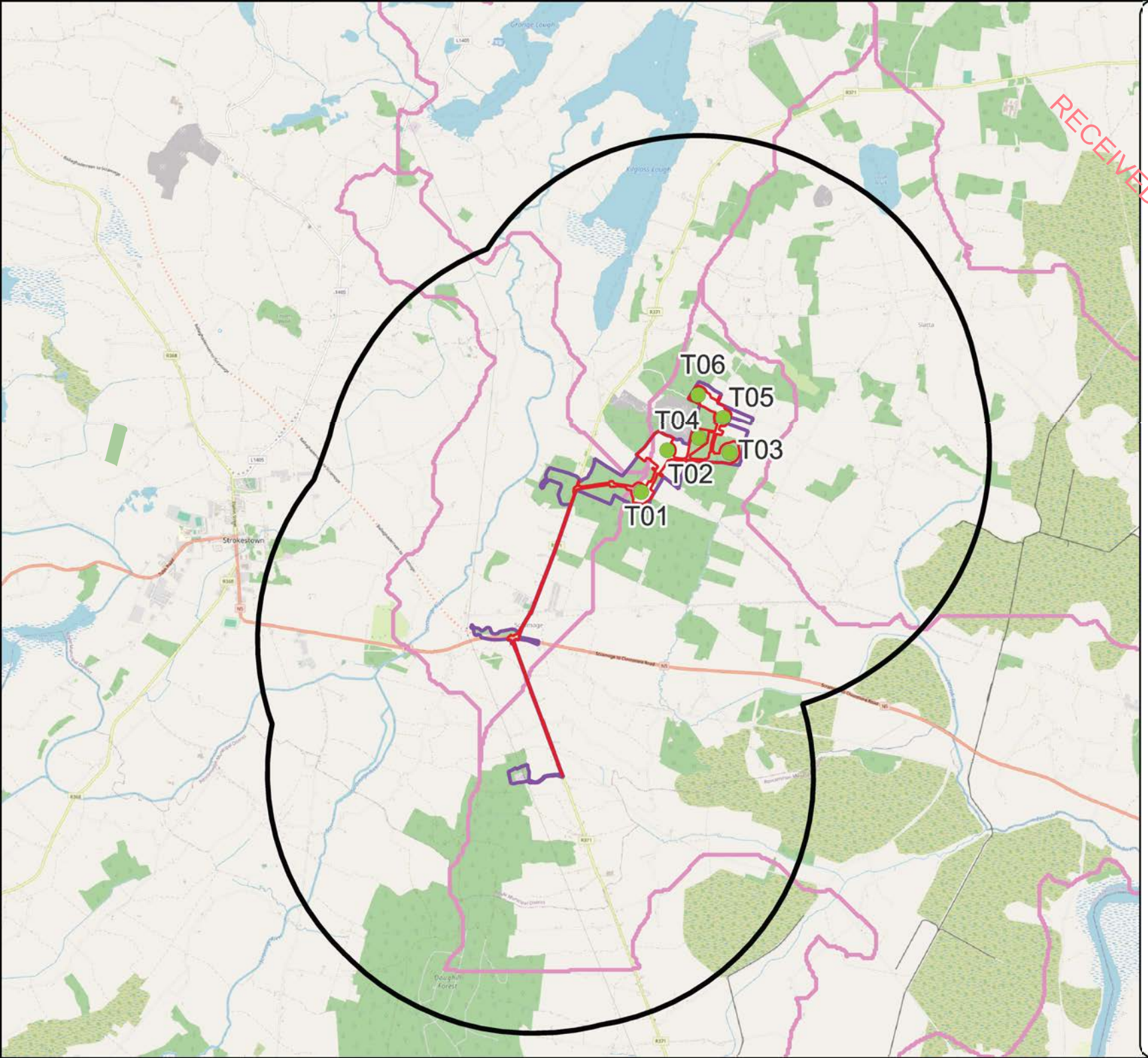




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Study Area

Legend

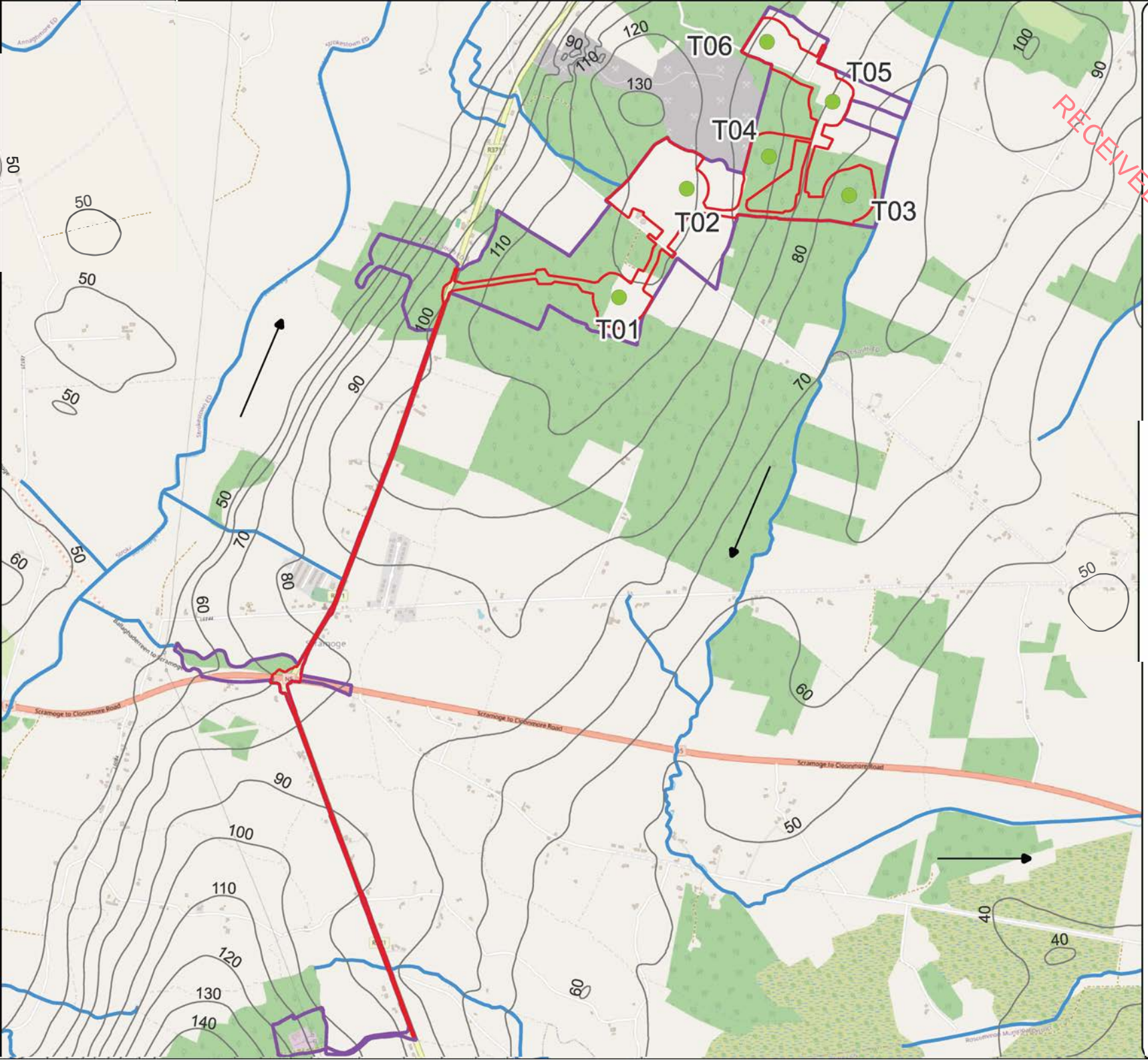
- Redline Boundary
- EIA Study Area
- Turbine Location
- 3km Buffer
- WFD River Sub-Basin

0 1 2 3 km

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EIAR Figure 8-1





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Topography of Surrounding Area

