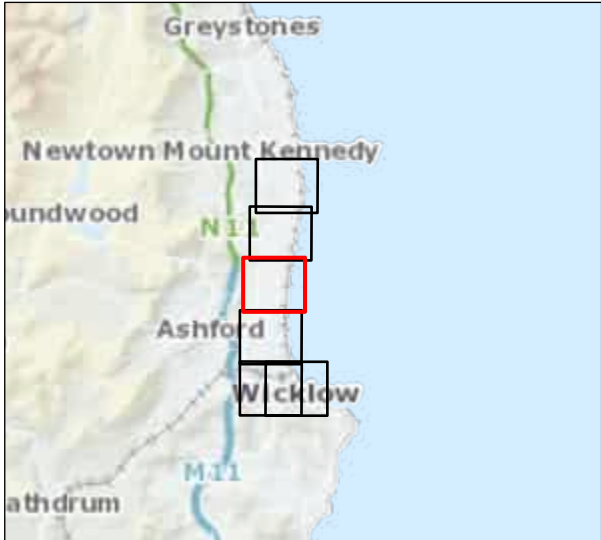


FIGURE 7.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
 - Geological Heritage Audited Sites
- Contaminated Land
- Mineral Localities
- Non-metallic
- Pits & Quarries
- Activity Period
- Documented c. 1970: Quarries
 - Early to Mid-20thC: Pits
 - Early to Mid-20thC: Quarries
 - Late 20thC: Pits
 - Pits & Quarries
- Quaternary Sediments
- A, Alluvium
 - GCSsS, Gravels derived from Cambrian sandstones and shales
 - GLs, Gravels derived from Limestones
 - IrSTCSsS, Irish Sea Till derived from Cambrian sandstones and shales
 - Mbs, Marine beach sands
 - Rck, Bedrock outcrop or subcrop
 - TLPSSsS, Till derived from Lower Palaeozoic sandstones and shales



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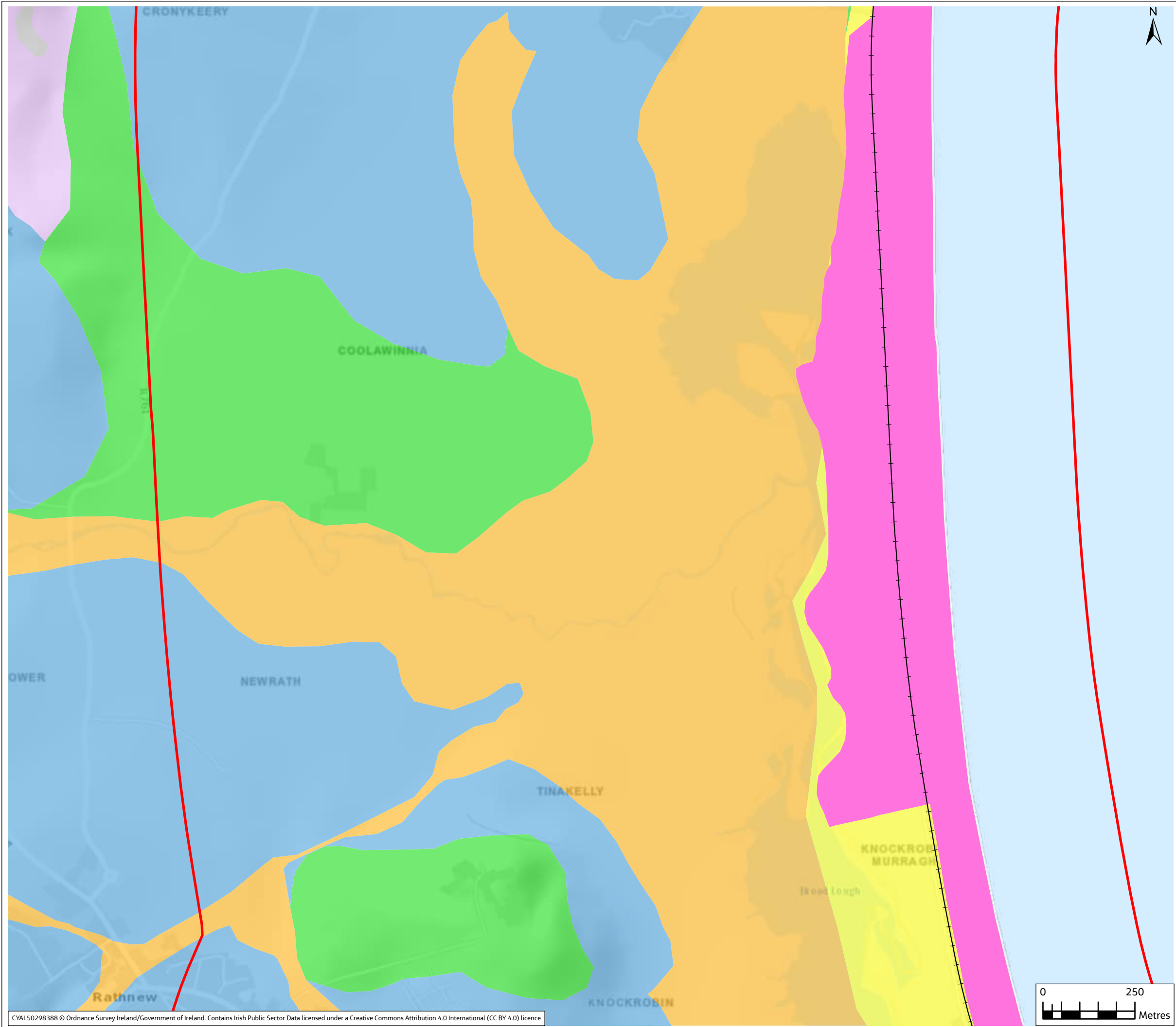
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Drawing Title

Figure 7.1
CCA6.2- Environmental Constraints - Geology & Subsoils
(Page 3 of 6)

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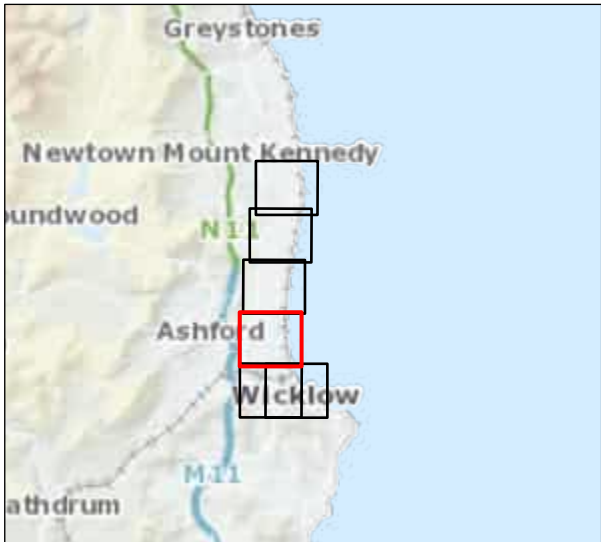
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FIGURE 7.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
 - Geological Heritage Audited Sites
- Quaternary Sediments
- A, Alluvium
 - GCSsS, Gravels derived from Cambrian sandstones and shales
 - GLs, Gravels derived from Limestones
 - IrSTCSs, Irish Sea Till derived from Cambrian sandstones and shales
 - Mbs, Marine beach sands
 - Rck, Bedrock outcrop or subcrop
 - TLPSSs, Till derived from Lower Palaeozoic sandstones and shales



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Drawing Title

Figure 7.1
CCA6.2- Environmental Constraints - Geology & Subsoils
(Page 4 of 6)

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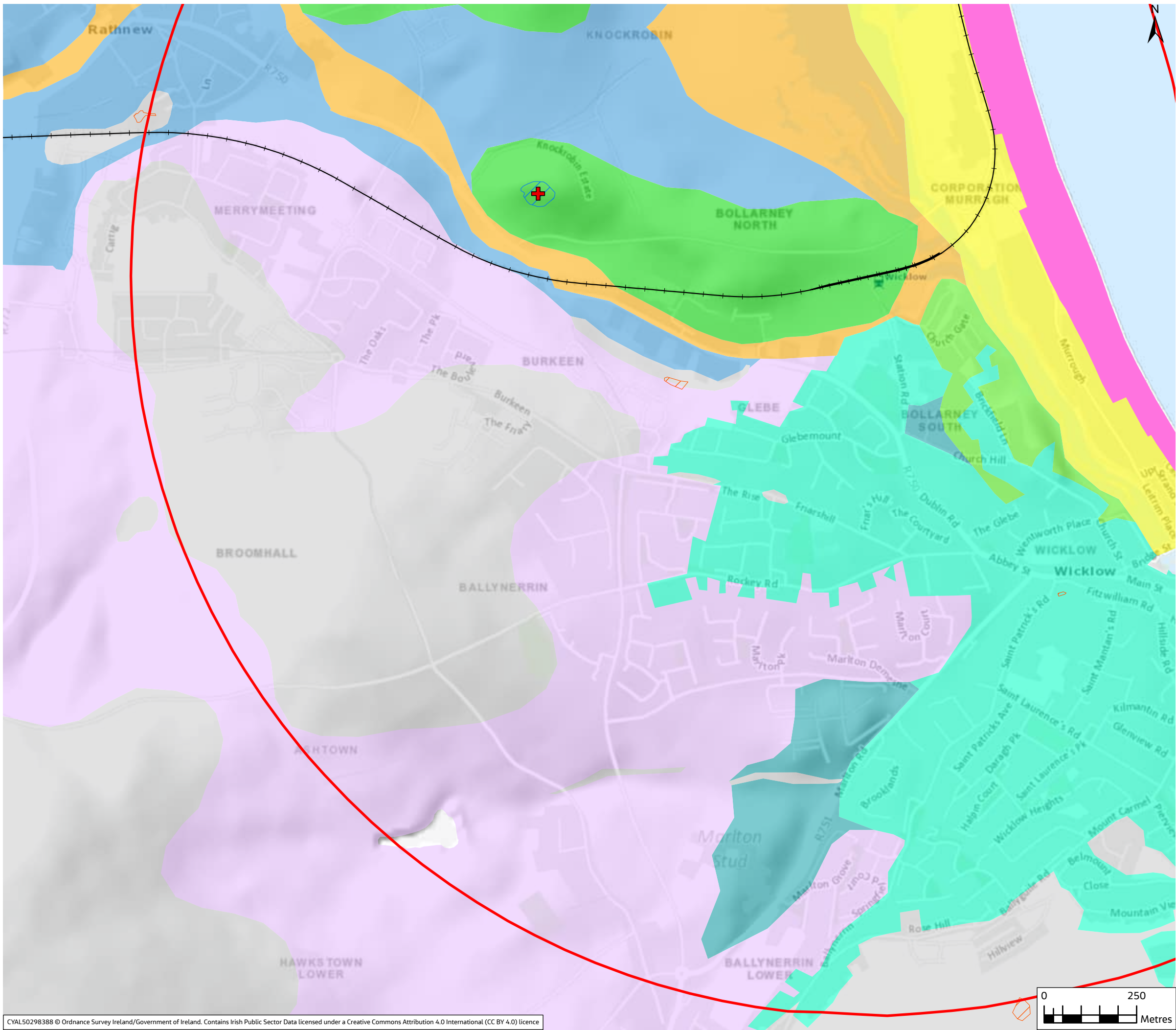
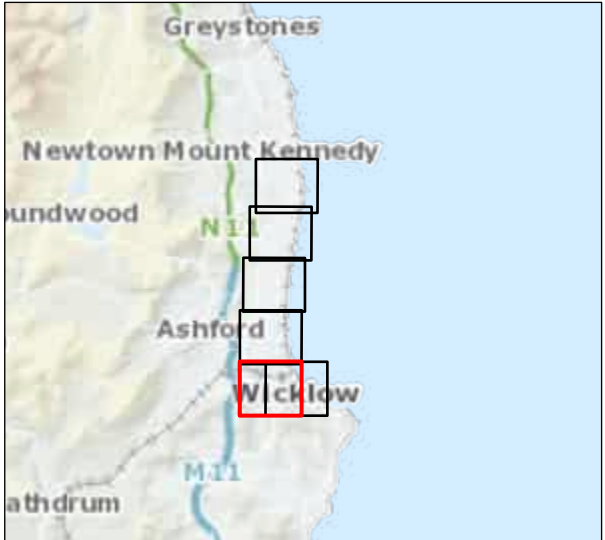


FIGURE 7.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
 - Geological Heritage Audited Sites
- Pits & Quarries
- Activity Period
- Early to Mid-20thC: Quarries
 - Mid-Late 20thC: Pits
- Pits & Quarries
- Quaternary Sediments
- A, Alluvium
 - GLPSsS, Gravels derived from Lower Palaeozoic sandstones and shales
 - GLs, Gravels derived from Limestones
 - IrSTCSsS, Irish Sea Till derived from Cambrian sandstones and shales
 - IrSTLPSsS, Irish Sea Till derived from Lower Palaeozoic sandstones and shales
 - Mbs, Marine beach sands
 - Rck, Bedrock outcrop or subcrop
 - TLPSsS, Till derived from Lower Palaeozoic sandstones and shales
 - Urban
 - Water



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Figure 7.1
CCA6.2- Environmental Constraints - Geology & Subsoils
(Page 5 of 6)

Drawing Status

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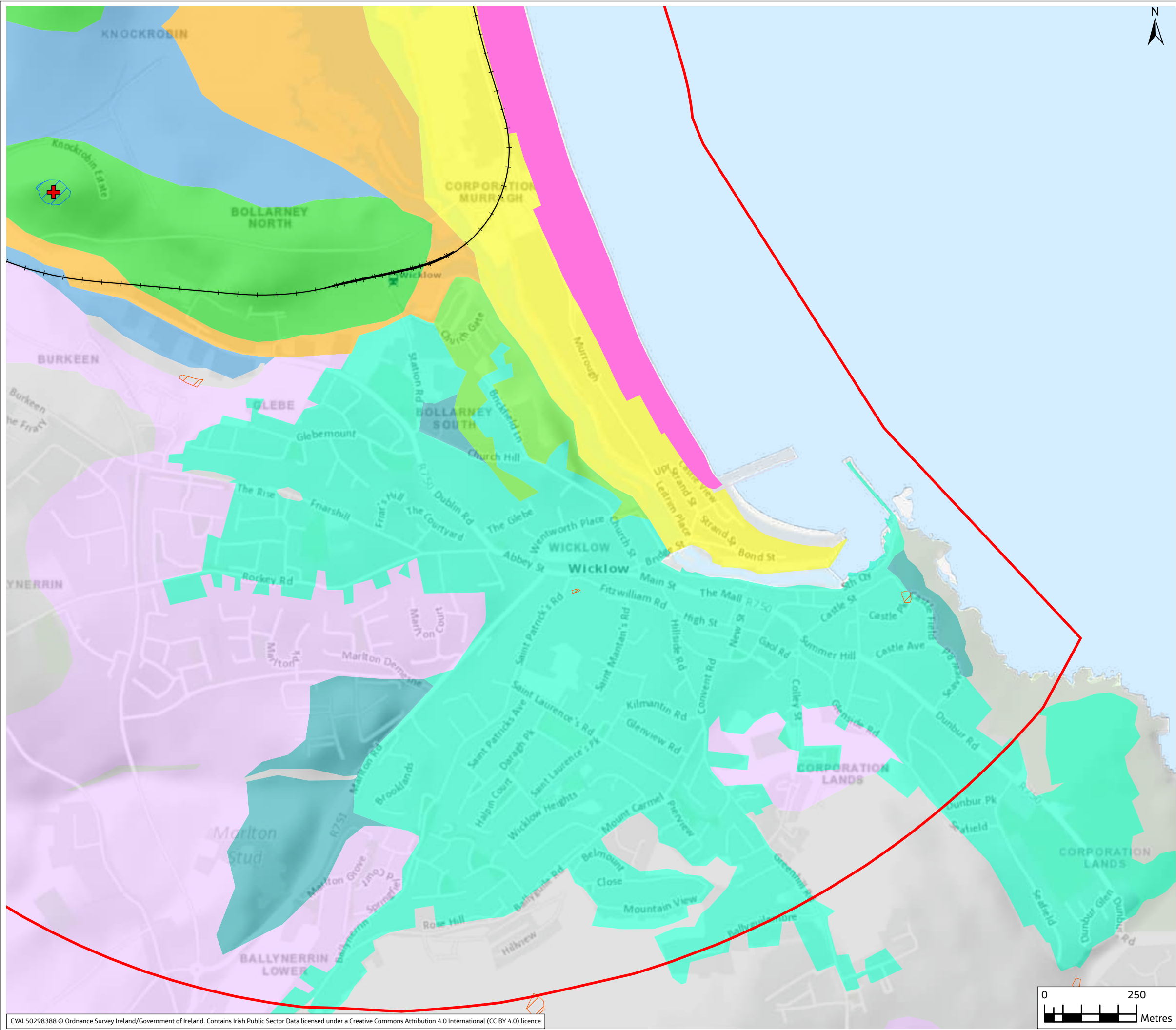
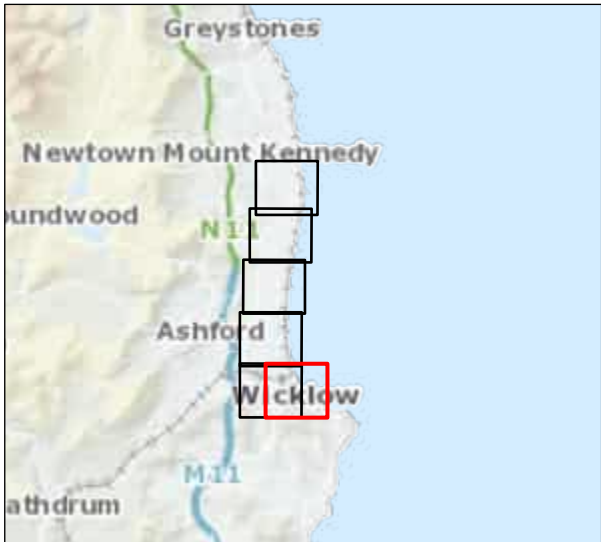


FIGURE 7.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centrelines
 - Geological Heritage Audited Sites
- Pits & Quarries
- Activity Period
- Early to Mid-20thC: Quarries
 - Mid-Late 20thC: Pits
 - Pits & Quarries
- Quaternary Sediments
- A, Alluvium
 - GLPSs, Gravels derived from Lower Palaeozoic sandstones and shales
 - GLs, Gravels derived from Limestones
 - IrSTCSs, Irish Sea Till derived from Cambrian sandstones and shales
 - IrSTLPSs, Irish Sea Till derived from Lower Palaeozoic sandstones and shales
 - Mbs, Marine beach sands
 - Pier
 - Rck, Bedrock outcrop or subcrop
 - TLPSs, Till derived from Lower Palaeozoic sandstones and shales
 - Urban



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Drawing Title

Figure 7.1
CCA6.2- Environmental Constraints - Geology & Subsoils
(Page 6 of 6)

Drawing Status

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FIGURE 7.2

Legend

CCA1 Study Area

Railway Network Centreline

Bedrock Aquifers

LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local ZonesPI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones

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Figure 7.2
CCA1- Environmental Constraints - Bedrock Aquifers
(Page 1 of 2)

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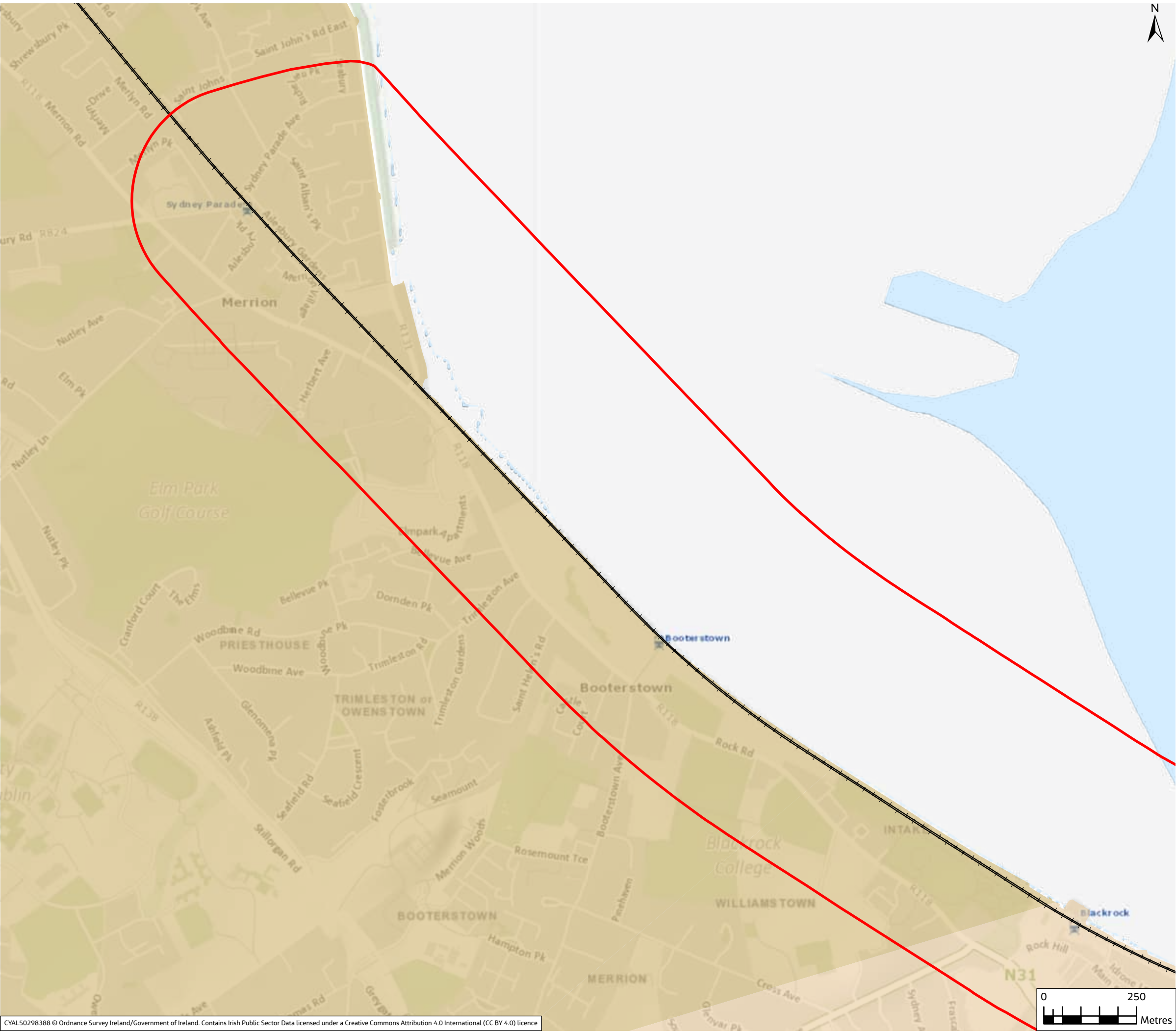


FIGURE 7.2

Legend

CCA1 Study Area

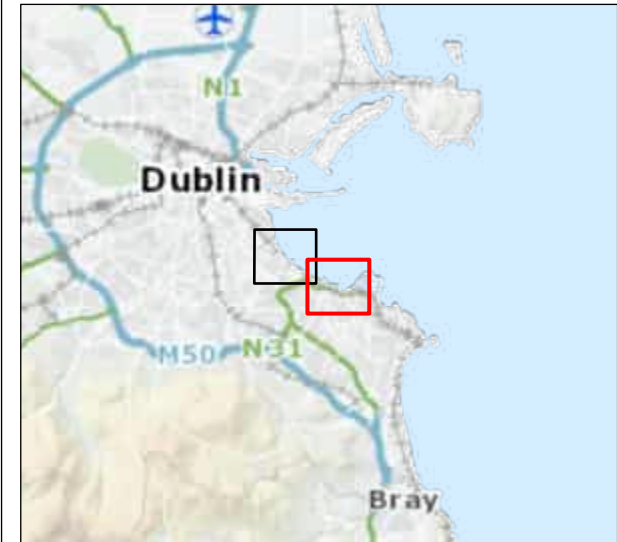
Railway Network Centreline

Bedrock Aquifers

LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones

Unclassified



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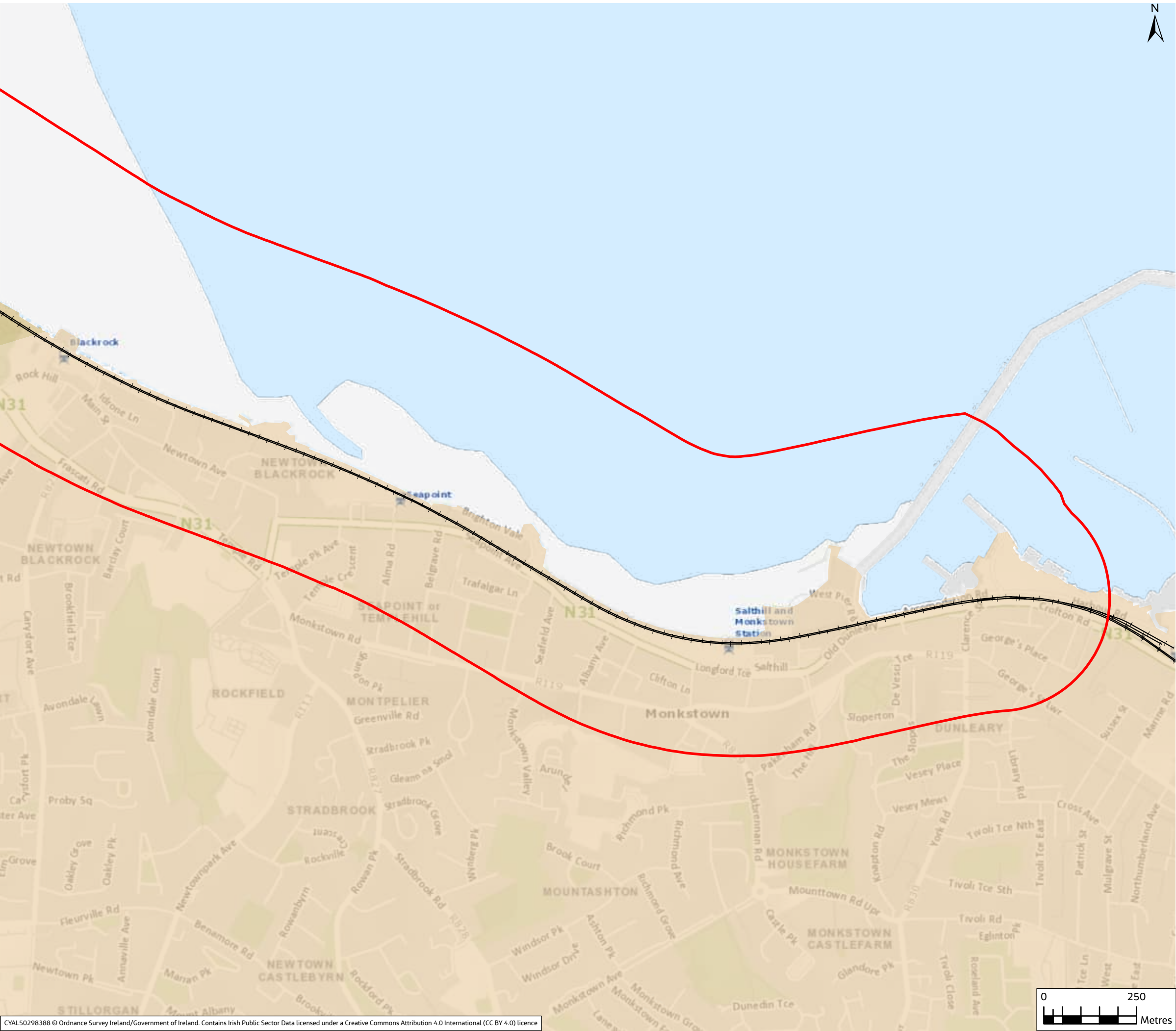
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Drawing Title

Figure 7.2
CCA1- Environmental Constraints - Bedrock Aquifers
(Page 2 of 2)

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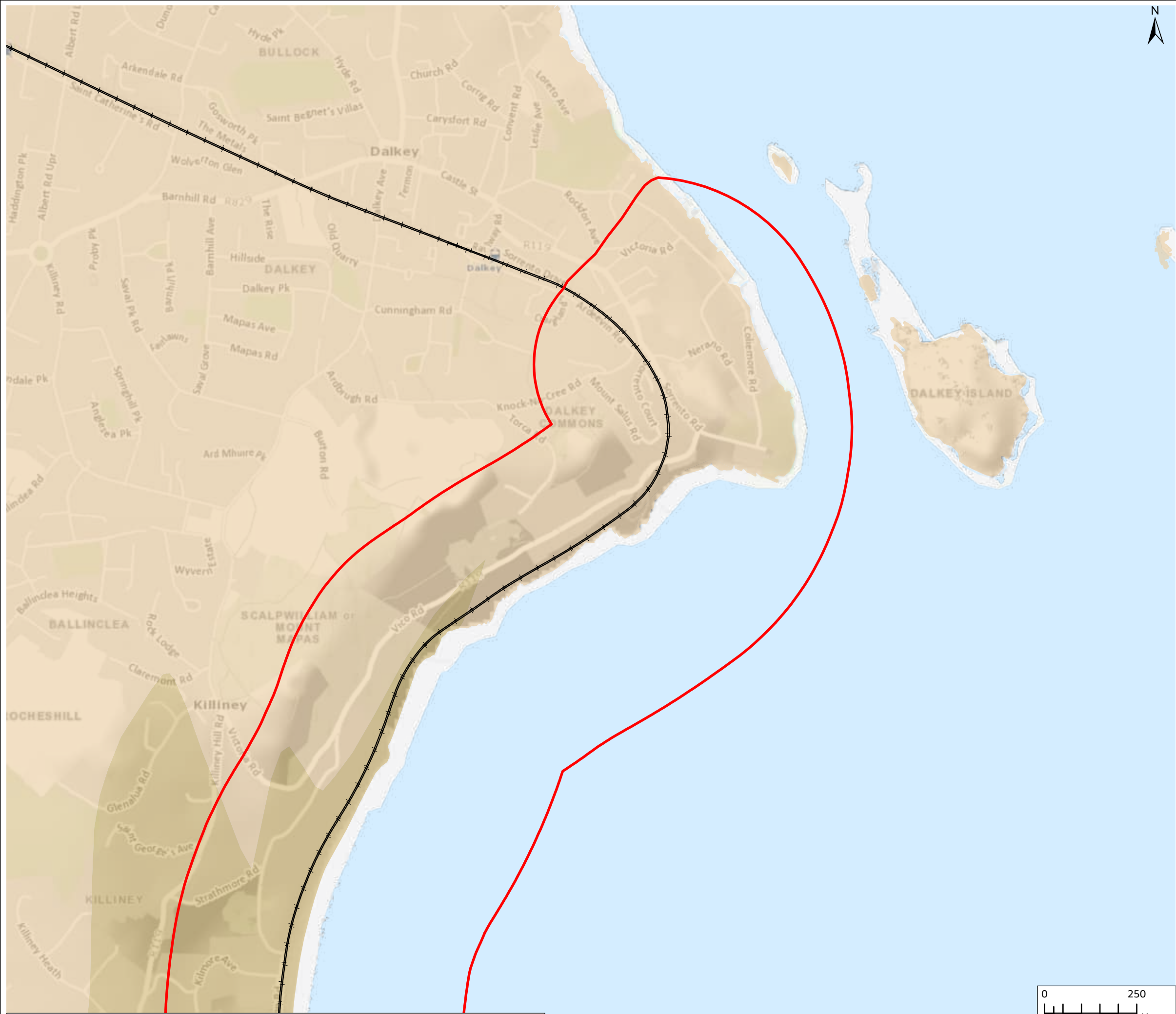


FIGURE 7.2

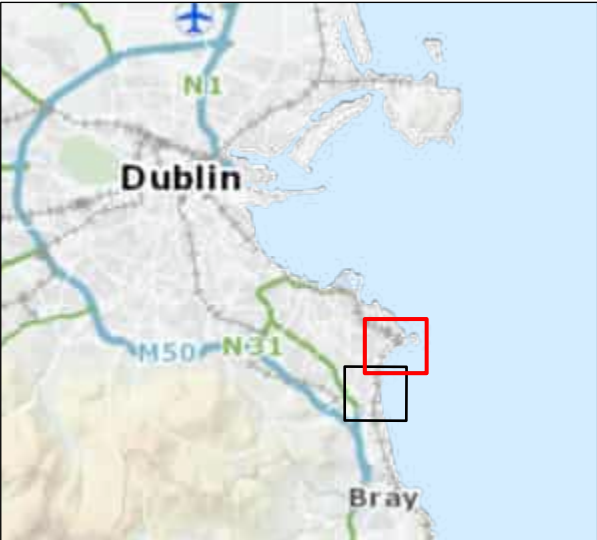
Legend

CCA2-3 Study Area

Railway Network Centreline

Bedrock Aquifers

- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones
- Unclassified



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Drawing Title

Figure 7.2
CCA2-3- Environmental Constraints - Bedrock Aquifers
(Page 1 of 2)

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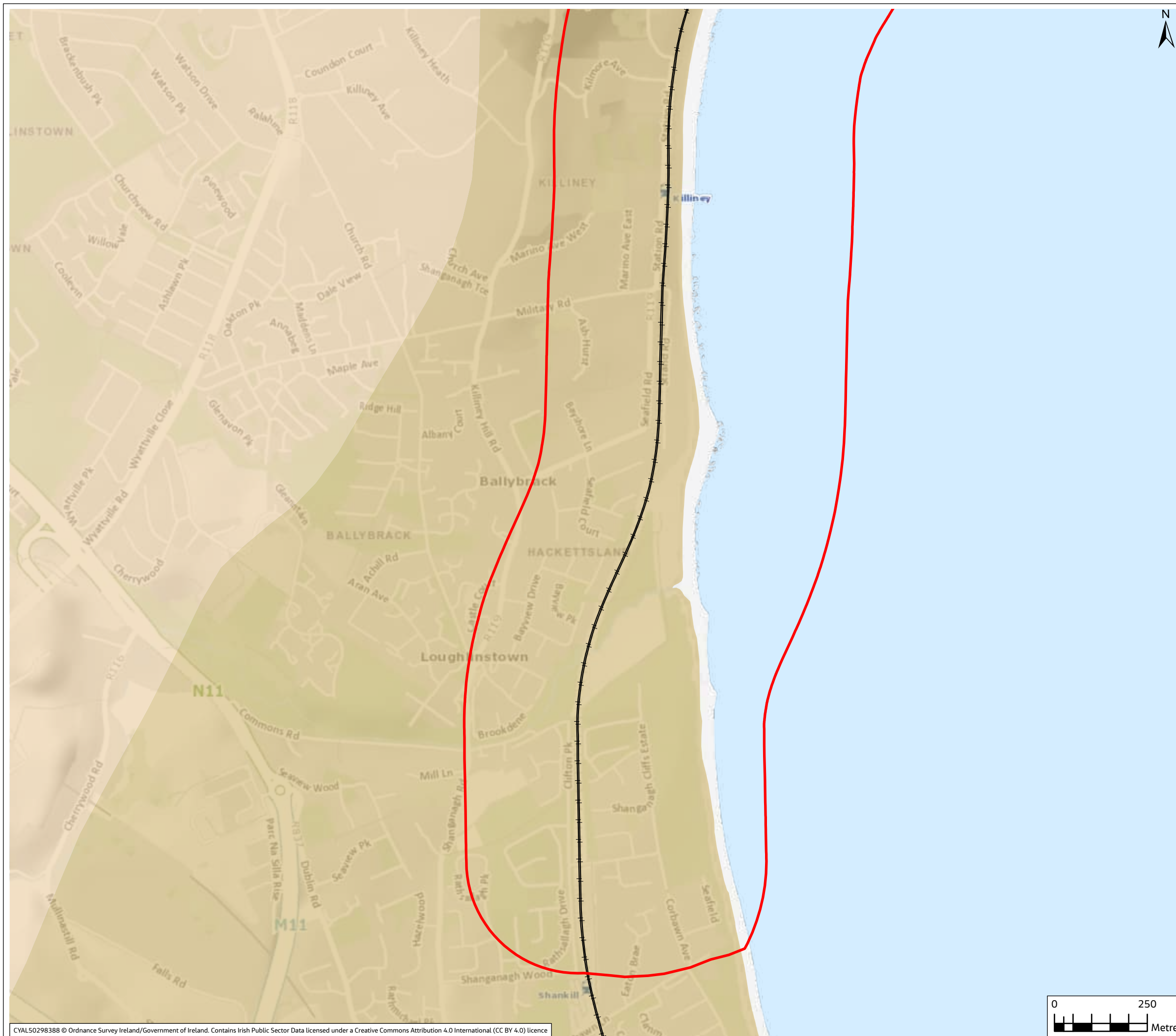



FIGURE 7.2

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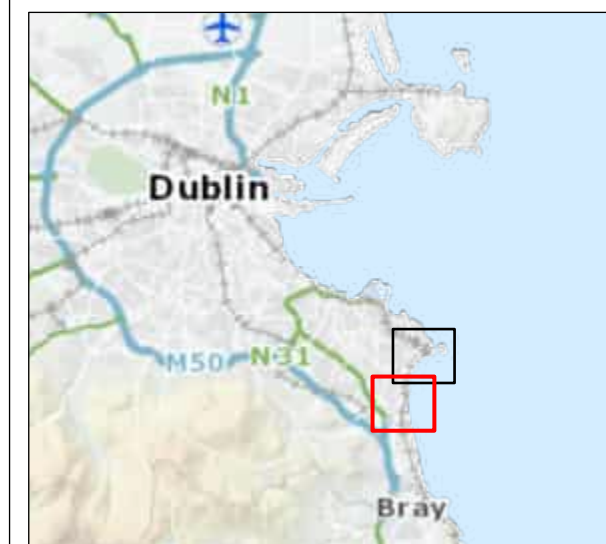
 CCA2-3 Study Area

—+ Railway Network Centreline

Bedrock Aquifers

LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Drawing Title

Figure 7.2
CCA2-3- Environmental Constraints - Bedrock Aquifers
(Page 2 of 2)

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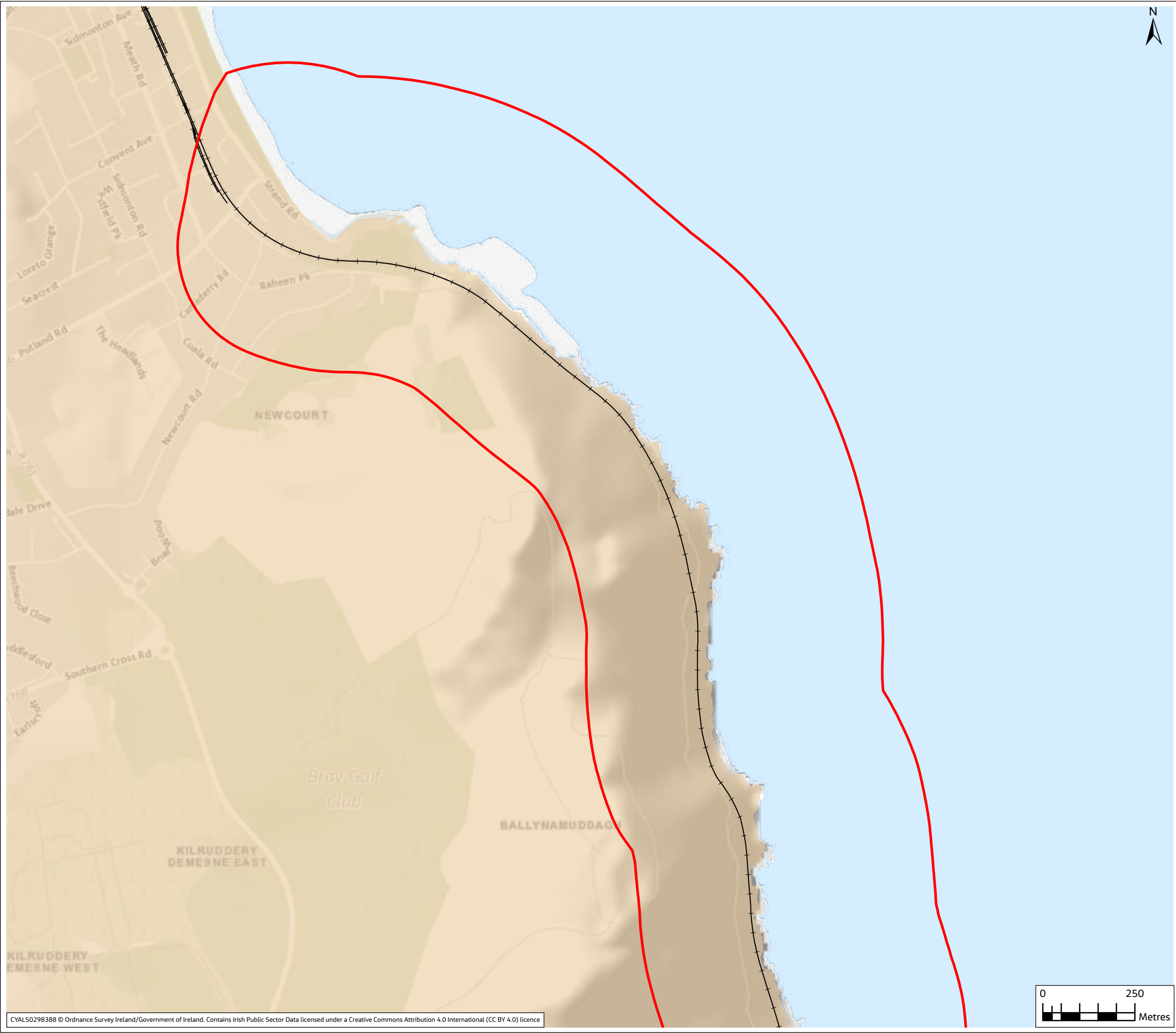
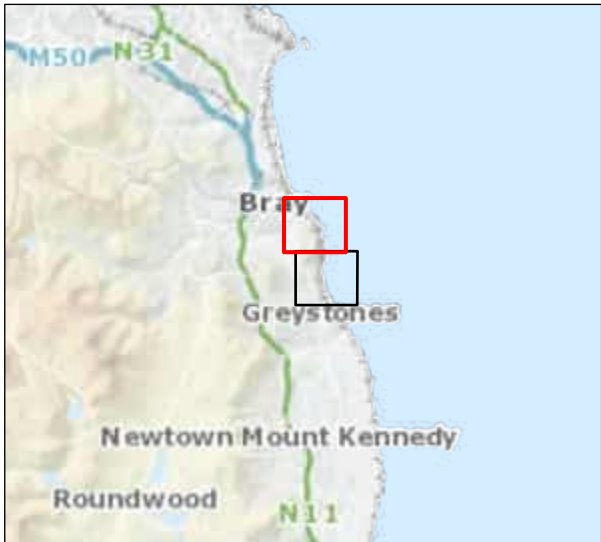


