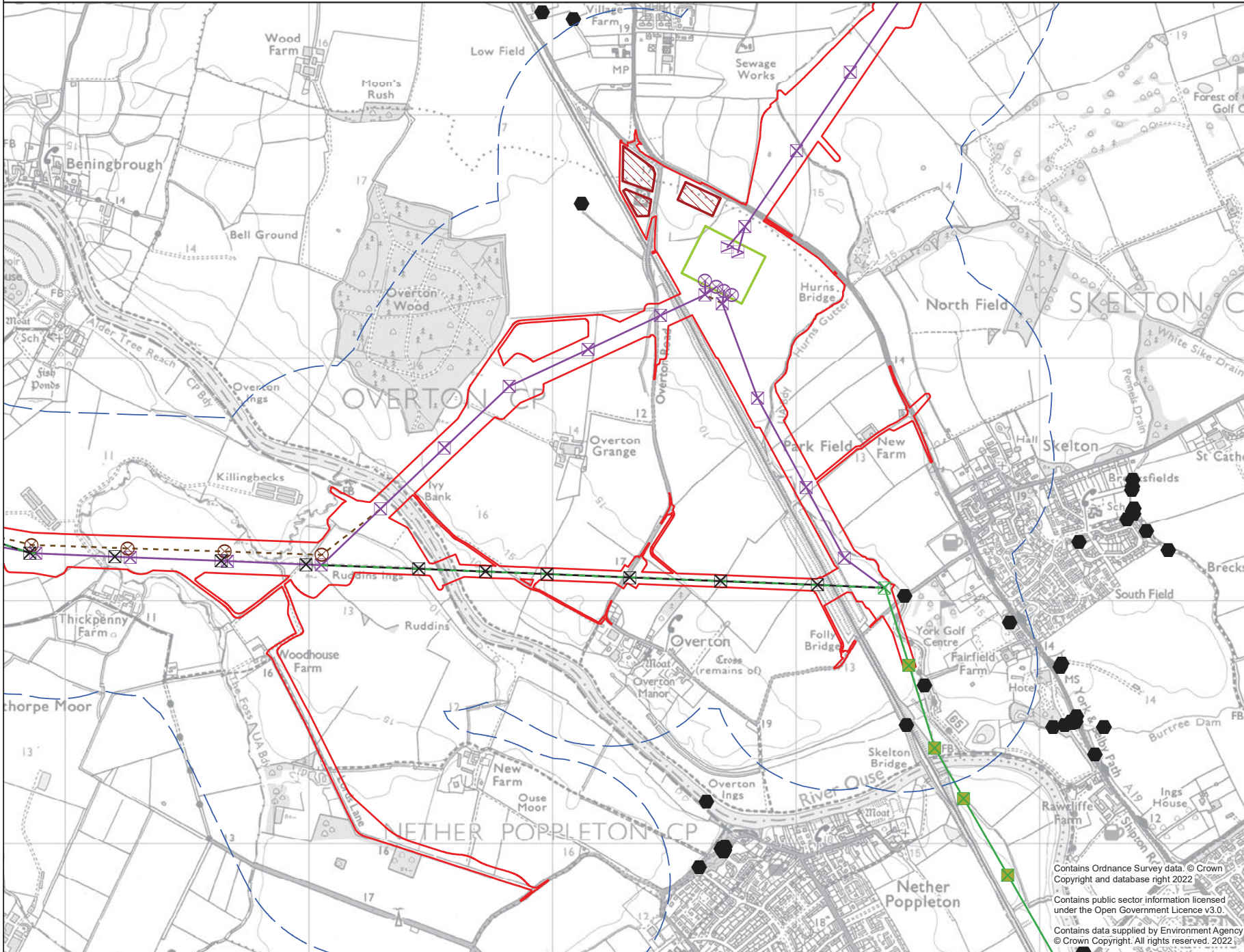
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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.6
 Detailed Baseline at Proposed
 Overton Substation Site

nationalgrid			
Figure Number	Figure 10.6		
Drawing Reference	GM11455/figure 10.6		
Scale	Sheet Size	Sheet	Issue
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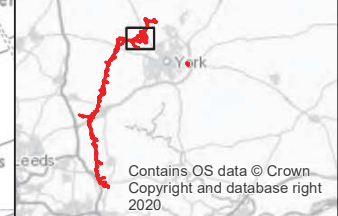
National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.7 Historical Pollution Incidents to Water Near to the Proposed Overton Substation Site



Legend

- Order Limits
- 500m Study Area
- Existing Pylons**
- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled
- Indicative Existing Overhead Line Circuit
- Existing Overhead Line - Not Affected
- Existing Overhead Line - To be Dismantled
- New Pylons**
- Indicative New Lattice Pylon
- Indicative New Gantry
- Indicative New Full Line Tension Gantry
- Indicative Temporary Pylon or Mast
- New Overhead Line Circuit**
- Indicative New Overhead Line
- Indicative Temporary Overhead Line
- Proposed Substation Area**
- Overton 400/275kV Substation
- Construction Compounds
- Historical pollution incidents to water

Notes
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 Kilometres

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Title
 5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.7
 Historical Pollution Incidents
 to Water Near to the Proposed
 Overton Substation Site