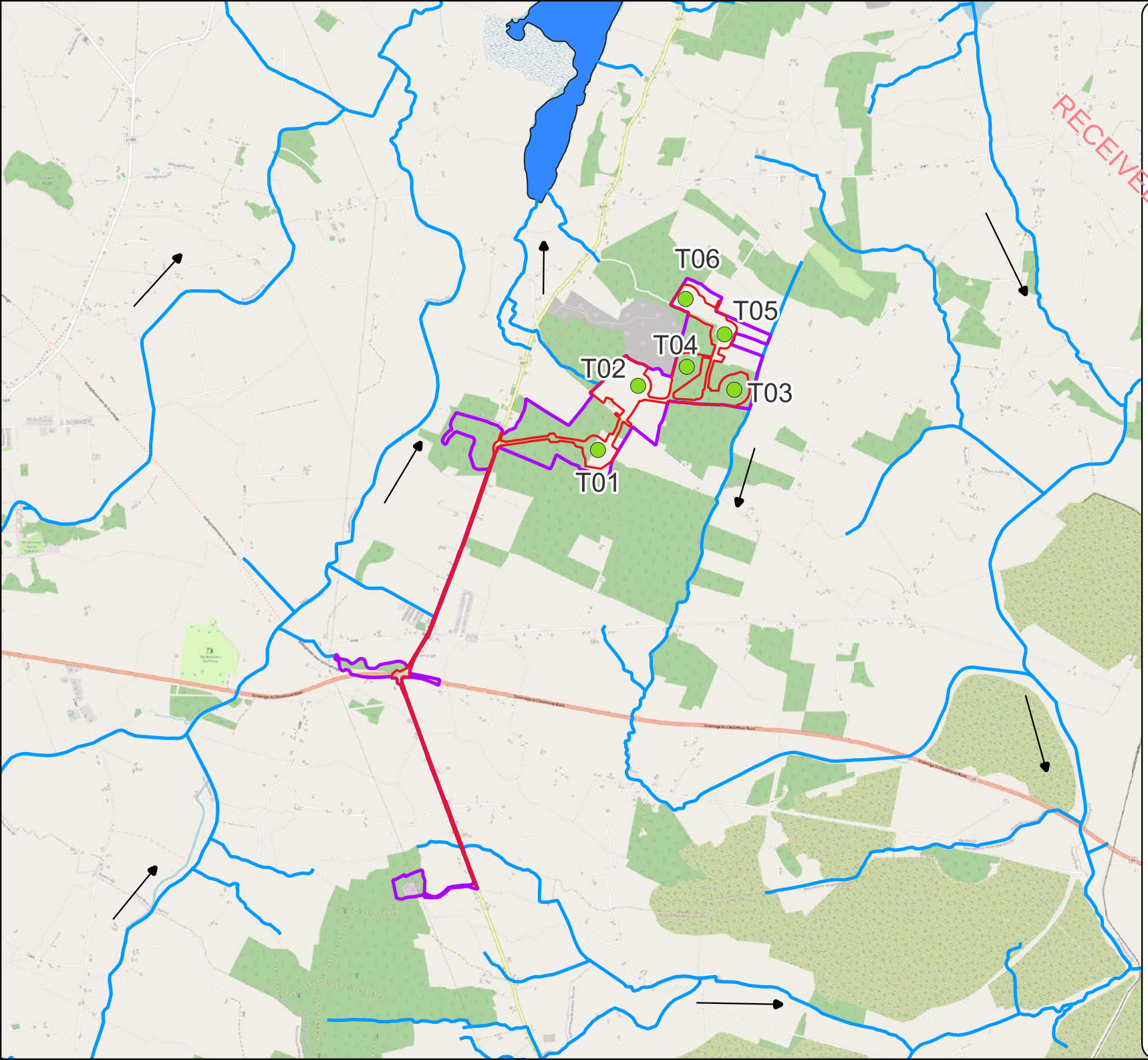
Legend

- Redline Boundary
- EIA Study Area
- Turbine Location
- Contours
- WFD River
- River Flow Direction

0 0.3 0.6 0.9 km

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Site Location

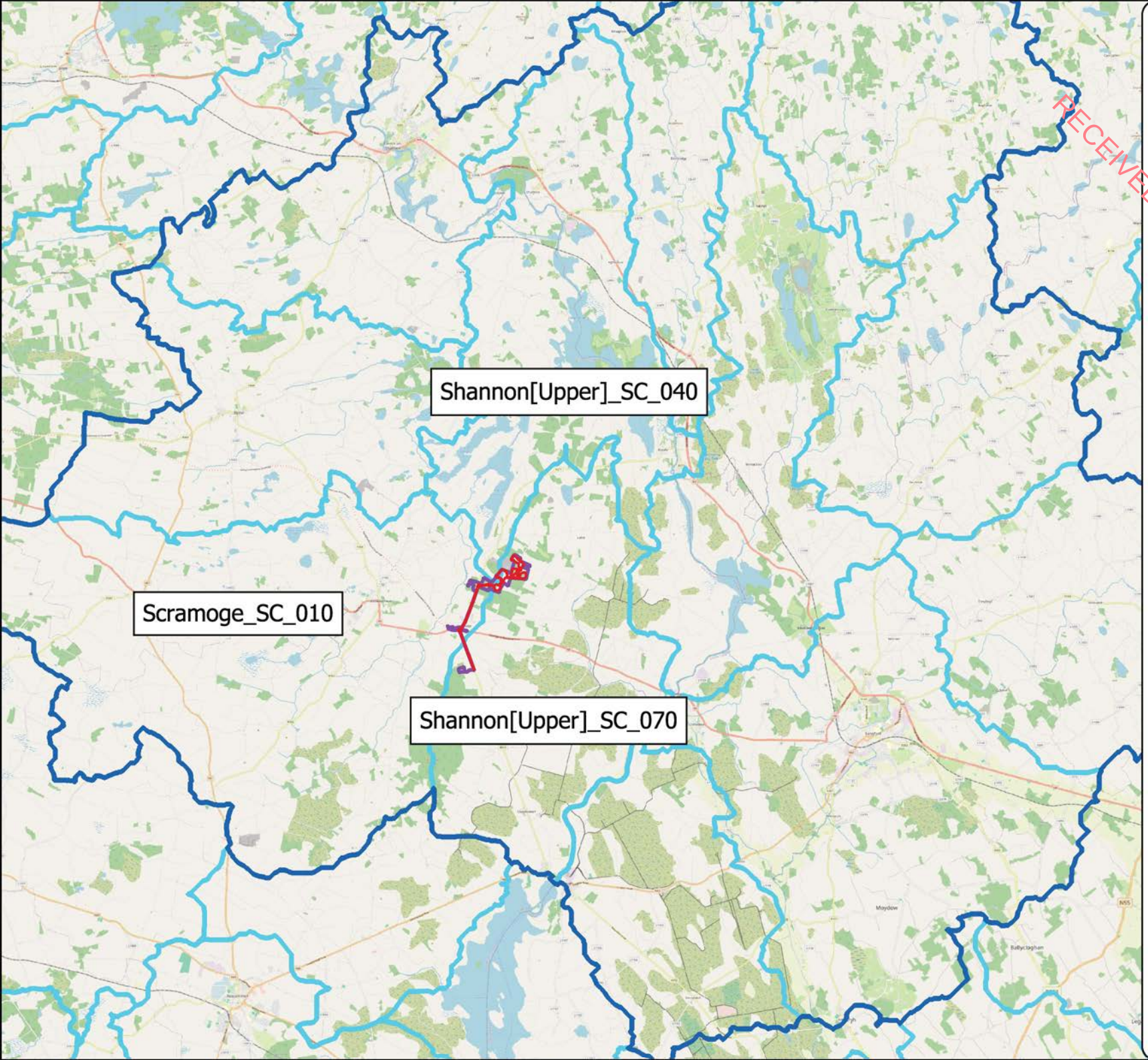
Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- WFD River
- WFD Lake
- River Flow Direction