FIGURE 7.2

- Legend
- CCA5 Study Area
 - Railway Network Centreline
- Bedrock Aquifers
- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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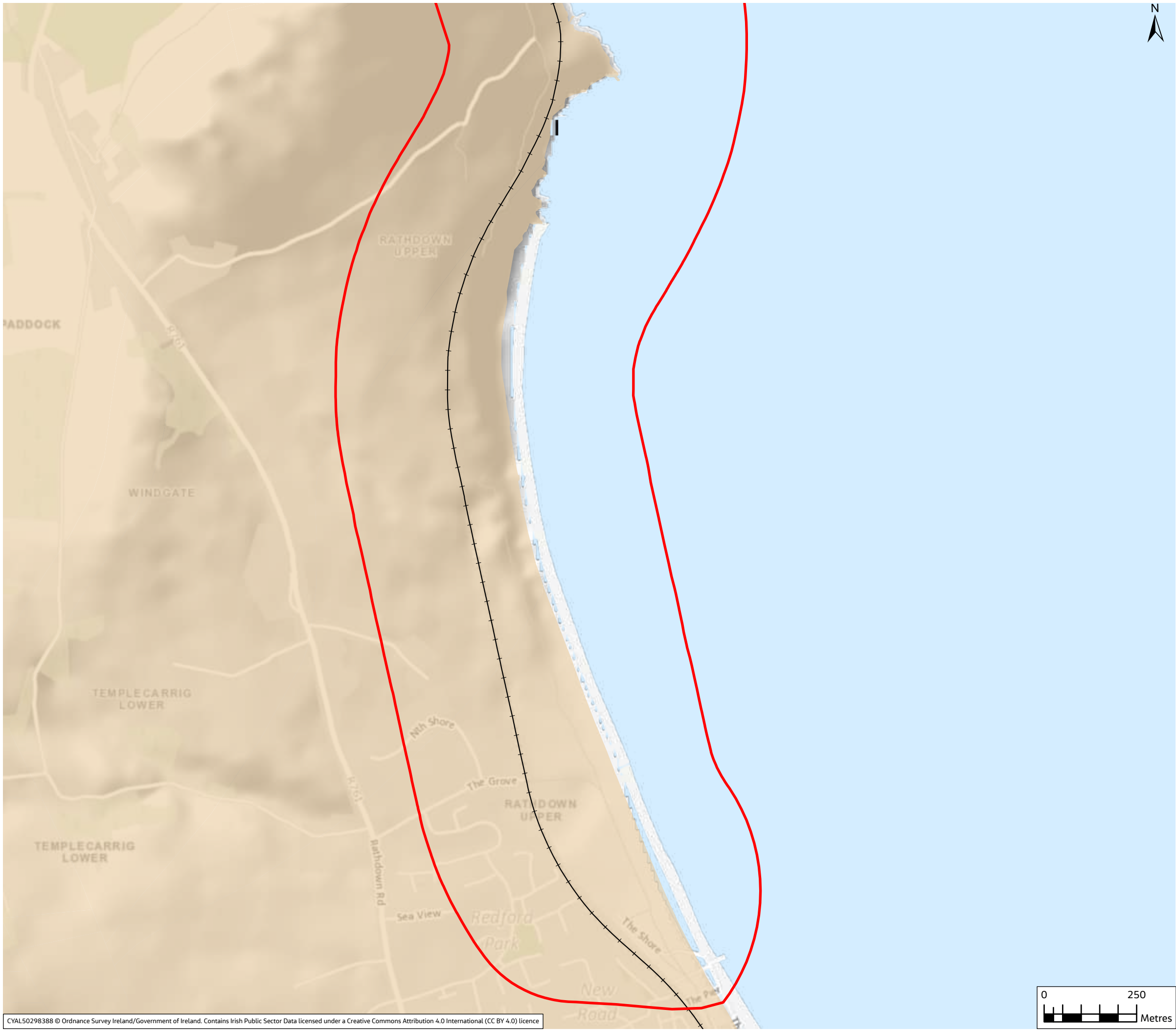
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Figure 7.2
CCA5- Environmental Constraints - Bedrock Aquifers
(Page 1 of 2)

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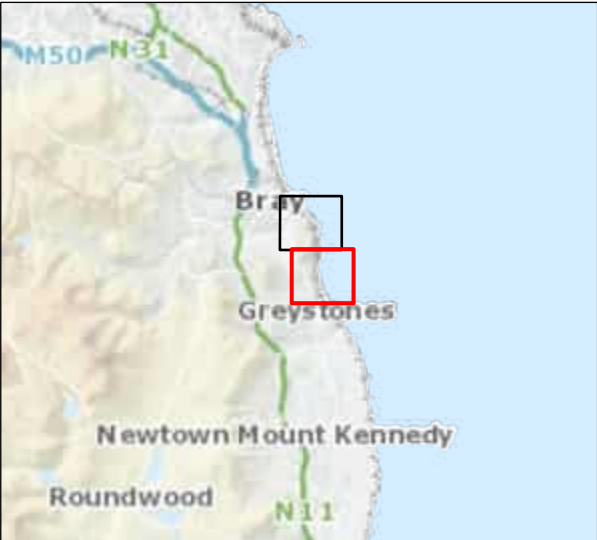




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FIGURE 7.2

- Legend
- CCA5 Study Area
 - Railway Network Centreline
- Bedrock Aquifers
- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Figure 7.2
CCA5- Environmental Constraints - Bedrock Aquifers
(Page 2 of 2)

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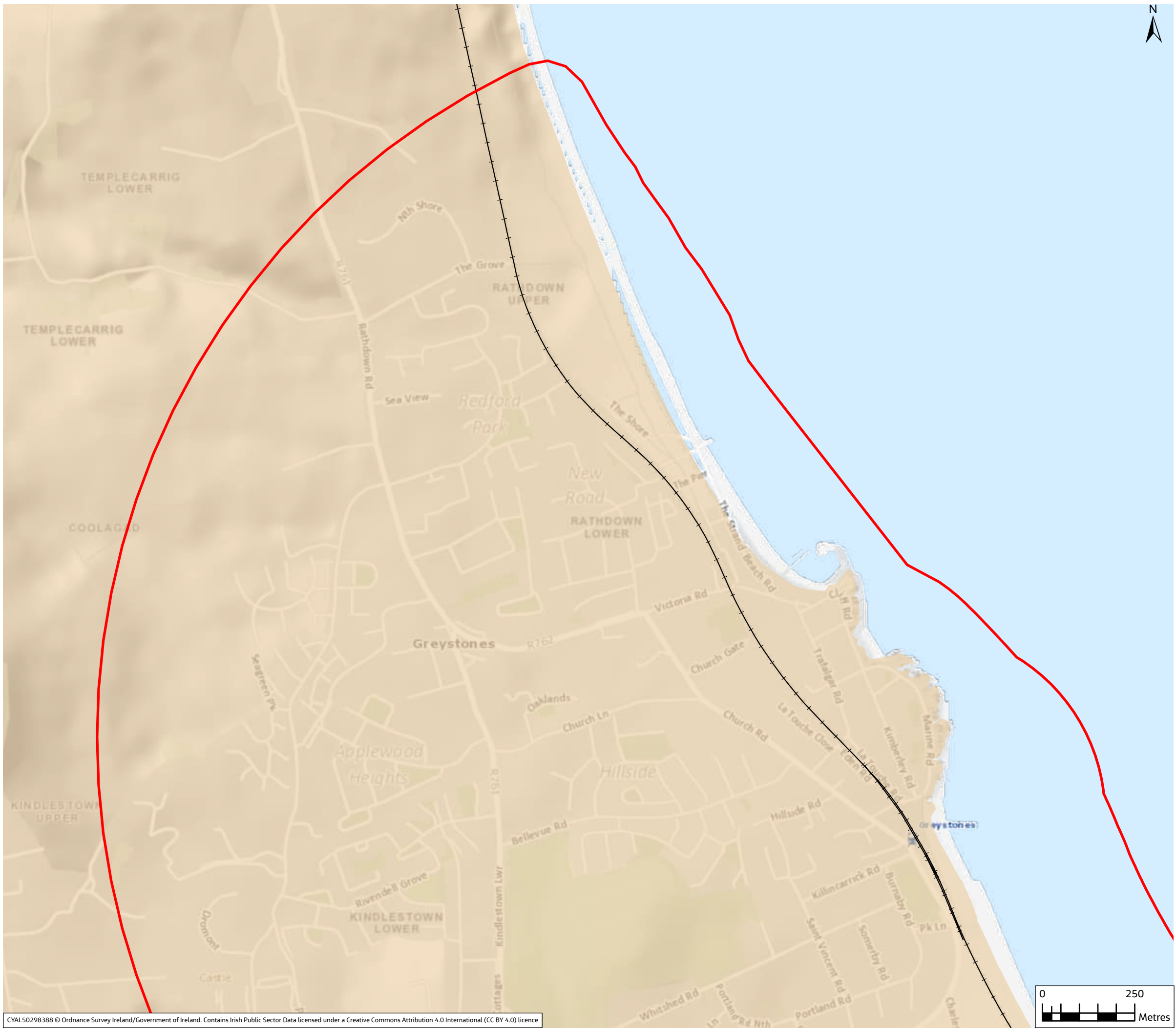


FIGURE 7.2

Legend

CCA6.1 Study Area

Railway Network Centreline

Bedrock Aquifers

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones

Unclassified



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Figure 7.2
CCA6.1- Environmental Constraints - Bedrock Aquifers
(Page 1 of 6)

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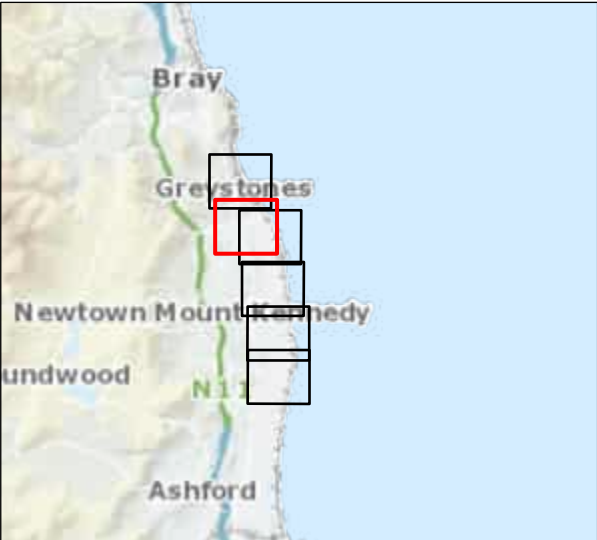
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CCA6.1 Study Area

+ Railway Network Centreline

Bedrock Aquifers

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Figure 7.2
CCA6.1- Environmental Constraints - Bedrock Aquifers
(Page 2 of 6)

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FIGURE 7.2

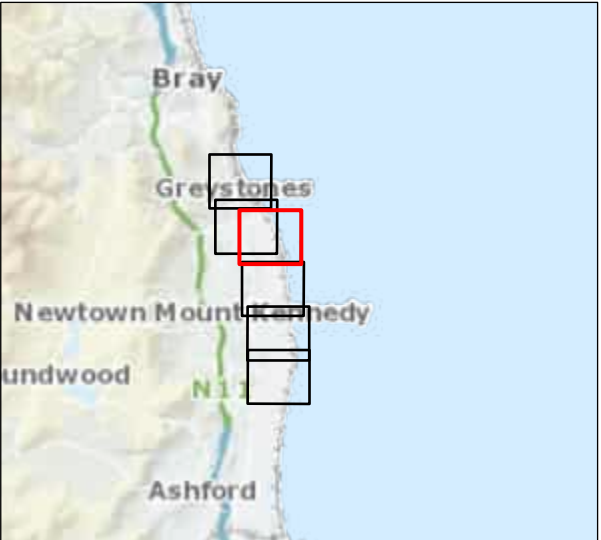
Legend

CCA6.1 Study Area

Railway Network Centreline

Bedrock Aquifers

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Drawing Title

Figure 7.2
CCA6.1- Environmental Constraints - Bedrock Aquifers
(Page 3 of 6)

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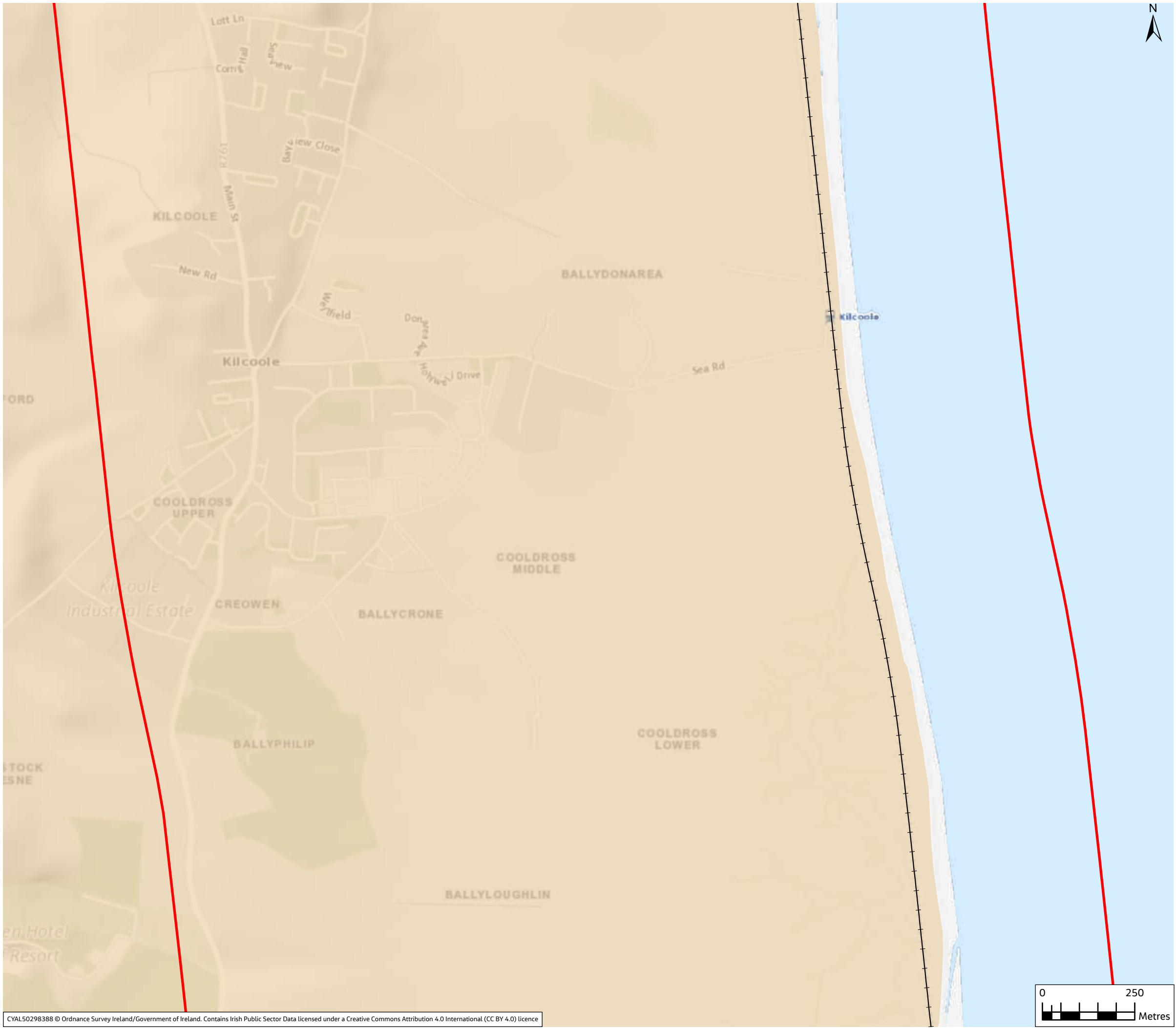


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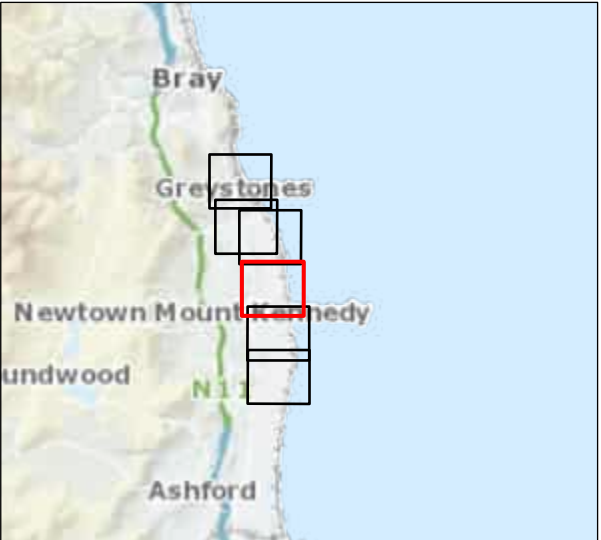
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CCA6.1 Study Area

Railway Network Centreline

Bedrock Aquifers

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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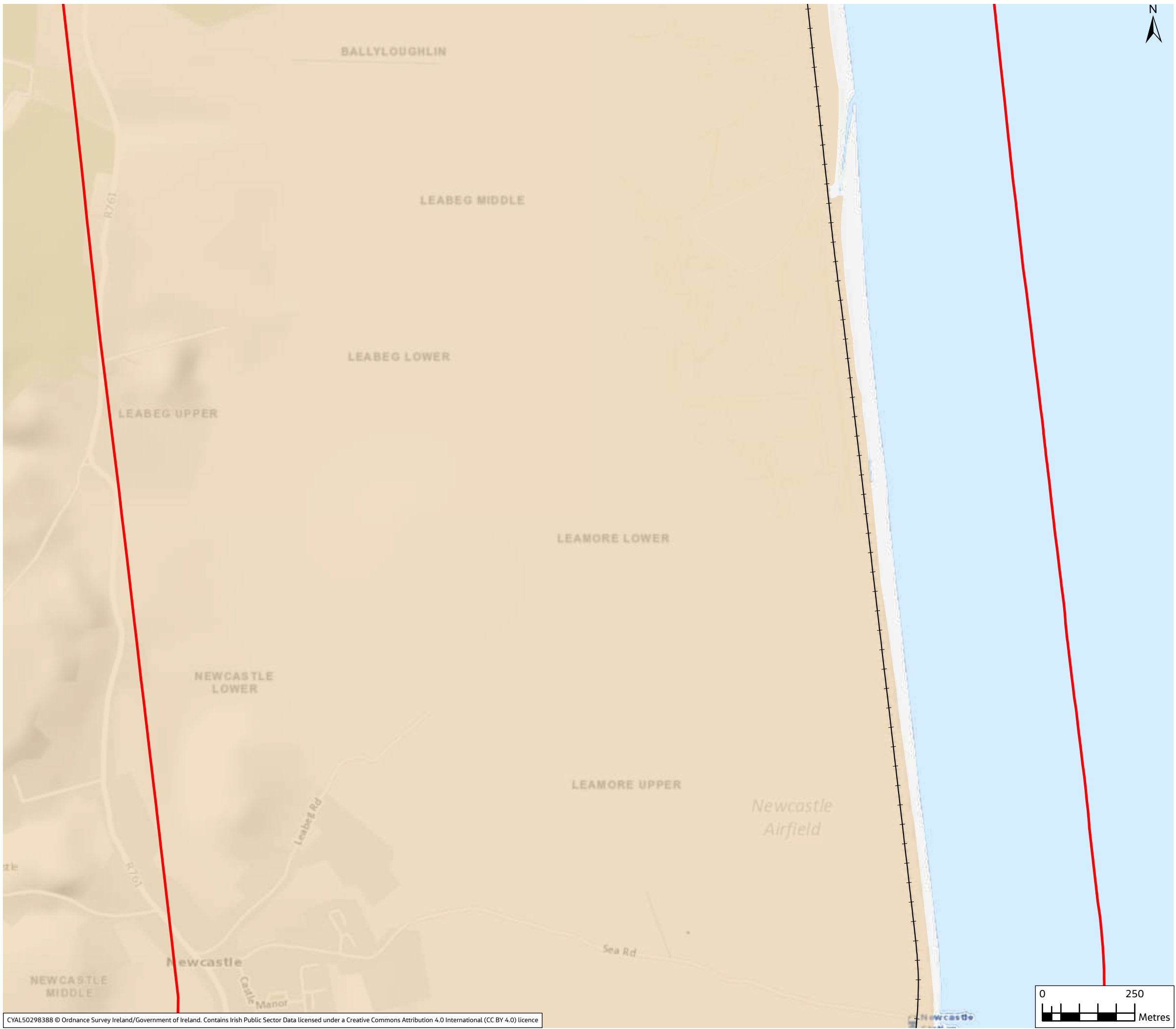
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Figure 7.2
CCA6.1- Environmental Constraints - Bedrock Aquifers
(Page 4 of 6)

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FIGURE 7.2

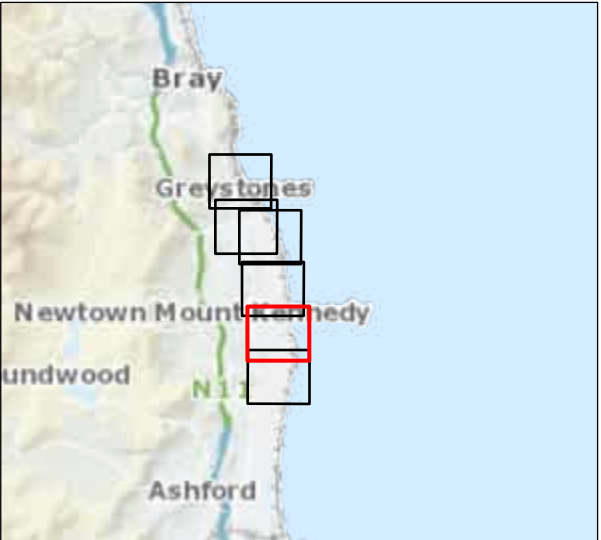
Legend


CCA6.1 Study Area

Railway Network Centreline

Bedrock Aquifers

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Drawing Title							
Figure 7.2 CCA6.1- Environmental Constraints - Bedrock Aquifers (Page 5 of 6)							
Drawing Status							
ISSUE FOR ACCEPTANCE							
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FIGURE 7.2

Legend

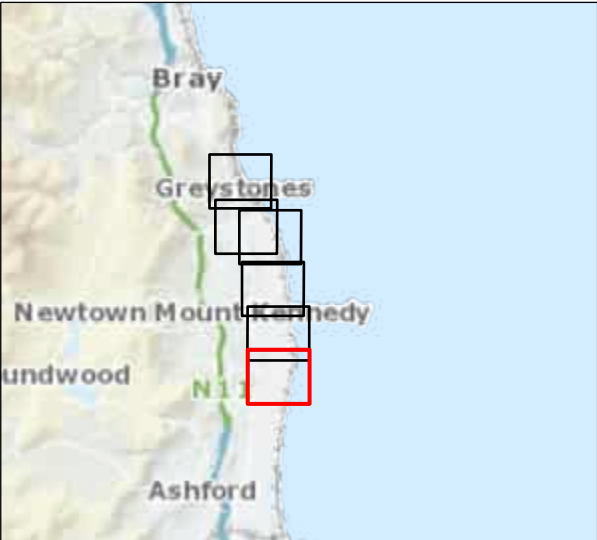
CCA6.1 Study Area

Railway Network Centreline

Bedrock Aquifers

LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Drawing Title

Figure 7.2
CCA6.1- Environmental Constraints - Bedrock Aquifers
(Page 6 of 6)

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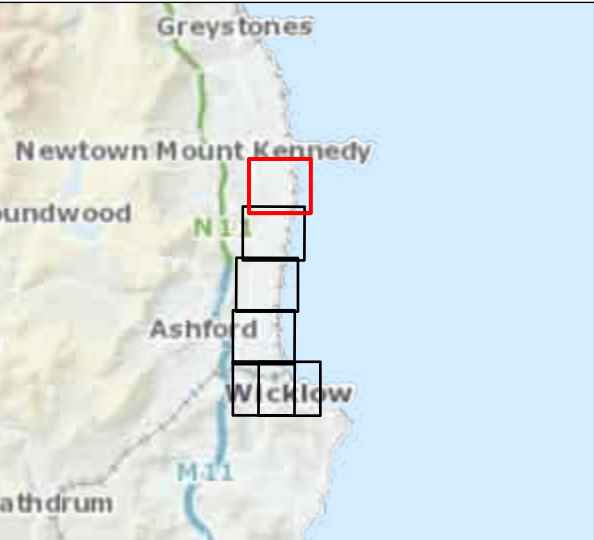
Legend

Study Area

- CCA6.2 Study Area
- Railway Network Centreline

Bedrock Aquifers

- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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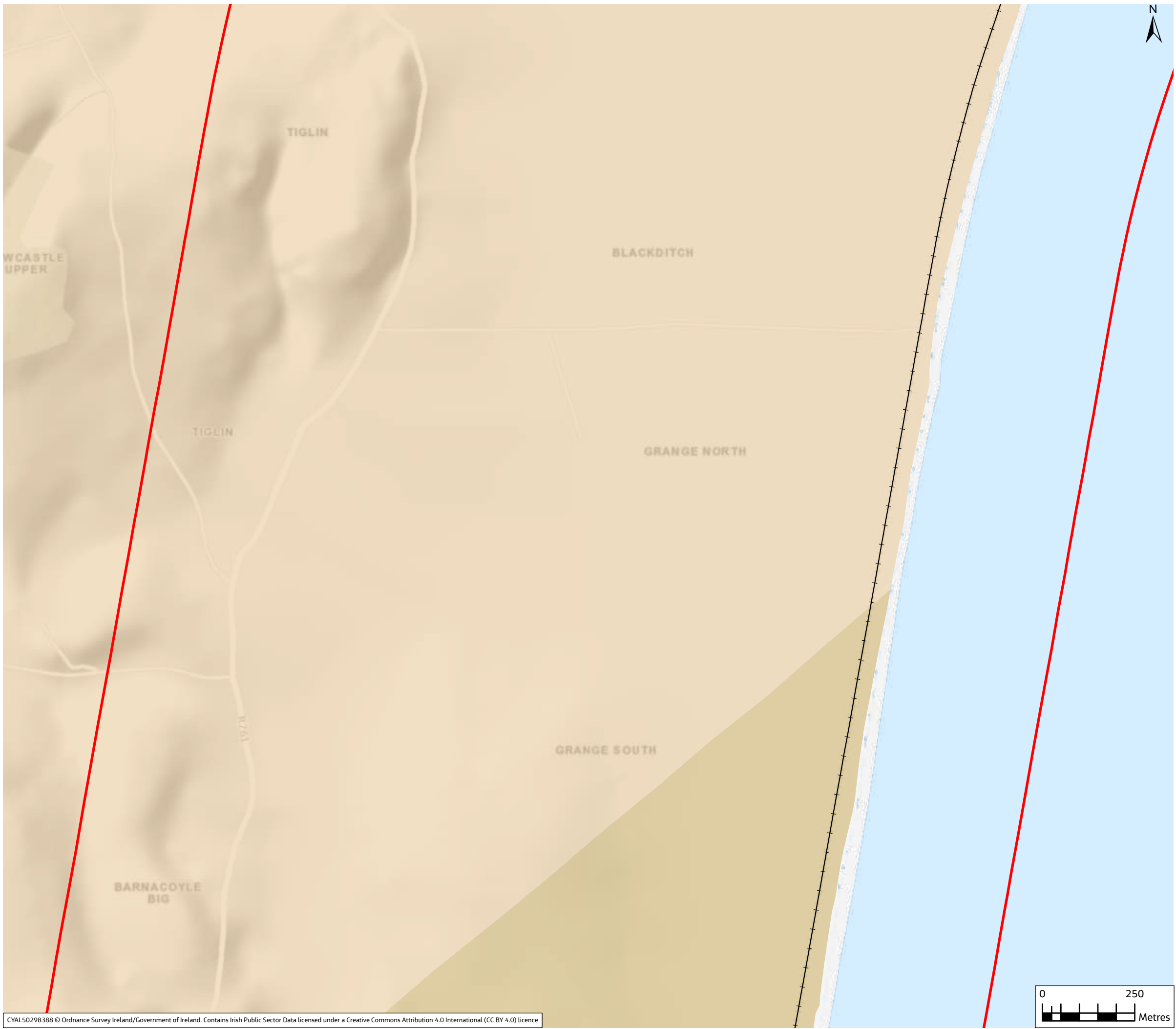
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Figure 7.2
CCA6.2- Environmental Constraints - Bedrock Aquifers
(Page 1 of 6)

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FIGURE 7.2

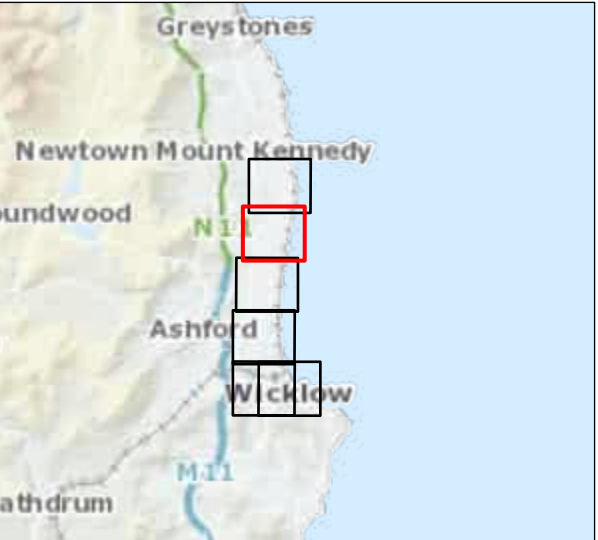
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Study Area

- CCA6.2 Study Area
- Railway Network Centreline

Bedrock Aquifers

- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Drawing Title

Figure 7.2
CCA6.2- Environmental Constraints - Bedrock Aquifers
(Page 2 of 6)

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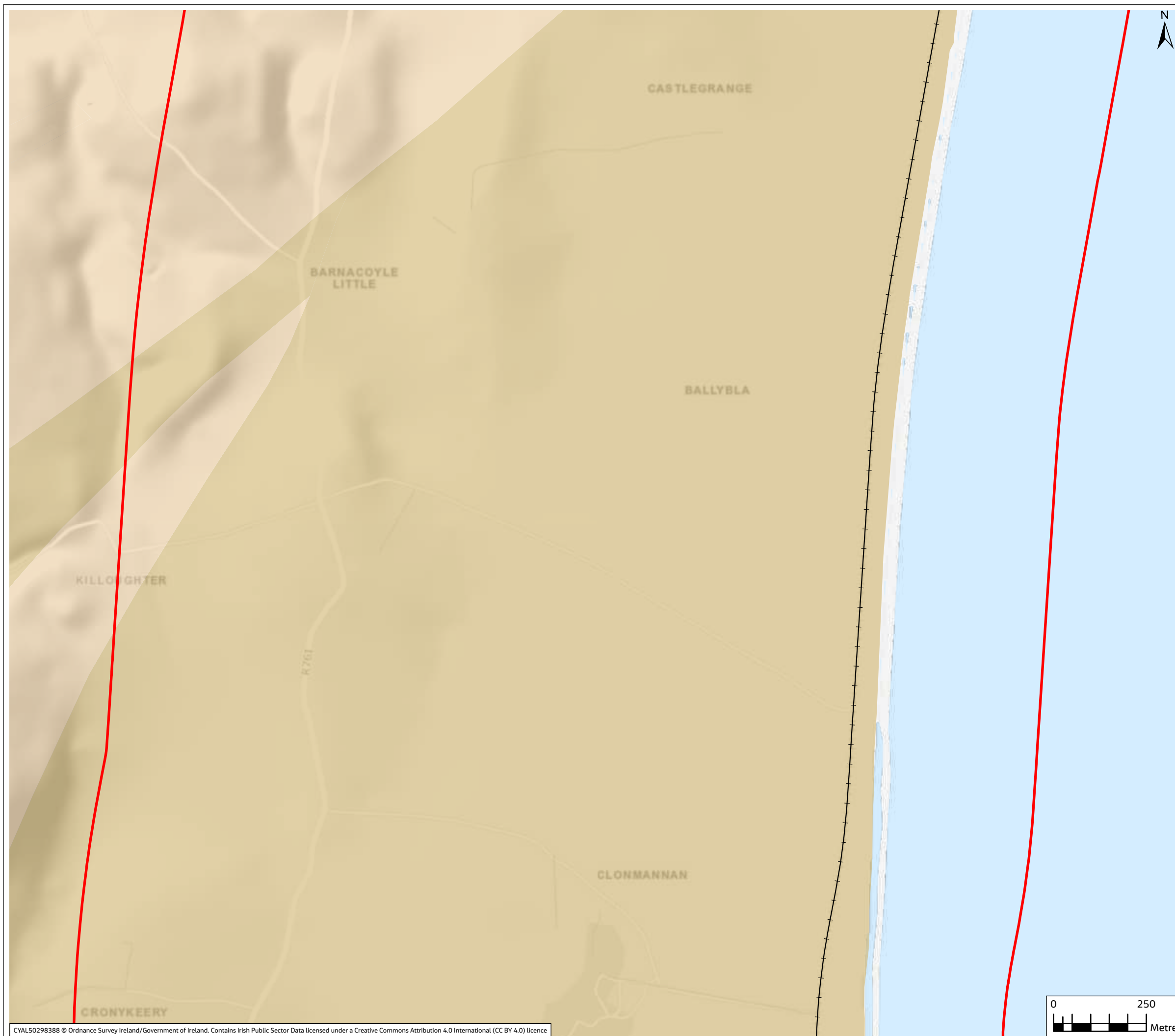



FIGURE 7.2

Legend

Study Area

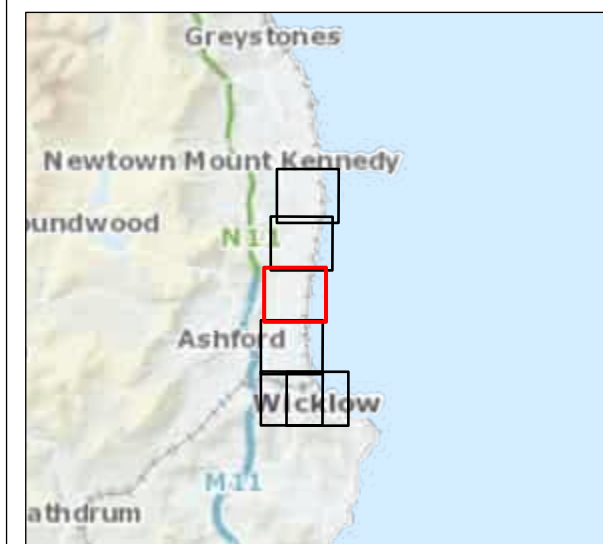
 CCA6.2 Study Area

—+— Railway Network Centreline

Bedrock Aquifers

LI - Locally Important Aquifer - Bedrock
which is Moderately Productive only in Local
Zones

PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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	Drawing Title
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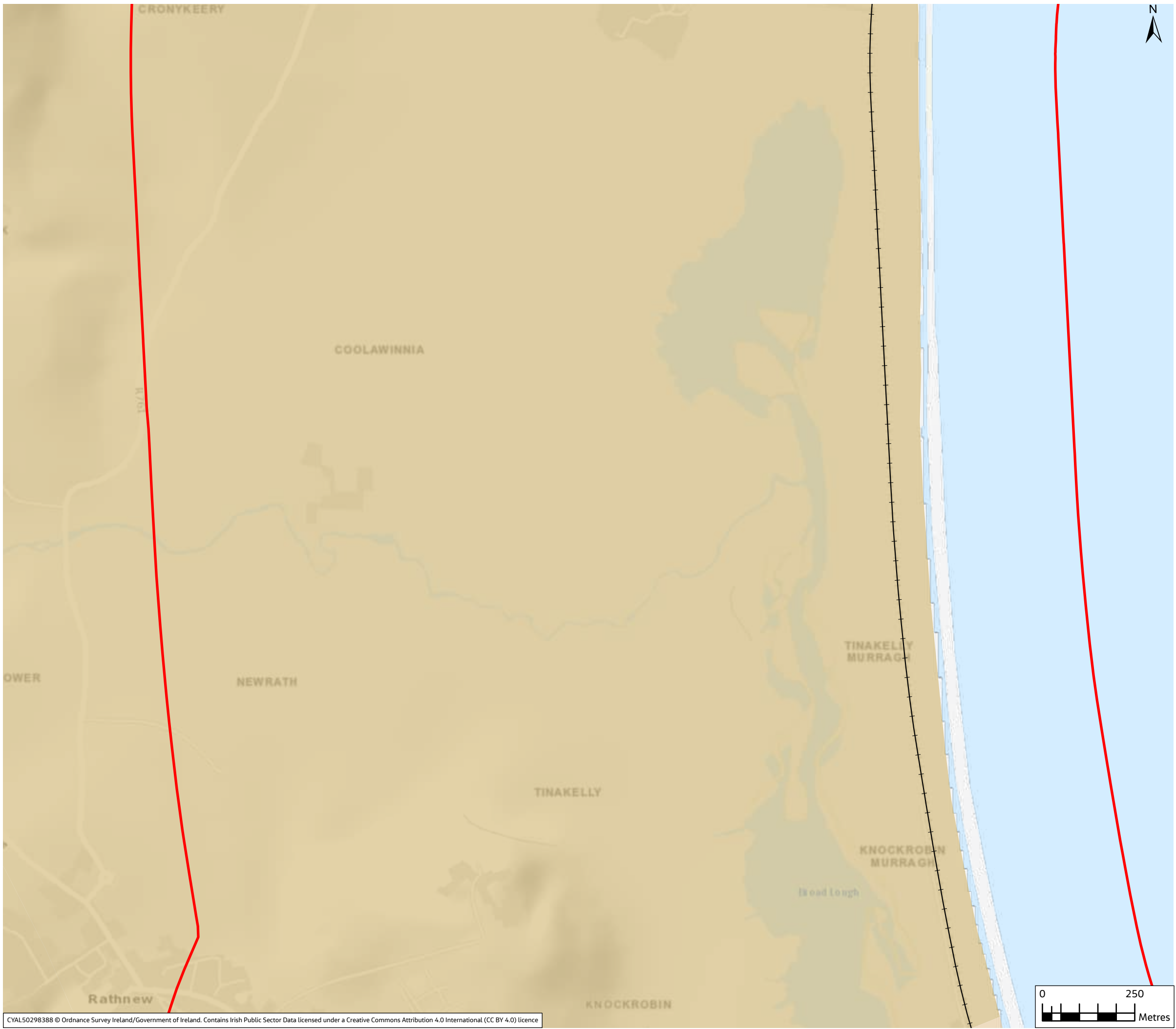
Figure 7.2
CCA6.2- Environmental Constraints - Bedrock Aquifers
(Page 3 of 6)

Drawing Status

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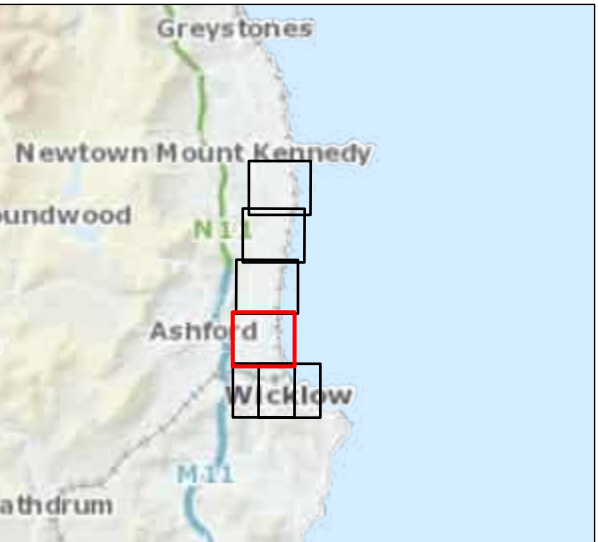
Legend

Study Area

- CCA6.2 Study Area
- Railway Network Centreline

Bedrock Aquifers

- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Figure 7.2
CCA6.2- Environmental Constraints - Bedrock Aquifers
(Page 4 of 6)

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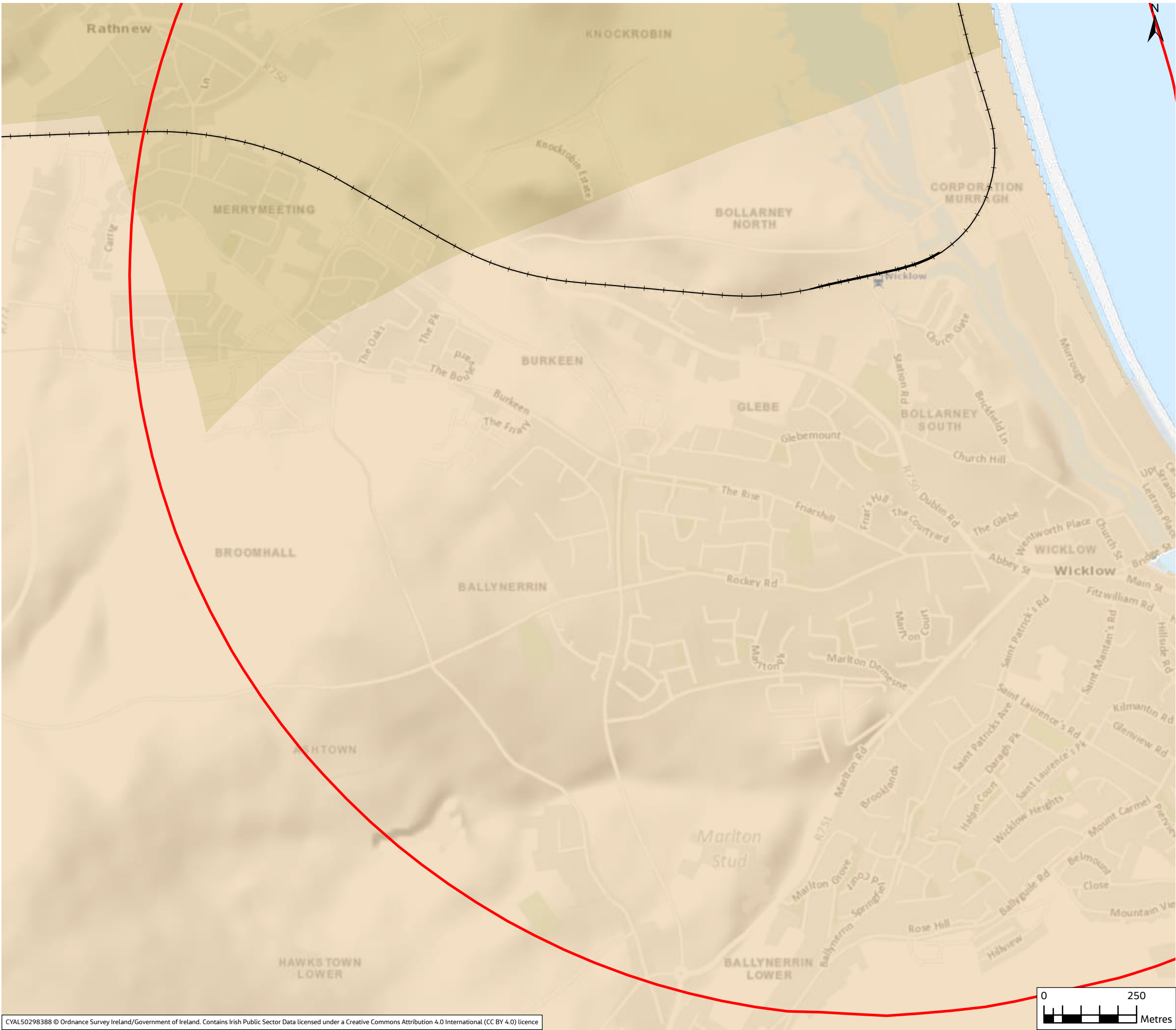