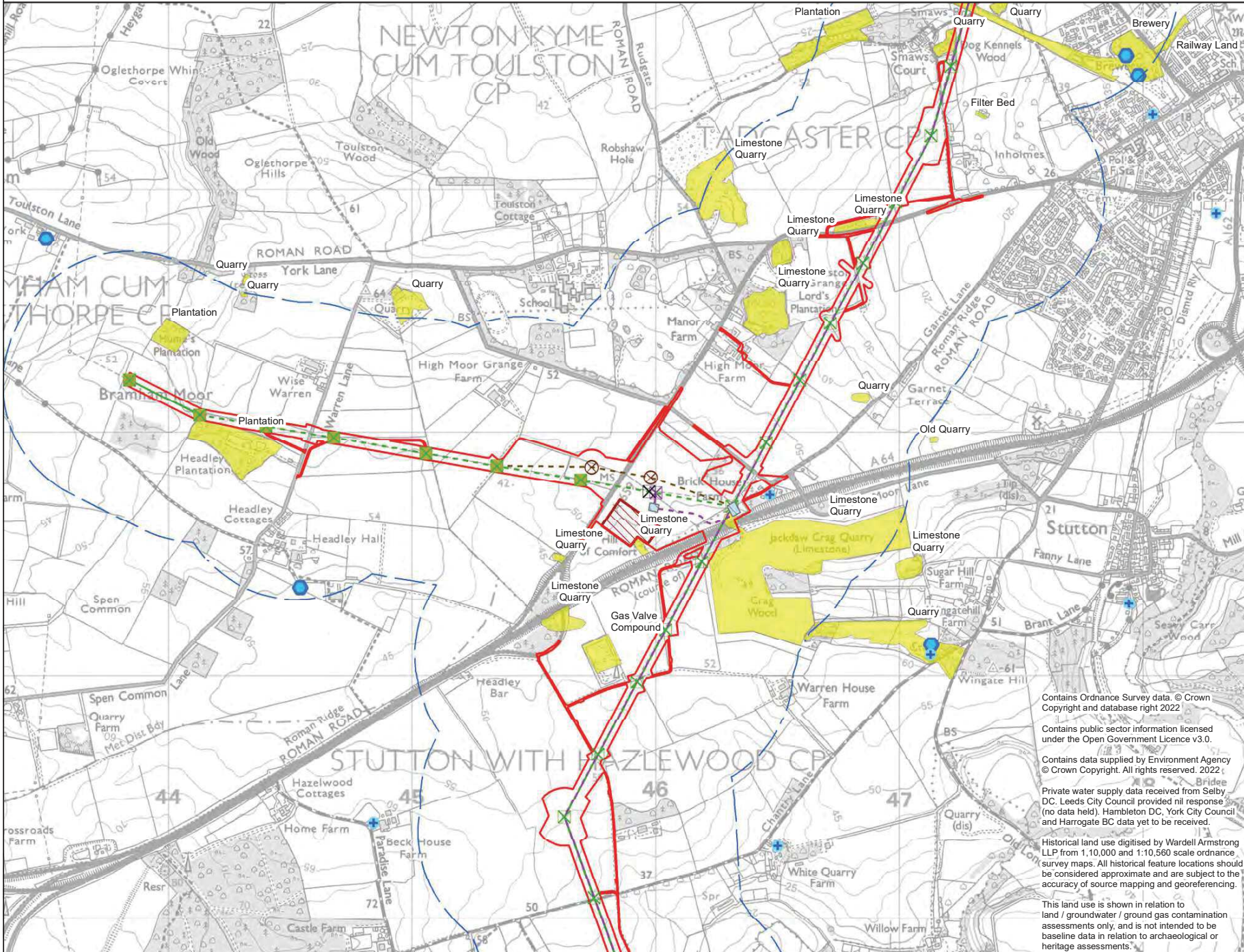
nationalgrid

Figure Number: Figure 10.7
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Scale	Sheet Size	Sheet	Issue
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National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.8 Historical Land use at the Tadcaster Area



Legend

- Order Limits
- 500m Study Area
- Cable sealing end compounds

Existing Pylons

- Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- Existing Lattice Pylon - To be Dismantled

Indicative Existing Overhead Line Circuit

- Existing Overhead Line - Not Affected
- Existing Overhead Line - To be Modified
- Existing Overhead Line - To be Reconstructed

New Pylons

- Indicative New Lattice Pylon
- Indicative Temporary Pylon or Mast

New Overhead Line Circuit

- Indicative New Overhead Line
- Indicative New Underground Cable
- Indicative Temporary Overhead Line

Construction Compounds

- Construction Compounds

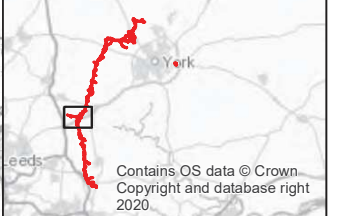
Water Abstractions

- + Selby Private Water Abstraction
- Groundwater

Historical Land Use

- Historical Land Use

Notes
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 Kilometres

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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.8
 Historical Land use
 at the Tadcaster Area