0 0.6 1.2 1.8 km

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WFD Catchments

Legend

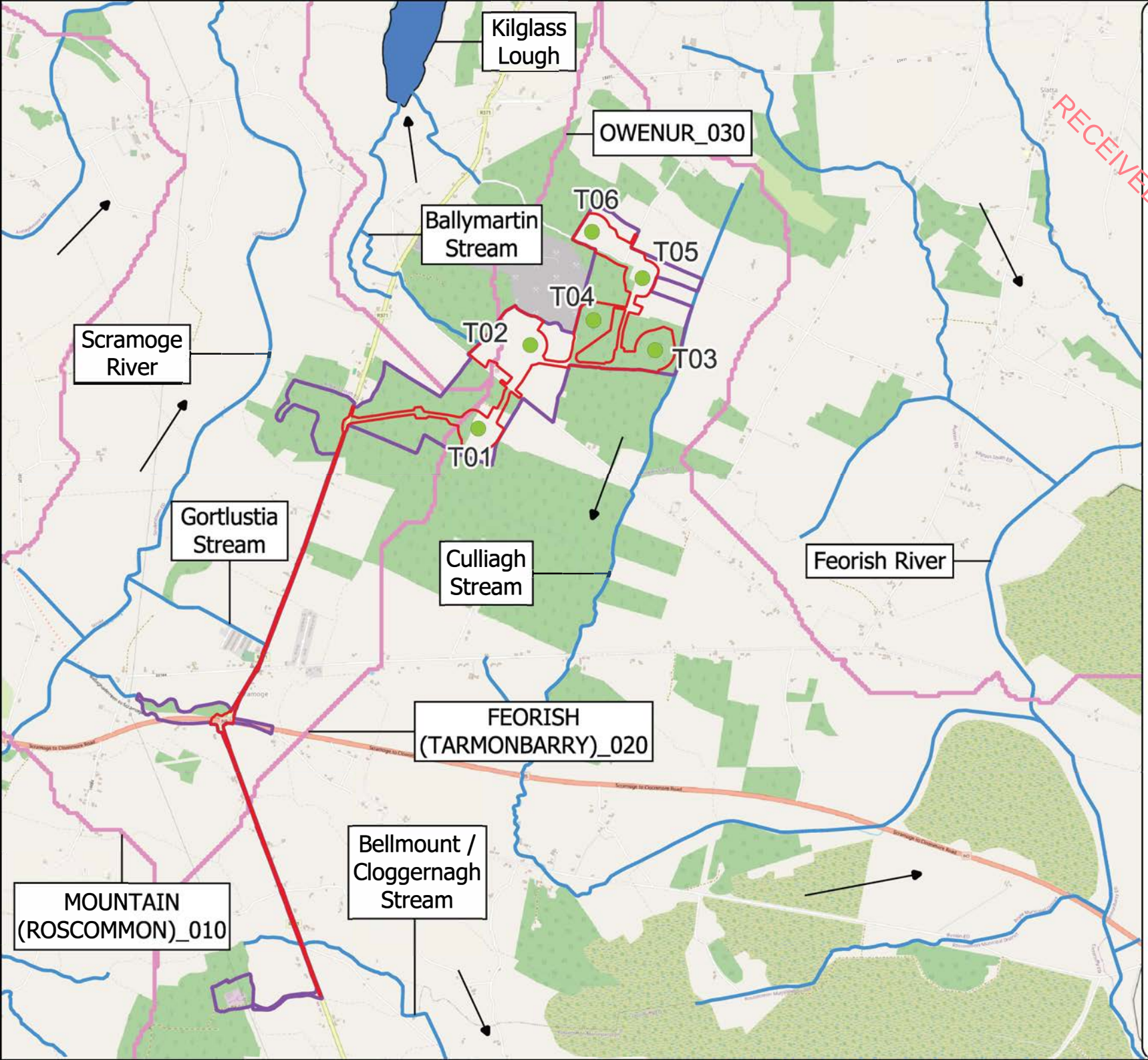
- Redline Boundary
- EIA Study Area
- Upper Shannon WFD Catchment
- WFD Sub-Catchment