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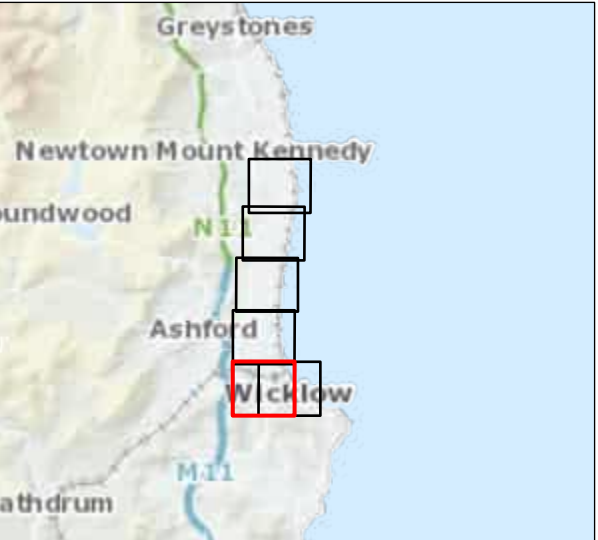
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Study Area

- CCA6.2 Study Area
- Railway Network Centreline

Bedrock Aquifers

- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones



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Figure 7.2
CCA6.2- Environmental Constraints - Bedrock Aquifers
(Page 5 of 6)

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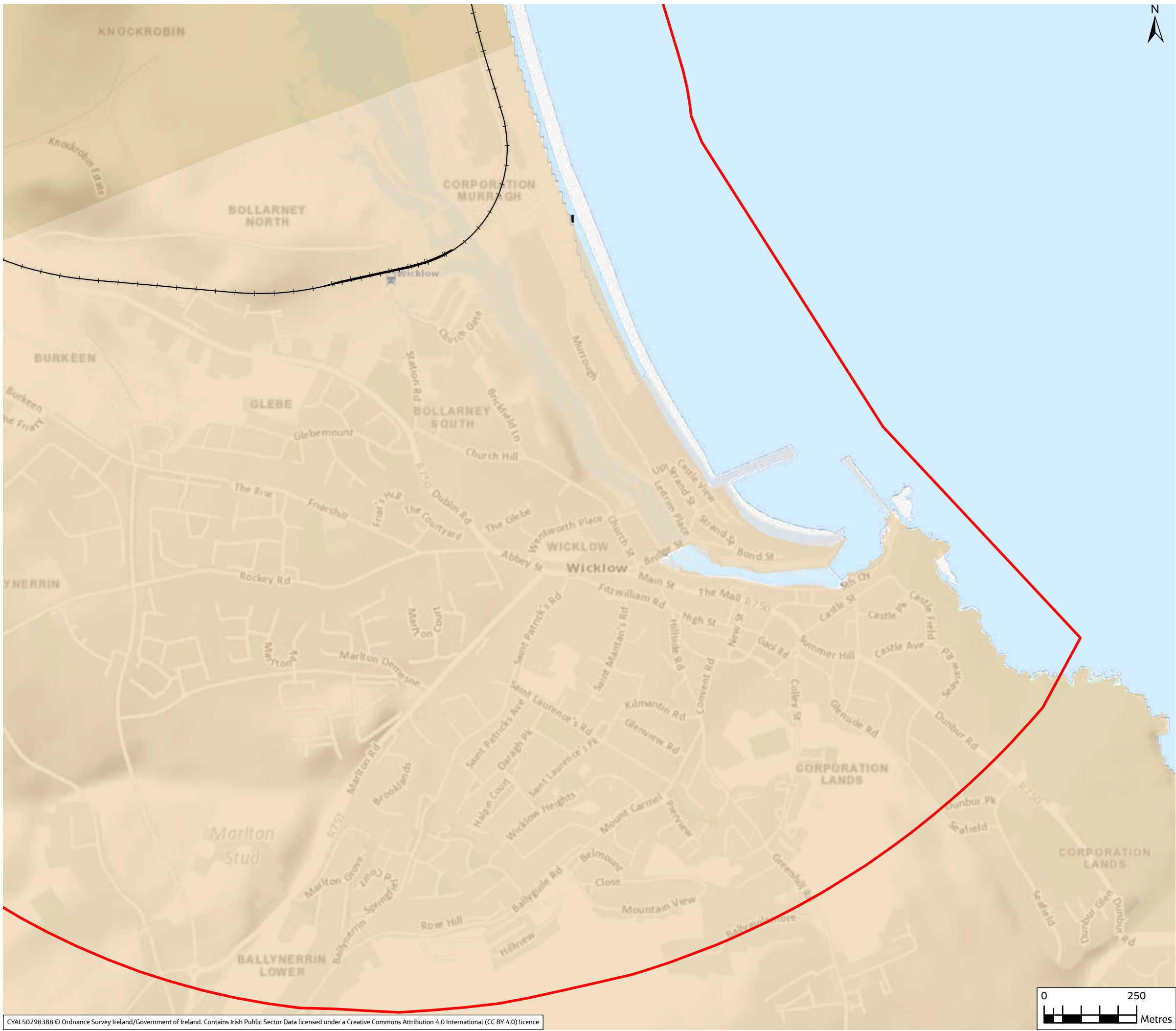


FIGURE 7.2

- Legend
- Study Area
- CCA6.2 Study Area
 - Railway Network Centreline
- Bedrock Aquifers
- LI - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
 - PI - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones
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Figure 7.2
CCA6.2- Environmental Constraints - Bedrock Aquifers
(Page 6 of 6)

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FIGURE 7.3

Legend

CCA1 Study Area

Railway Network Centreline

Groundwater Wells & Springs

Wells & Springs

Groundwater Vulnerability

Rock at or near Surface or Karst

Extreme

High

Low

Moderate



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Drawing Title

Figure 7.3
CCA1- Environmental Constraints - Hydrogeology
(Page 1 of 2)

Drawing Status

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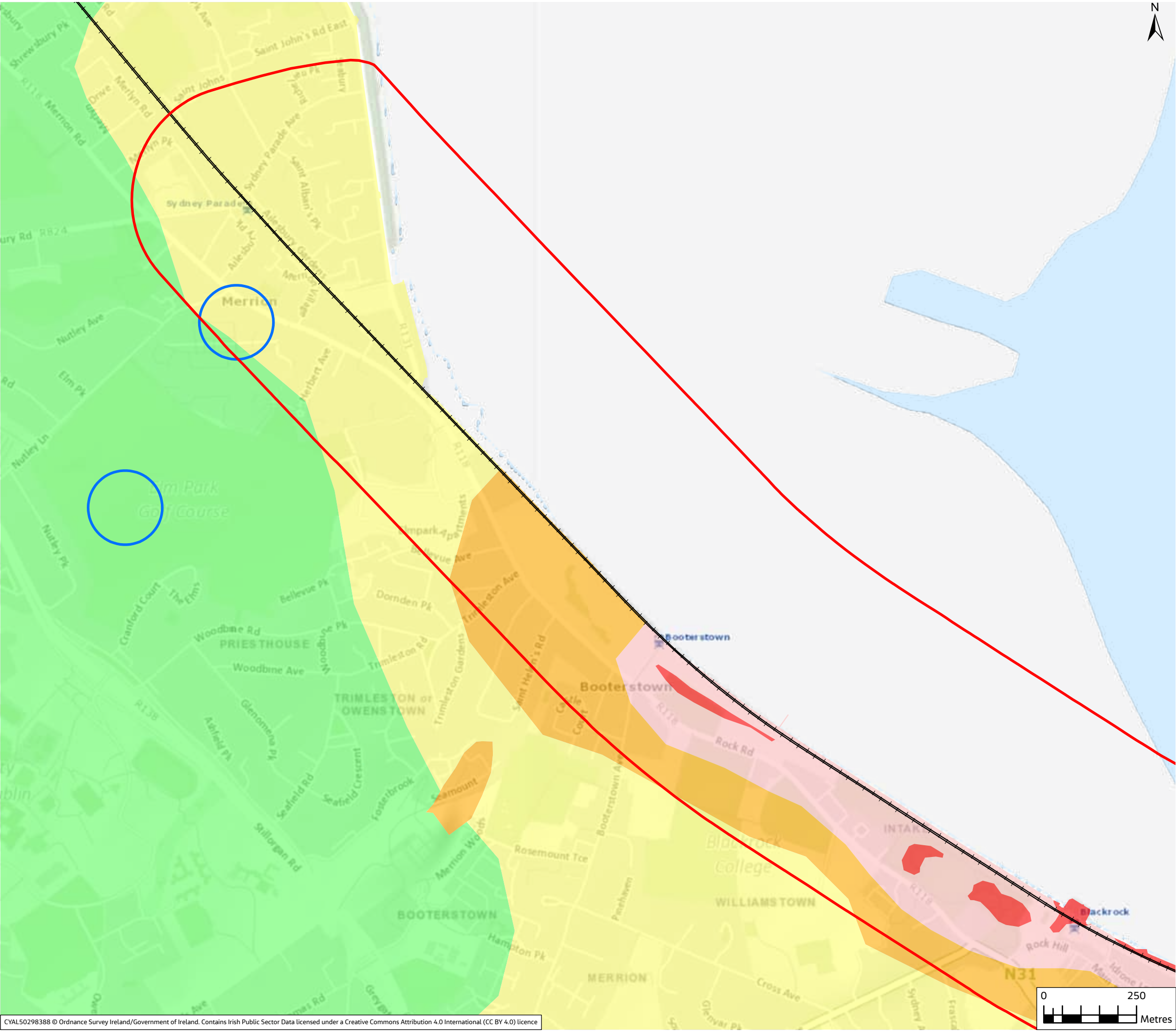


FIGURE 7.3

Legend

CCA1 Study Area

Railway Network Centreline

Groundwater Vulnerability

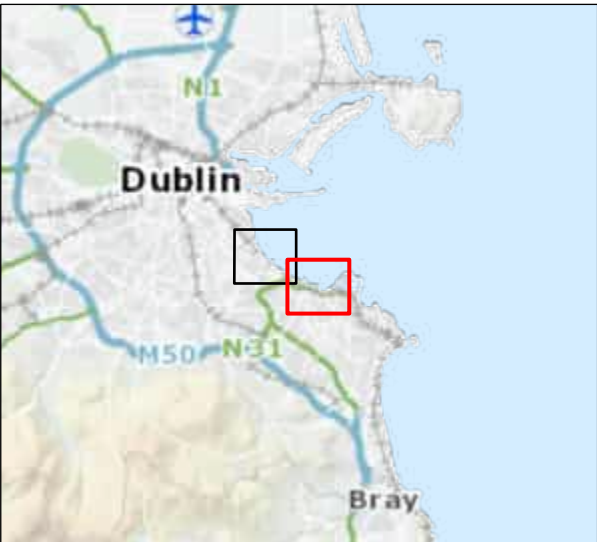
Rock at or near Surface or Karst

Extreme

High

Low

Moderate



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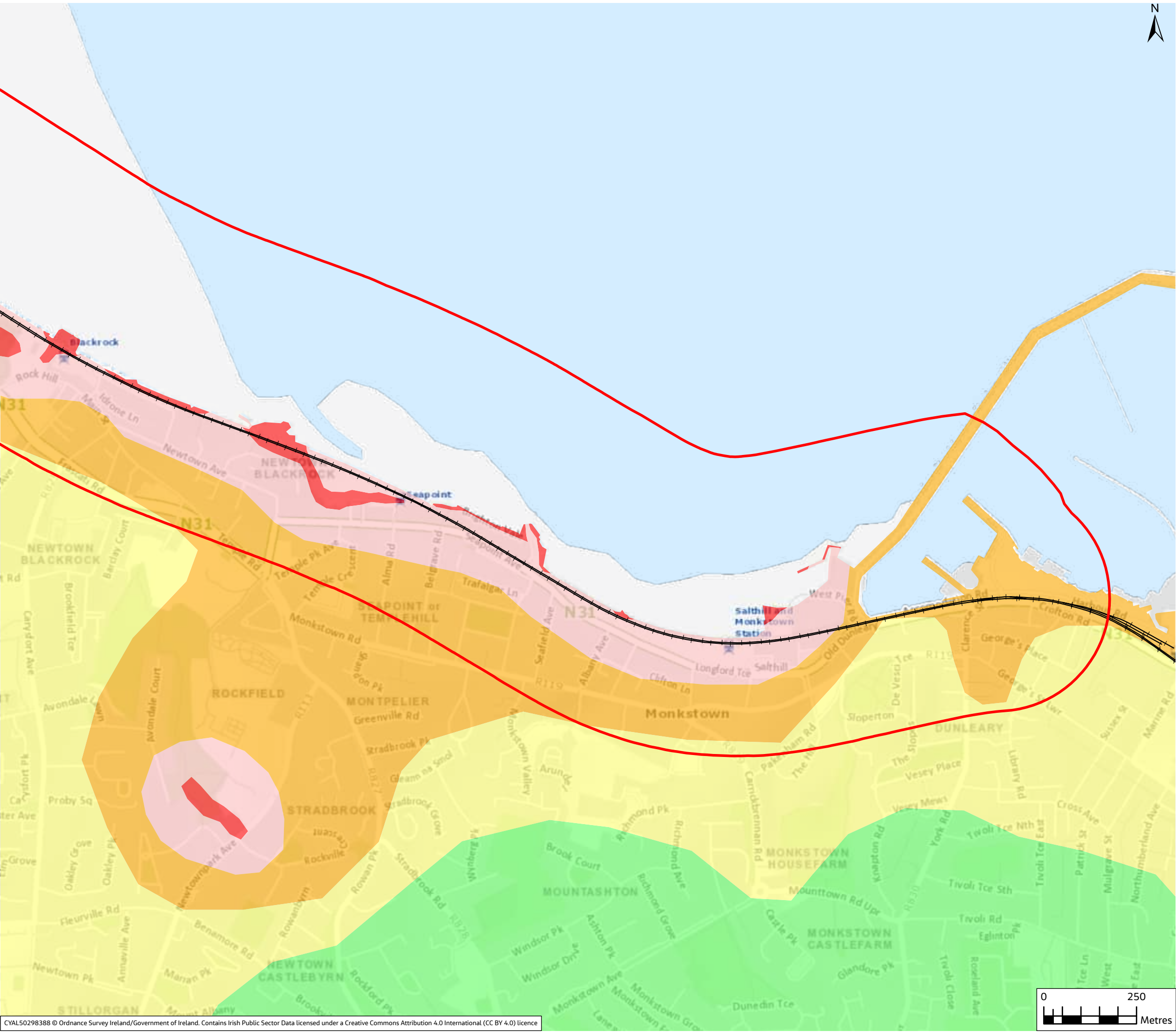
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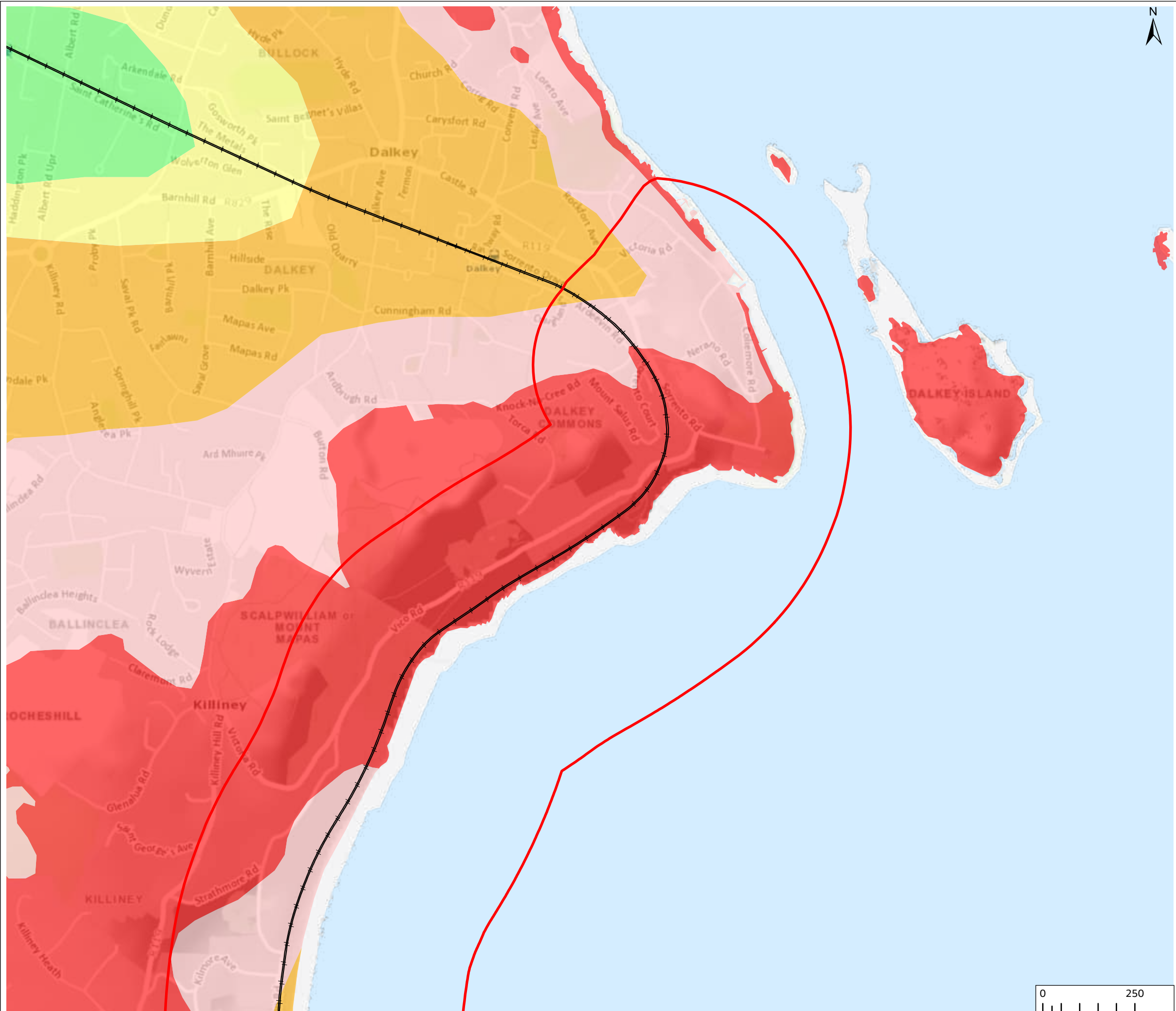
Drawing Title

Figure 7.3
CCA1- Environmental Constraints - Hydrogeology
(Page 2 of 2)

Drawing Status		ISSUE FOR ACCEPTANCE	
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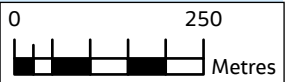


FIGURE 7.3

Legend

CCA2-3 Study Area

+ Railway Network Centreline

Groundwater Vulnerability

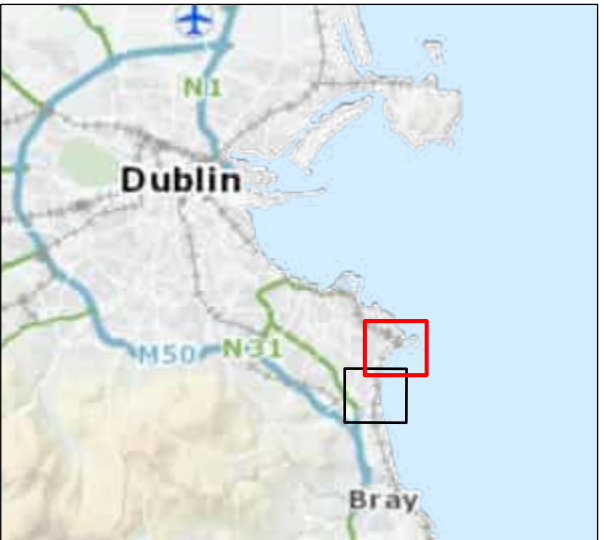
Rock at or near Surface or Karst



Extreme

High

Low

Moderate



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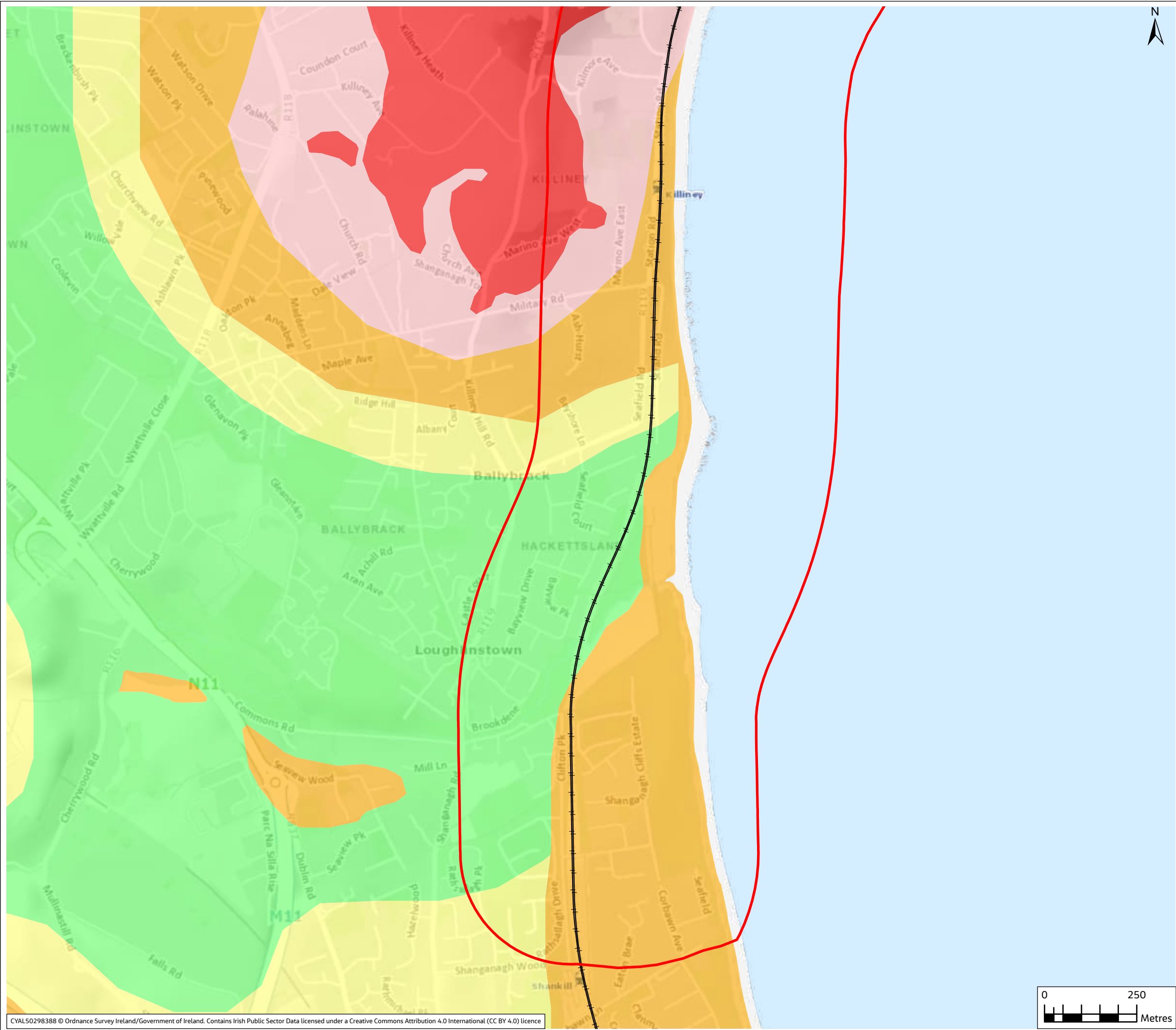
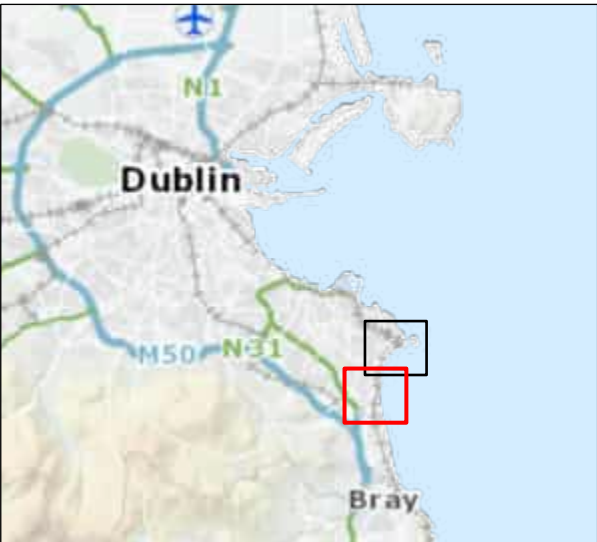


FIGURE 7.3

- Legend
- CCA2-3 Study Area
 - Railway Network Centreline
- Groundwater Vulnerability
- Rock at or near Surface or Karst
 - Extreme
 - High
 - Low
 - Moderate



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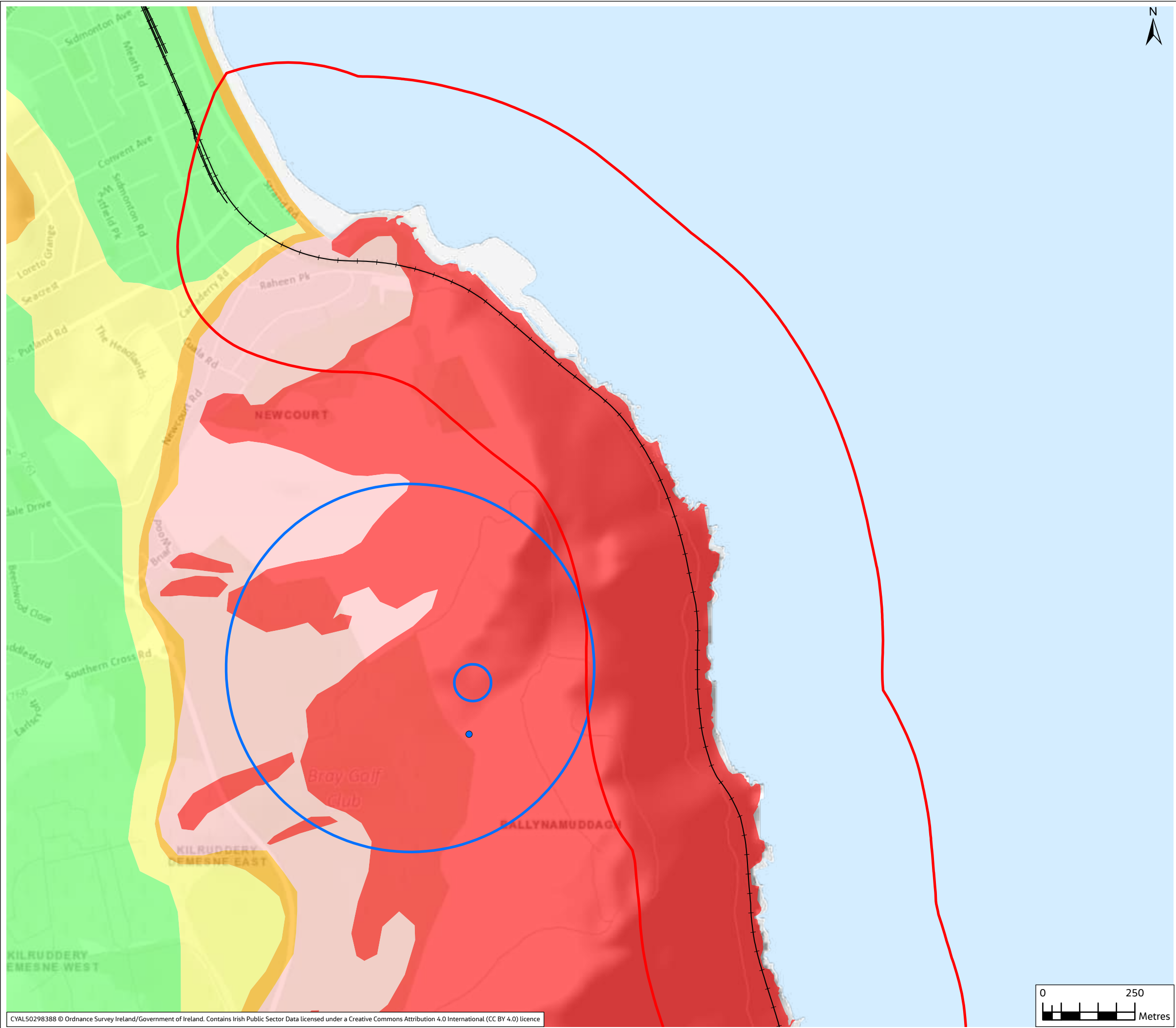
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Figure 7.3
CCA2-3- Environmental Constraints - Hydrogeology
(Page 2 of 2)

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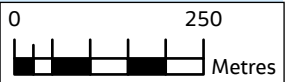


FIGURE 7.3

Legend

CCA5 Study Area

Railway Network Centreline

Groundwater Wells & Springs

Wells & Springs

Groundwater Vulnerability

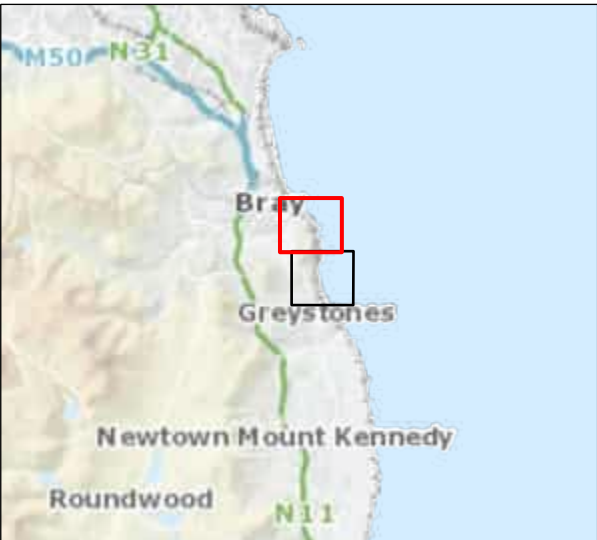
Rock at or near Surface or Karst

Extreme

High

Low

Moderate



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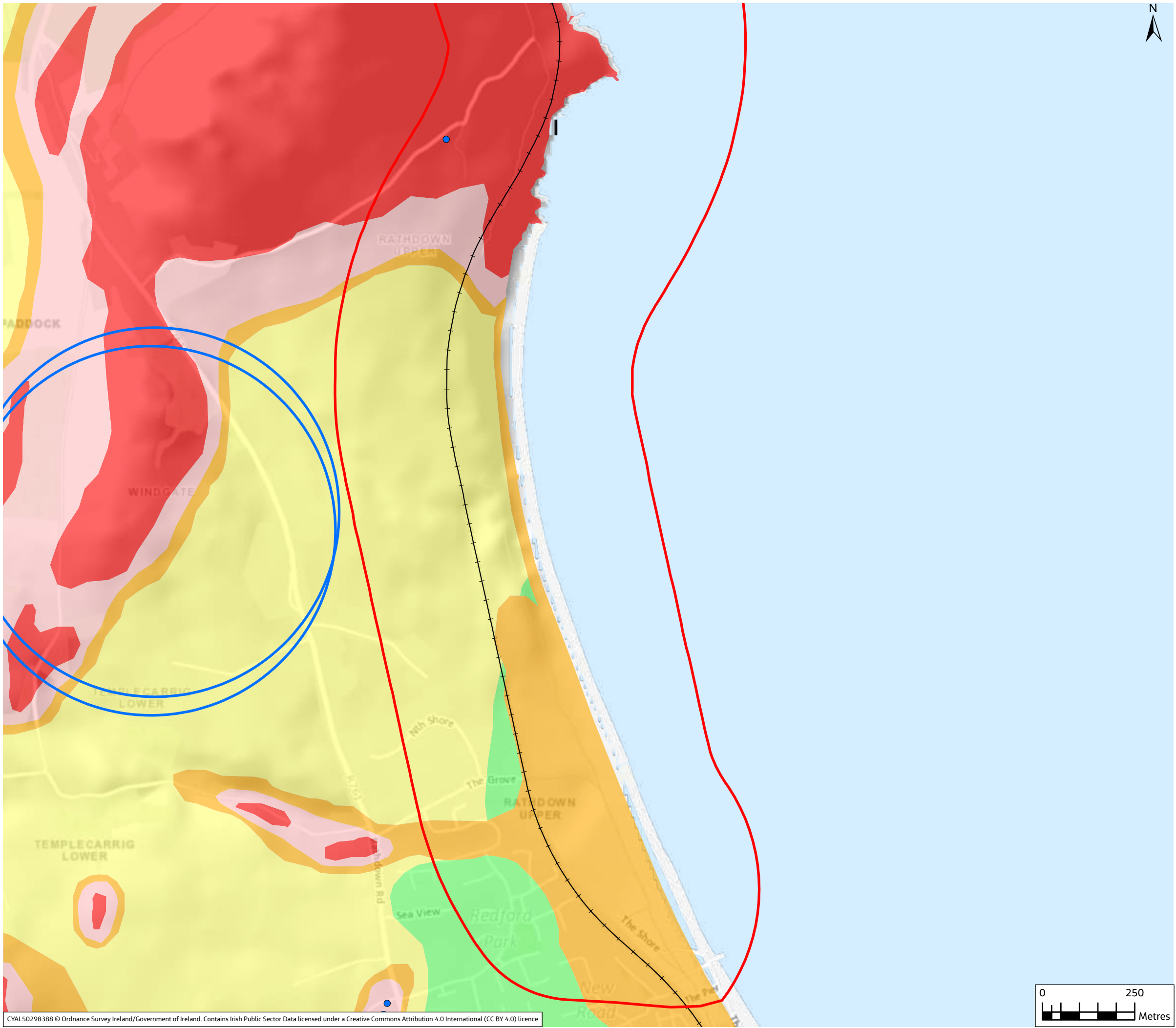
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Figure 7.3
CCA5- Environmental Constraints - Hydrogeology
(Page 1 of 2)

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Drawing No.	7964-CCA5-P2-DWG-EV-JAC-7008		

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FIGURE 7.3

Legend

CCA5 Study Area

Railway Network Centreline

Groundwater Wells & Springs

Wells & Springs

Groundwater Vulnerability

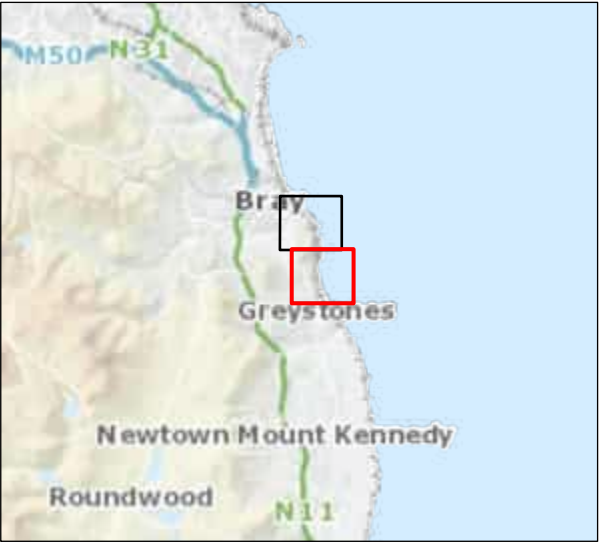
Rock at or near Surface or Karst

Extreme

High

Low

Moderate



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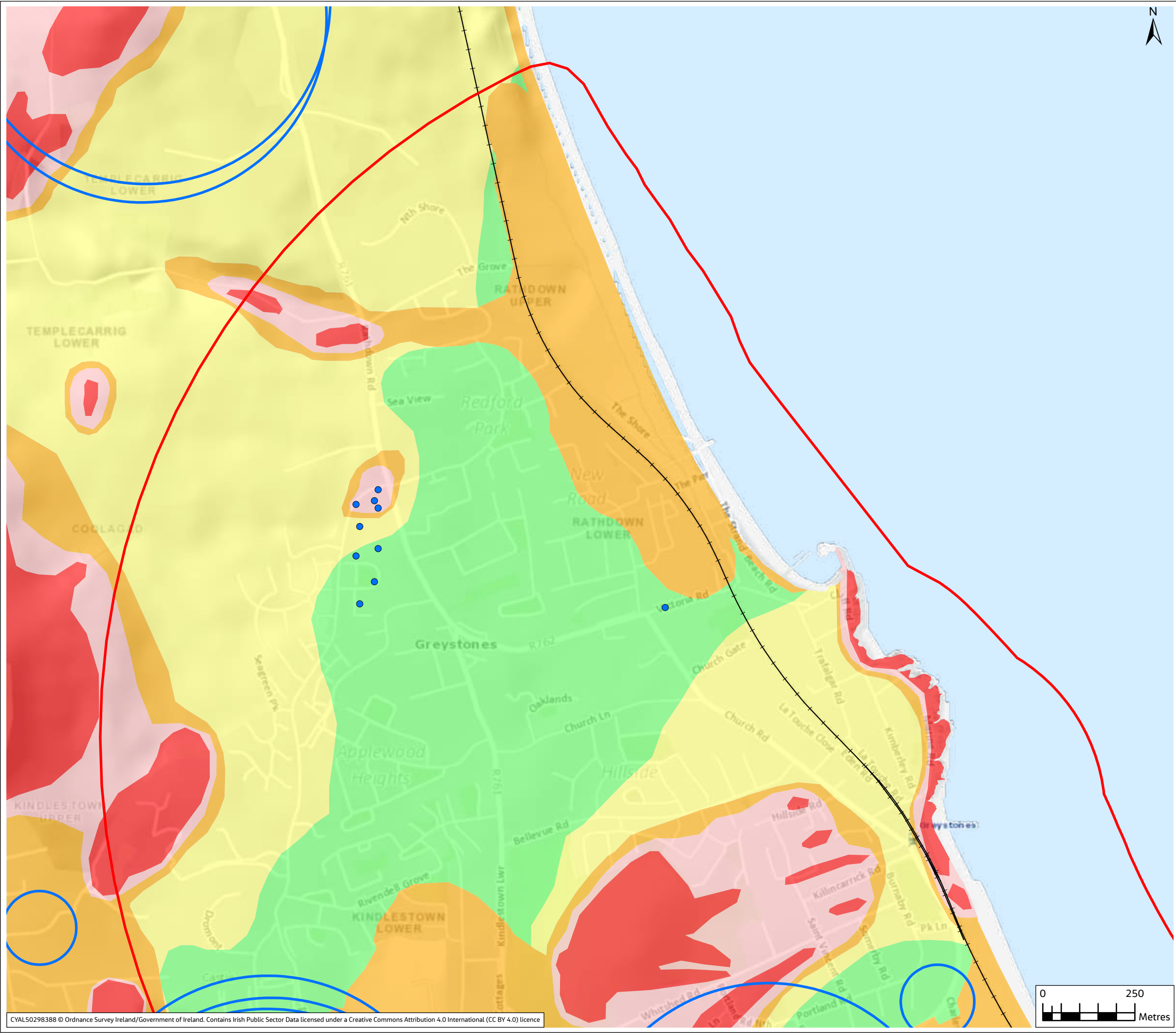
Figure 7.3
CCA5- Environmental Constraints - Hydrogeology
(Page 2 of 2)