nationalgrid

Figure Number: Figure 10.8

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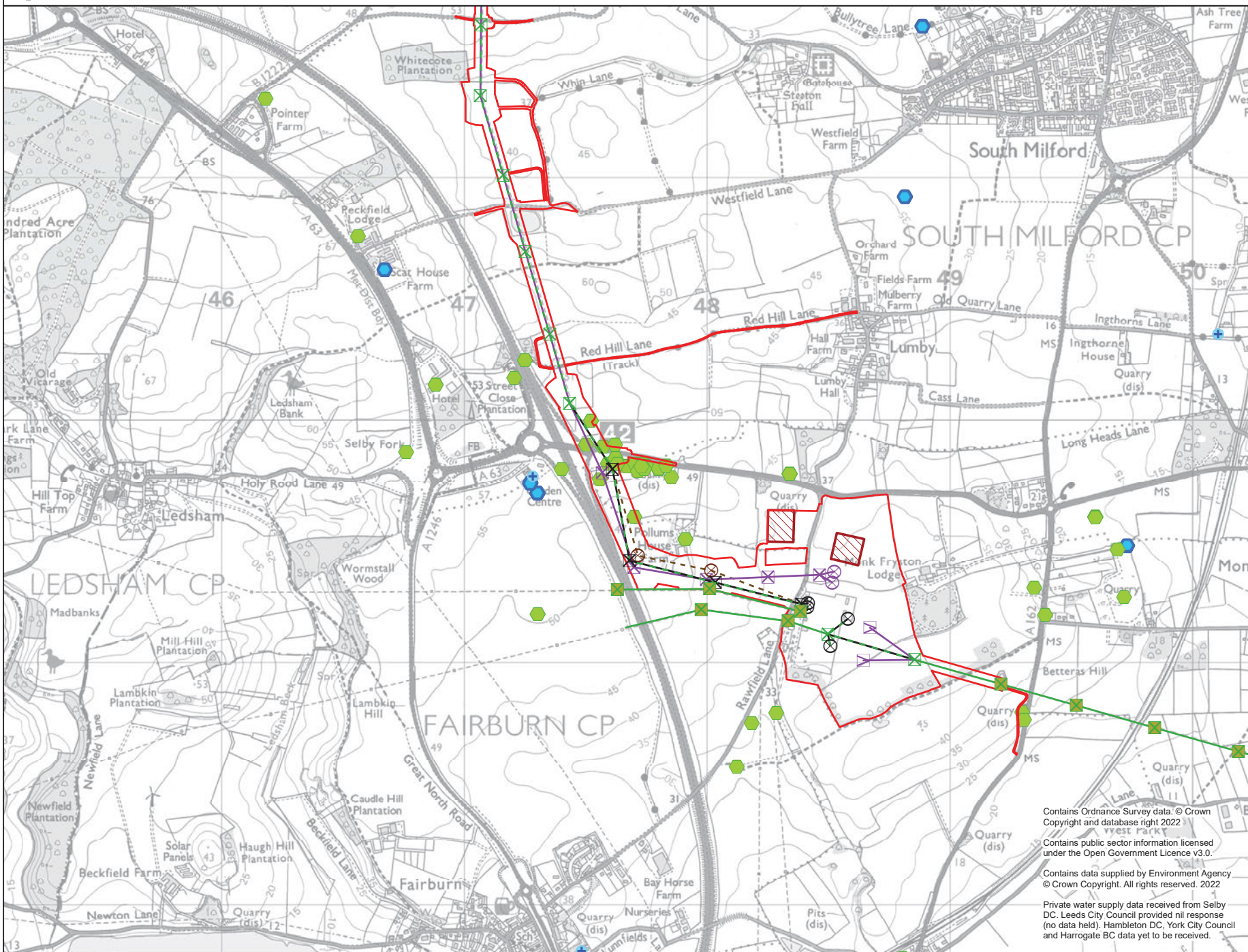
Private water supply data received from Selby DC. Leeds City Council provided nil response (no data held). Hambleton DC, York City Council and Harrogate BC data yet to be received.

Historical land use digitised by Wardell Armstrong LLP from 1:10,000 and 1:10,560 scale ordnance survey maps. All historical feature locations should be considered approximate and are subject to the accuracy of source mapping and georeferencing.

This land use is shown in relation to land / groundwater / ground gas contamination assessments only, and is not intended to be baseline data in relation to archaeological or heritage assessments.



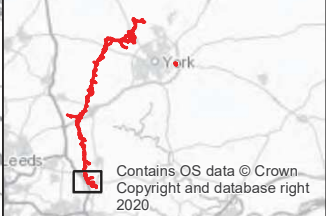
National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.9 Historical Pollution Incidents in the Monk Fyston Area



Legend

- Order Limits
- Existing Pylons**
 - X Existing Lattice Pylon - To be Modified
 - Existing Lattice Pylon - Not Affected
 - X Existing Lattice Pylon - To be Dismantled
 - ⊗ Existing Gantry - To be Dismantled
- Indicative Existing Overhead Line Circuit**
 - Existing Overhead Line - Not Affected
 - Existing Overhead Line - To be Reconstructed
 - Existing Overhead Line - To be Dismantled
- New Pylons**
 - X Indicative New Lattice Pylon
 - ⊗ Indicative New Gantry
 - Indicative New Full Line Tension Gantry
 - ⊗ Indicative Temporary Pylon or Mast
- New Overhead Line Circuit**
 - Indicative New Overhead Line
 - Indicative Temporary Overhead Line
- Construction Compounds
- Historical pollution incidents to land
- + Selby Private Water Abstraction
- Water Abstractions
- Groundwater

Notes
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0 0.15 0.3 0.6 Kilometres

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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.9
 Historical Pollution Incidents
 in the Monk Fyston Area