0 3 6 9 km

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EIAR Figure 8-5





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Surface Water Features

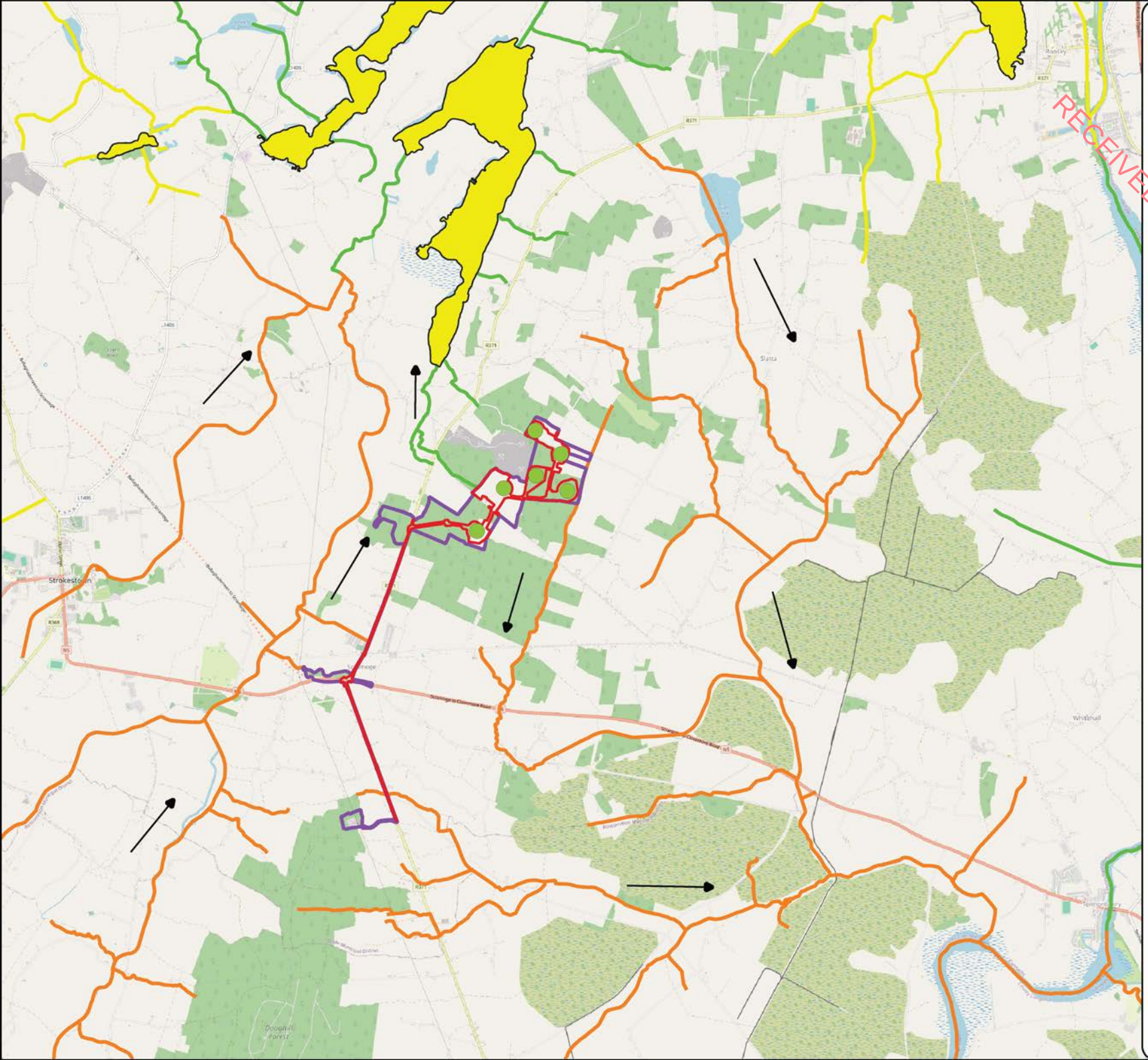
Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- WFD River
- WFD River Sub-Basin
- WFD Lake
- River Flow Direction