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FIGURE 7.3

Legend

CCA6.1 Study Area

++ Railway Network Centreline

Groundwater Wells & Springs

● Wells & Springs

Wells & Springs

Groundwater Vulnerability

Rock at or near Surface or Karst

Extreme

High

Low

Moderate

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FIGURE 7.3

Legend

CCA6.1 Study Area

Railway Network Centreline

Groundwater Wells & Springs

● Wells & Springs

Wells & Springs

Groundwater Vulnerability

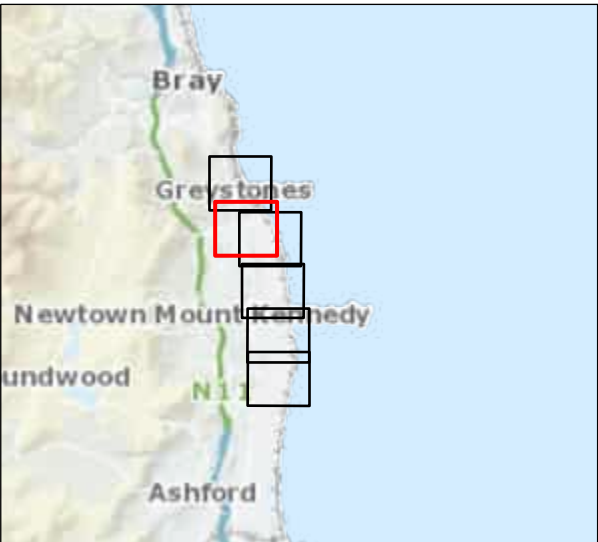
Rock at or near Surface or Karst



Extreme

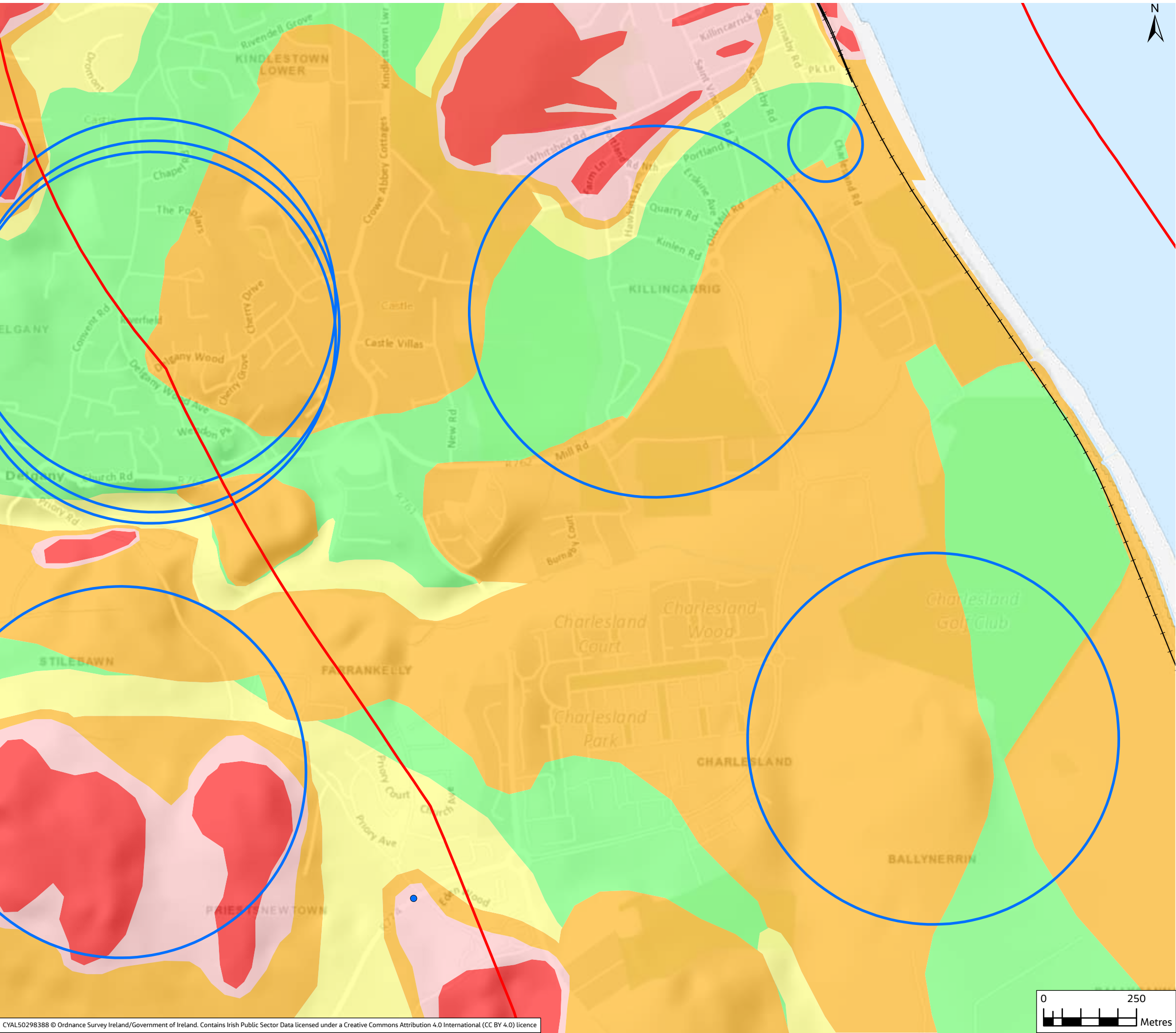
High

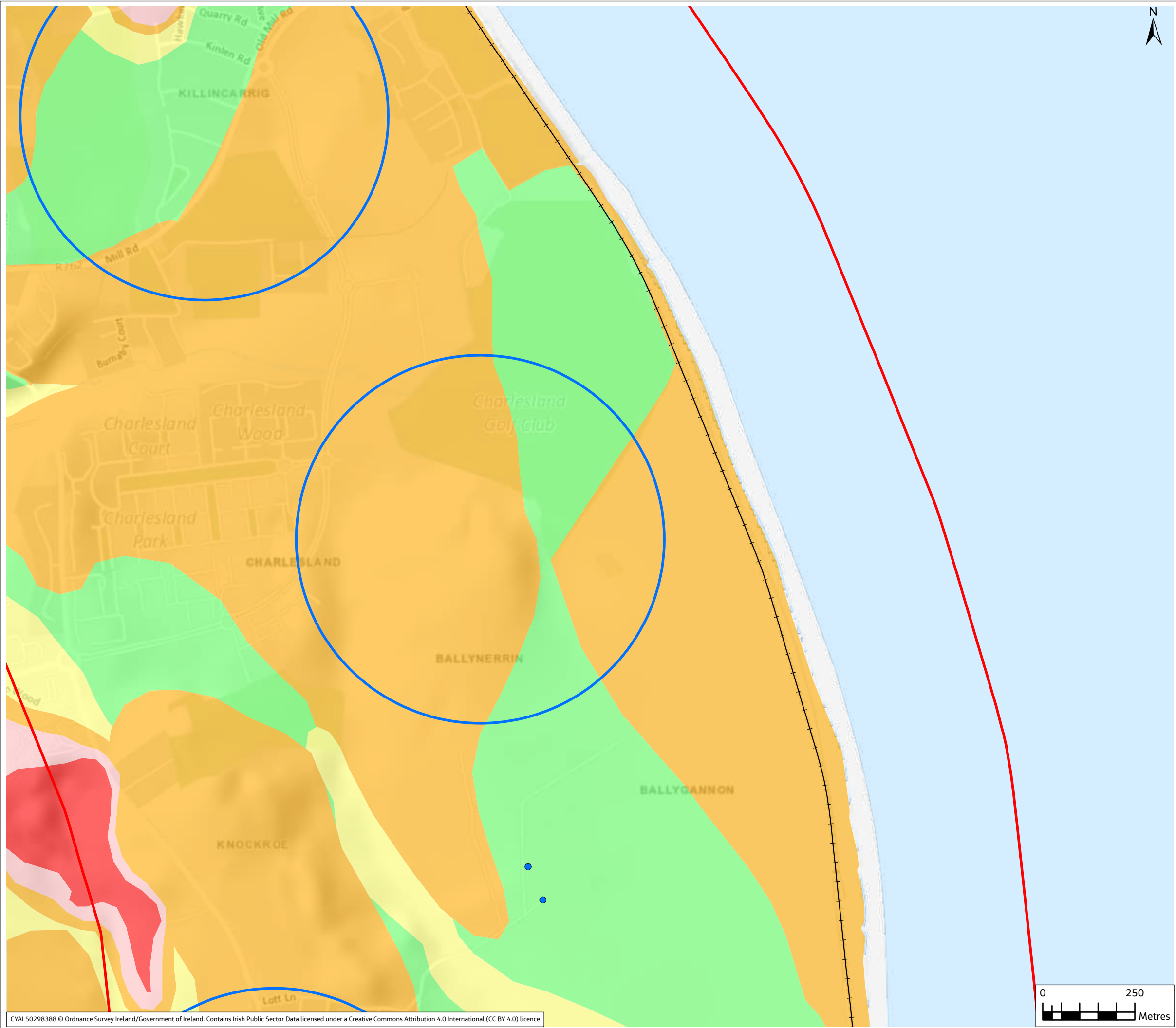
Low

Moderate



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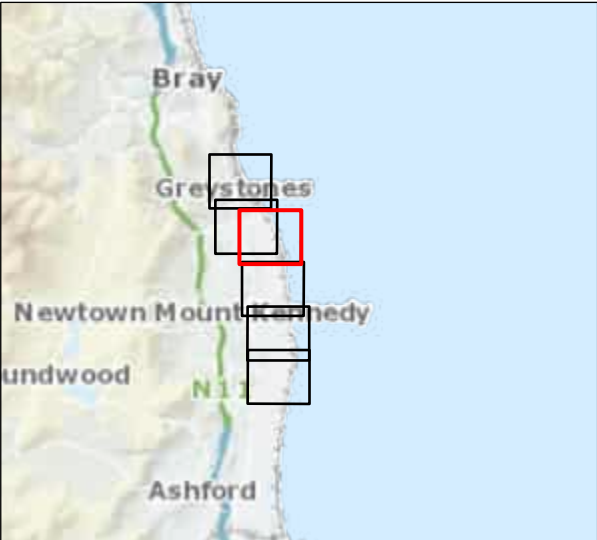




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FIGURE 7.3

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
- Groundwater Wells & Springs
- Wells & Springs
 - Wells & Springs
- Groundwater Vulnerability
- Rock at or near Surface or Karst
 - Extreme
 - High
 - Low
 - Moderate



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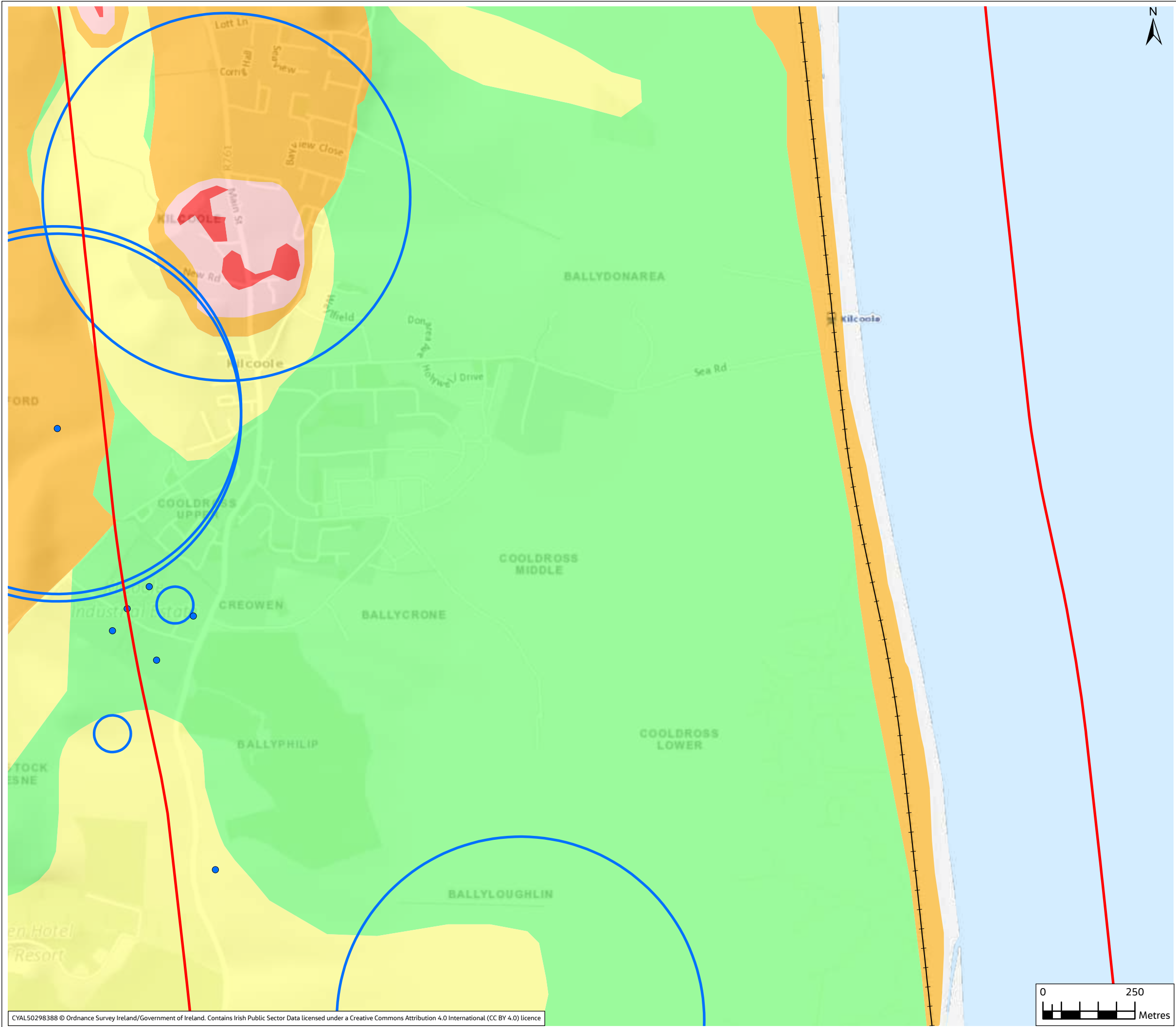
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Figure 7.3
CCA6.1- Environmental Constraints - Hydrogeology
(Page 3 of 6)

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FIGURE 7.3

Legend

CCA6.1 Study Area

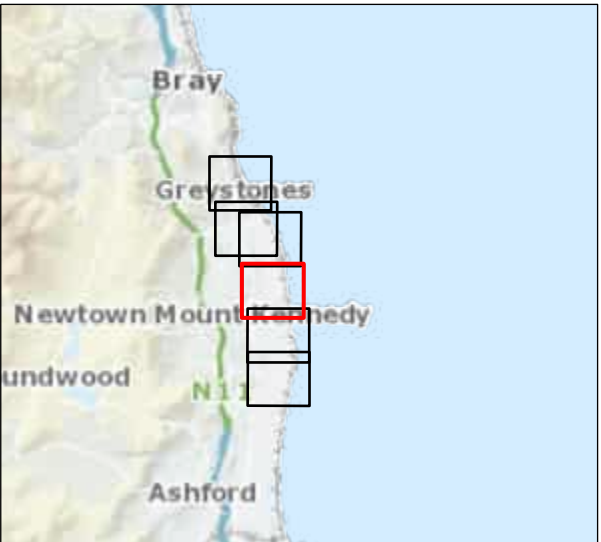
Railway Network Centrelines

Groundwater Wells & Springs

- Wells & Springs
- Wells & Springs

Groundwater Vulnerability

- Rock at or near Surface or Karst
- Extreme
- High
- Low
- Moderate



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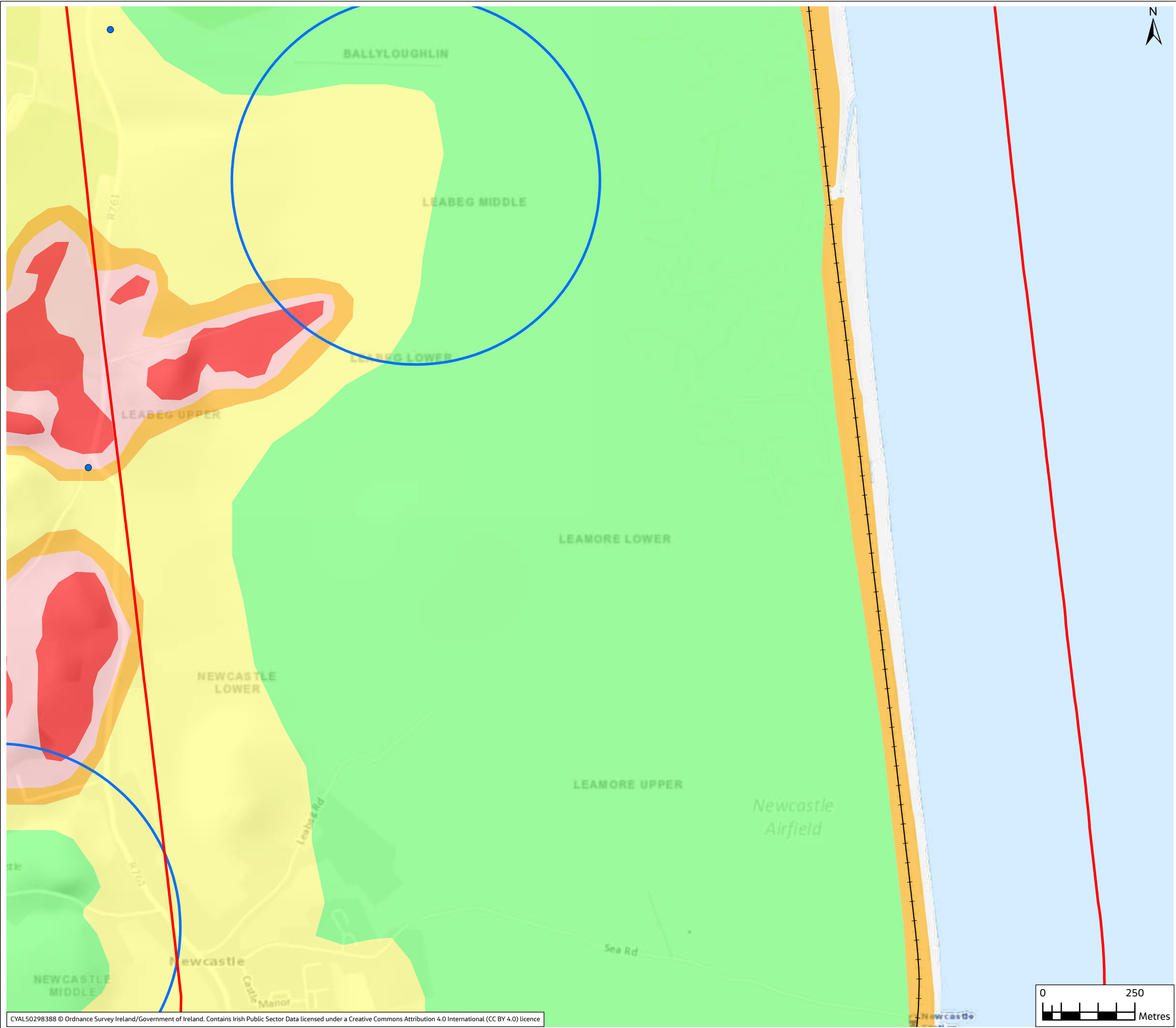
Figure 7.3
CCA6.1- Environmental Constraints - Hydrogeology
(Page 4 of 6)

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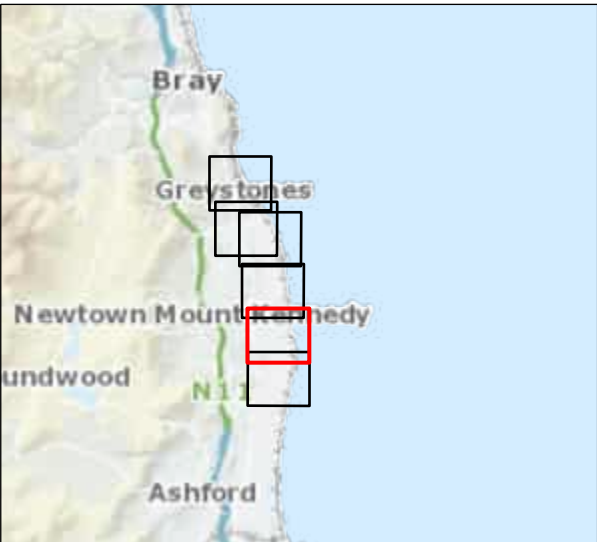




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FIGURE 7.3

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
- Groundwater Wells & Springs
- Wells & Springs
 - Wells & Springs
- Groundwater Vulnerability
- Rock at or near Surface or Karst
 - Extreme
 - High
 - Low
 - Moderate



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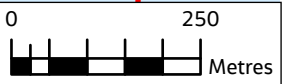
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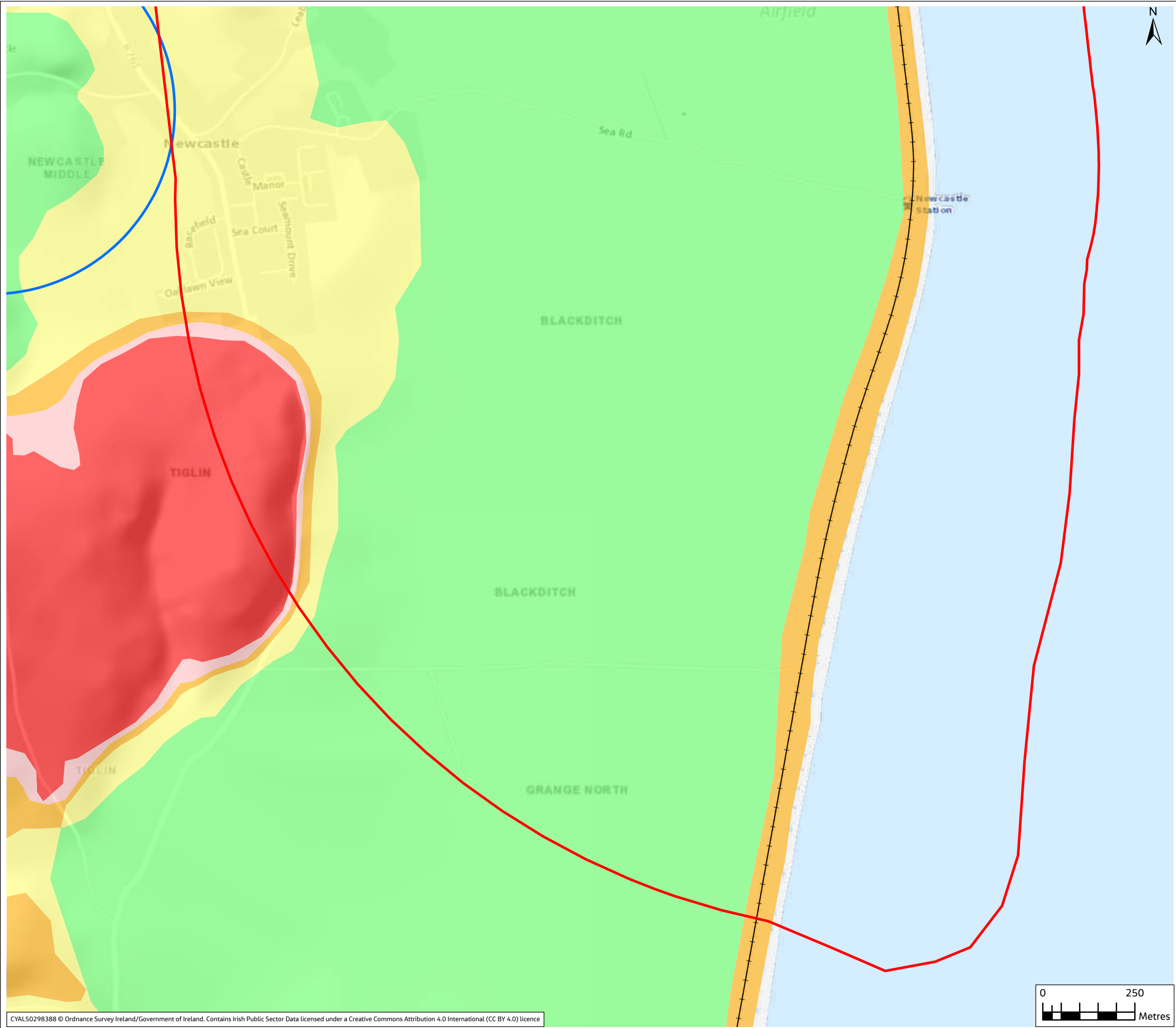
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CCA6.1- Environmental Constraints - Hydrogeology
(Page 5 of 6)

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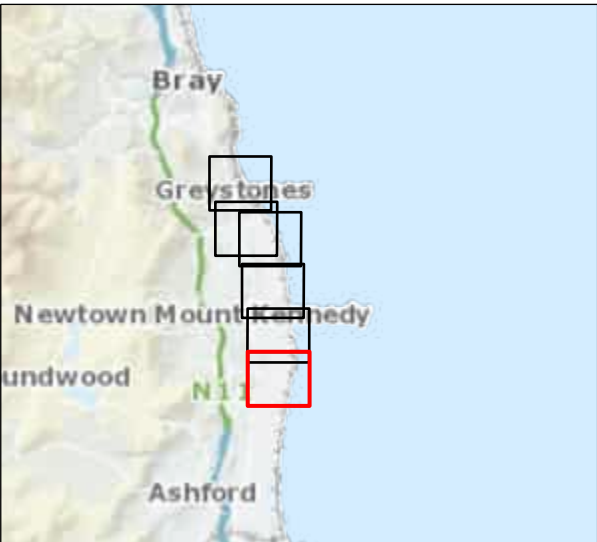


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FIGURE 7.3

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
- Groundwater Wells & Springs
- Wells & Springs
 - Wells & Springs
- Groundwater Vulnerability
- Rock at or near Surface or Karst
 - Extreme
 - High
 - Low
 - Moderate



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Figure 7.3
CCA6.1- Environmental Constraints - Hydrogeology
(Page 6 of 6)

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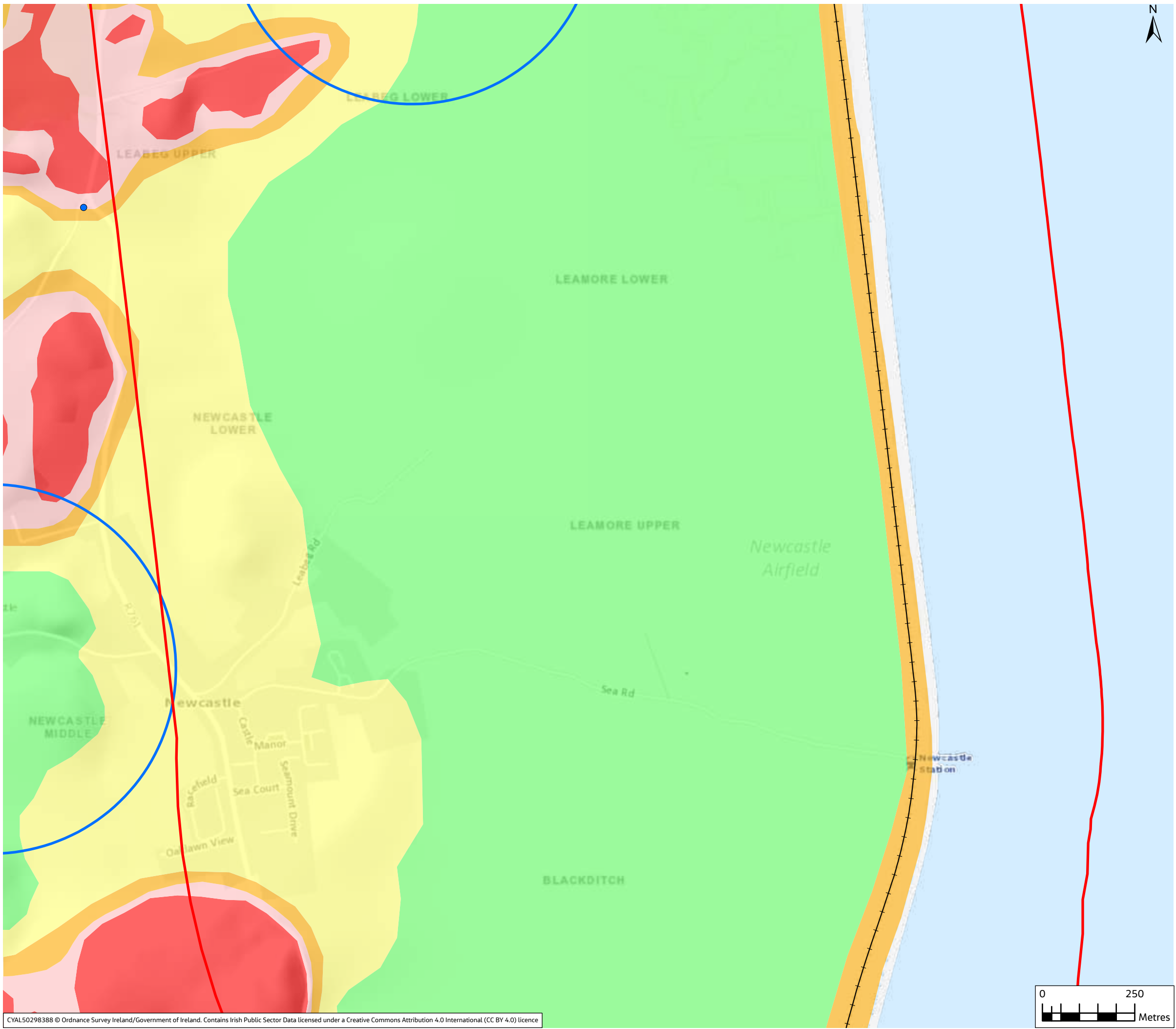
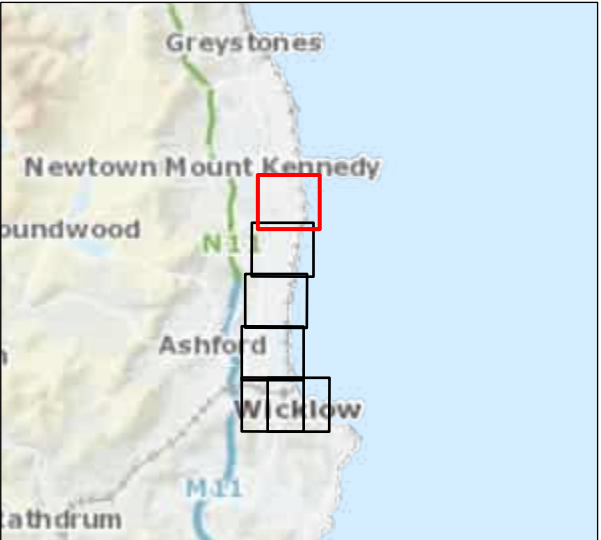


FIGURE 7.3

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
- Groundwater Wells & Springs
- Wells & Springs
 - Wells & Springs
- Groundwater Vulnerability
- Rock at or near Surface or Karst
 - Extreme
 - High
 - Low
 - Moderate



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Figure 7.3
CCA6.2- Environmental Constraints - Hydrogeology
(Page 1 of 6)

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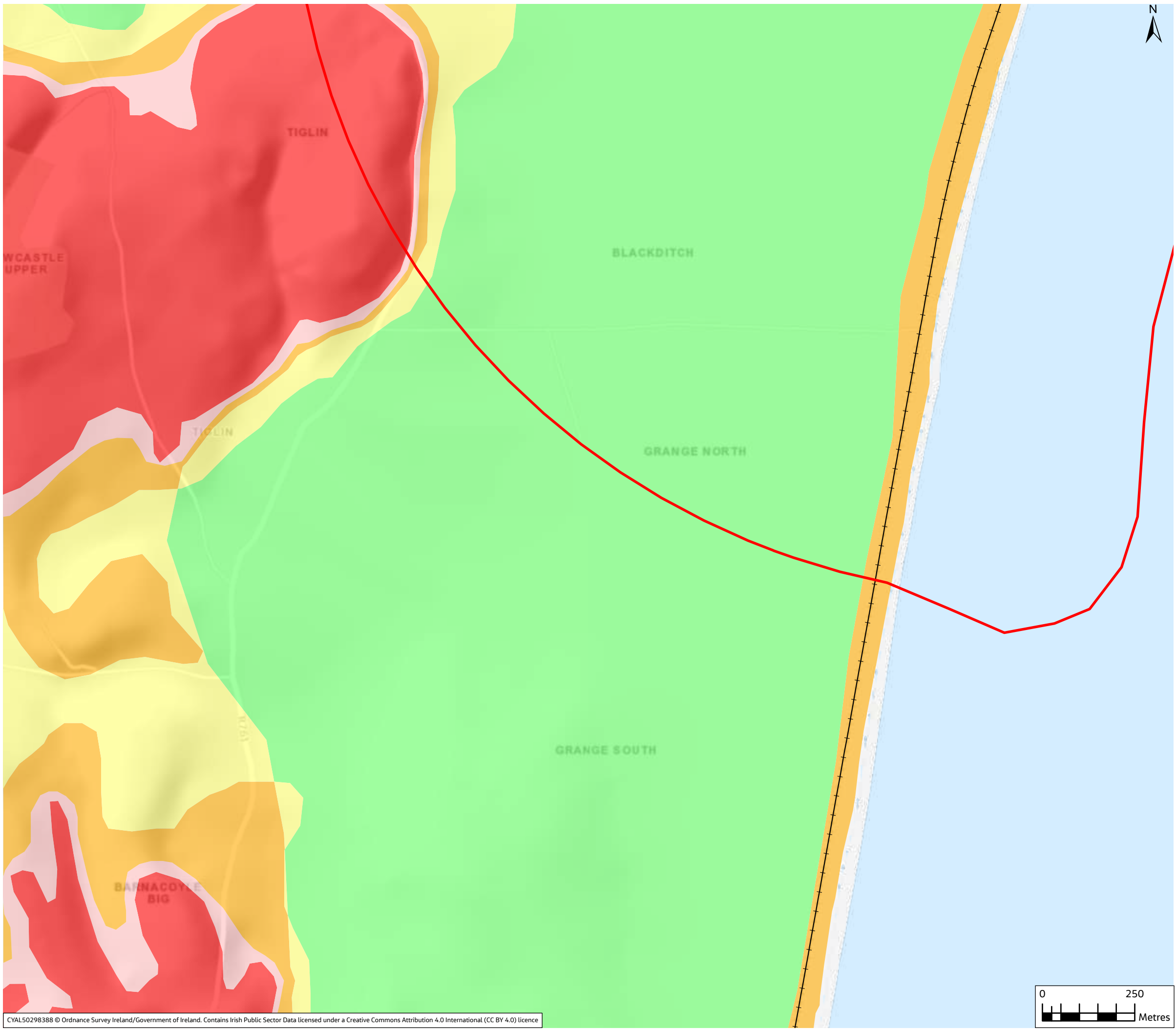


FIGURE 7.3

Legend

CCA6.1 Study Area

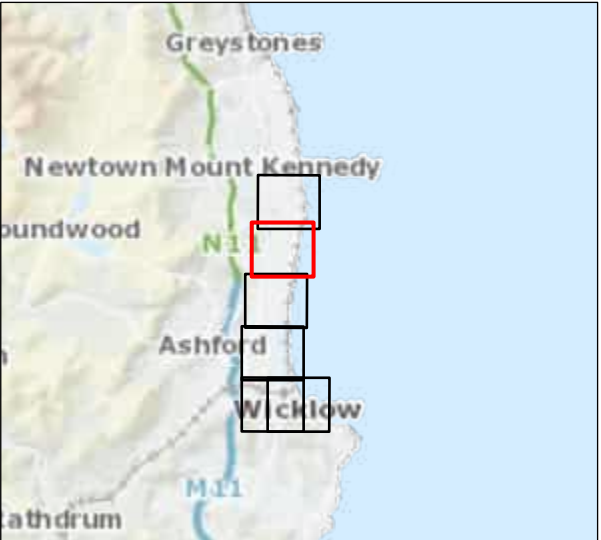
Railway Network Centreline

Groundwater Wells & Springs

- Wells & Springs
- Wells & Springs

Groundwater Vulnerability

- Rock at or near Surface or Karst
- Extreme
- High
- Low
- Moderate



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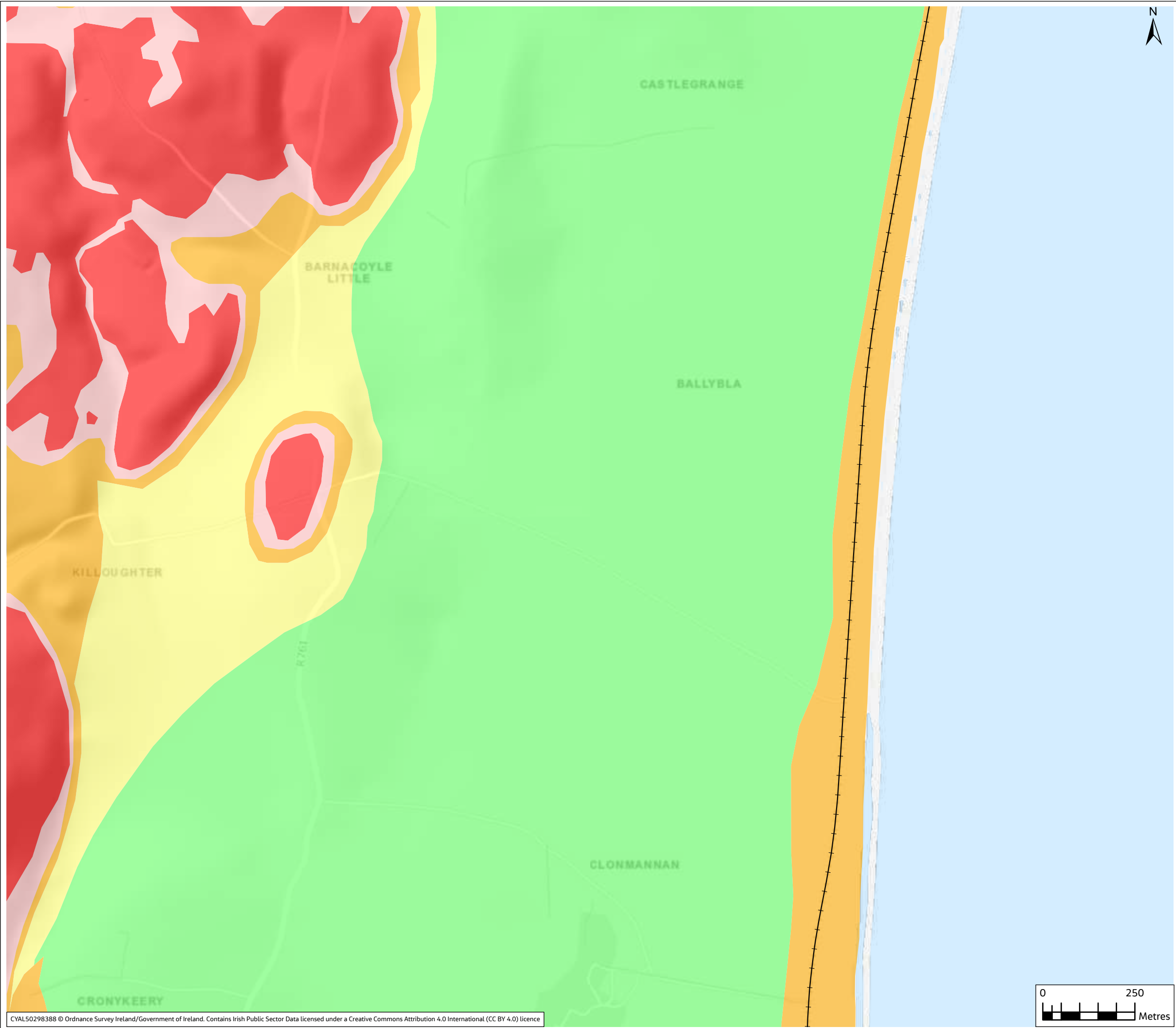
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Figure 7.3
CCA6.2- Environmental Constraints - Hydrogeology
(Page 2 of 6)

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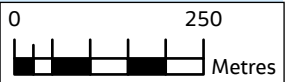


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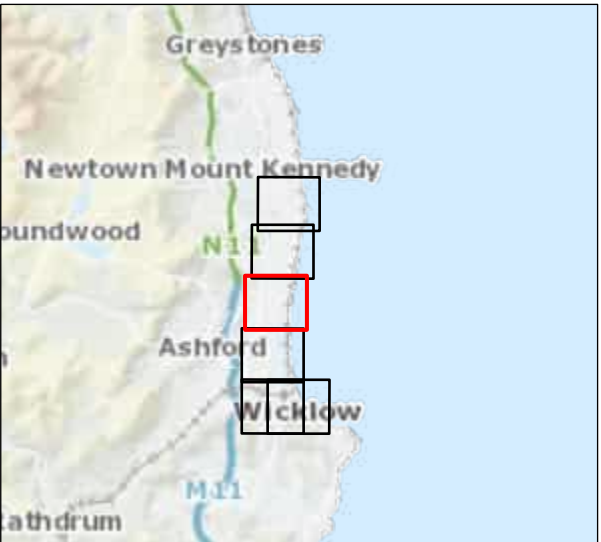
—+— Railway Network Centreline

Groundwater Wells & Springs

- Wells & Springs
- Wells & Springs

Groundwater Vulnerability

- Rock at or near Surface or Karst
- Extreme
- High
- Low
- Moderate



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CCA6.2- Environmental Constraints - Hydrogeology
(Page 3 of 6)

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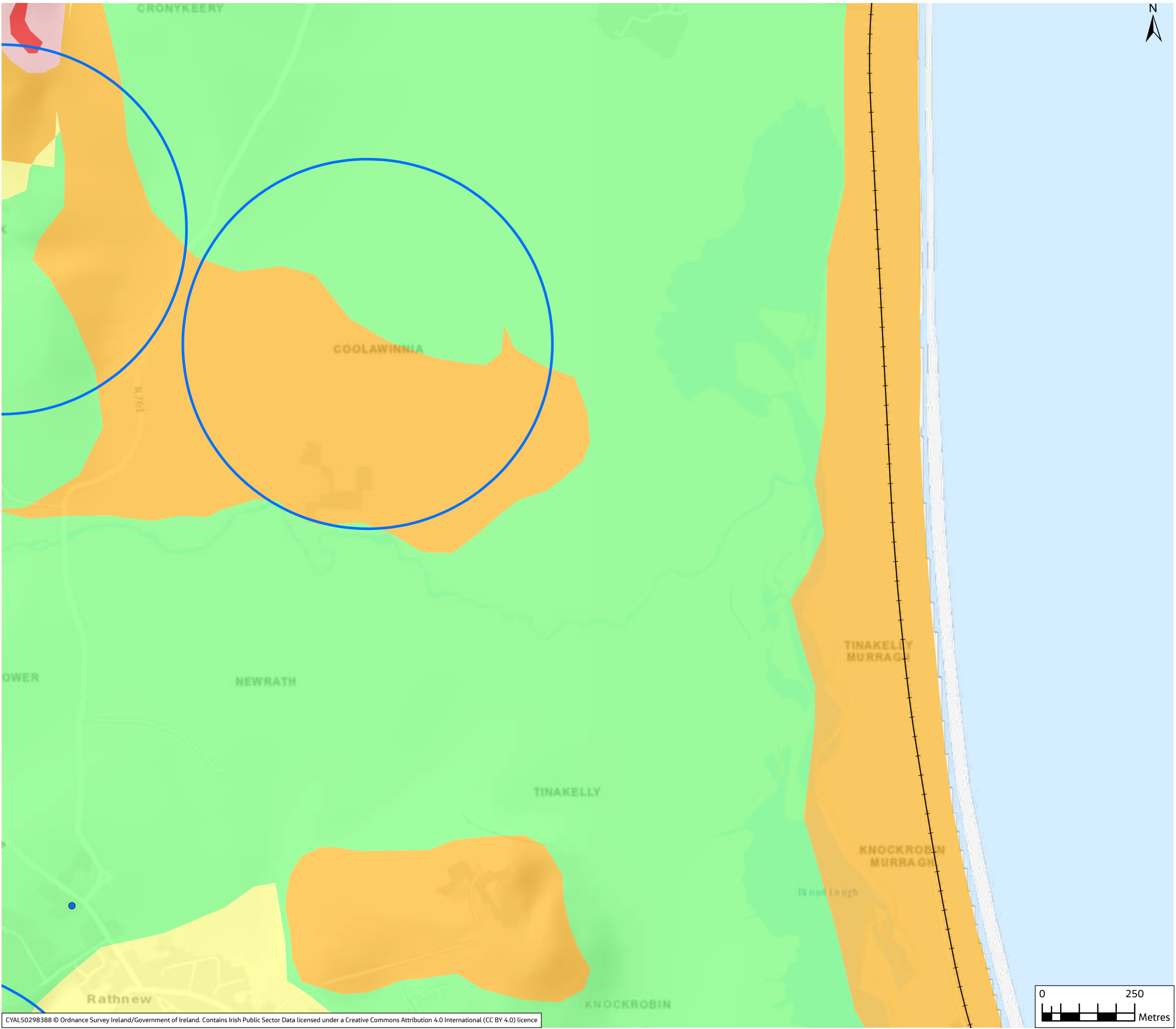


FIGURE 7.3

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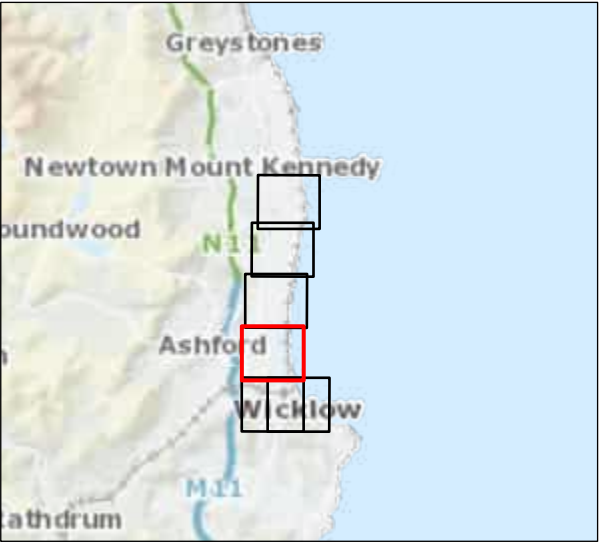
—+— Railway Network Centreline