nationalgrid

Figure Number: Figure 10.9

Drawing Reference: GM11455/Figure 10.9

Scale: 1:15,000	Sheet Size: A3	Sheet: SHEET 1 OF 1	Issue: A
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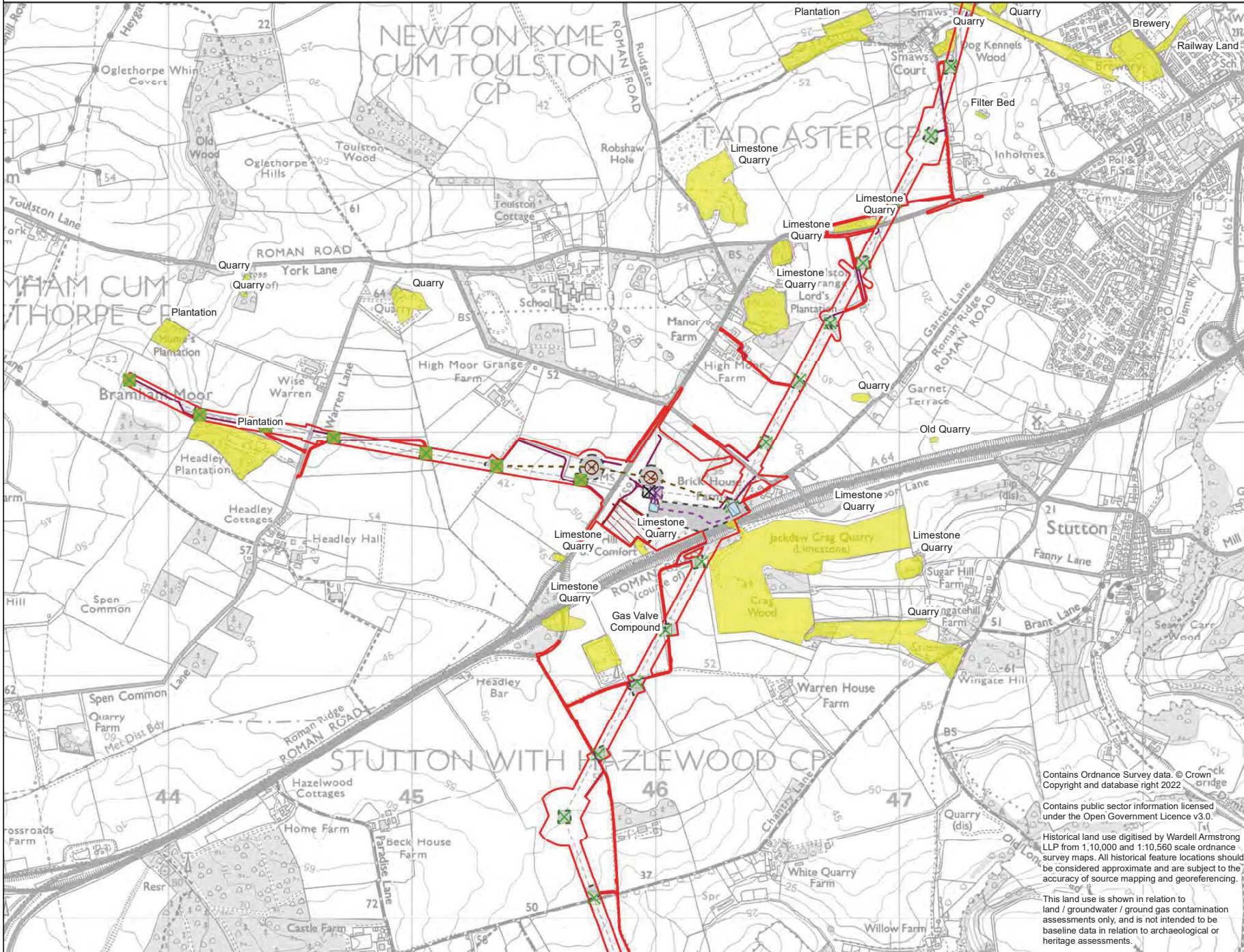
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Private water supply data received from Selby DC. Leeds City Council provided nil response (no data held). Hambleton DC, York City Council and Harrogate BC data yet to be received.



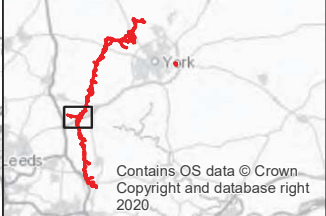
National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.10 Former Quarry and Proposed Underground Cable Configuration in the Tadcaster Area



Legend

- Order Limits
- Cable sealing end compounds
- Existing Pylons**
- X Existing Lattice Pylon - To be Modified
- Existing Lattice Pylon - Not Affected
- X Existing Lattice Pylon - To be Dismantled
- New Pylons**
- X Indicative New Lattice Pylon
- ⊗ Indicative Temporary Pylon or Mast
- New Overhead Line Circuit**
- Indicative New Overhead Line
- - - Indicative New Underground Cable
- · - · - Indicative Temporary Overhead Line
- Pylon Working Area
- Construction Compounds
- Access Track
- Historical Land Use

Notes
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Title
 5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.10
 Former Quarry and Proposed
 Underground Cable Configuration in
 the Tadcaster Area