0 0.5 1 1.5 km

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EIAR Figure 8-6



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WFD Waterbody Status

Legend

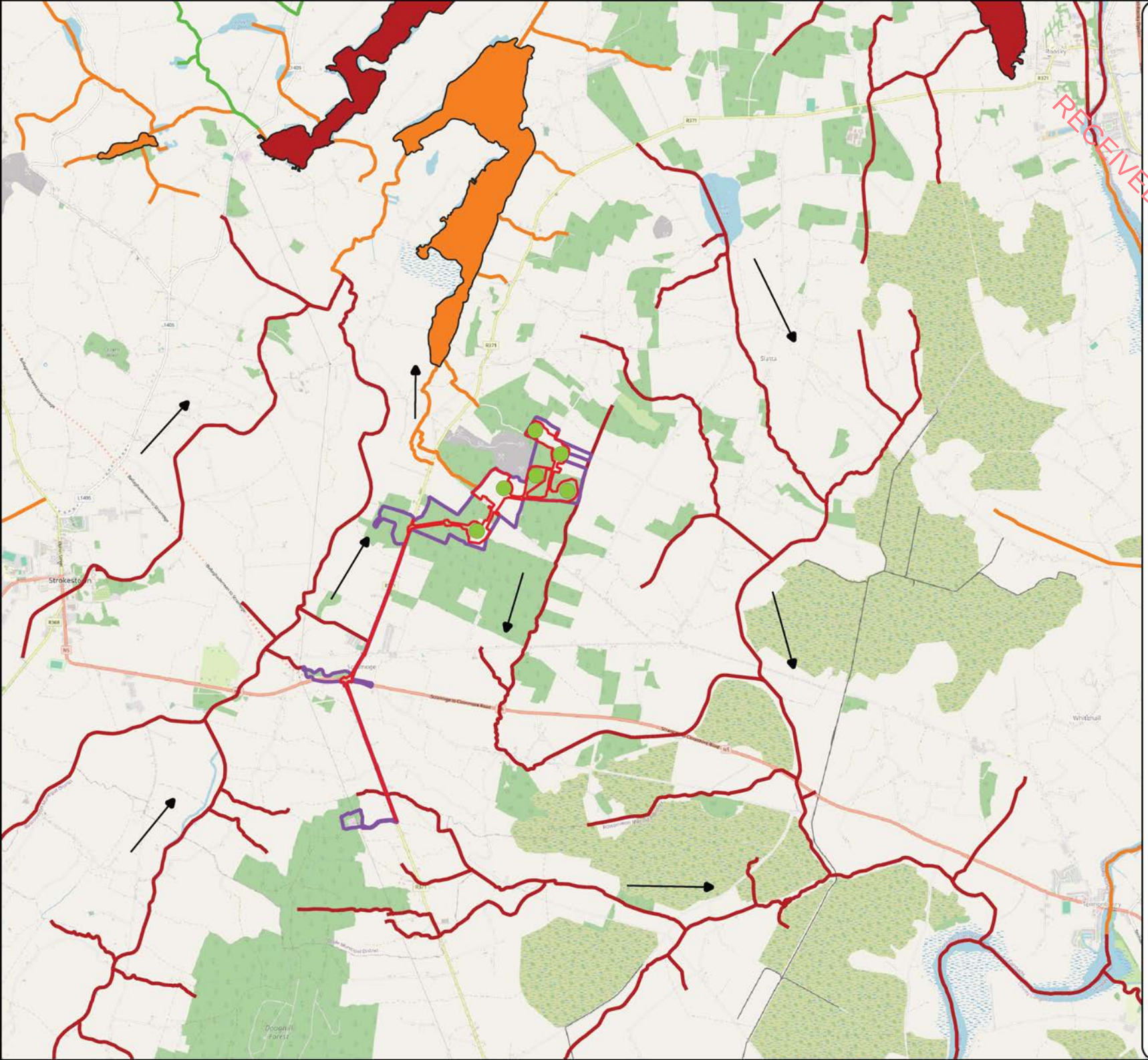
- Redline Boundary
- EIA Study Area
- Wind Turbine
- WFD Good Status
- WFD Moderate Status
- WFD Poor Status