Groundwater Wells & Springs

- Wells & Springs
- Wells & Springs

Groundwater Vulnerability

- Rock at or near Surface or Karst
- Extreme
- High
- Low
- Moderate



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Figure 7.3 CCA6.2- Environmental Constraints - Hydrogeology (Page 4 of 6)							
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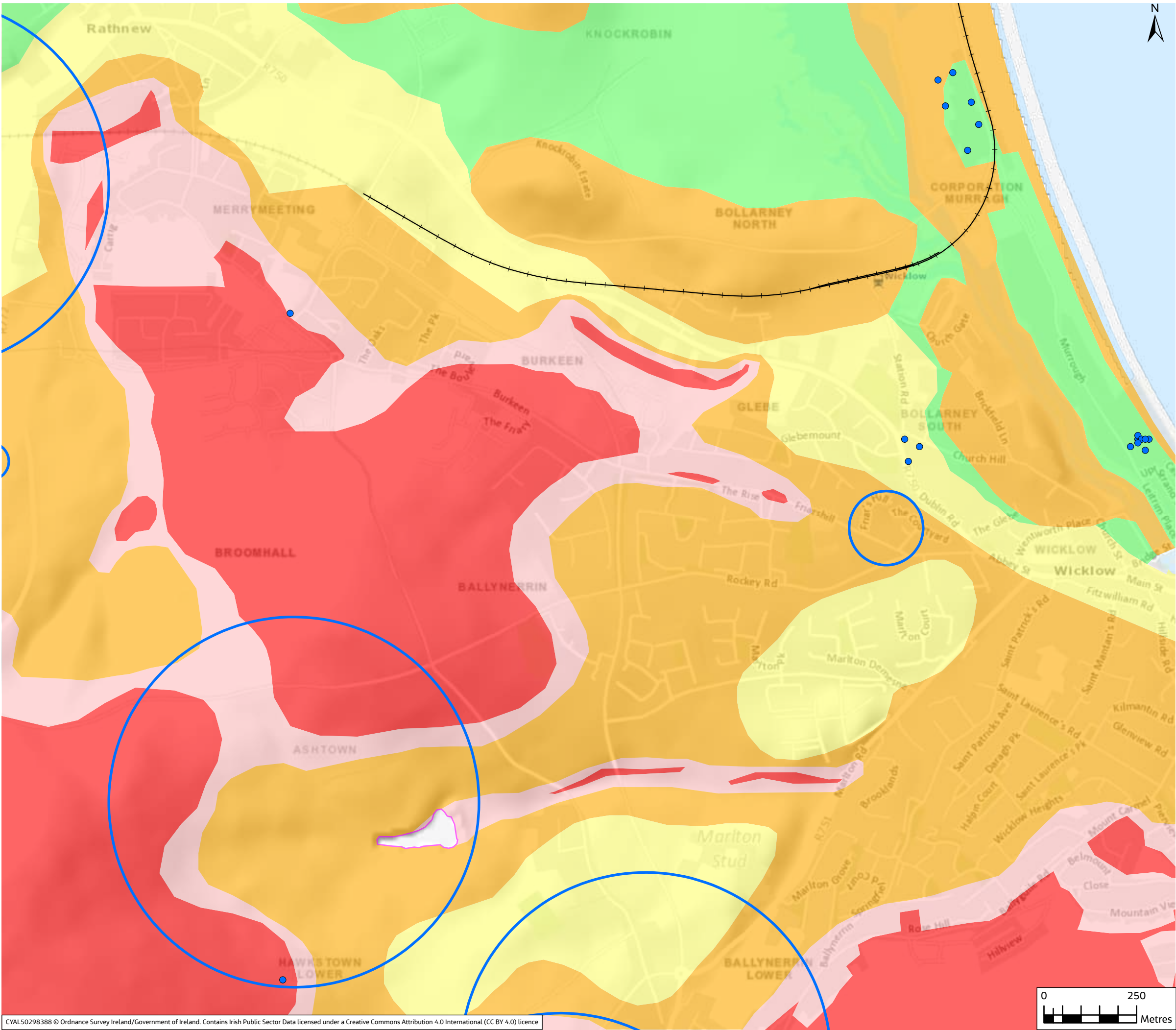


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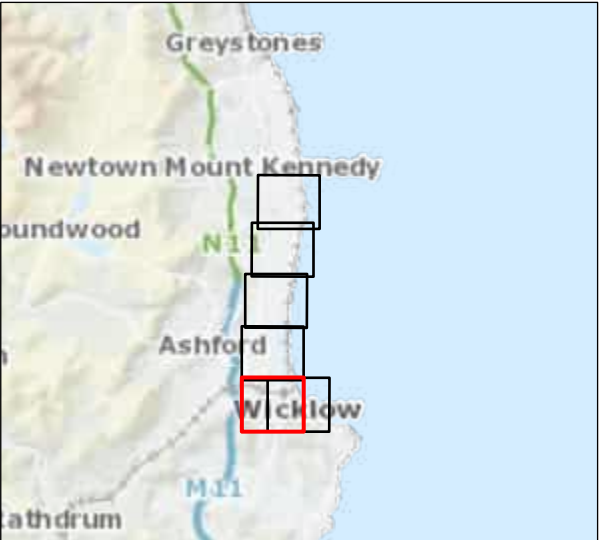
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Groundwater Wells & Springs

- Wells & Springs
- Wells & Springs

Groundwater Vulnerability

- Rock at or near Surface or Karst
- Extreme
- High
- Low
- Moderate
- Water



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Figure 7.3
CCA6.2- Environmental Constraints - Hydrogeology
(Page 5 of 6)

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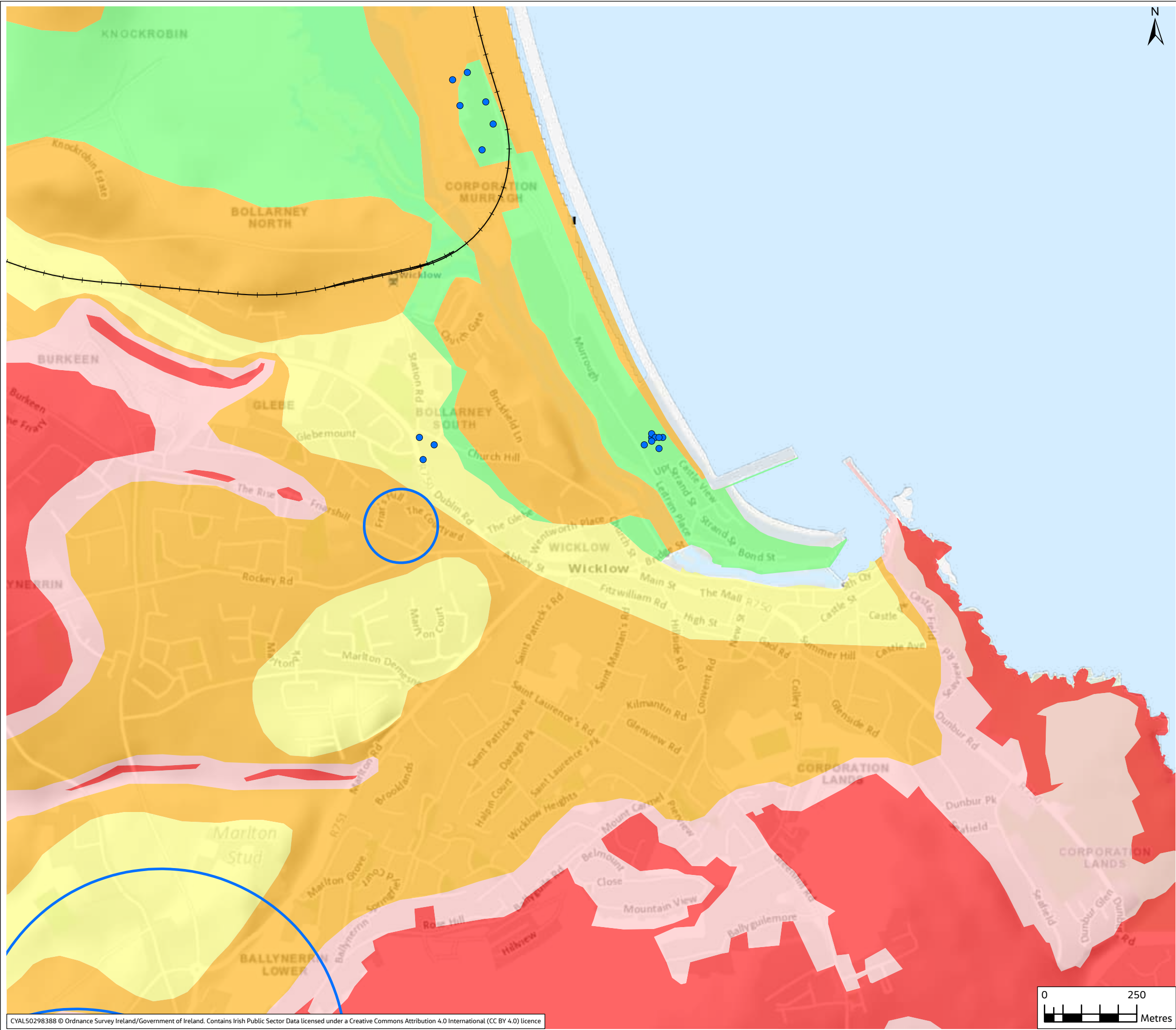


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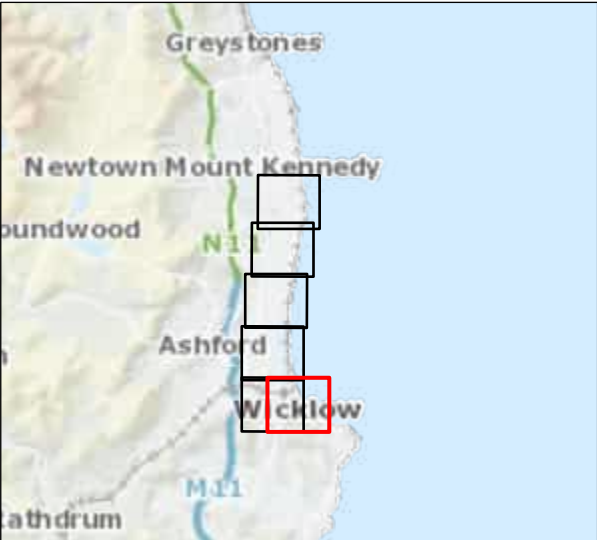
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Groundwater Wells & Springs

- Wells & Springs
- Wells & Springs

Groundwater Vulnerability

- Rock at or near Surface or Karst
- Extreme
- High
- Low
- Moderate



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FIGURE 7.4

Legend

CCA1 Study Area

Railway Network Centreline

Bedrock Geology

Ballysteen Formation

Lucan Formation

Type 2p microcline porphyritic



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Drawing Title

Figure 7.4
CCA1- Environmental Constraints - Bedrock Geology
(Page 1 of 2)

Drawing Status		ISSUE FOR ACCEPTANCE	
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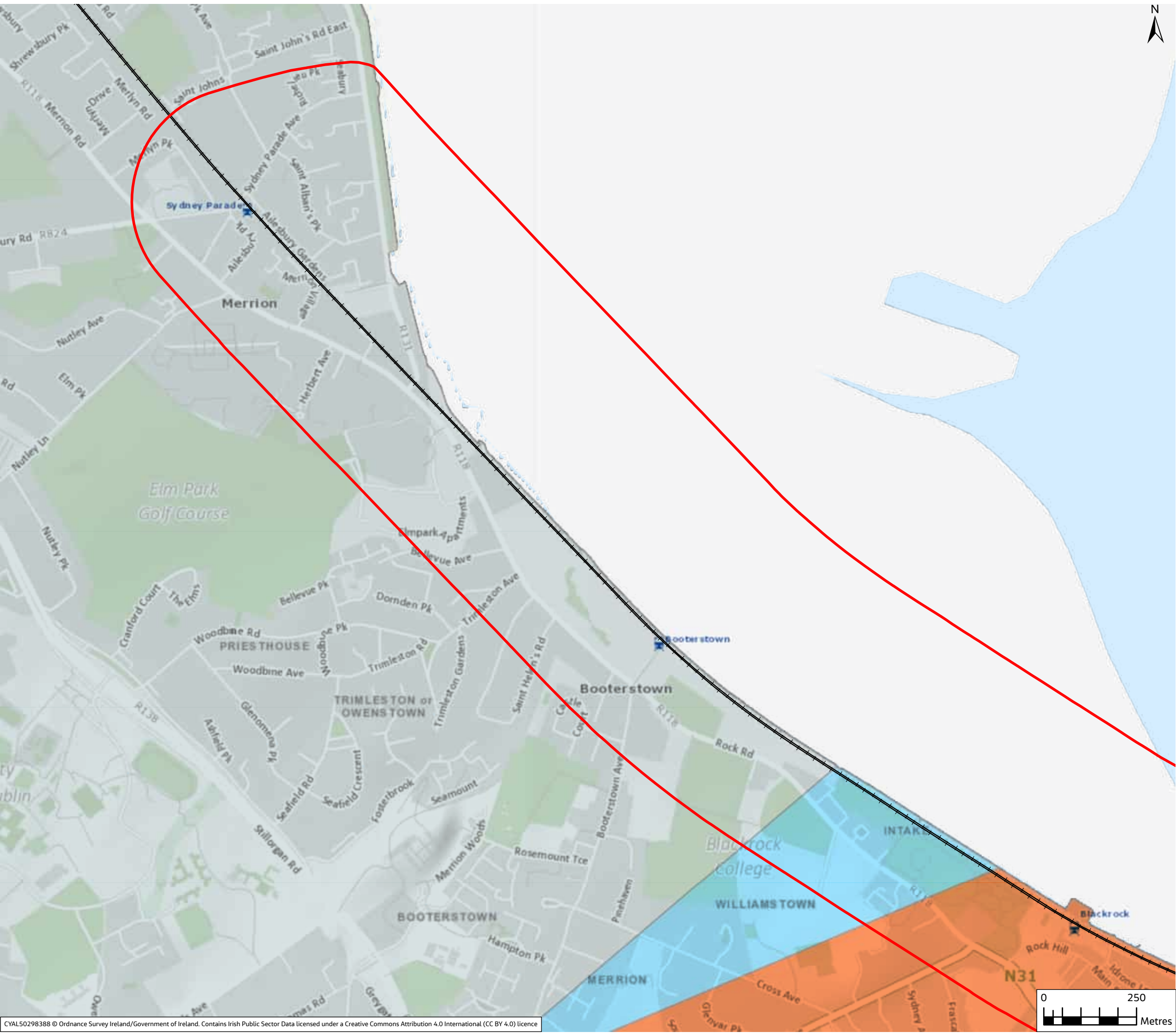


FIGURE 7.4

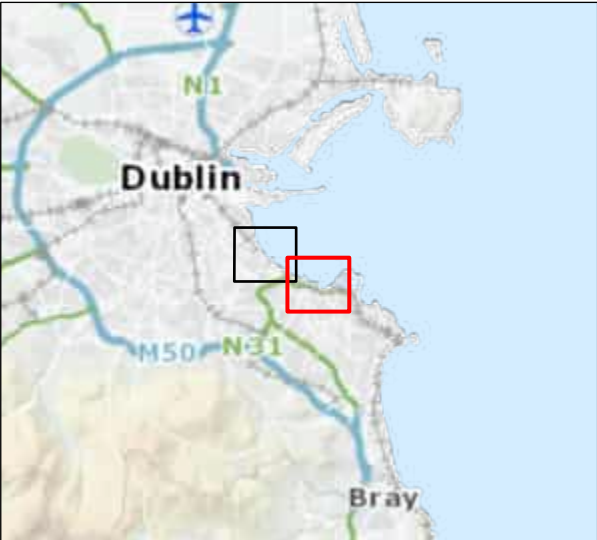
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CCA1 Study Area

Railway Network Centreline

Bedrock Geology

Type 2p microcline porphyritic



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Drawing Title

Figure 7.4
CCA1- Environmental Constraints - Bedrock Geology
(Page 2 of 2)

Drawing Status		ISSUE FOR ACCEPTANCE	
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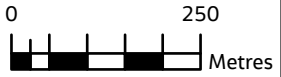
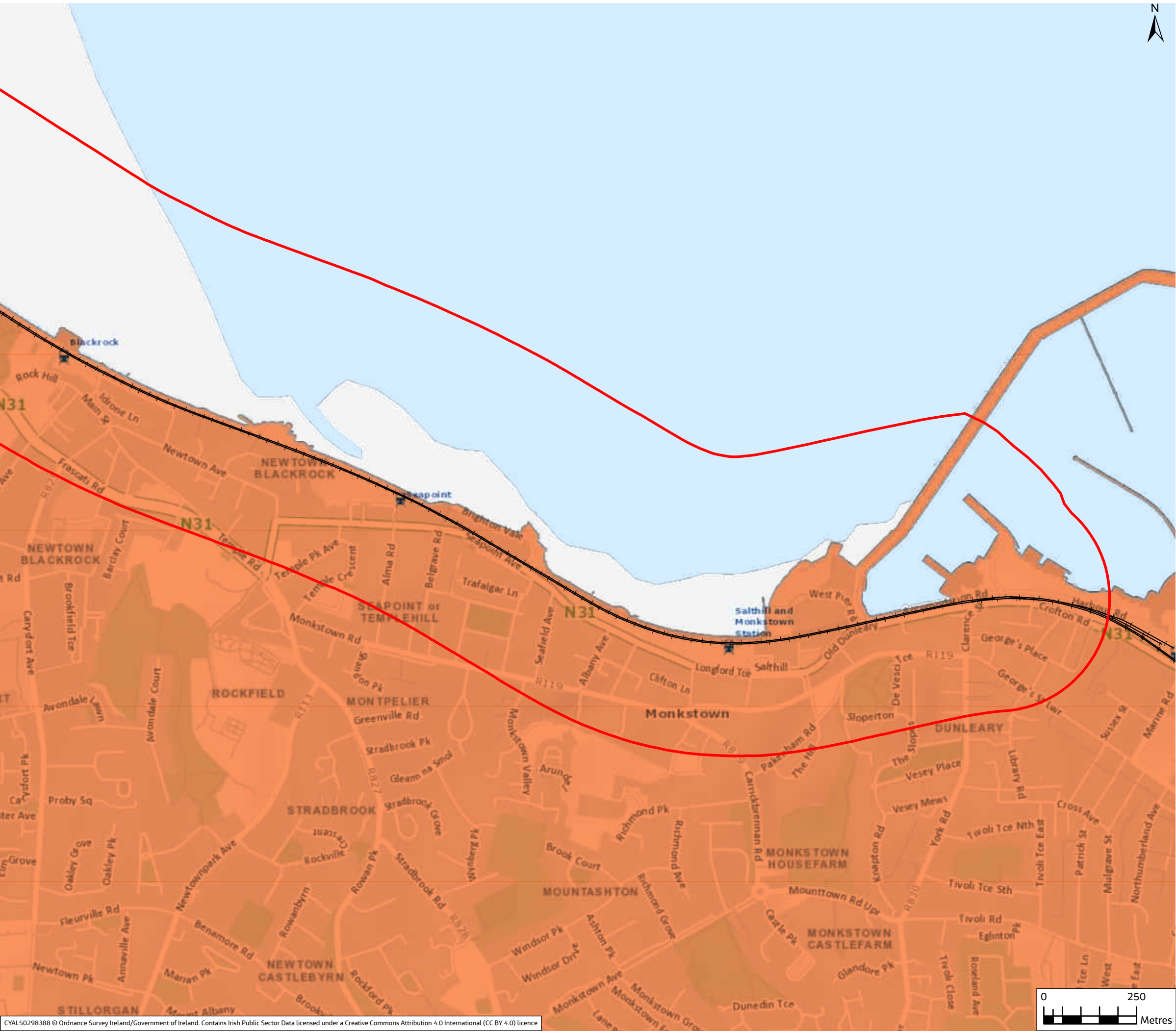


FIGURE 7.4

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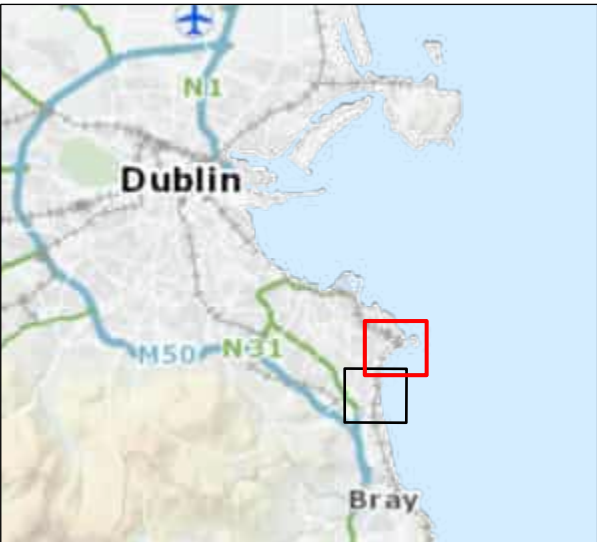
CCA2-3 Study Area

Railway Network Centreline

Bedrock Geology

Type 2p microcline porphyritic

Maulin Formation



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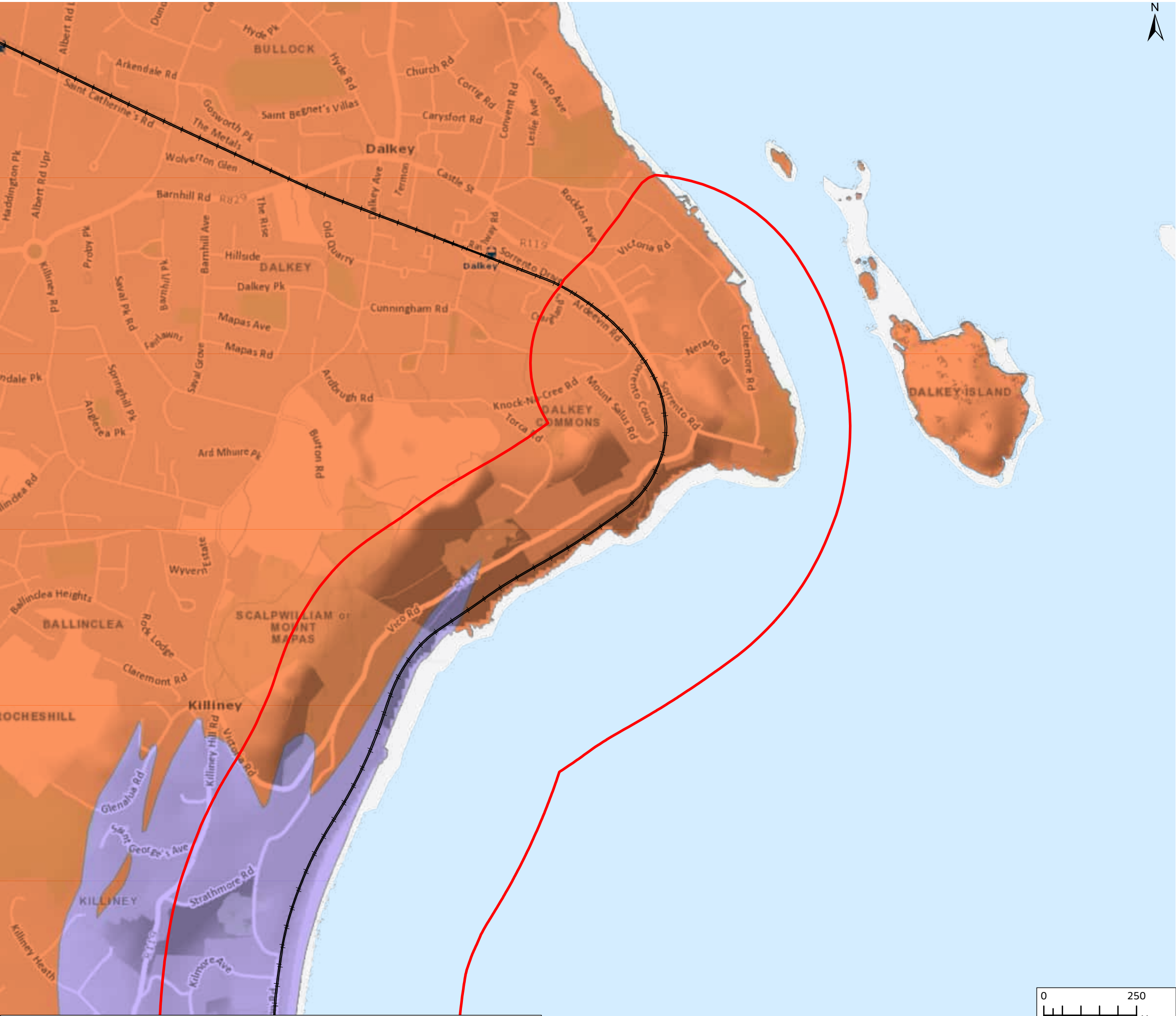
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Drawing Title

Figure 7.4
CCA2-3- Environmental Constraints - Bedrock Geology
(Page 1 of 2)

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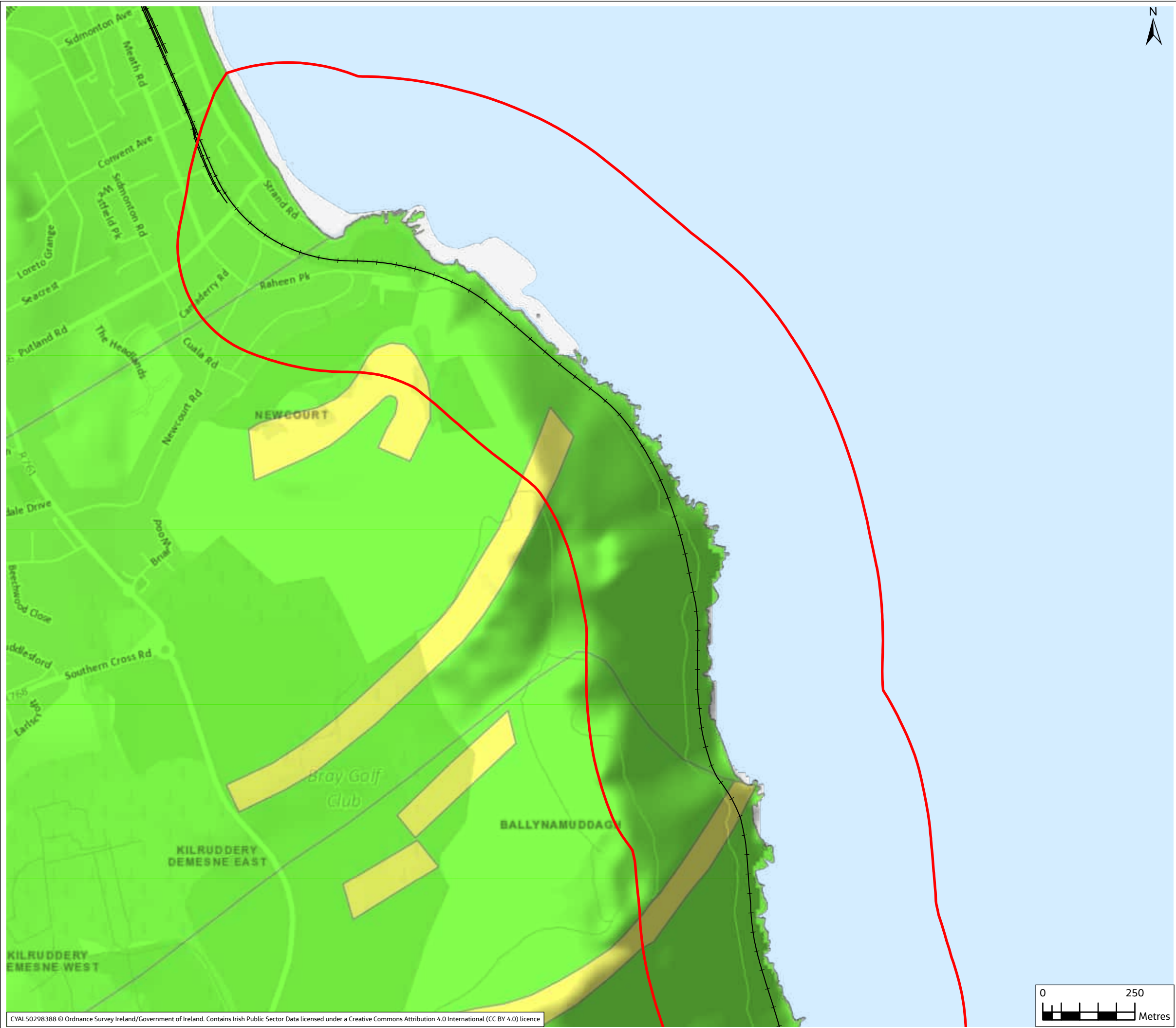
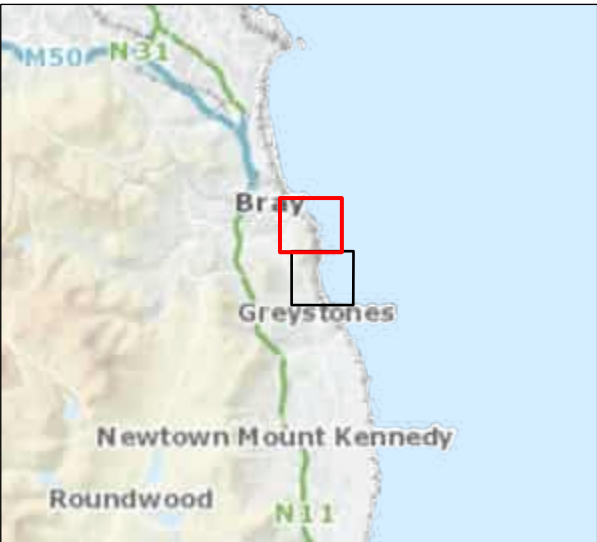


FIGURE 7.4

- Legend
- CCA5 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Bray Head Formation
 - in Bray Head Formation



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Drawing Title

Figure 7.4
CCA5- Environmental Constraints - Bedrock Geology
(Page 1 of 2)

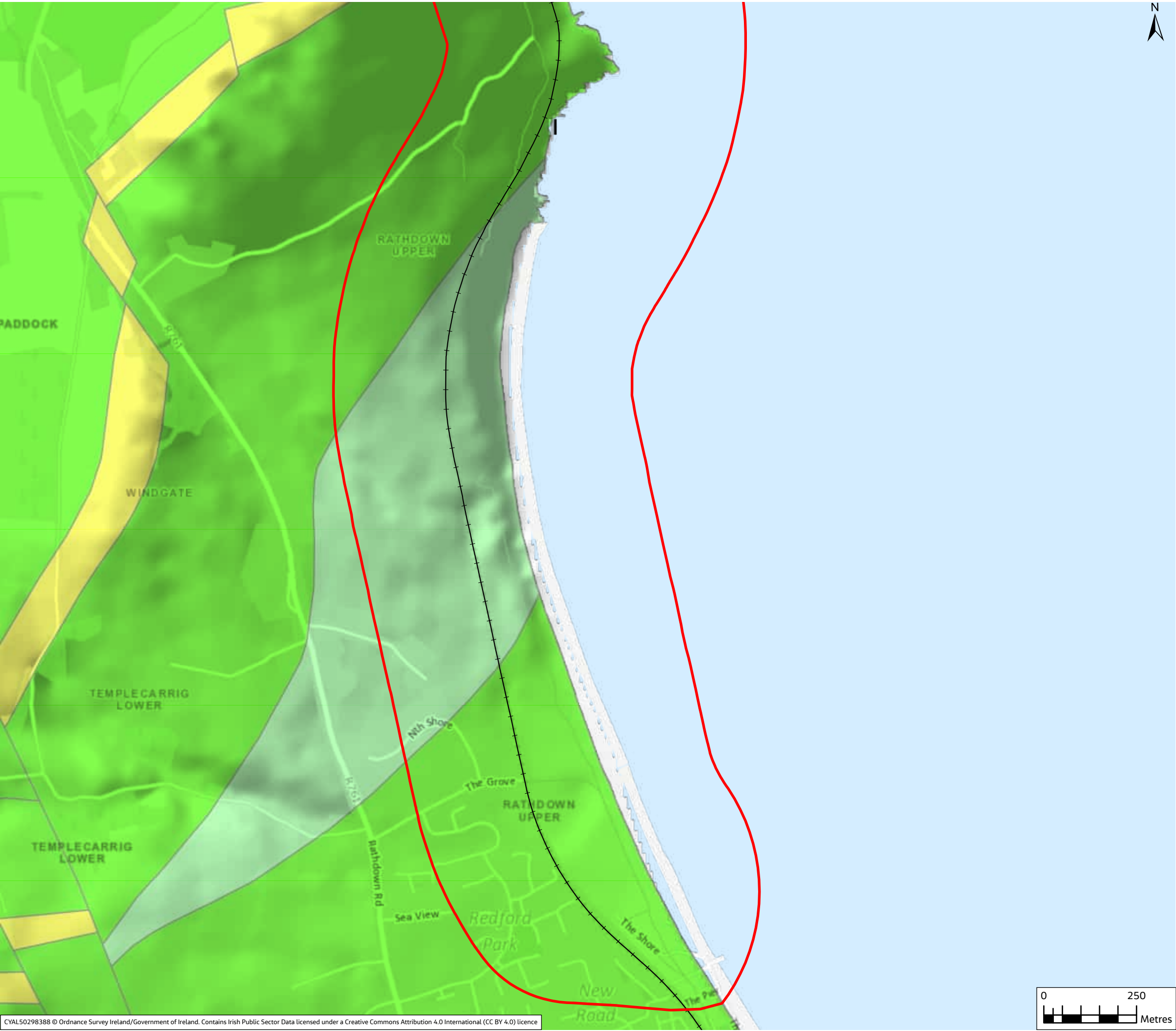
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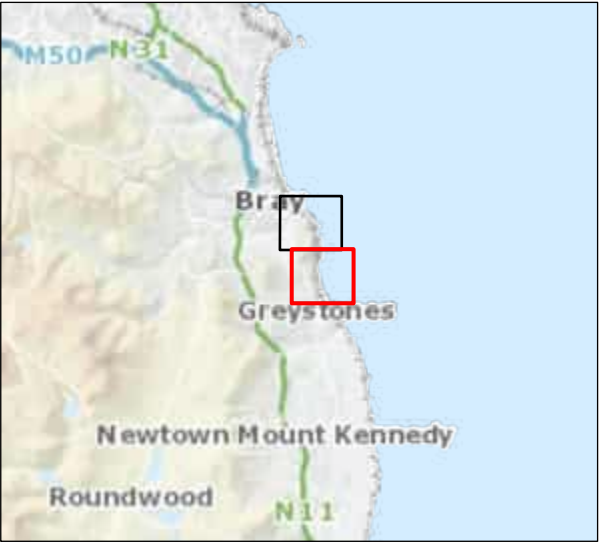




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FIGURE 7.4

- Legend
- CCA5 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Bray Head Formation
 - in Bray Head Formation
 - Devils Glen Formation



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Drawing Title

Figure 7.4
CCA5- Environmental Constraints - Bedrock Geology
(Page 2 of 2)

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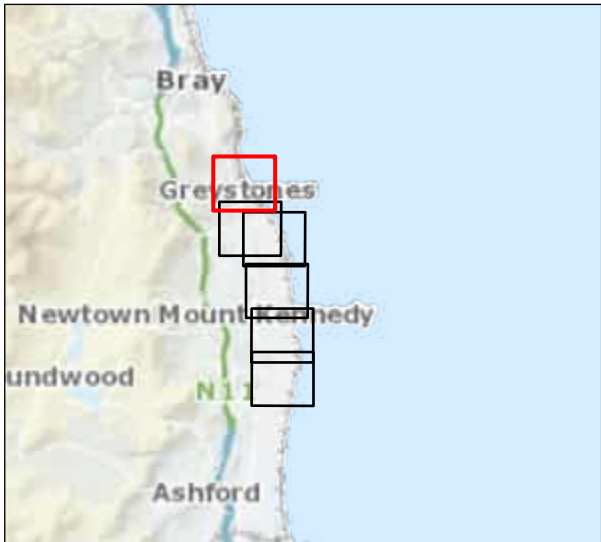
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FIGURE 7.4

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Bray Head Formation
 - in Bray Head Formation
 - Devils Glen Formation



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Figure 7.4
CCA6.1 - Environmental Constraints - Bedrock Geology
(Page 1 of 6)

Drawing Status

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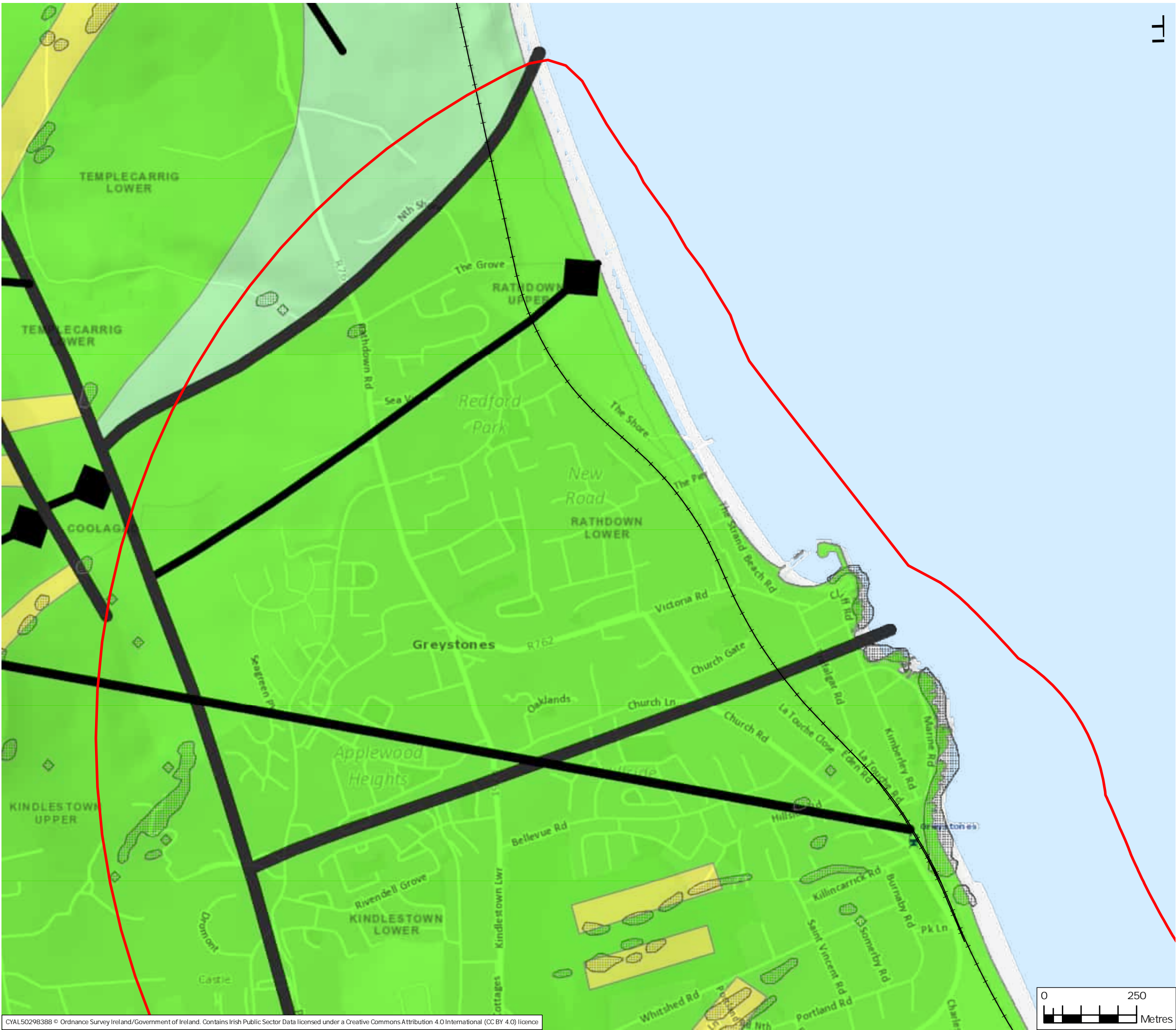
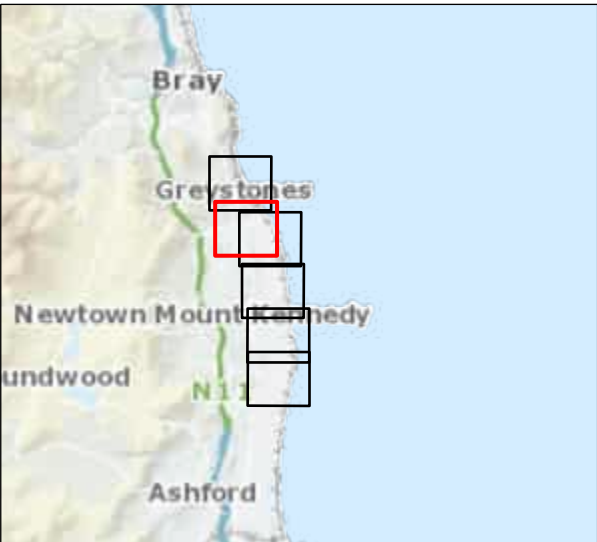


FIGURE 7.4

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Bray Head Formation
 - in Bray Head Formation