Figure Number Figure 10.10
Drawing Reference GM11455/Figure 10.10

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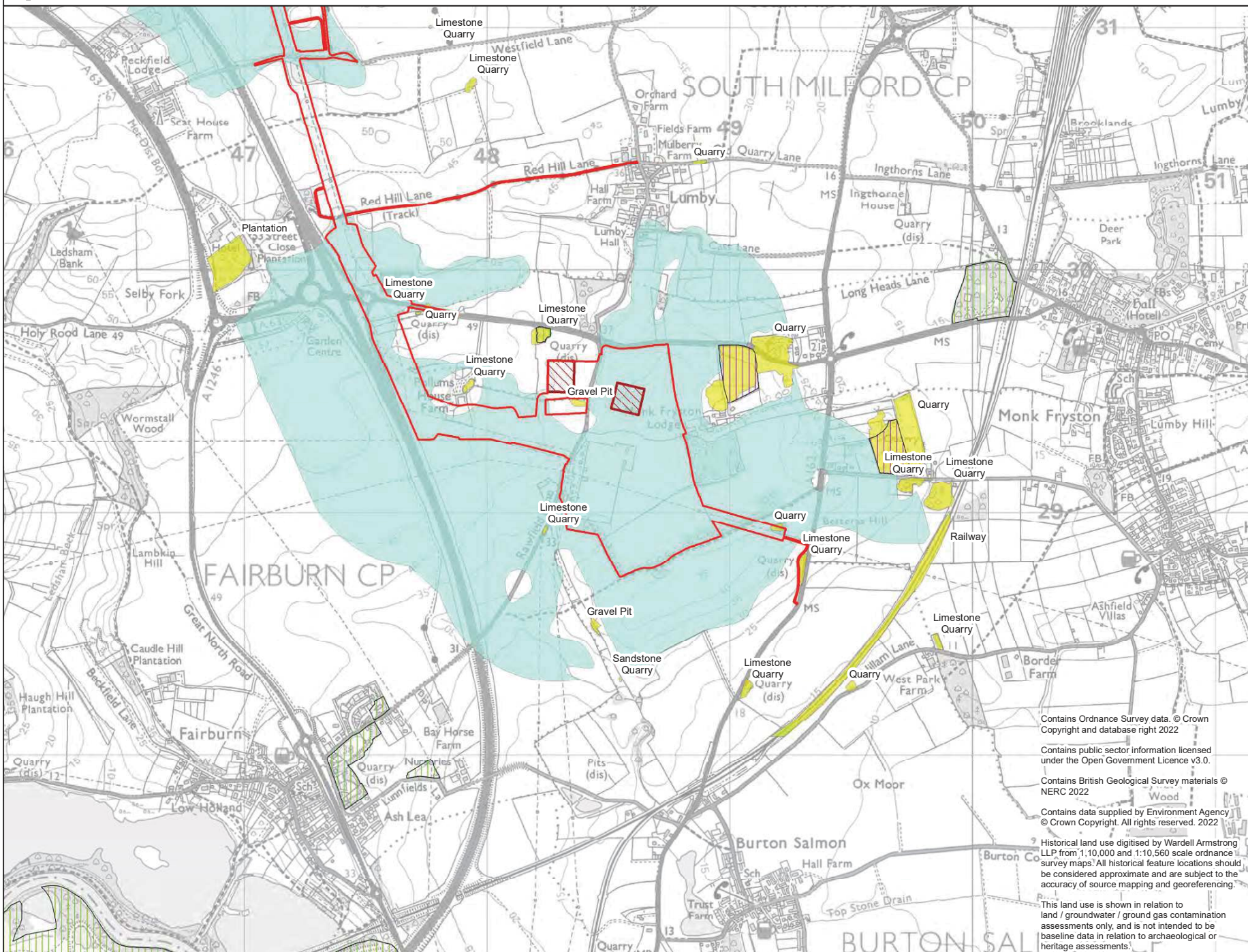
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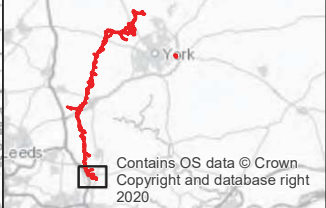


National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.11 Potential Ground Gas Sources Near to the Proposed Monk Fyston Substation Construction Compounds



- Legend**
- Order Limits
 - Construction Compounds
 - Historic Landfill Sites
 - Authorised Landfill Sites
 - Historical Land Use
 - Superficial Geology**
 - Low permeability Superficial Deposits

Notes
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0 0.15 0.3 0.6
 Kilometres

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Title
 5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.11
 Potential Ground Gas Sources
 Near to the Proposed Monk Fyston
 Substation Construction Compounds



Figure Number: Figure 10.11

Drawing Reference: GM11455/ Figure 10.11

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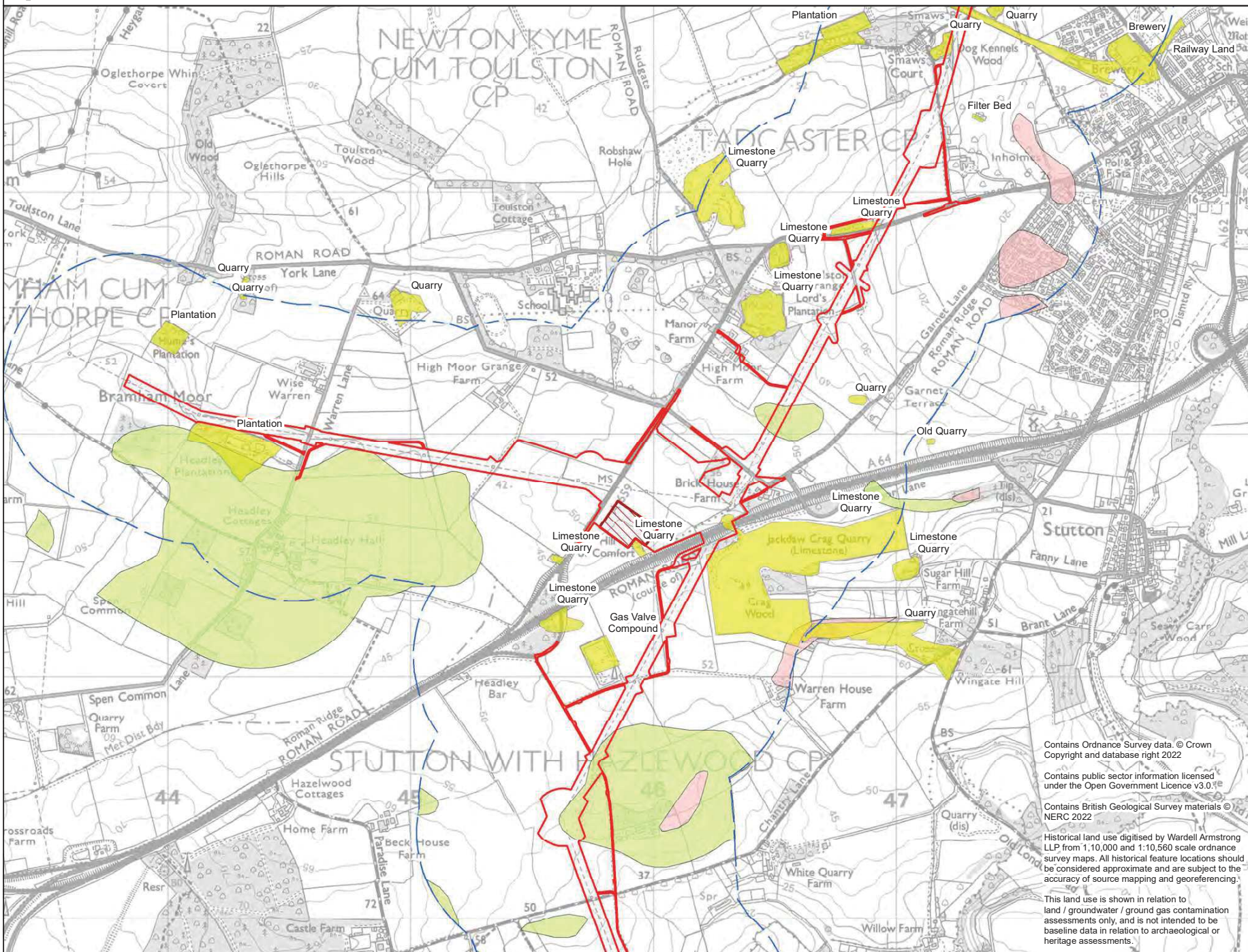
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 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.12 Potential Ground Gas Sources near to the Proposed Tadcaster Area