- River Flow Direction

0 0.9 1.8 2.7 km

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WFD Risk Status

Legend

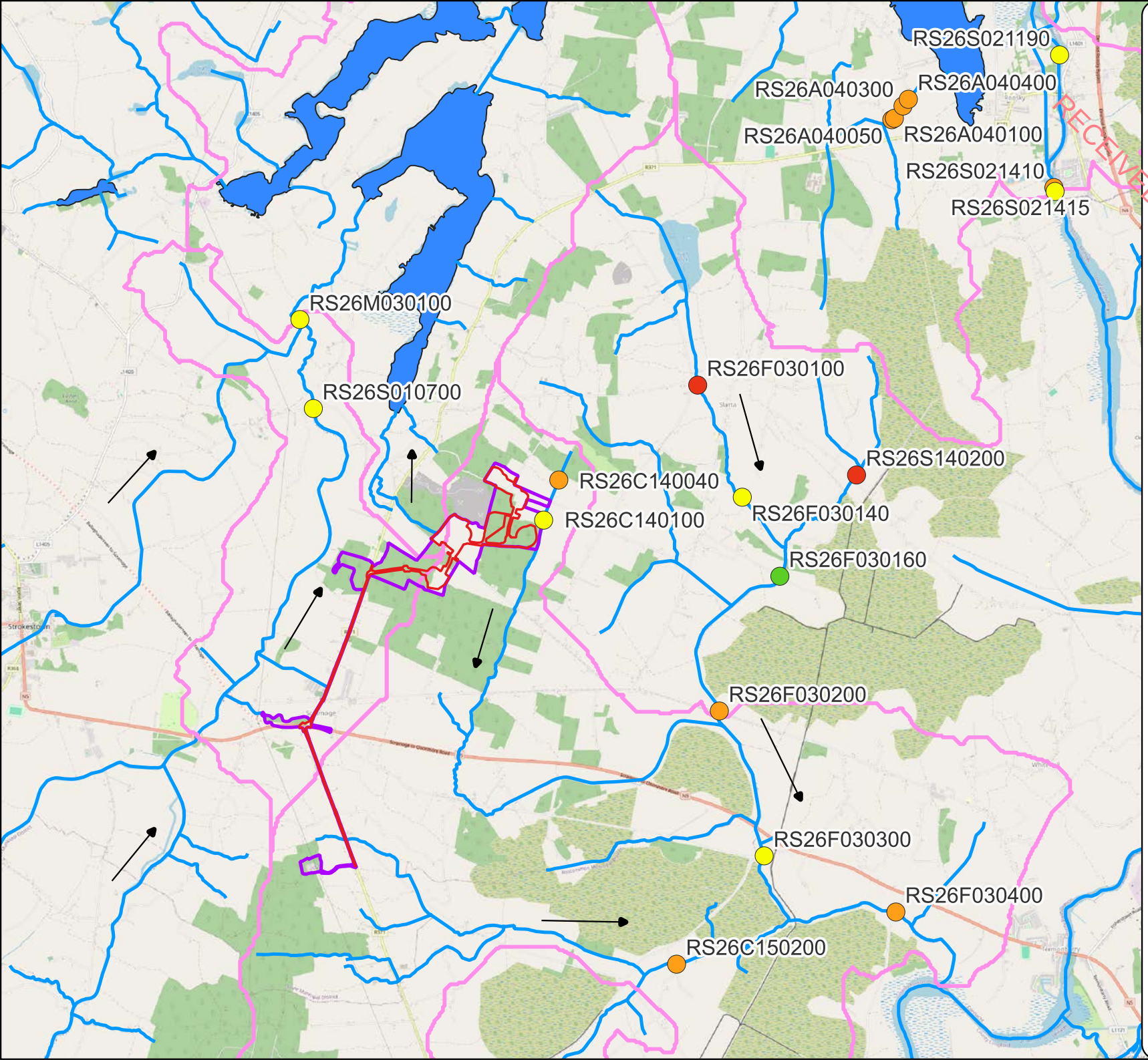
- Redline Boundary
- EIA Study Area
- Wind Turbine
- WFD 'At Risk' Status
- WFD 'Review' Status
- WFD 'Not at Risk' Status
- River Flow Direction