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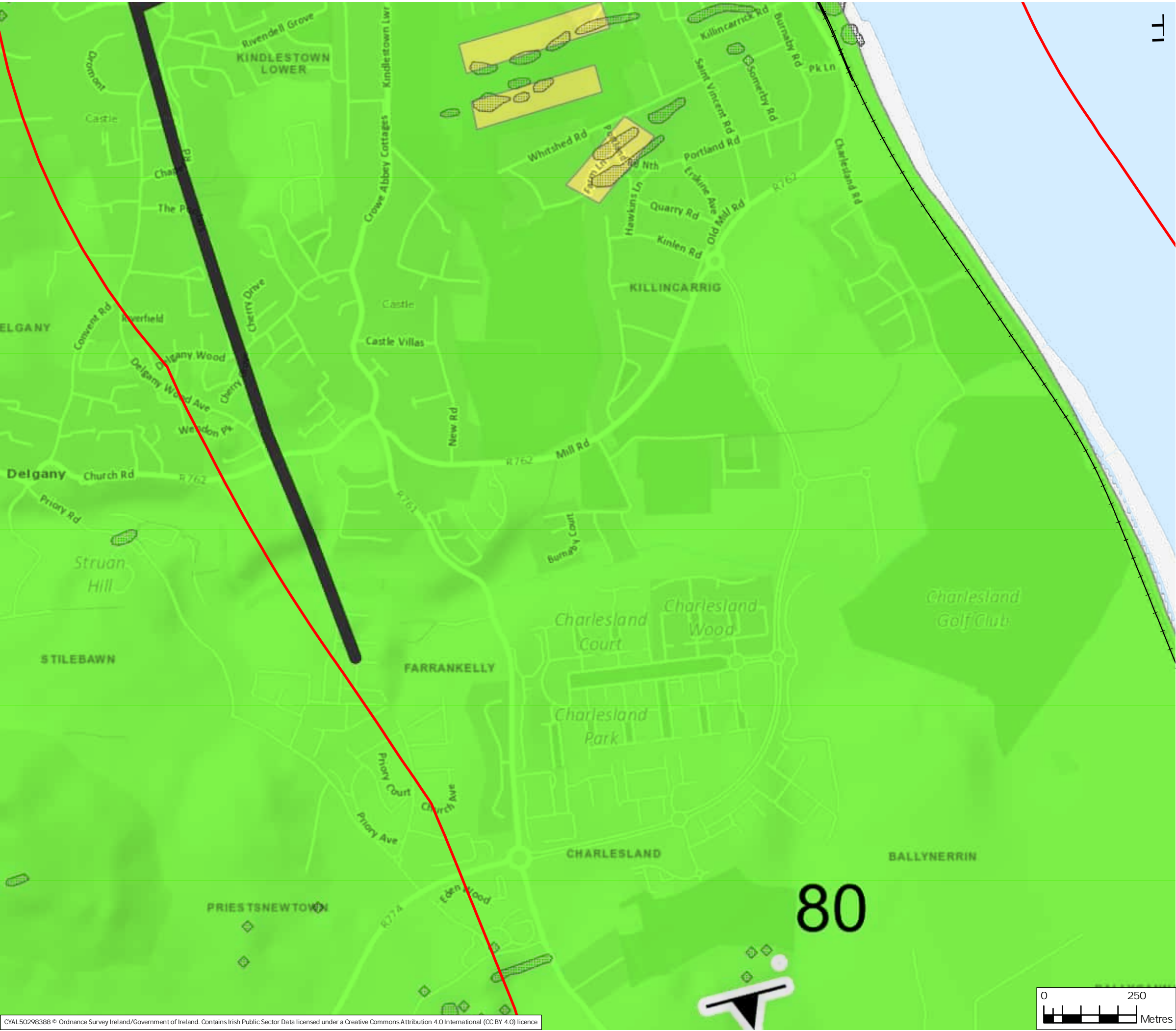
Figure 7.4
CCA6.1 - Environmental Constraints - Bedrock Geology
(Page 2 of 6)

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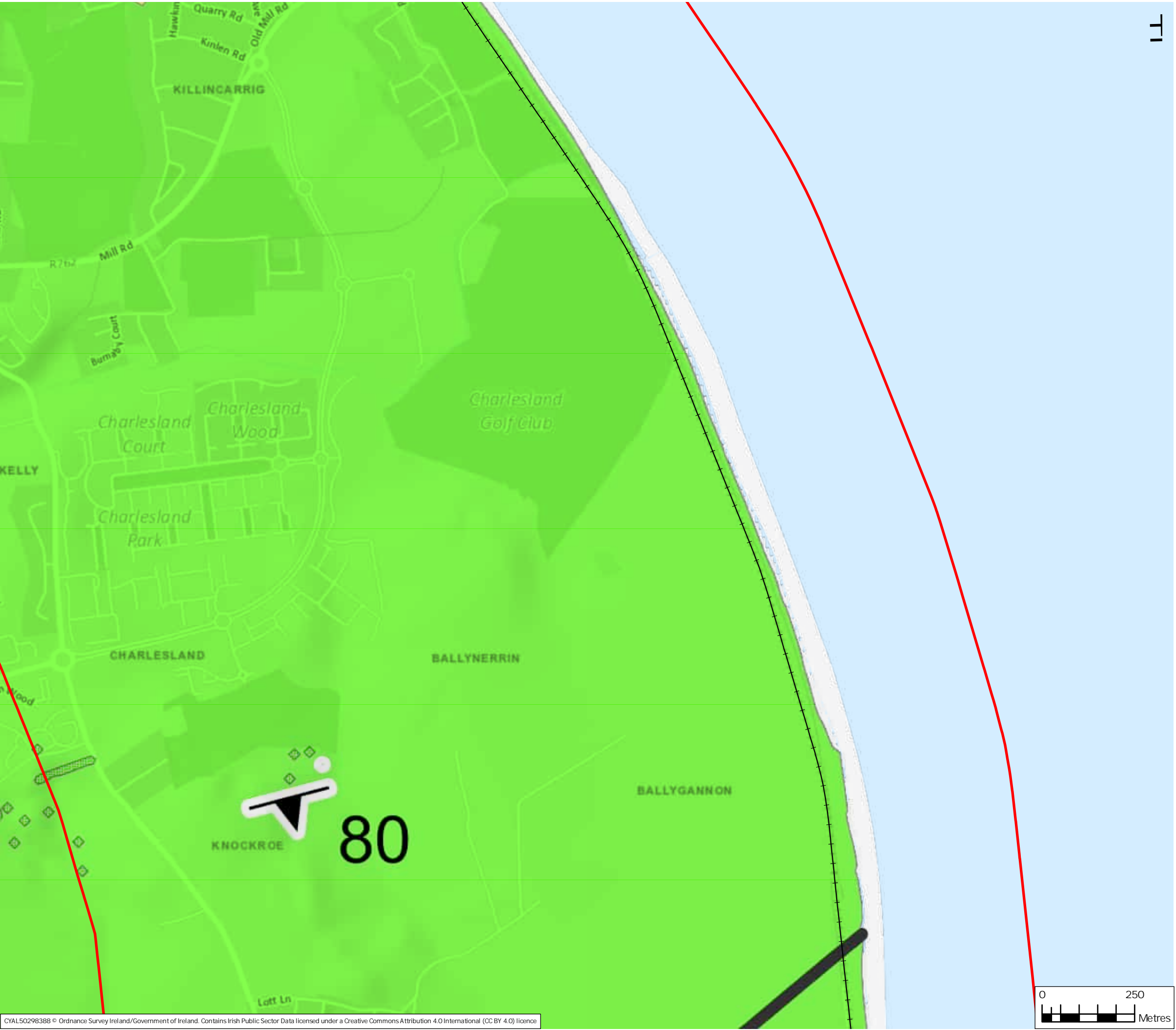


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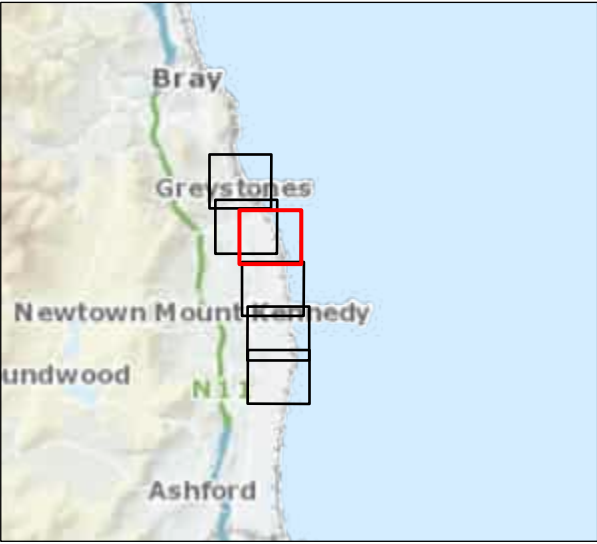
CCA6.1 Study Area



Railway Network Centreline

Bedrock Geology

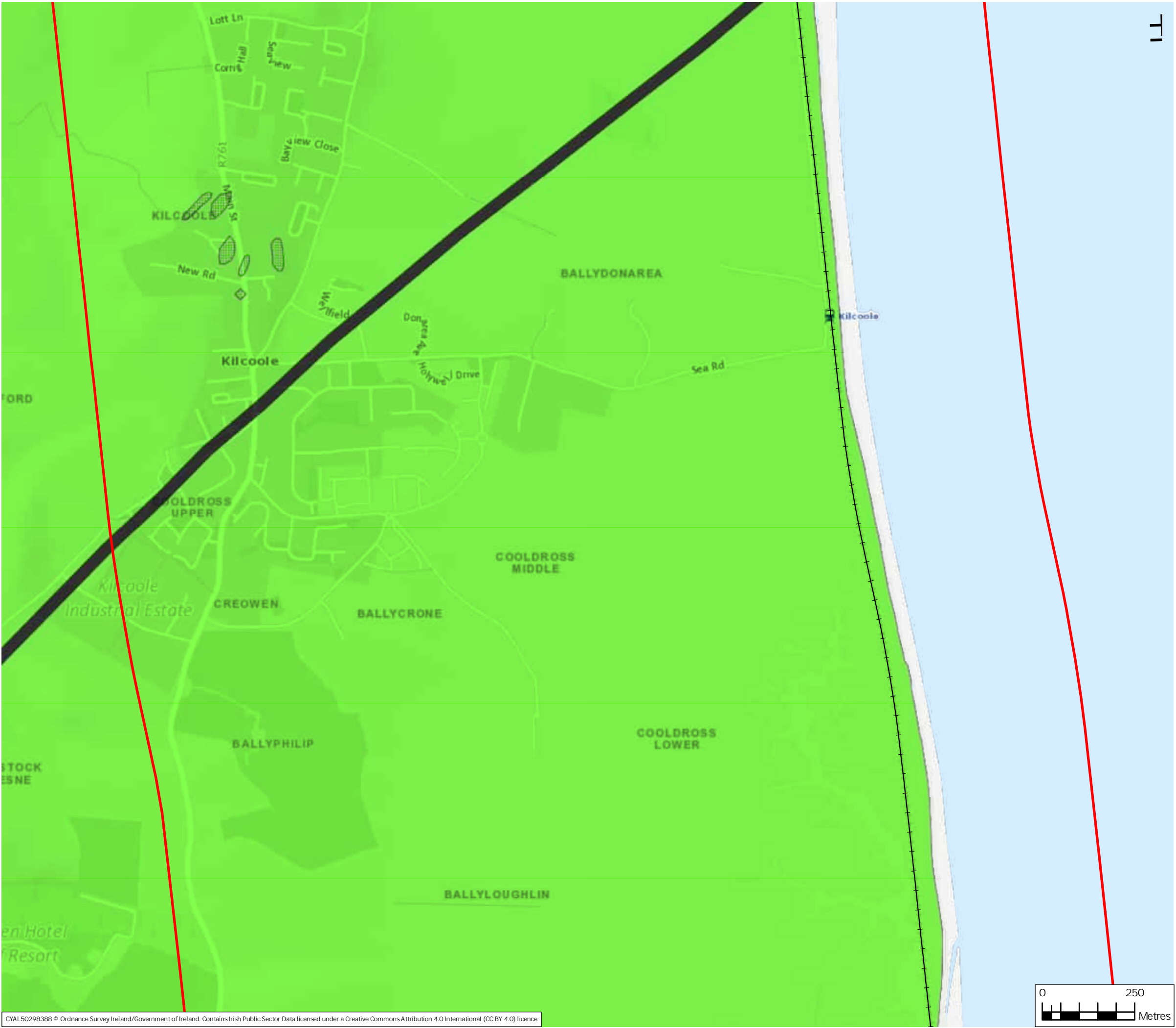
Bray Head Formation

in Bray Head Formation



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Figure 7.4 CCA6.1 - Environmental Constraints - Bedrock Geology (Page 3 of 6)								
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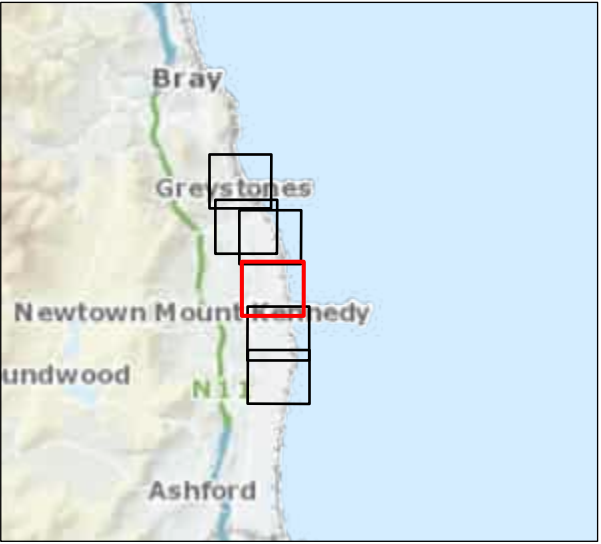
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CCA6.1 Study Area

Railway Network Centreline

Bedrock Geology

Bray Head Formation



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Figure 7.4
CCA6.1 - Environmental Constraints - Bedrock Geology
(Page 4 of 6)

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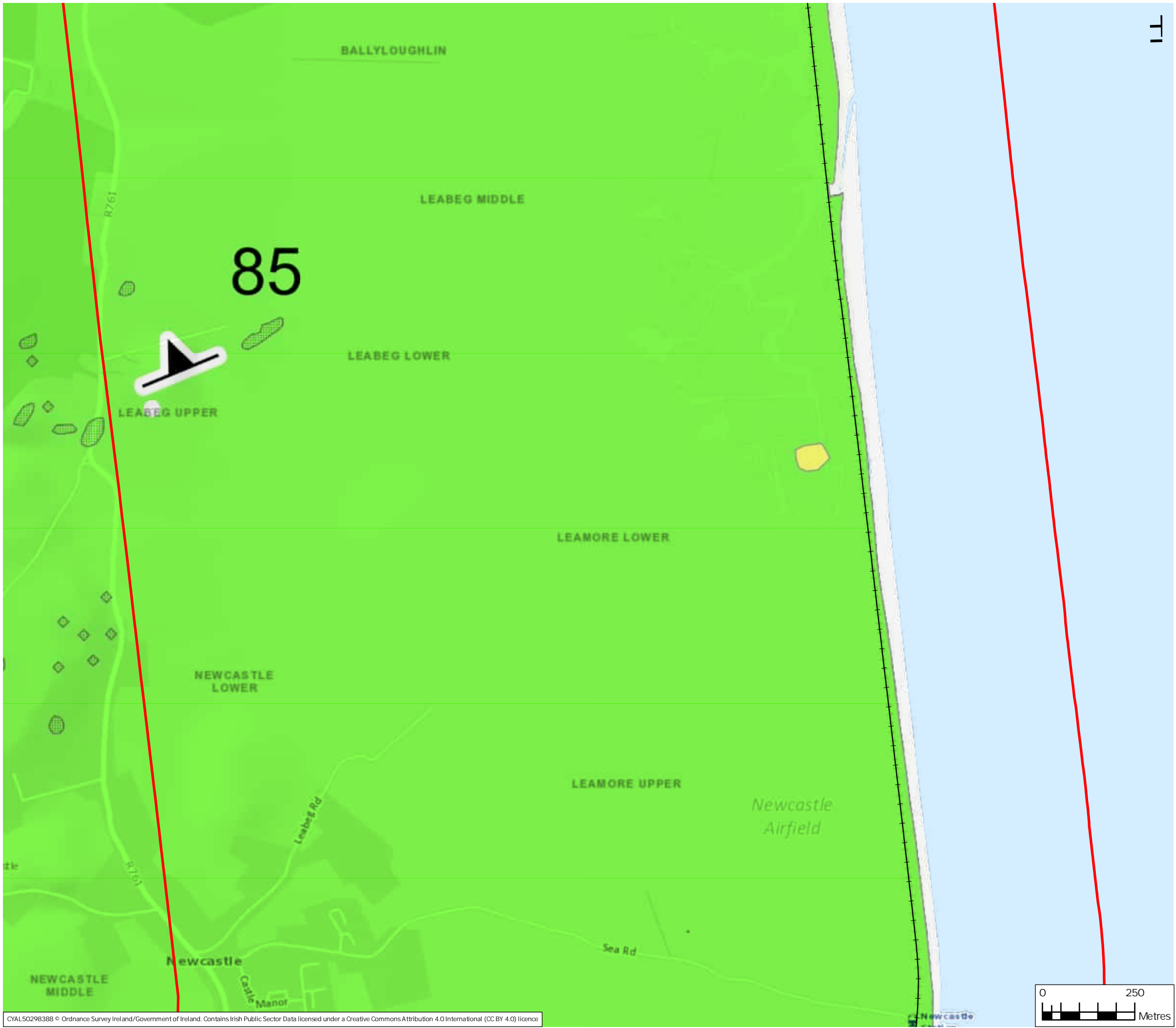


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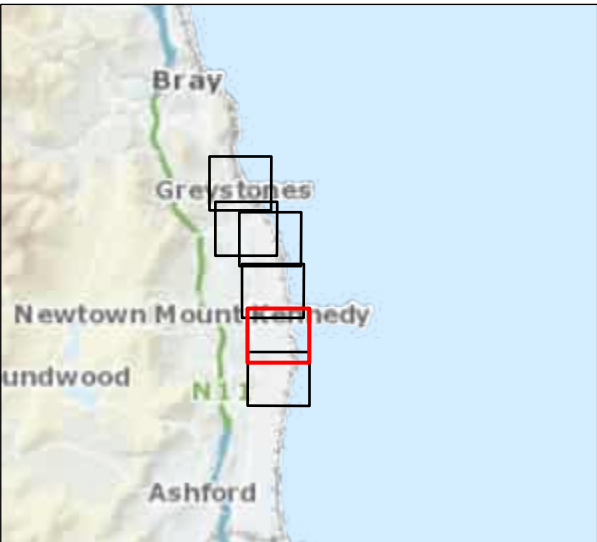
CCA6.1 Study Area


Railway Network Centreline

Bedrock Geology

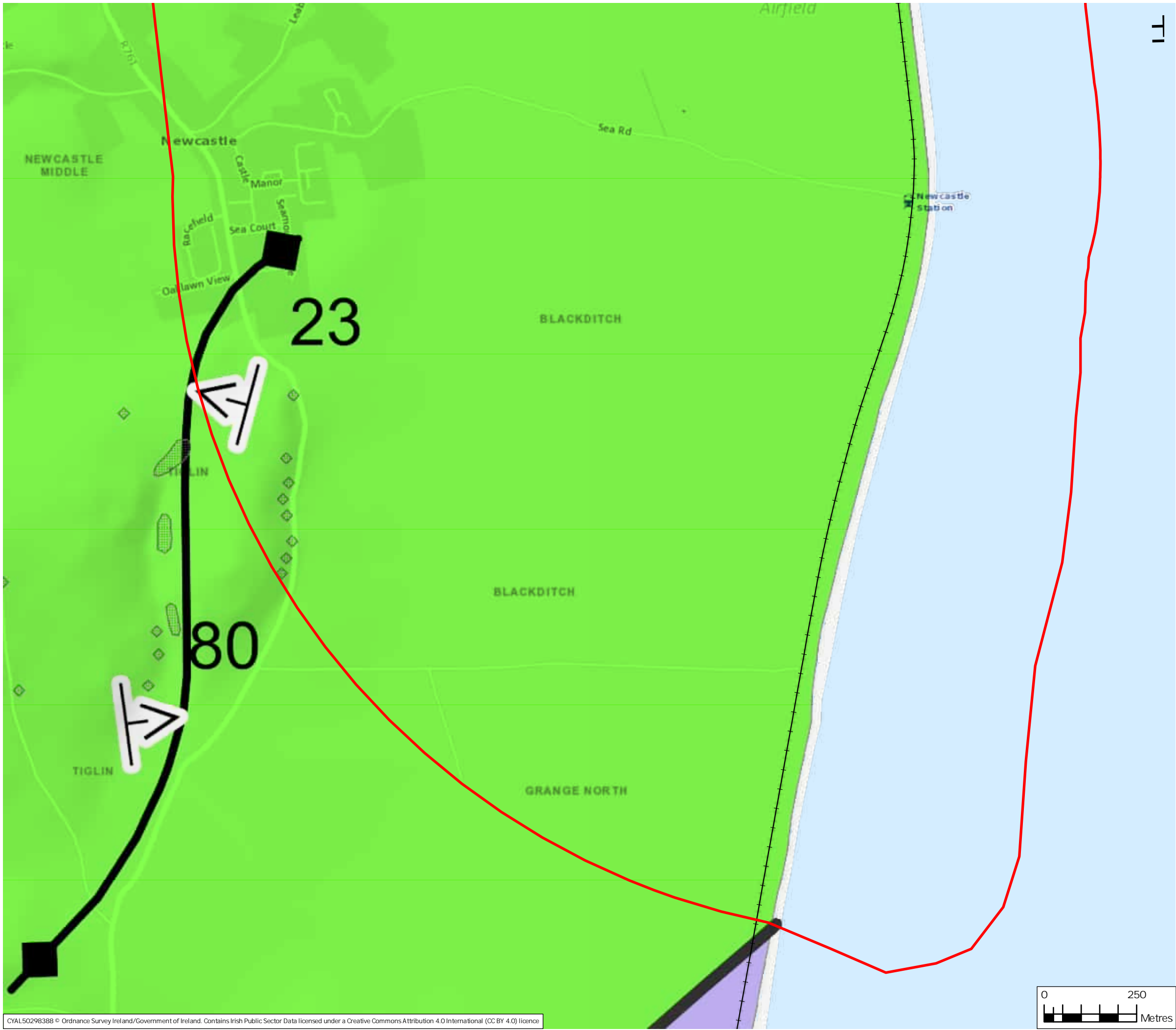
Bray Head Formation

in Bray Head Formation



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Figure 7.4 CCA.6.1- Environmental Constraints - Bedrock Geology (Page 5 of 6)							
Drawing Status							
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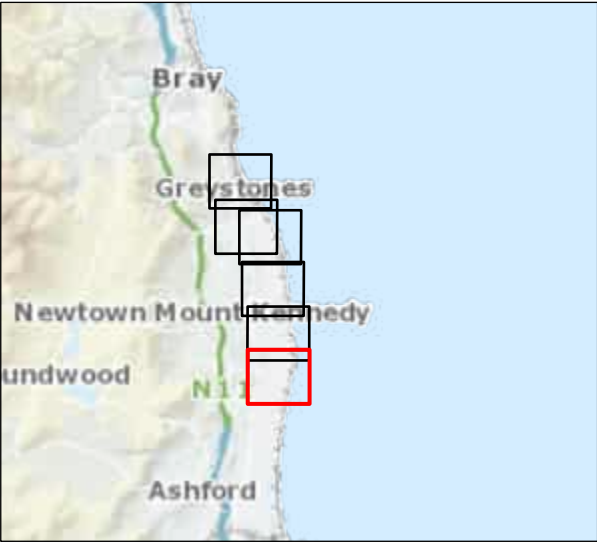
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FIGURE 7.4

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Bray Head Formation
 - in Bray Head Formation
 - Maulin Formation



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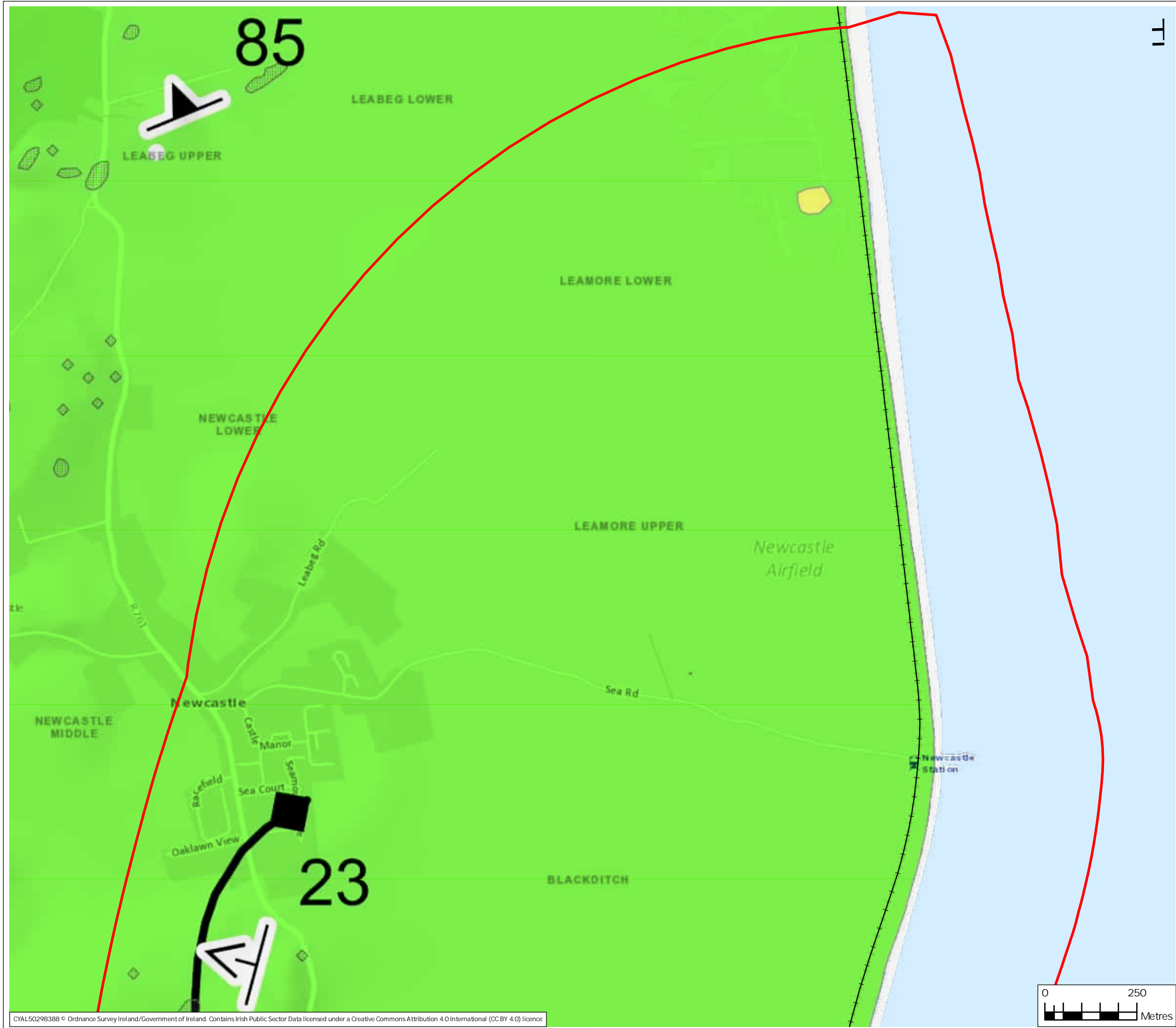
Figure 7.4
CCA6.1 - Environmental Constraints - Bedrock Geology
(Page 6 of 6)

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FIGURE 7.4

Legend

CCA6.2 Study Area

Railway Network Centreline

Bedrock Geology

Strike and dip of bedding, right way up

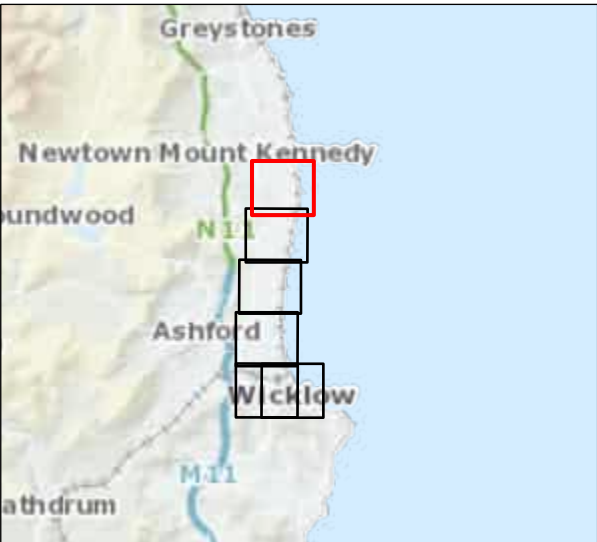
Strike and dip of first foliation

Bedrock Outcrops 100 ITM 2018

Anticlinal Axis

Bray Head Formation

in Bray Head Formation



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Figure 7.4
CCA6.2- Environmental Constraints - Bedrock Geology
(Page 1 of 6)

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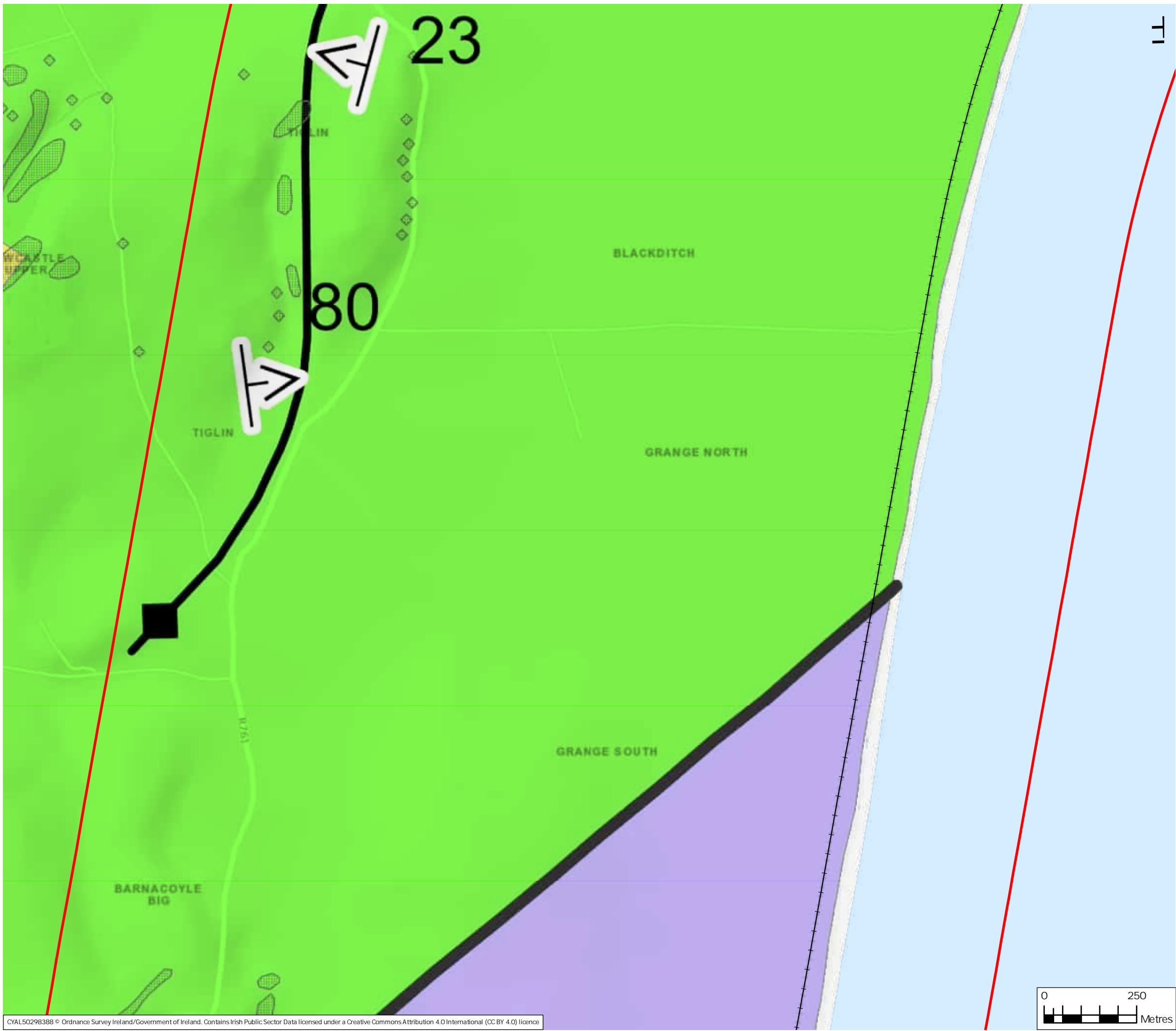
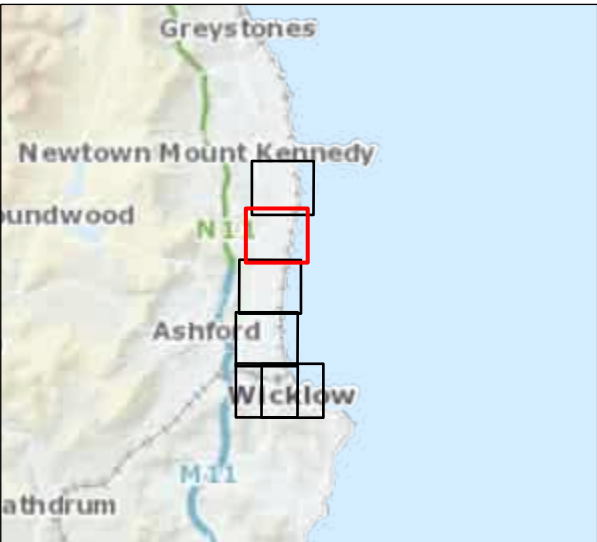


FIGURE 7.4

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Strike and dip of bedding, right way up
 - Bedrock Outcrops 100 ITM 2018
 - Anticlinal Axis
 - Fault
 - Bray Head Formation
 - in Bray Head Formation
 - Maulin Formation



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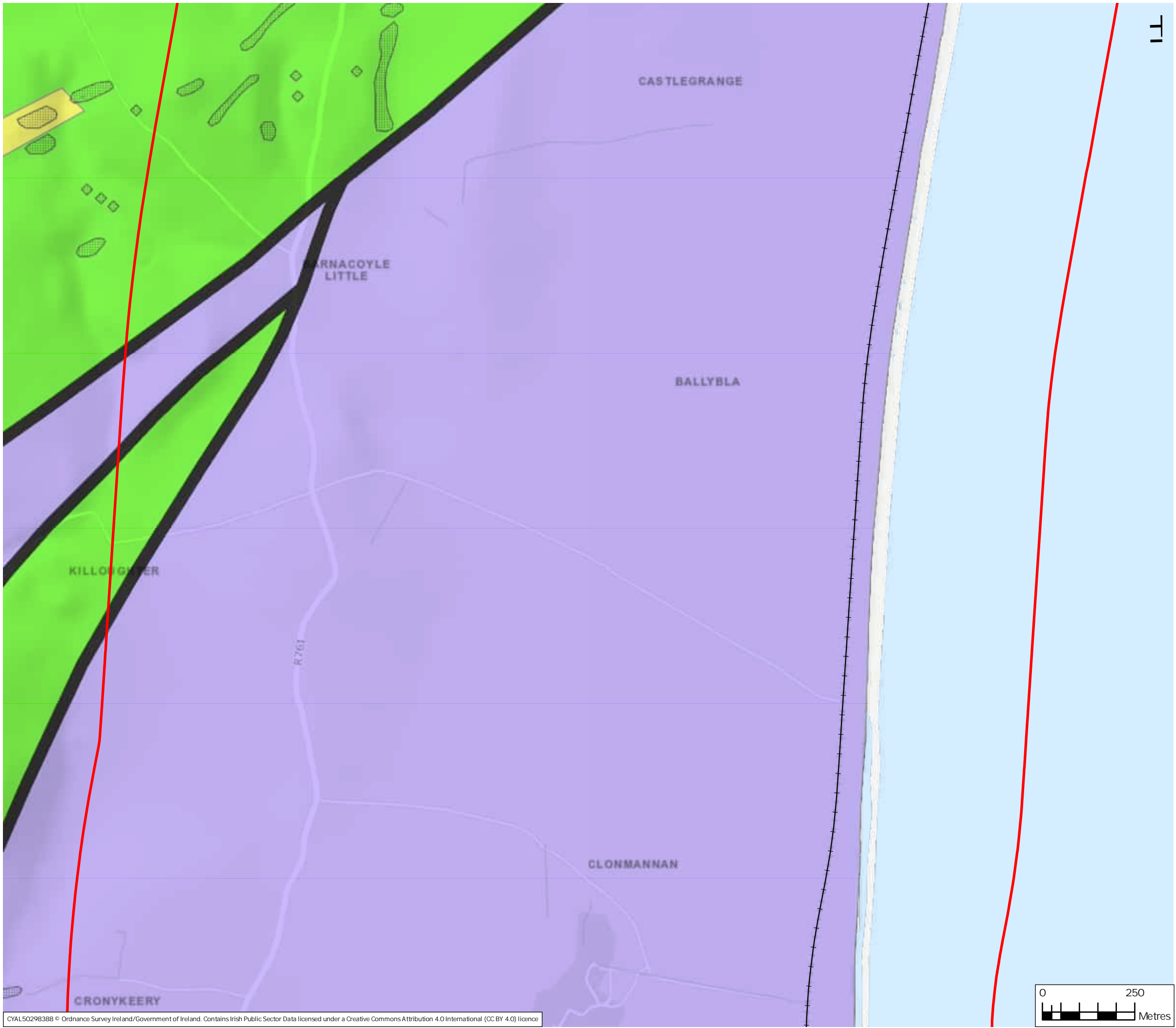
Figure 7.4
CCA6.2- Environmental Constraints - Bedrock Geology
(Page 2 of 6)

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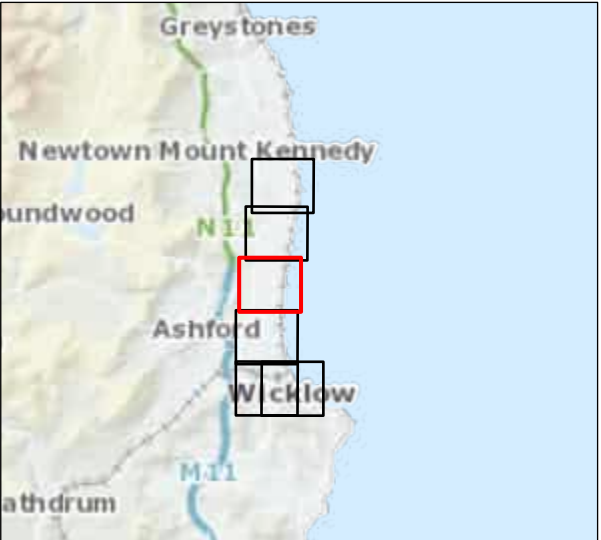
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FIGURE 7.4

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Bedrock Outcrops 100 ITM 2018
 - Fault
 - Bray Head Formation
 - in Bray Head Formation
 - Devils Glen Formation
 - Maulin Formation



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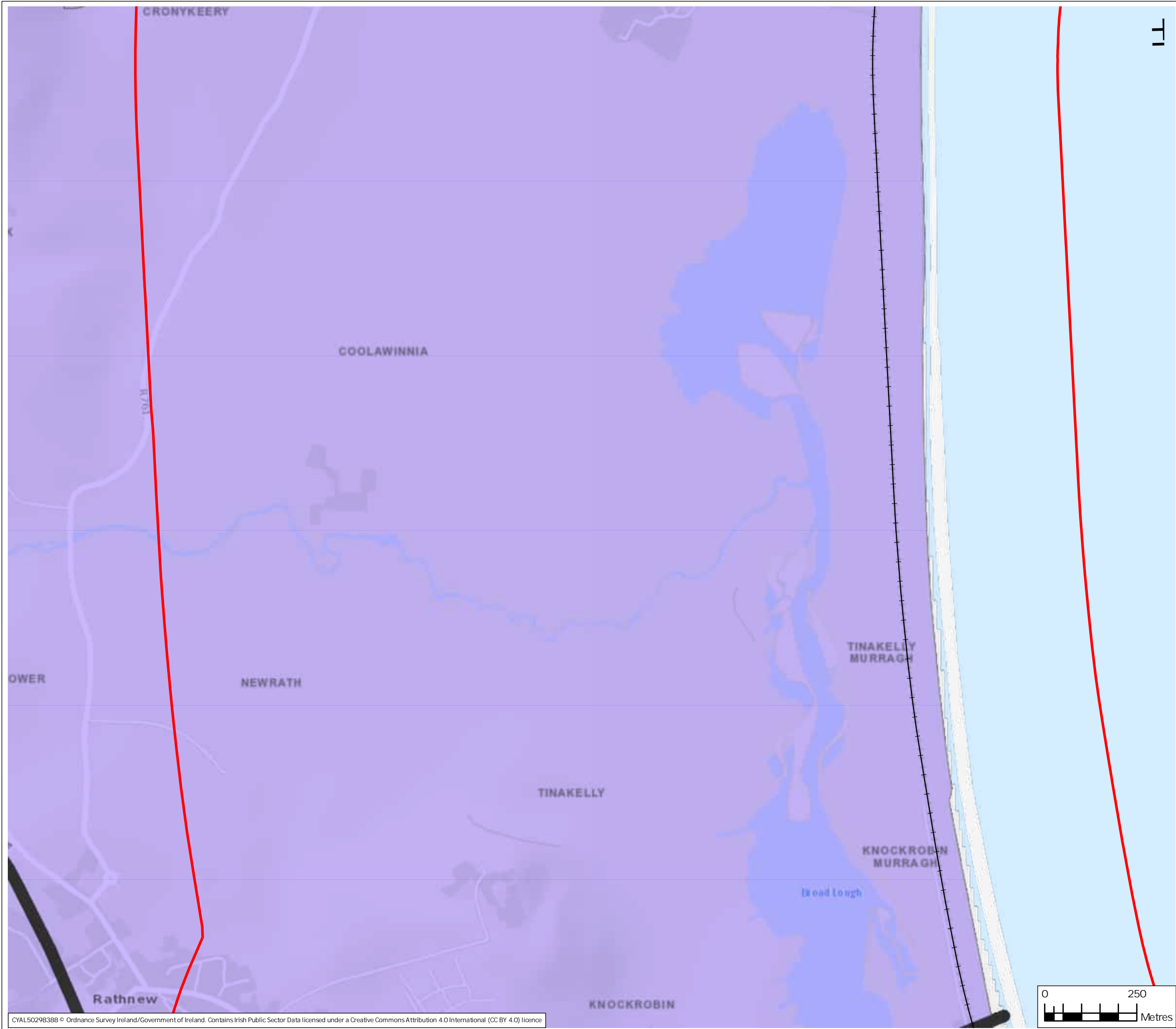
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Figure 7.4
CCA6.2- Environmental Constraints - Bedrock Geology
(Page 3 of 6)

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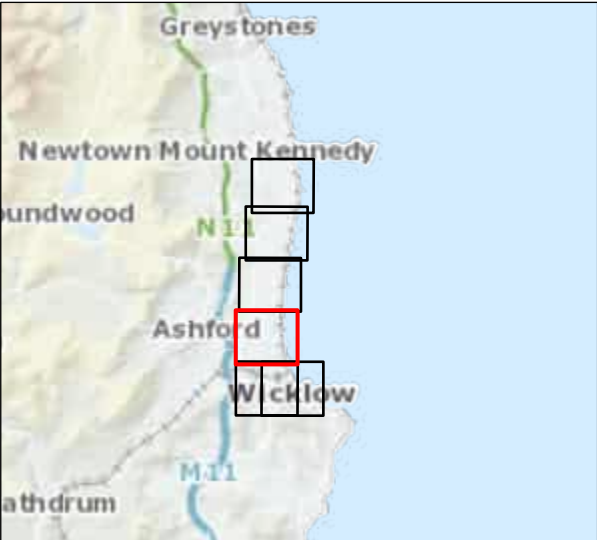
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FIGURE 7.4