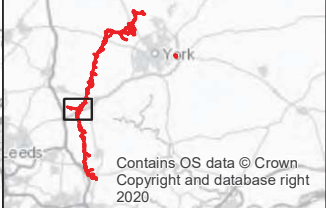
Legend

- Order Limits
- 500m Study Area
- Construction Compounds
- Historical Land Use

Superficial Geology

- Low Permeability Superficial Deposits
- High Permeability Superficial Deposits

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Title
 5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.12

Potential Ground Gas Sources near to the Proposed Tadcaster Area

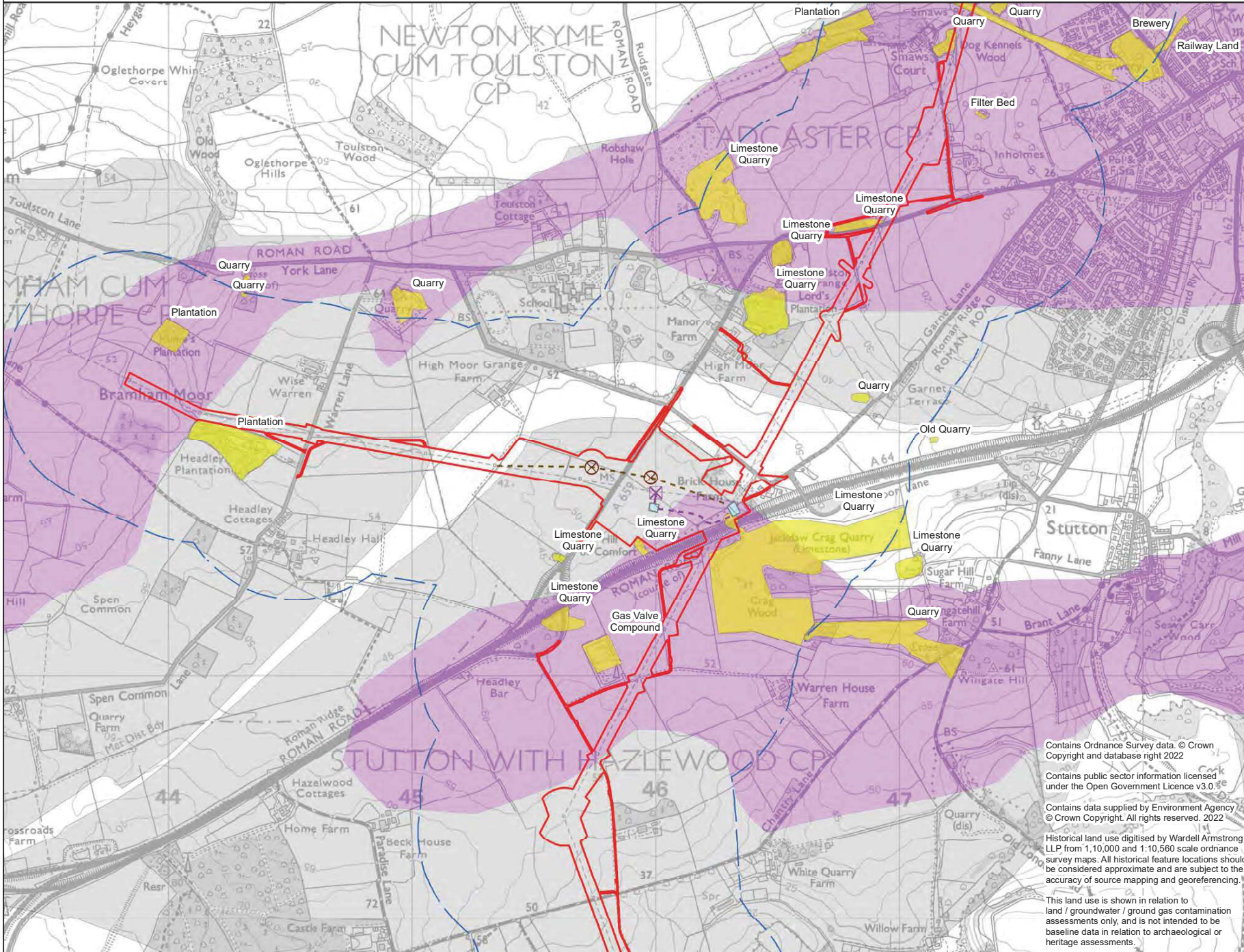
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Figure Number: Figure 10.12
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 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.13 Source Protection Zones 2 and 3 in the Tadcaster Area