0 0.9 1.8 2.7 km

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EIAR Figure 8-8



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EPA Q Values

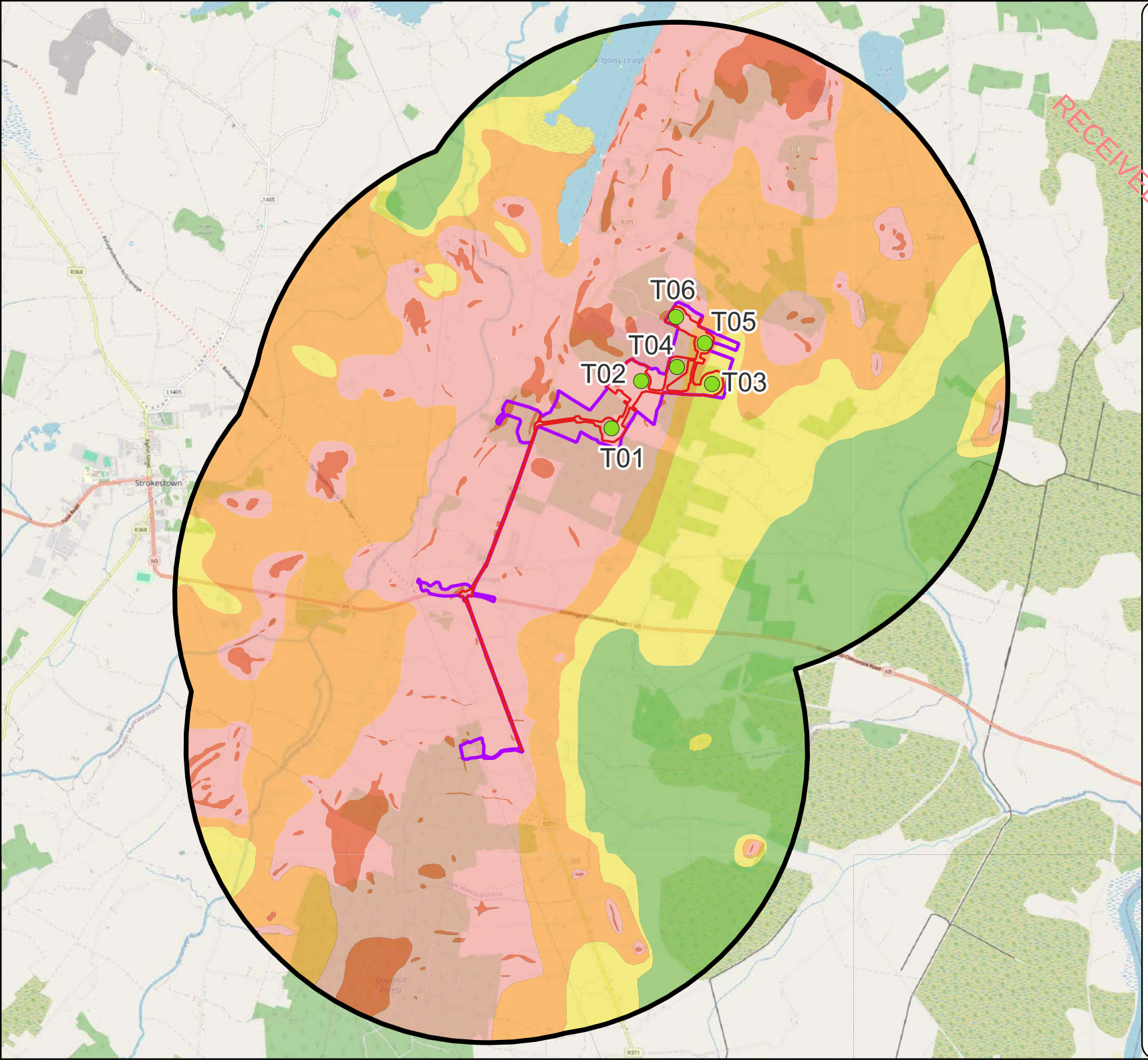
Legend

- Redline Boundary
- EIA Study Area
- WFD River
- WFD Lake
- WFD River Sub-Basin
- Q4 Good
- Q3-4 Moderate
- Q3-2 Poor
- Q2-1 Bad
- River Flow Direction

0 0.9 1.8 2.7 km

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EIAR Figure 8-9