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Bedrock Outcrops 100 ITM 2018
 - Fault
 - Bray Head Formation
 - Ballylane Formation
 - Maulin Formation
 - Wicklow Head Formation



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Figure 7.4
CCA6.2- Environmental Constraints - Bedrock Geology
(Page 4 of 6)

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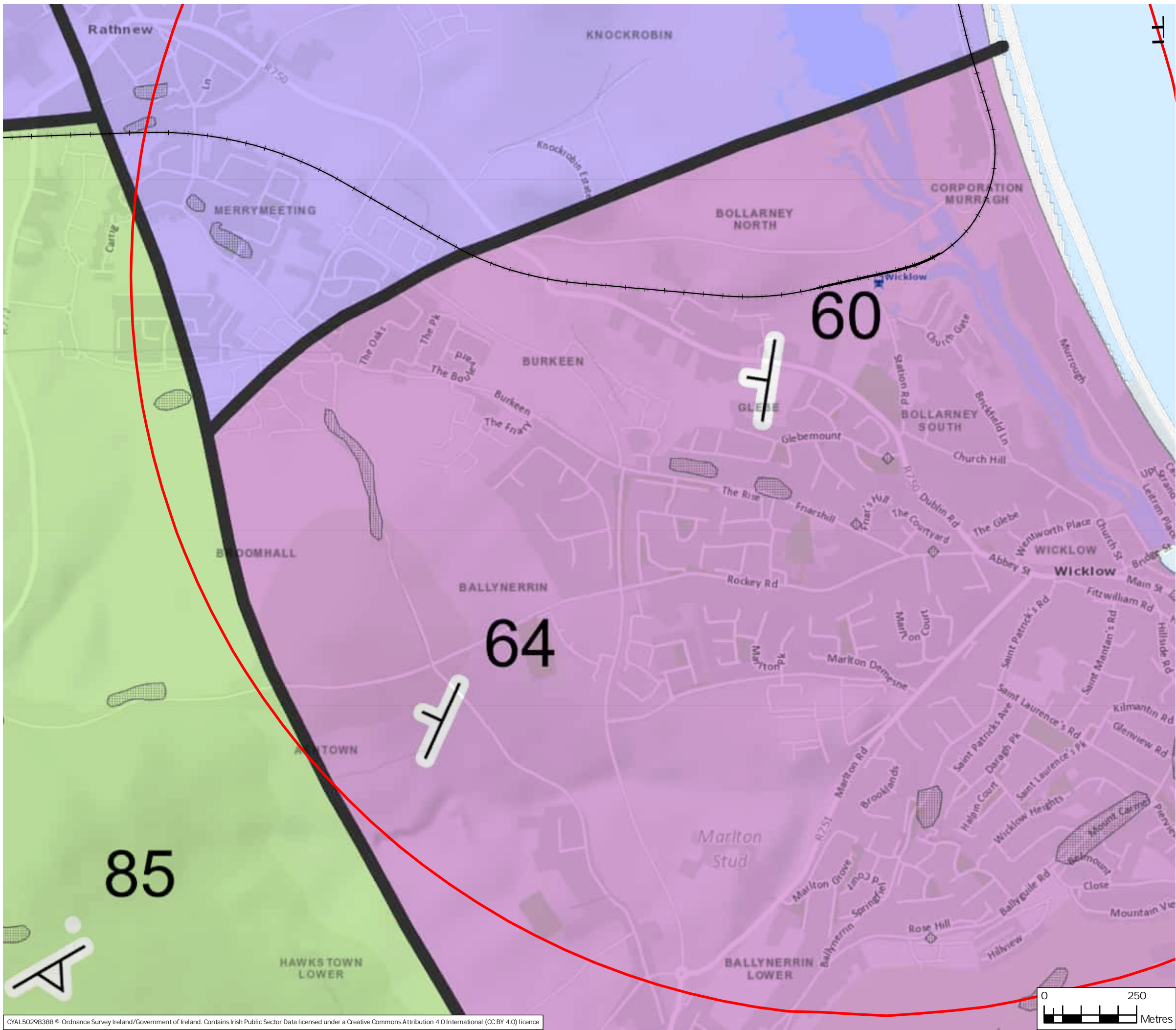


FIGURE 7.4

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
- Bedrock Geology
- Strike and dip of bedding, way up unknown
 - Strike and dip of second foliation
 - Bedrock Outcrops 100 ITM 2018
 - Fault
 - Ballylane Formation
 - Maulin Formation
 - Wicklow Head Formation



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Figure 7.4
CCA6.2- Environmental Constraints - Bedrock Geology
(Page 5 of 6)

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FIGURE 7.4

Legend

CCA6.2 Study Area

Railway Network Centreline

Bedrock Geology

Strike and dip of bedding, way up unknown

Strike and dip of first foliation

Strike and plunge of second generation fold axis

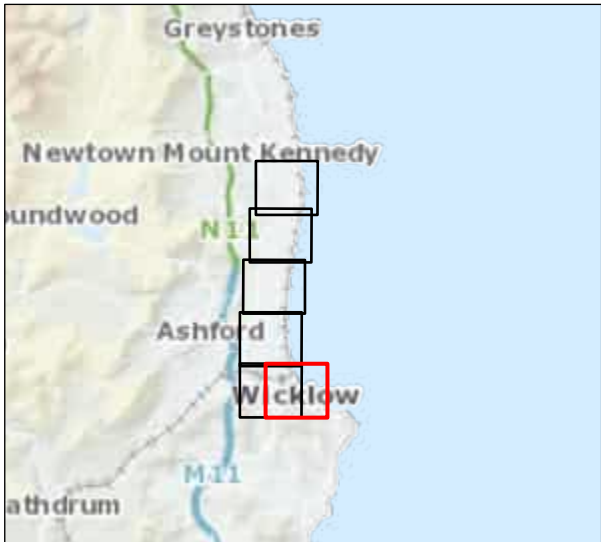
Bedrock Outcrops 100 ITM 2018

Fault

Ballylane Formation

Maulin Formation

Wicklow Head Formation



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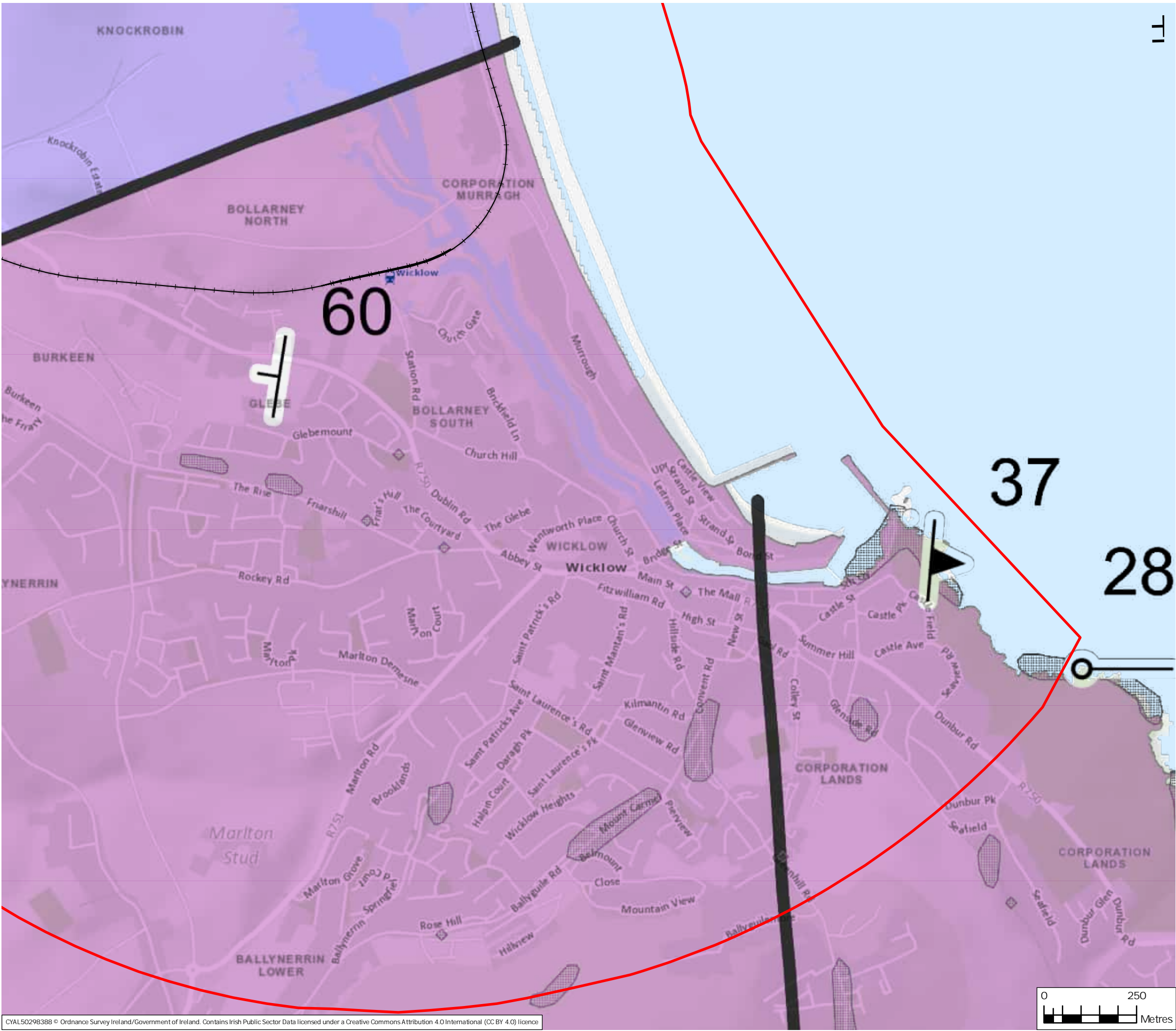
Figure 7.4
CCA6.2- Environmental Constraints - Bedrock Geology
(Page 6 of 6)

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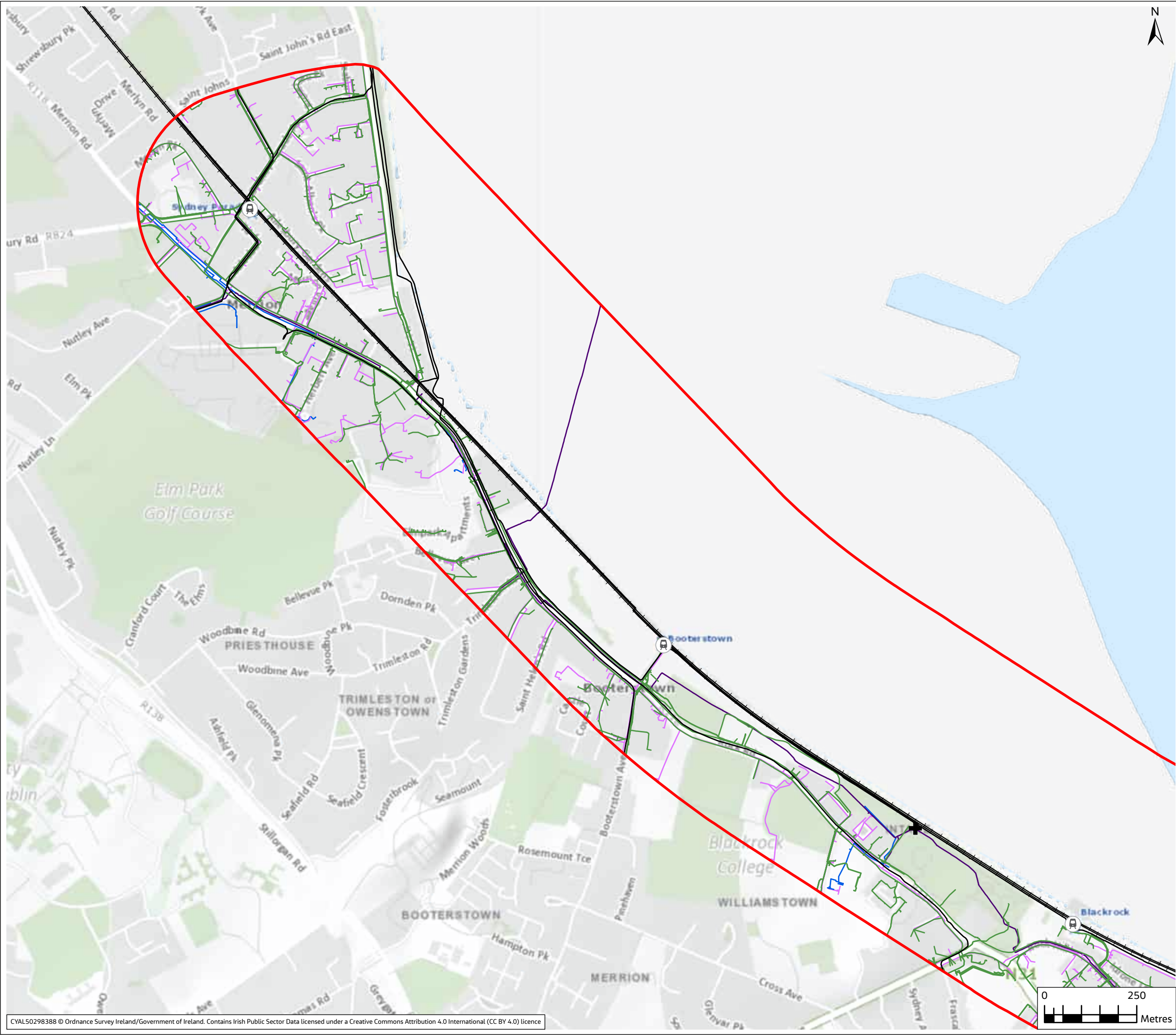
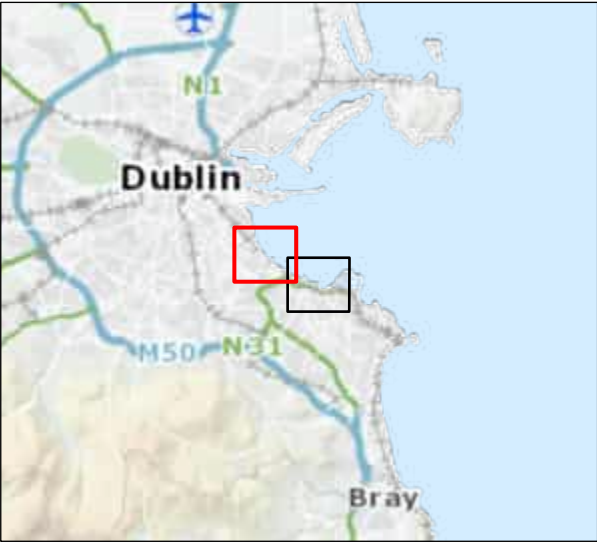


FIGURE 8.1

- Legend
- CCA1 Study Area
 - Railway Station
 - Railway Network Centreline
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- HP
 - MP
 - LP



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Figure 8.1
CCA1- Environmental Constraints - Material Assets
(Page 1 of 2)

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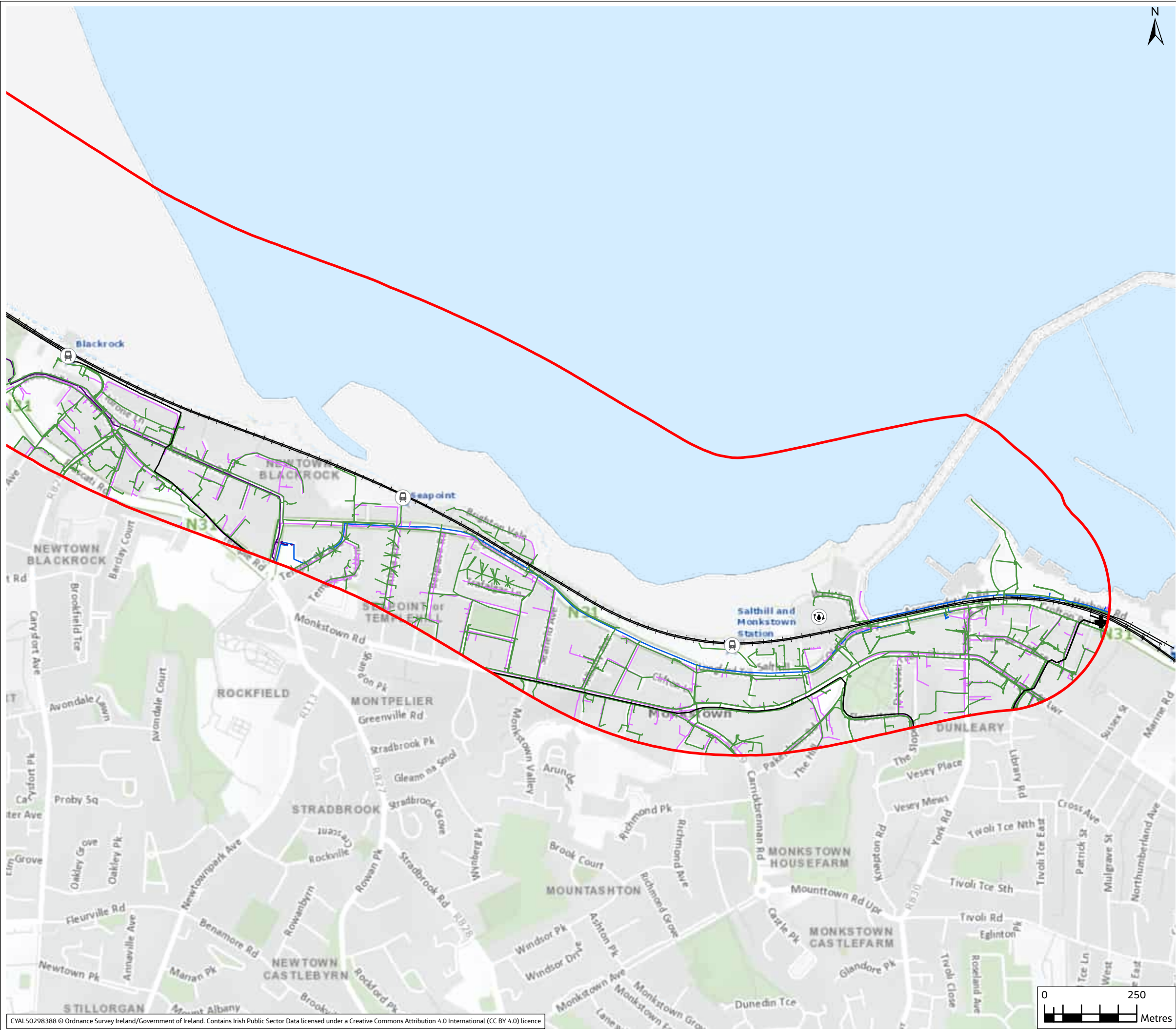


FIGURE 8.1

Legend

- CCA1 Study Area
- Railway Station
- Railway Network Centreline
- West Pier Pumping Station

ESB Network

- High Voltage Station
- High Voltage
- Medium Voltage

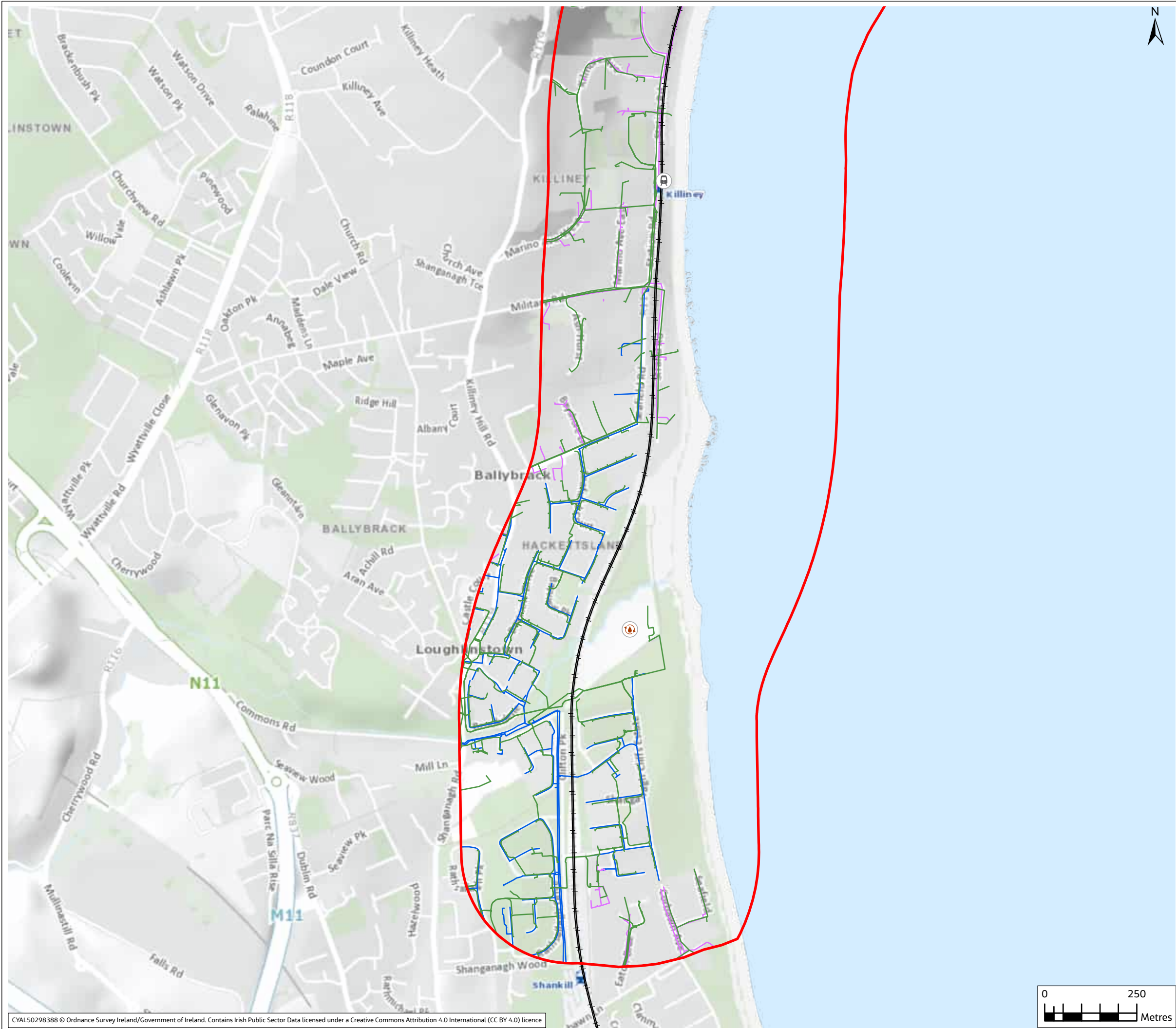
GNI Network

- HP
- MP
- LP

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Figure 8.1 CCA1- Environmental Constraints - Material Assets (Page 2 of 2)						
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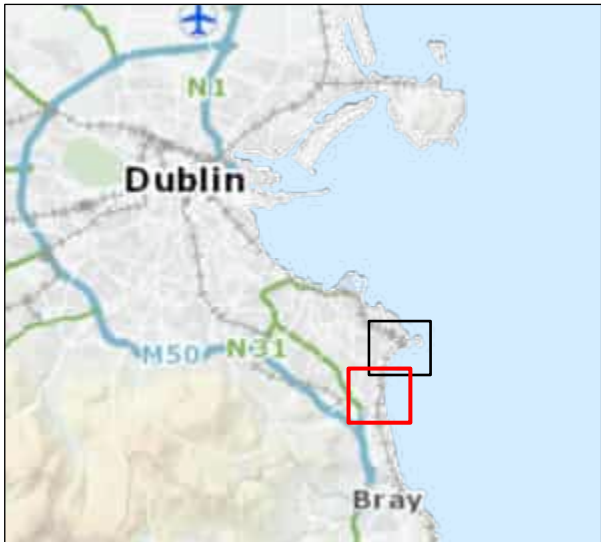
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FIGURE 8.1

- Legend
- CCA2-3 Study Area
 - Railway Station
 - Railway Network Centreline
 - Wastewater Plant
- ESB Network
- Medium Voltage
- GNI Network
- MP
 - LP



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Figure 8.1
CCA2-3- Environmental Constraints - Material Assets
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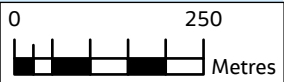
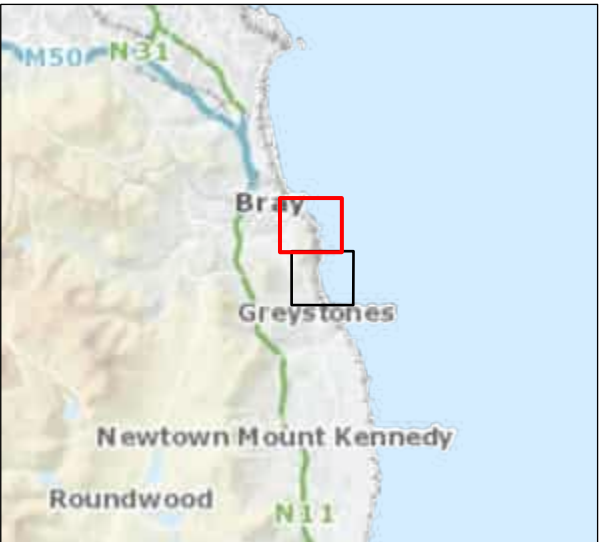


FIGURE 8.1

- Legend
- CCA5 Study Area
 - Railway Network Centreline
- ESB Network
- Medium Voltage
- GNI Network
- LP



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Figure 8.1
CCA5- Environmental Constraints - Material Assets
(Page 1 of 2)

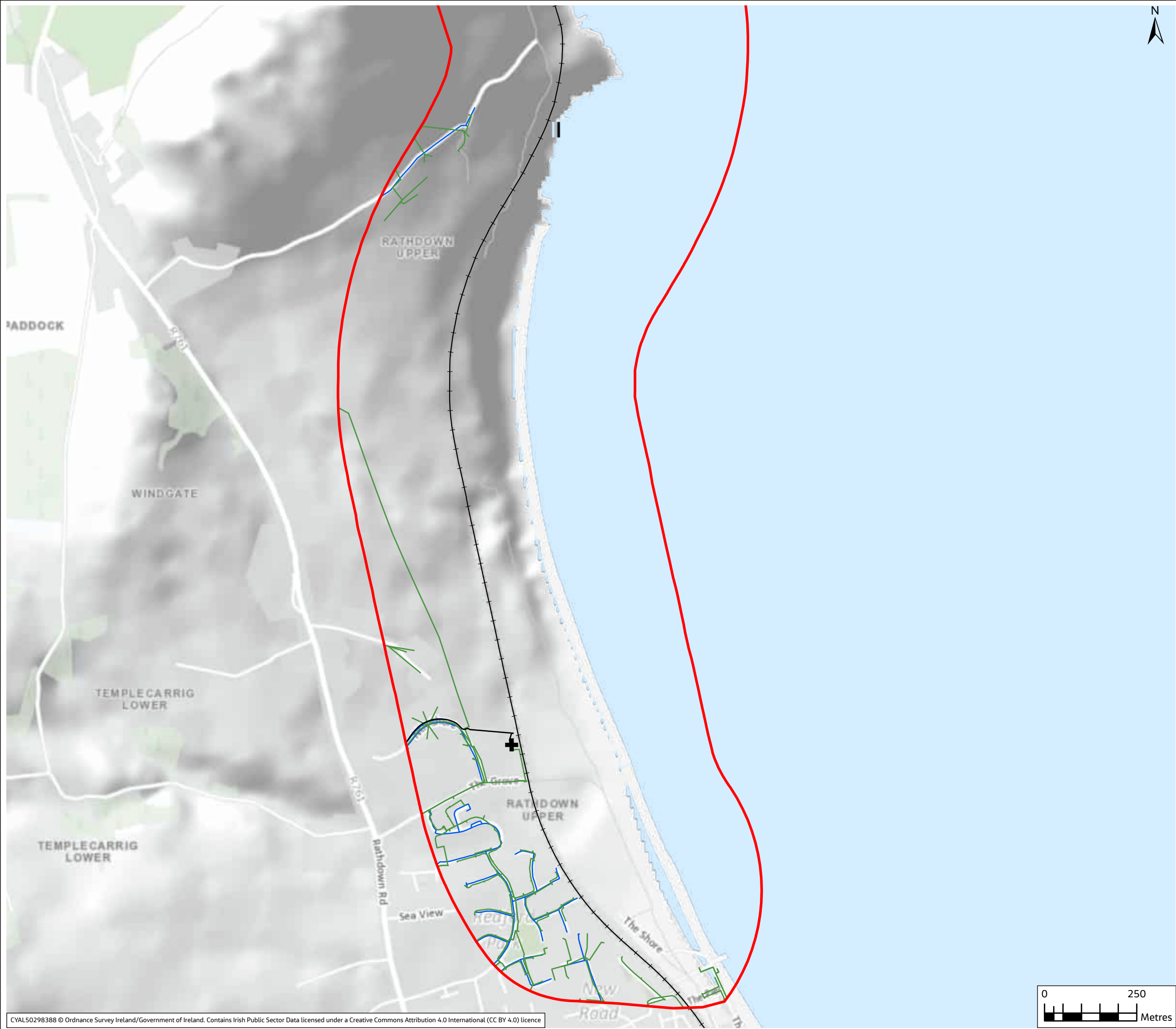
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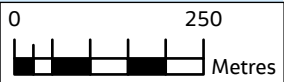
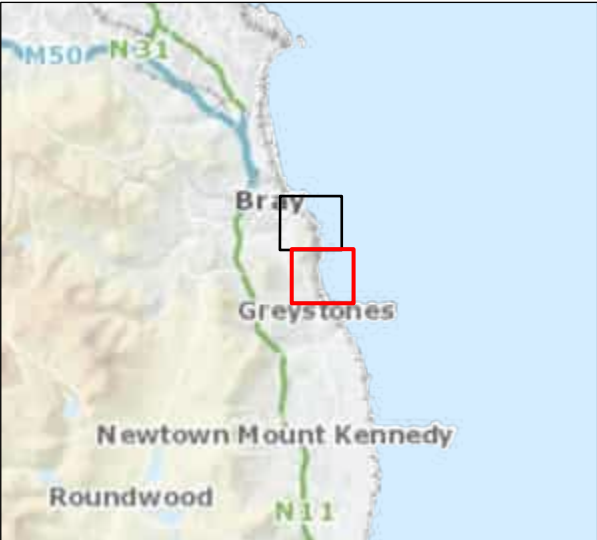


FIGURE 8.1

- Legend
- CCA5 Study Area
 - Railway Network Centreline
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- MP



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Figure 8.1
CCA5- Environmental Constraints - Material Assets
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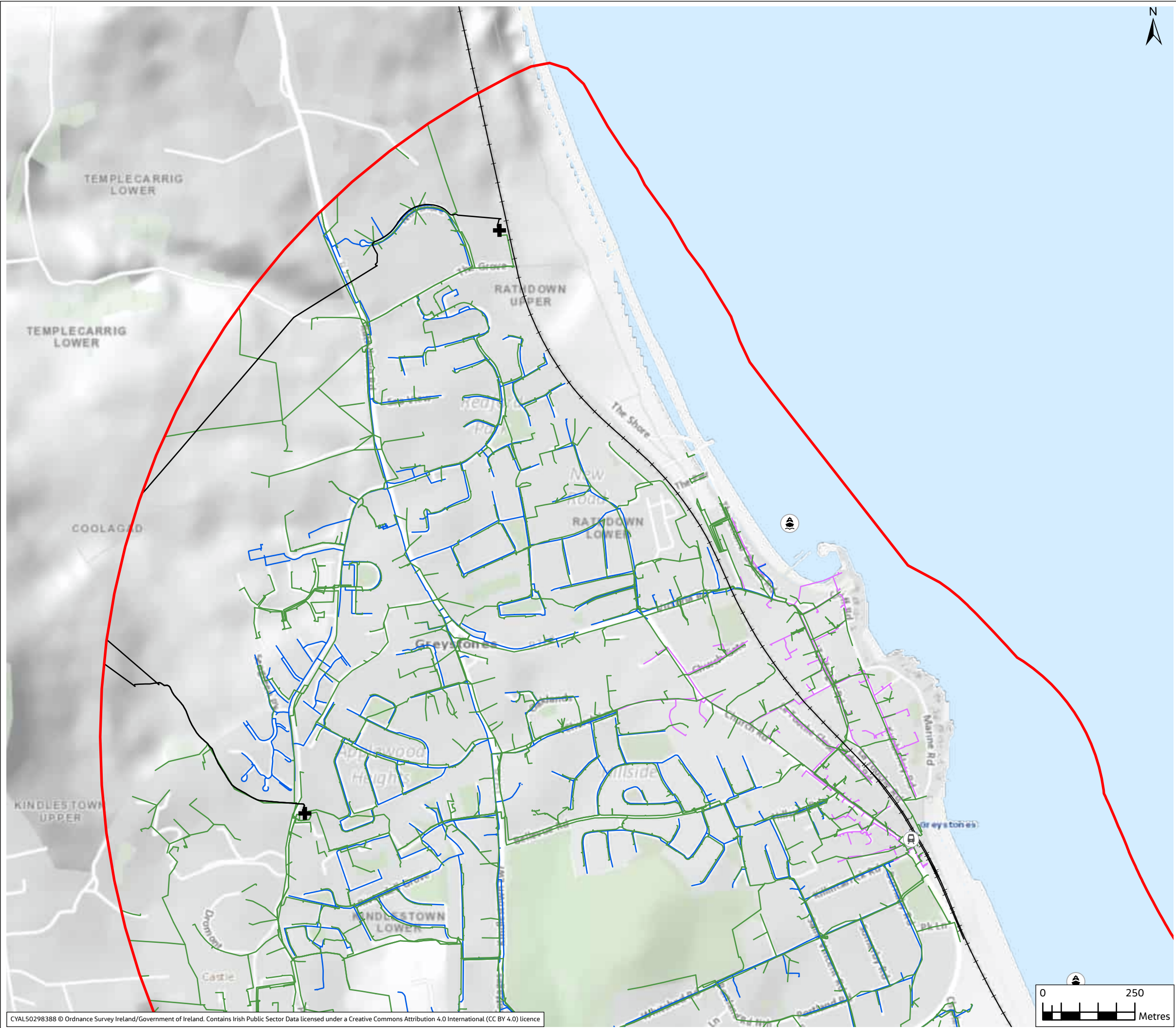


FIGURE 8.1

Legend

- CCA6.1 Study Area
- Railway Station
- Railway Network Centreline
- Greystones Harbour

ESB Network

- High Voltage Station
- High Voltage
- Medium Voltage

GNI Network

- MP
- LP

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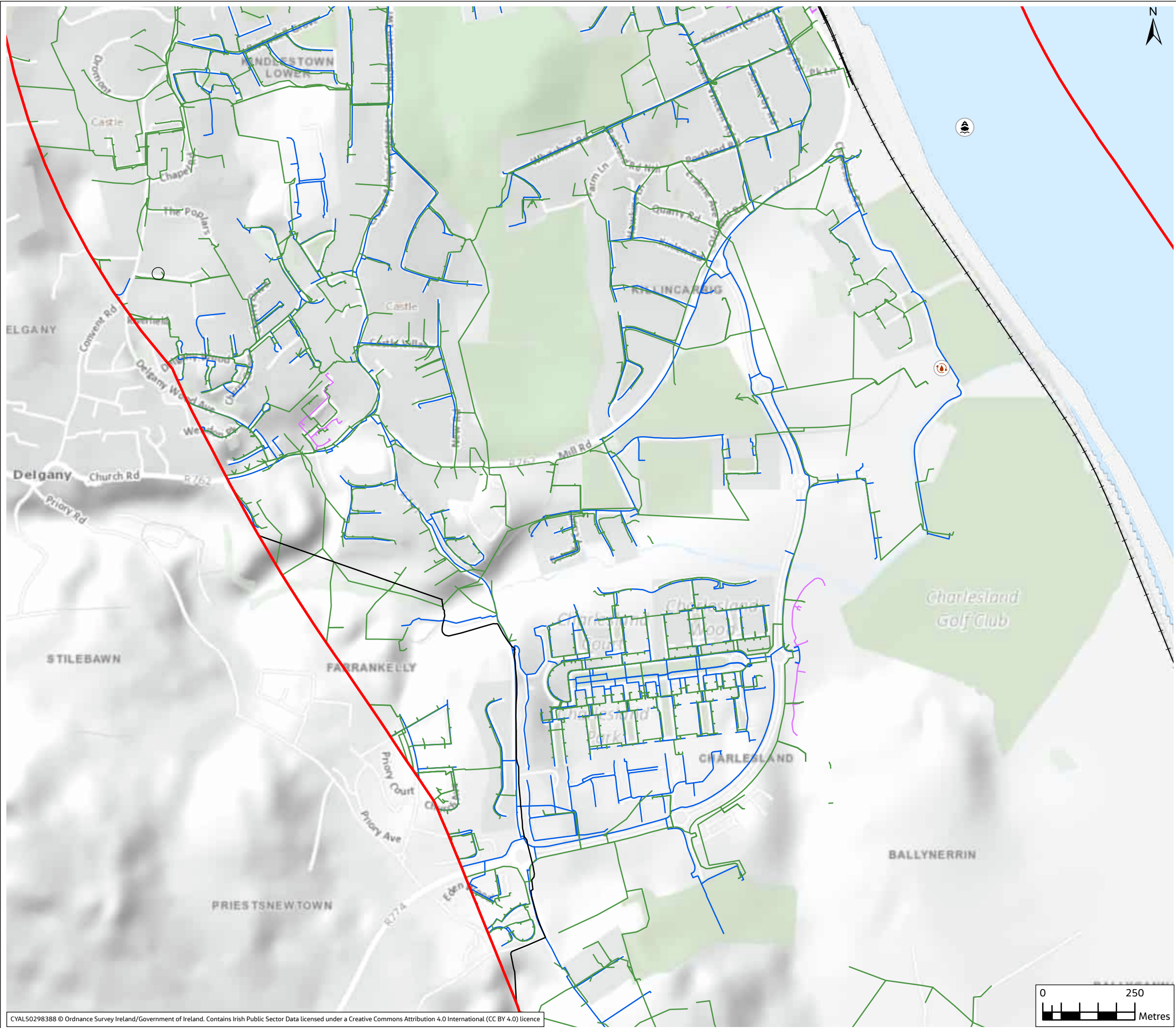
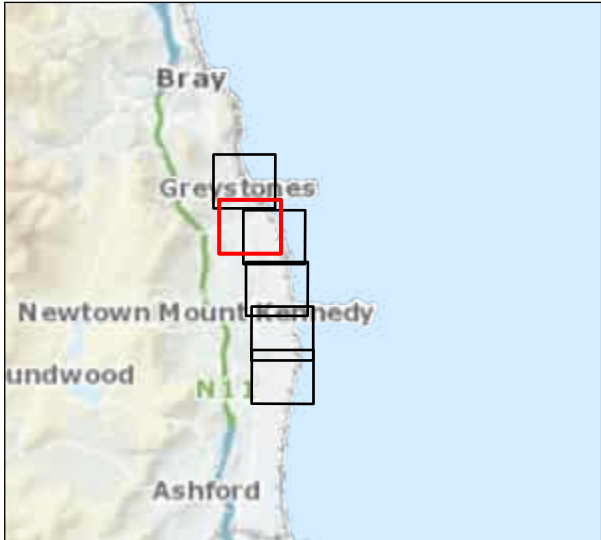


FIGURE 8.1

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
 - Wastewater Plant
 - Greystones Harbour
 - WFD Section 4 Discharges
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- MP
 - LP



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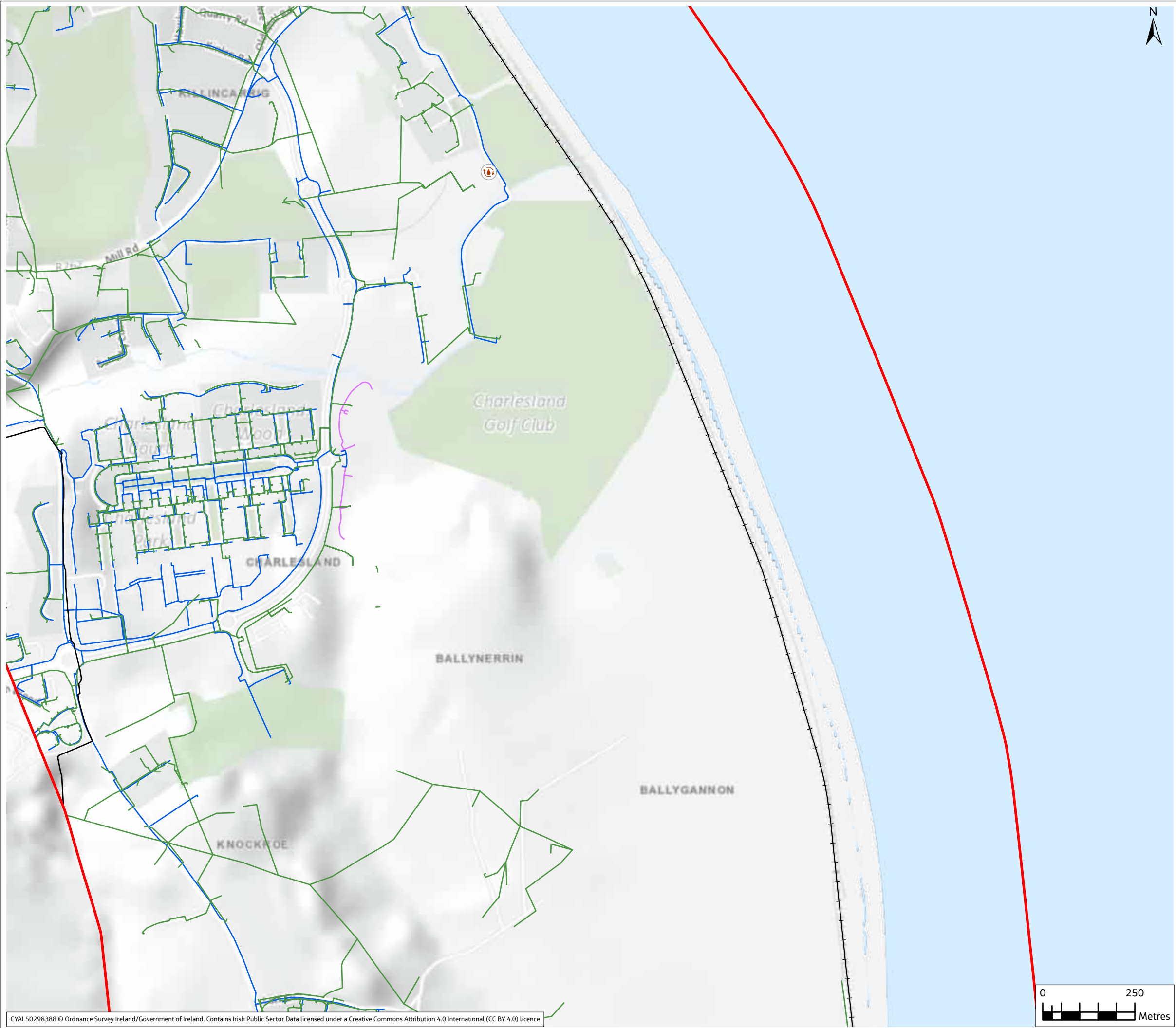
Figure 8.1
CCA6.1- Environmental Constraints - Material Assets
(Page 2 of 6)