Legend

- Order Limits
- 500m Study Area
- Cable sealing end compounds

New Pylons

- Indicative New Lattice Pylon
- Indicative Temporary Pylon or Mast

New Overhead Line Circuit

- Indicative New Overhead Line
- Indicative New Underground Cable
- Indicative Temporary Overhead Line

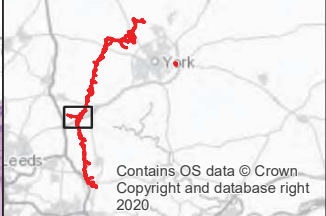
Historical Land Use

- Historical Land Use

Groundwater Source Protection Zones

- SPZ2
- SPZ3

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0 0.15 0.3 0.6 Kilometres

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5.4.10 ES Chapter 10
 Geology and Hydrogeology
 Figure 10.13

Source Protection Zones 2 and 3 in the Tadcaster Area



Figure Number: Figure 10.13

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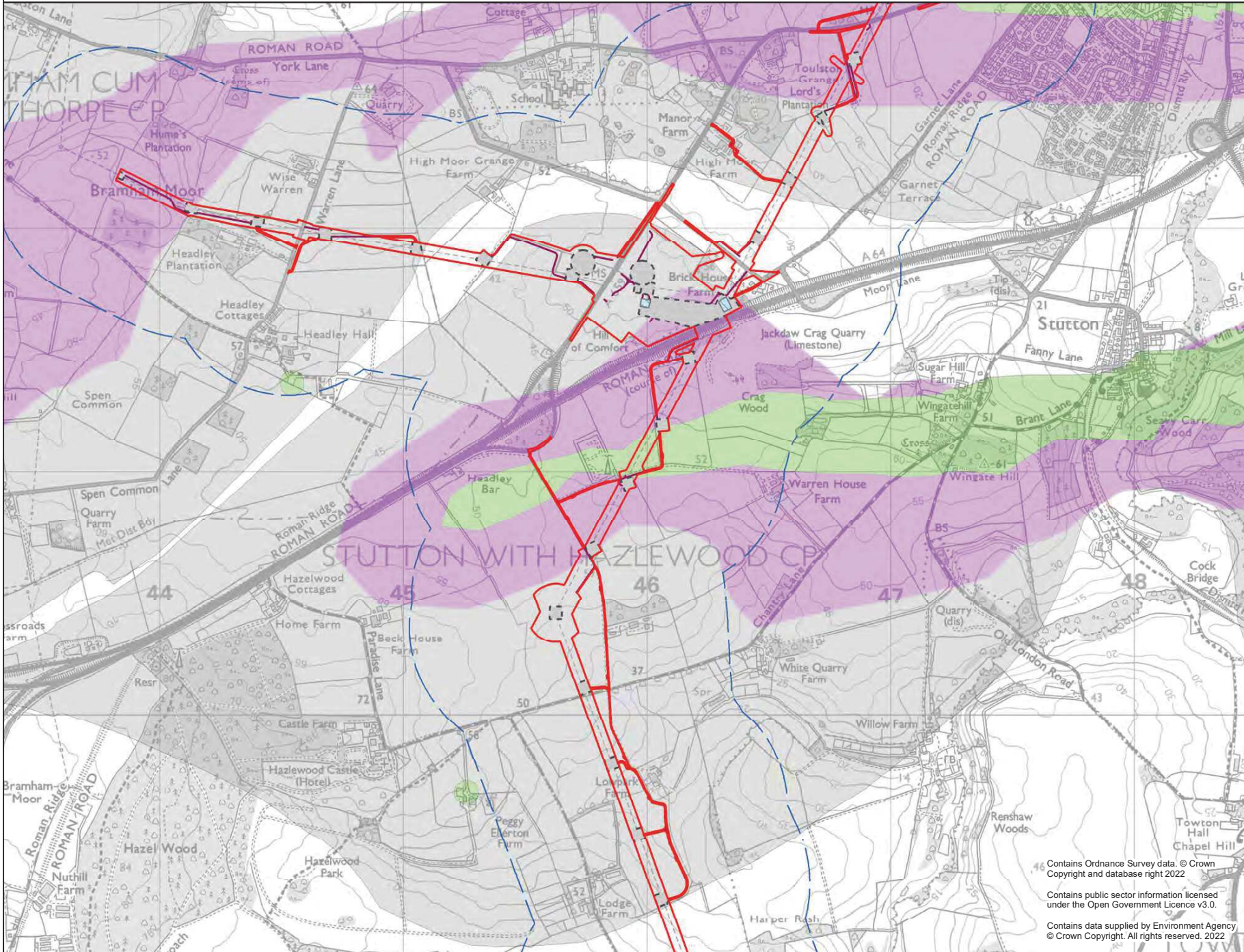
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 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.14 Configuration of Works Relative to Source Protection Zones 1



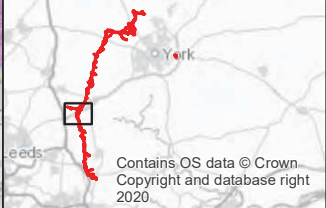
Legend

- Order Limits
- 500m Study Area
- Cable sealing end compounds
- Pylon Working Area
- Access Line