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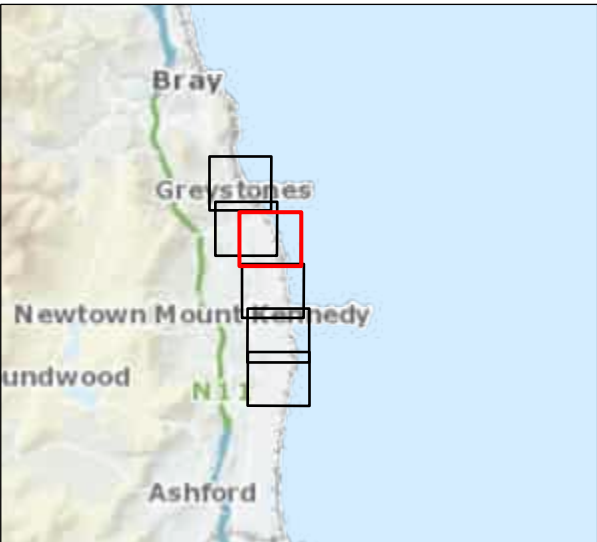


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FIGURE 8.1

- Legend
- CCA6.1 Study Area
 - Railway Network Centreline
 - Wastewater Plant
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- MP
 - LP



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Figure 8.1
CCA6.1- Environmental Constraints - Material Assets
(Page 3 of 6)

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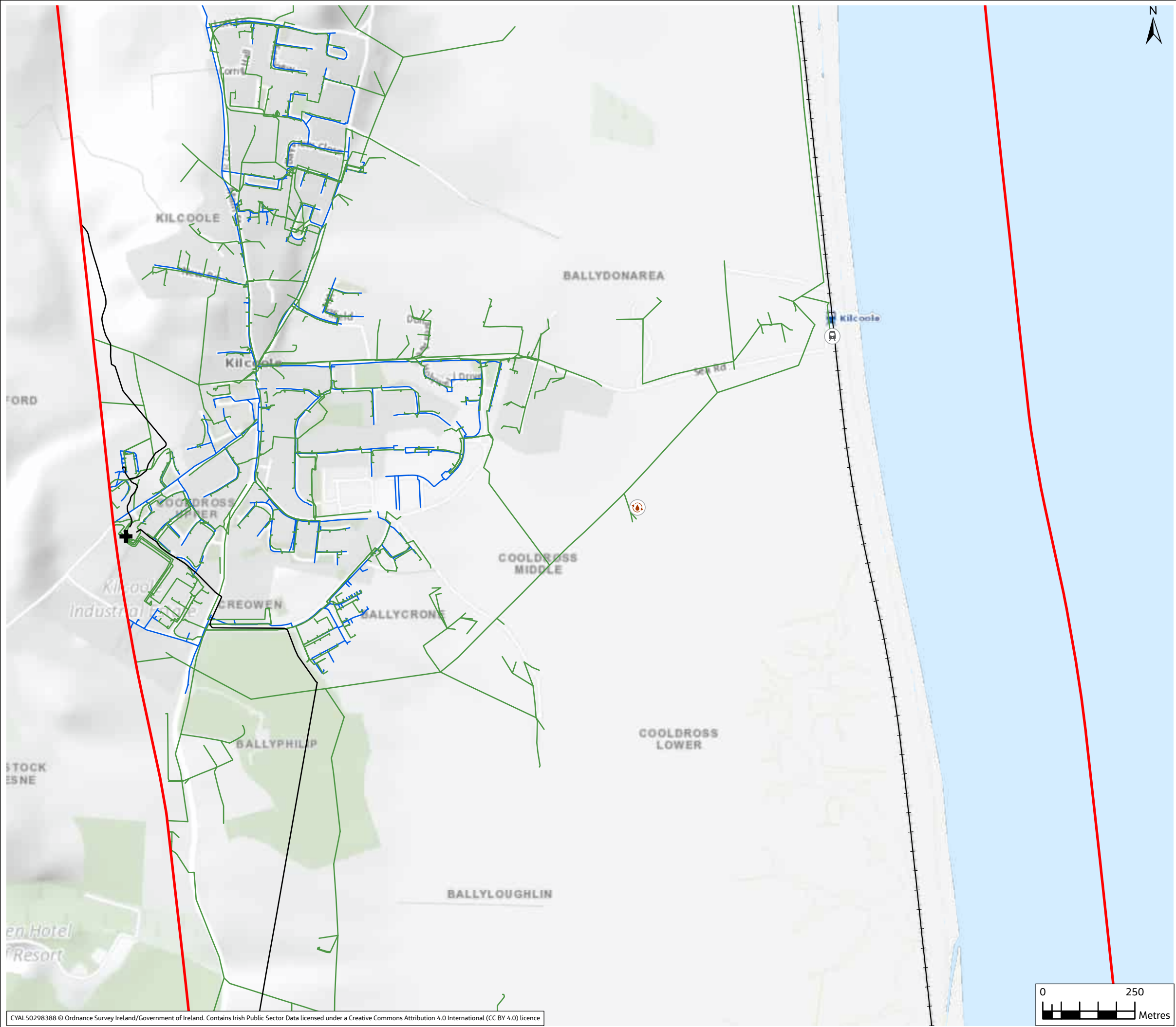
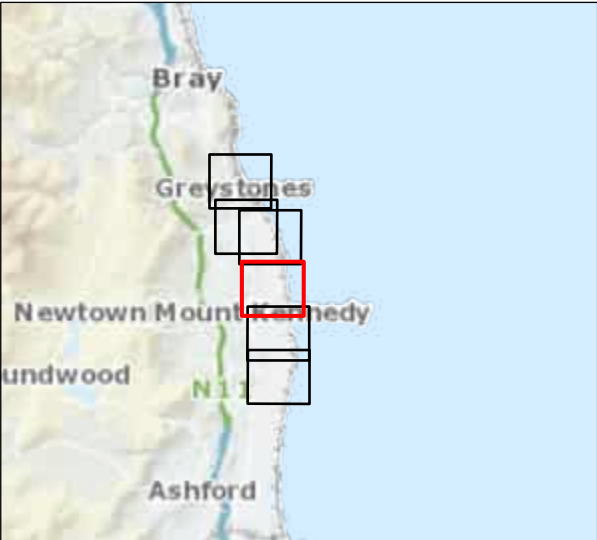


FIGURE 8.1

- Legend
- CCA6.1 Study Area
 - Railway Station
 - Railway Network Centreline
 - Wastewater Plant
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- MP



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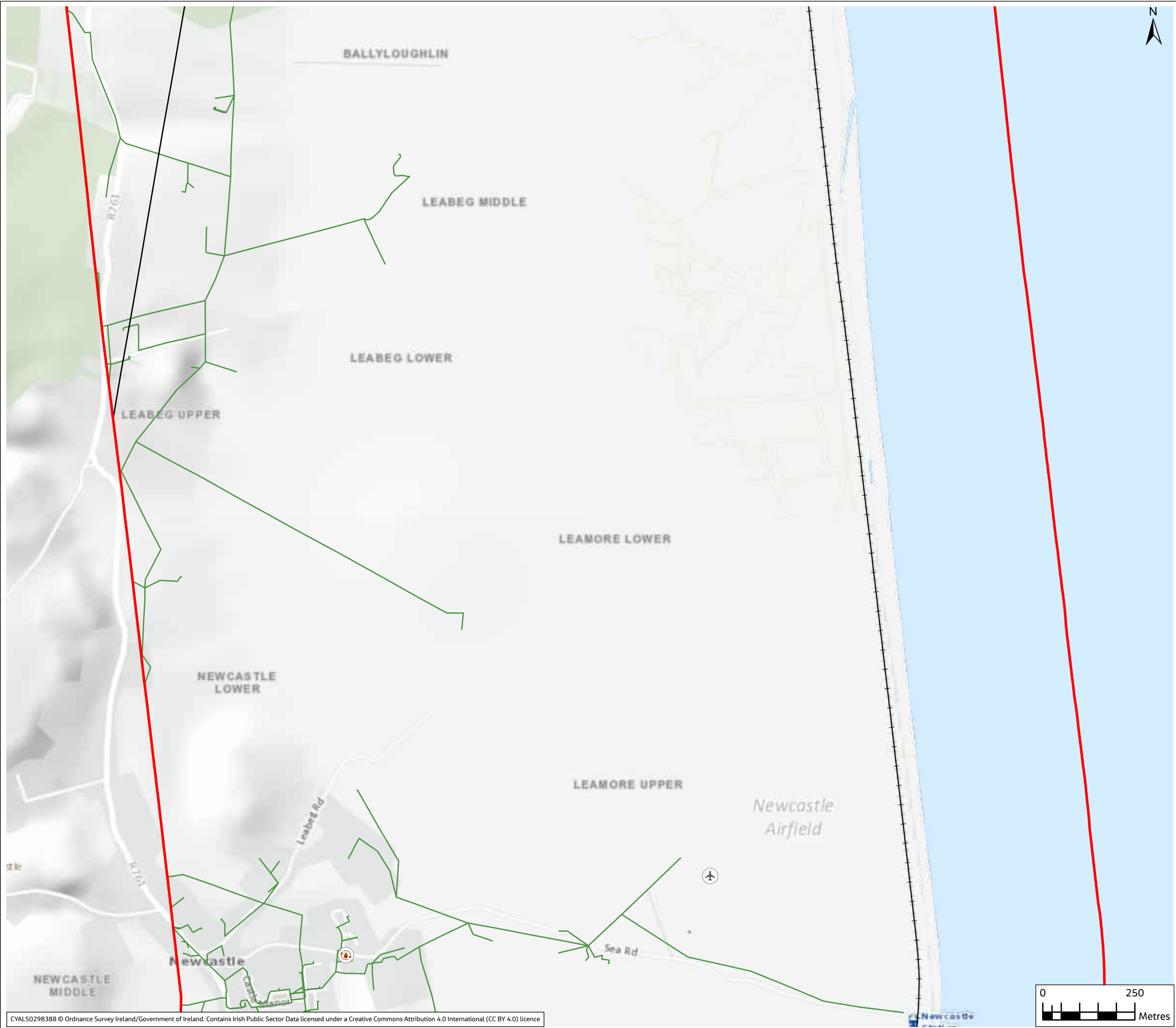
Figure 8.1
CCA6.1- Environmental Constraints - Material Assets
(Page 4 of 6)

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FIGURE 8.1

Legend

- CCA6.1 Study Area
- Railway Network Centreline
- Wastewater Plant
- Newcastle Aerodrome

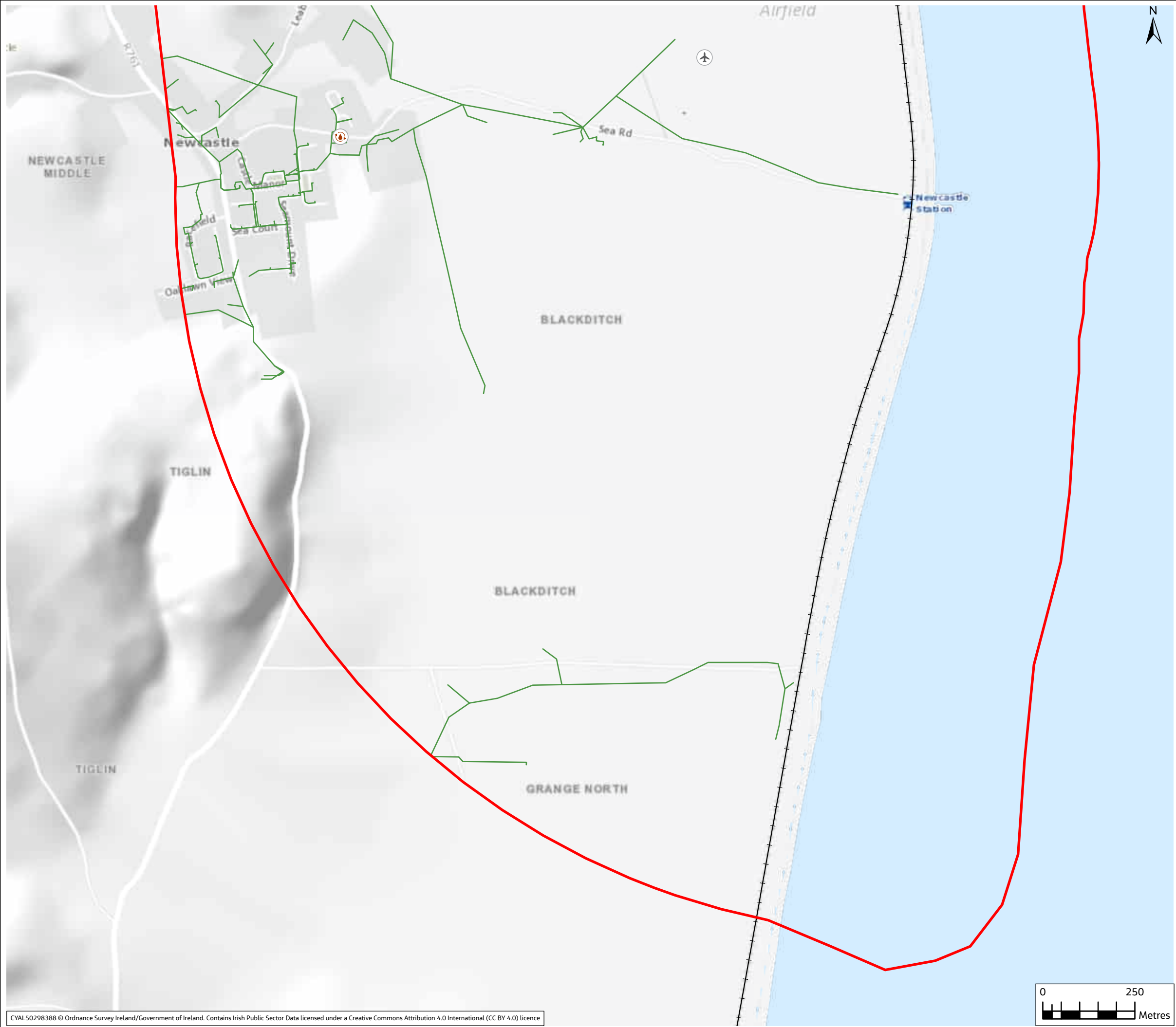
ESB Network

- High Voltage Station
- High Voltage
- Medium Voltage

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Figure 8.1 CCA6.1- Environmental Constraints - Material Assets (Page 5 of 6)						
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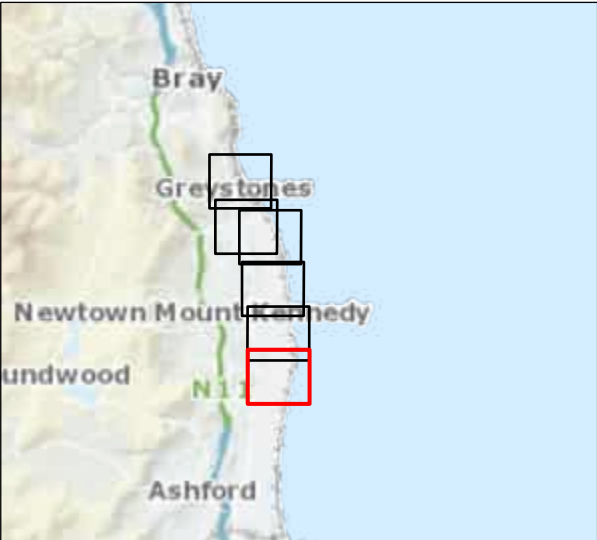
FIGURE 8.1

Legend

- CCA6.1 Study Area
- Railway Network Centreline
- Wastewater Plant
- Newcastle Aerodrome

ESB Network

- High Voltage Station
- High Voltage
- Medium Voltage



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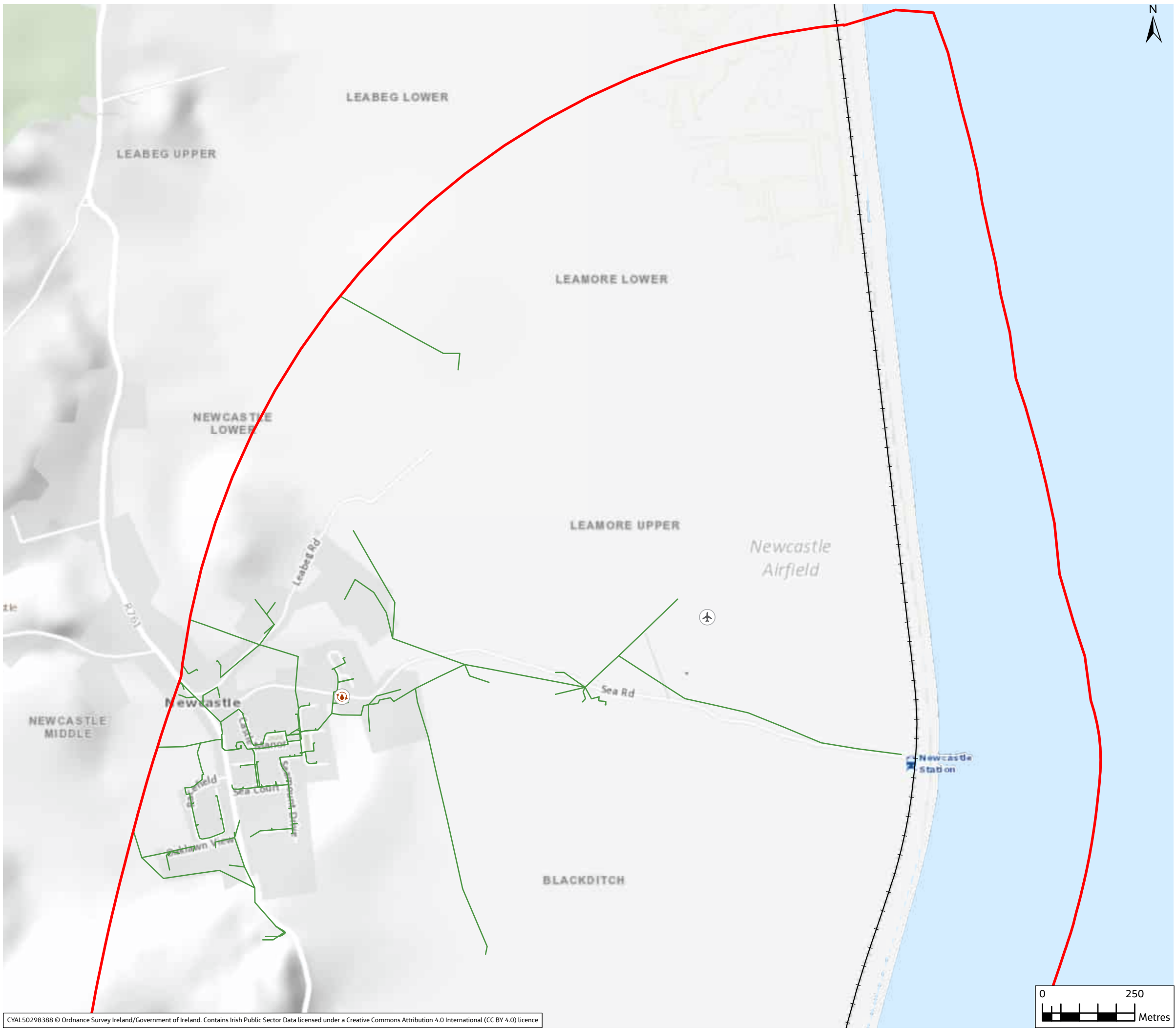
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Figure 8.1
CCA6.1- Environmental Constraints - Material Assets
(Page 6 of 6)

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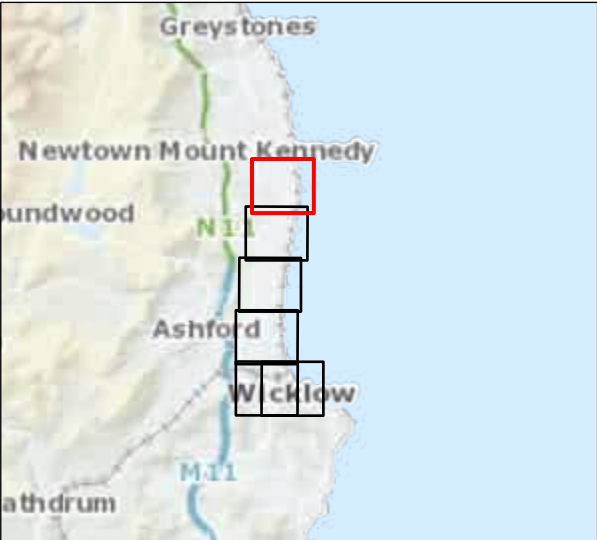
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FIGURE 8.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
 - Wastewater Plant
 - Newcastle Aerodrome
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage



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Figure 8.1
CCA6.2- Environmental Constraints - Material Assets
(Page 1 of 6)

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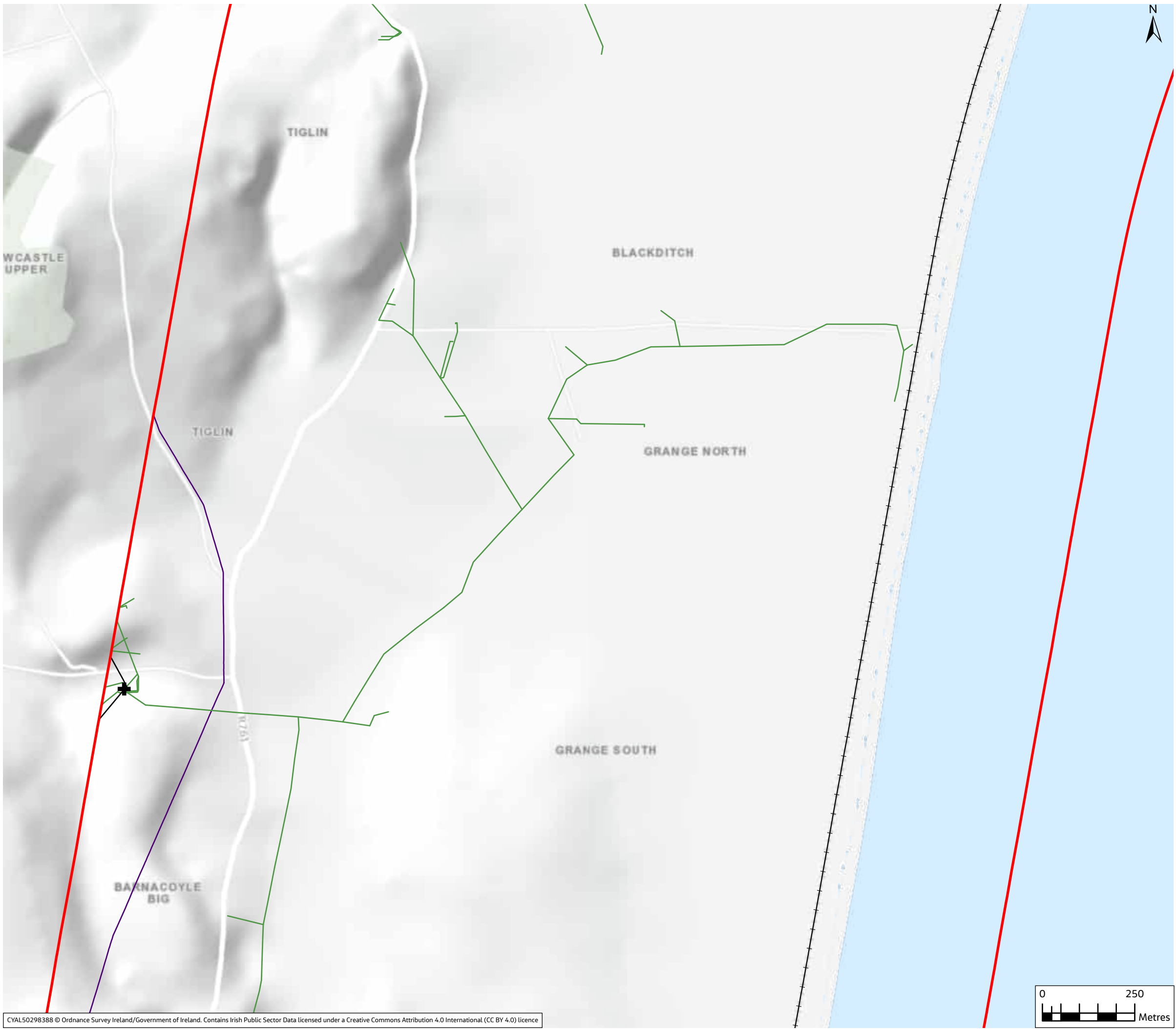
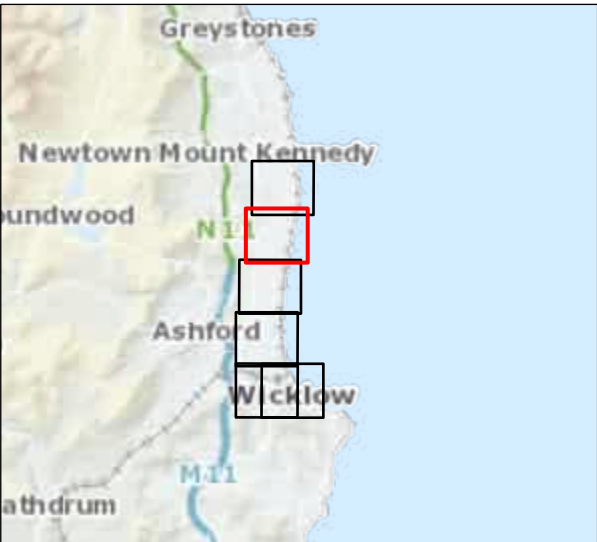


FIGURE 8.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
 - ESB Network
 - High Voltage Station
 - High Voltage
 - Medium Voltage
 - GNI Network
 - HP



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Figure 8.1
CCA6.2- Environmental Constraints - Material Assets
(Page 2 of 6)

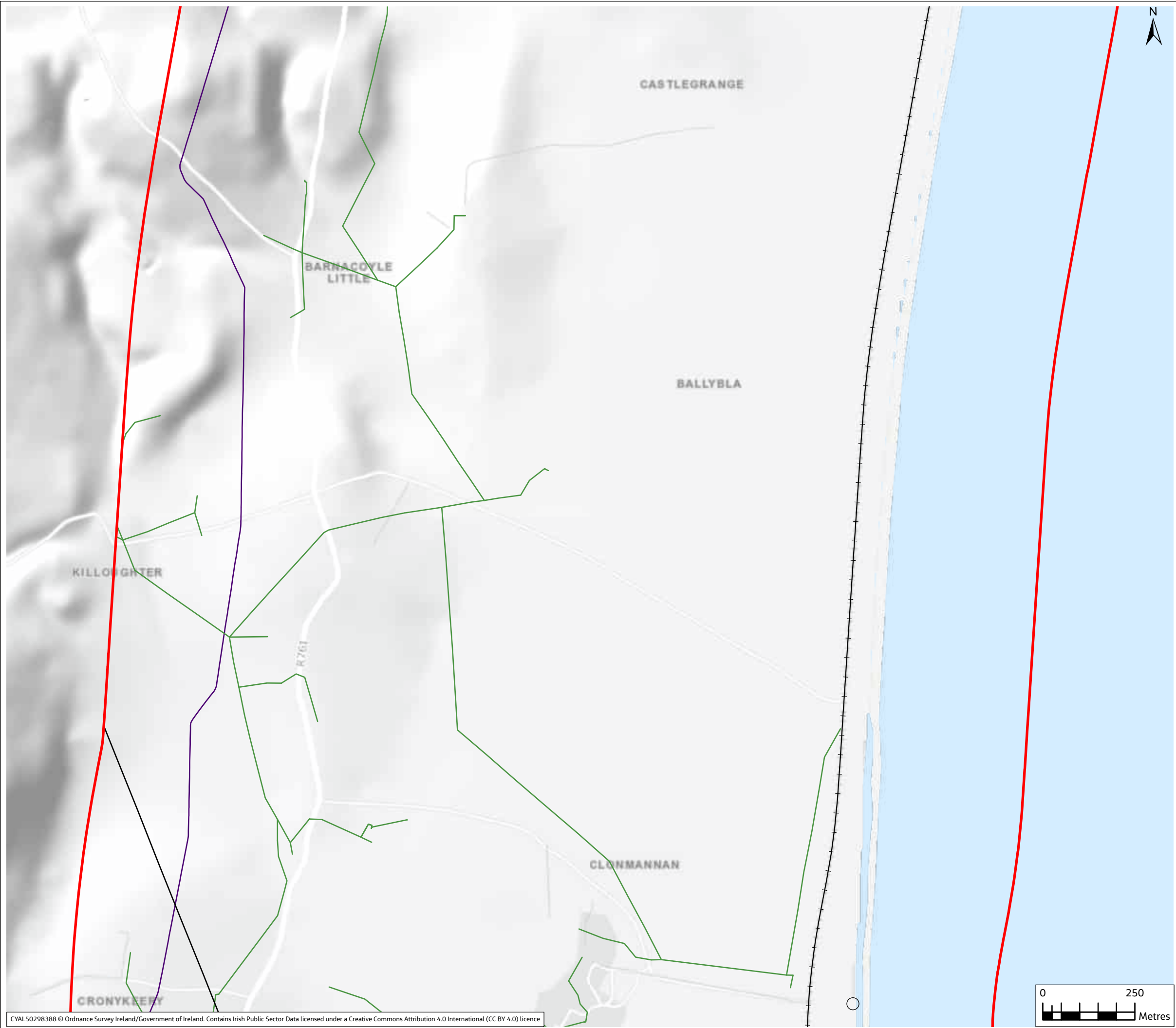
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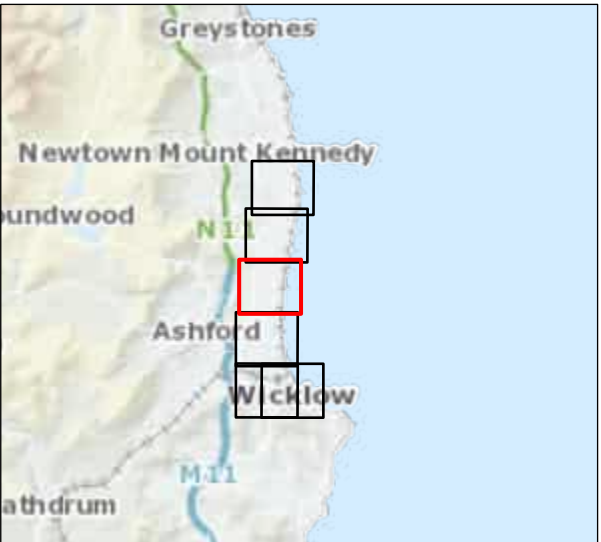
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FIGURE 8.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
 - WFD Section 4 Discharges
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- HP



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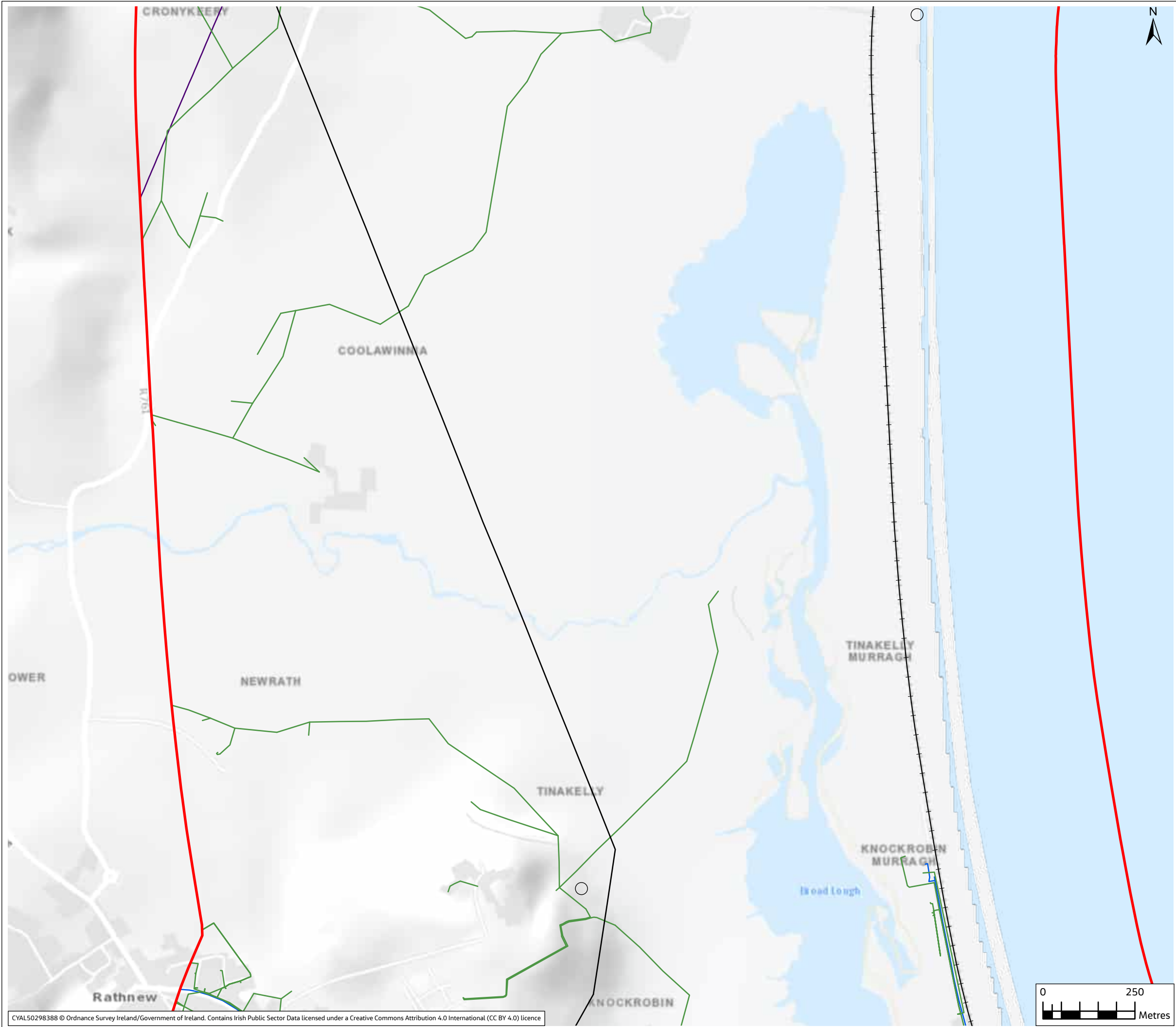
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Figure 8.1
CCA6.2- Environmental Constraints - Material Assets
(Page 3 of 6)

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FIGURE 8.1

- Legend
- CCA6.2 Study Area
 - Railway Network Centreline
 - WFD Section 4 Discharges
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- HP
 - MP



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Figure 8.1
CCA6.2- Environmental Constraints - Material Assets
(Page 4 of 6)

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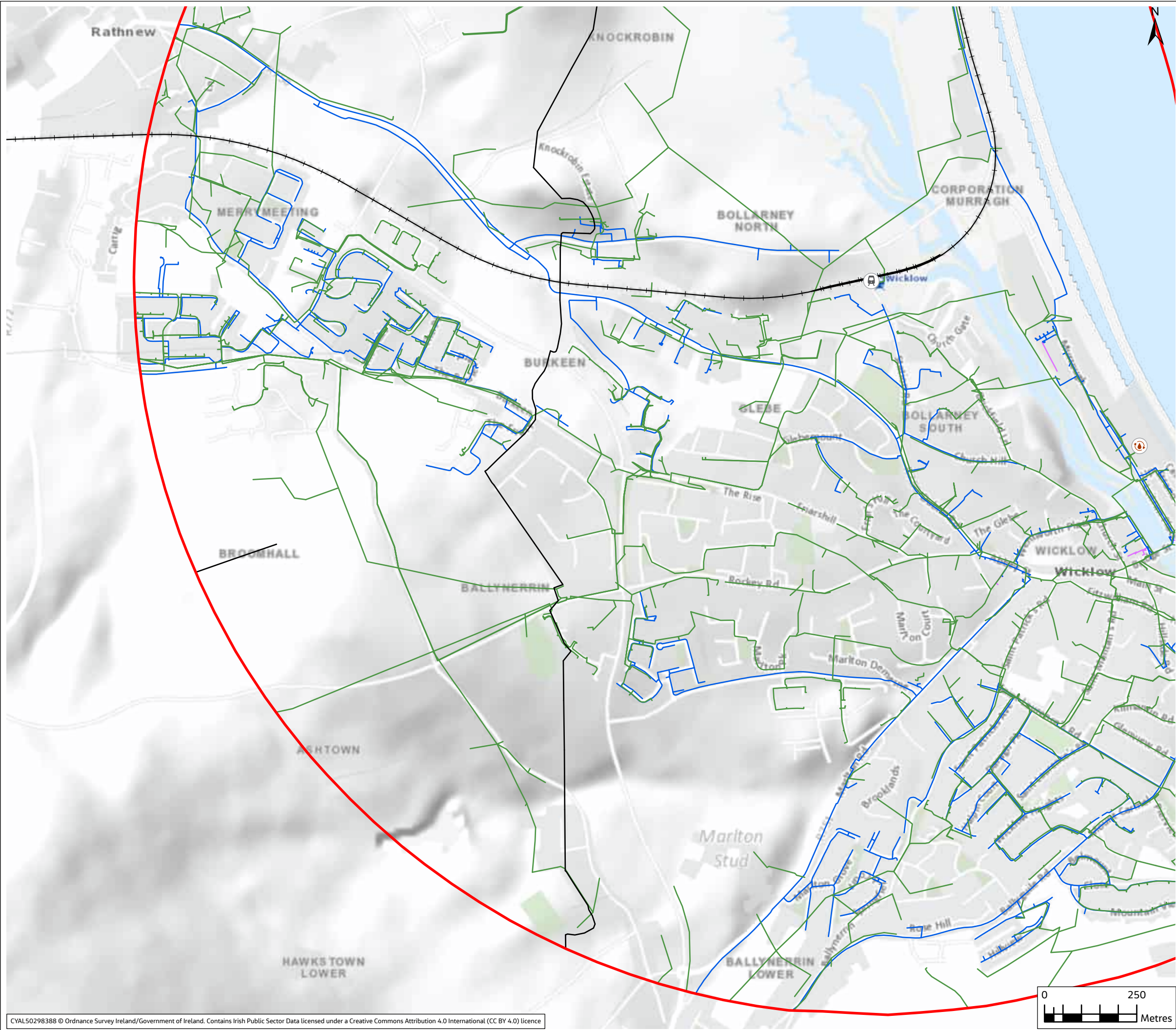


FIGURE 8.1

- Legend
- CCA6.2 Study Area
 - Railway Station
 - Railway Network Centreline
 - Wastewater Plant
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- MP
 - LP



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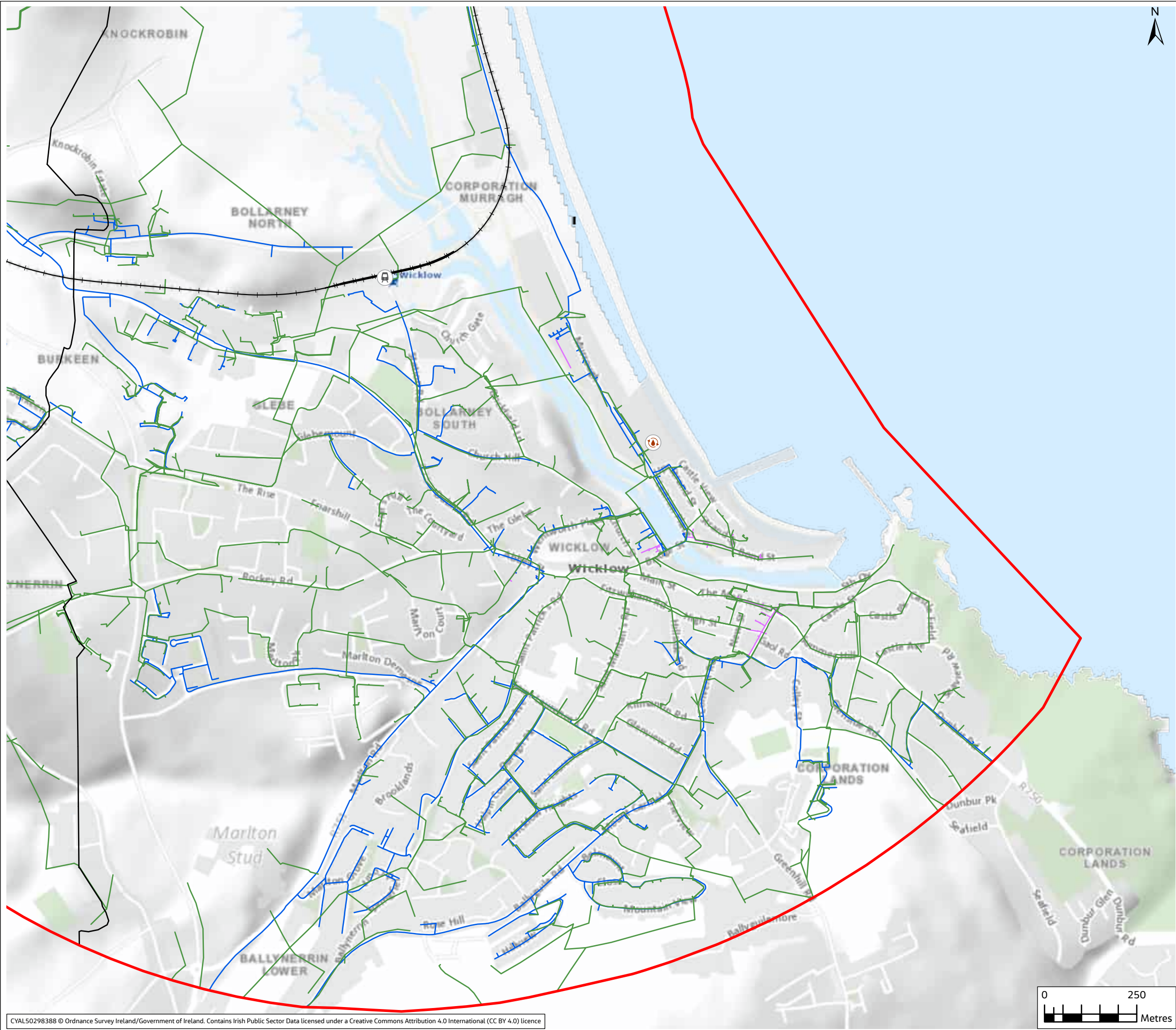
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CCA6.2- Environmental Constraints - Material Assets
(Page 5 of 6)

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FIGURE 8.1

- Legend
- CCA6.2 Study Area
 - Railway Station
 - Railway Network Centreline
 - Wastewater Plant
- ESB Network
- High Voltage Station
 - High Voltage
 - Medium Voltage
- GNI Network
- MP
 - LP



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Figure 8.1
CCA6.2- Environmental Constraints - Material Assets
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