Groundwater Source Protection Zones

- SPZ1
- SPZ2
- SPZ3

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0 0.15 0.3 0.6
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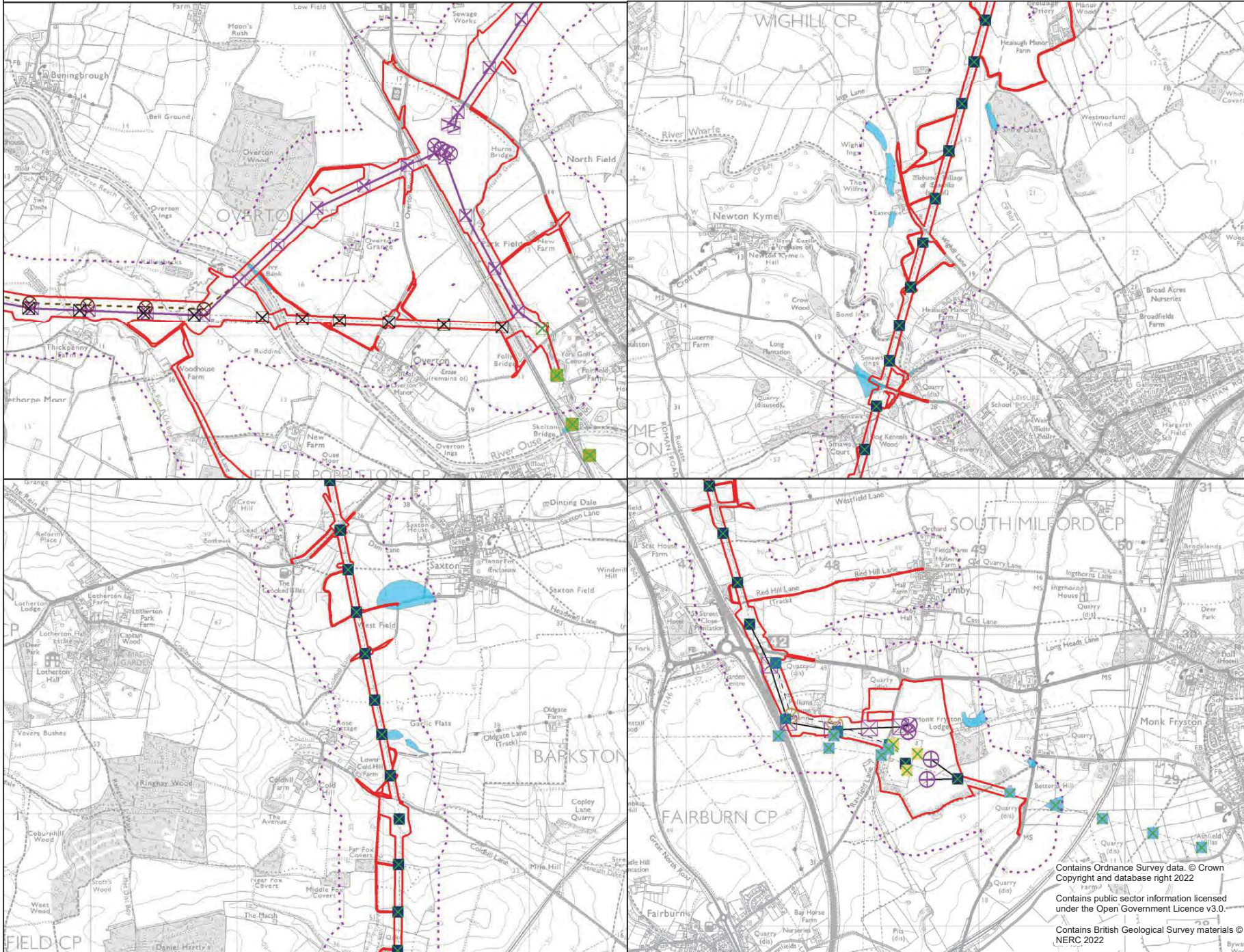
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 Geology and Hydrogeology
 Figure 10.14
 Configuration of Works Relative to
 Source Protection Zones 1



Figure Number	Figure 10.14				
Drawing Reference	GM11455/Figure 10.14				
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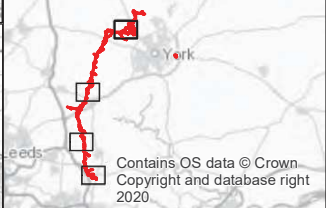
National Grid (Yorkshire Green Energy Enablement Project) Order
 5.4.10 ES Chapter 10 Geology and Hydrogeology
 Figure 10.15 Landslide Hazard Areas



Legend

- Order Limits
- 250m Study Area
- Existing Pylons
- Works
 - Existing Lattice Pylon - To be Modified
 - Existing Lattice Pylon - Not Affected
 - Existing Gantry - Not Affected
 - Existing Lattice Pylon - To be Dismantled
 - Existing Gantry - To be Dismantled
- New Pylons
 - Indicative New Lattice Pylon
 - Indicative New Gantry
 - Indicative New Full Line Tension Gantry
 - Indicative Temporary Pylon or Mast
- New Overhead Line Circuit
 - Indicative New Overhead Line
 - Indicative Temporary Overhead Line
- Landslides potential
 - Areas identified as having the potential for slope instability by the BGS

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 Geology and Hydrogeology
 Figure 10.15
 Landslide Hazard Areas

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Figure Number: Figure 10.15
 Drawing Reference: GM11455/Figure 10.15

Scale	Sheet Size	Sheet	Issue
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