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GSI Groundwater Vulnerability

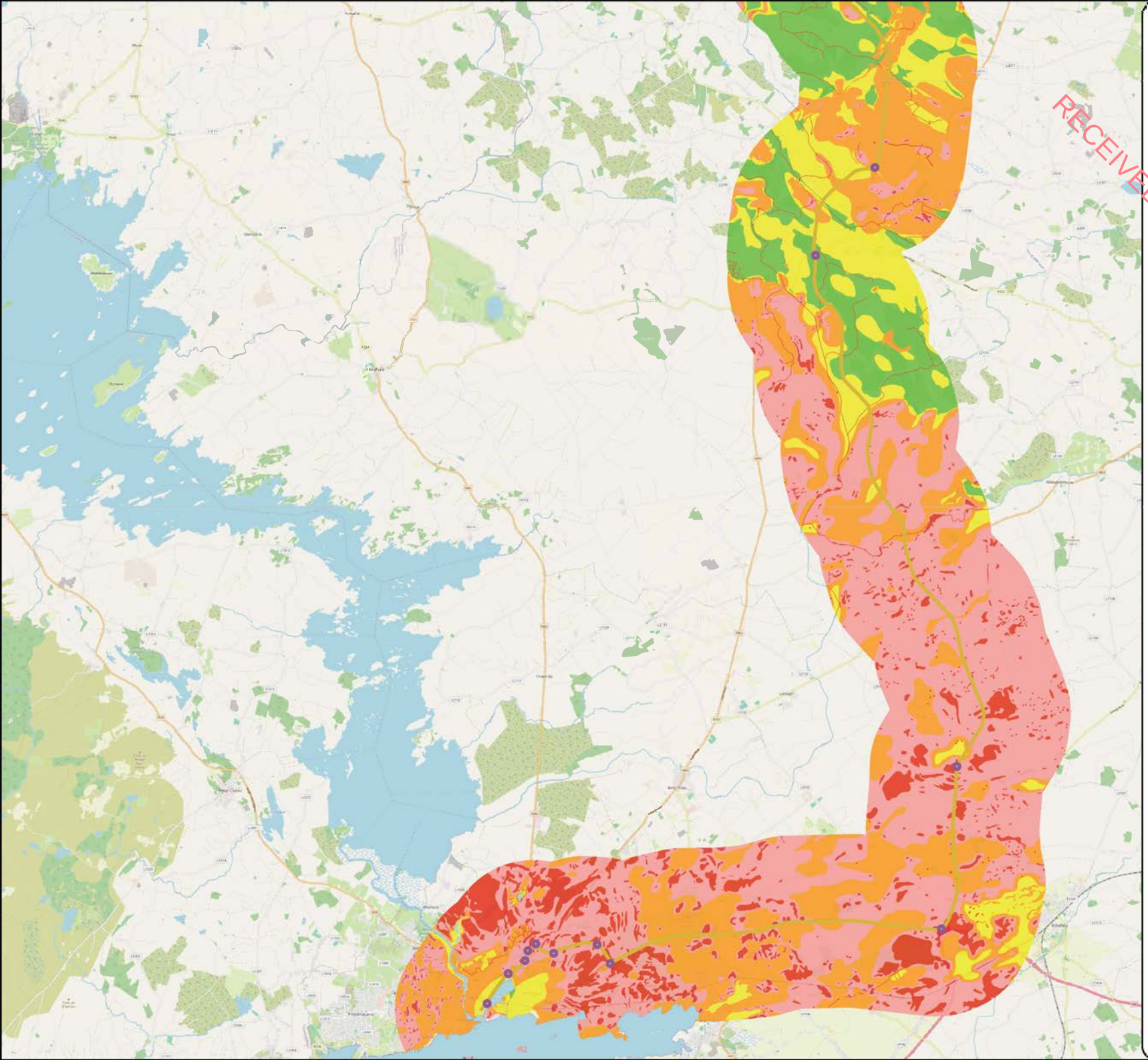
Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- 3km Buffer
- Rock at or near Surface or Karst
- Extreme
- High
- Moderate
- Low

0 0.8 1.6 2.4 km

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EIAR Figure 8-10





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GSI Groundwater Vulnerability - Section 1 of Turbine Delivery Route

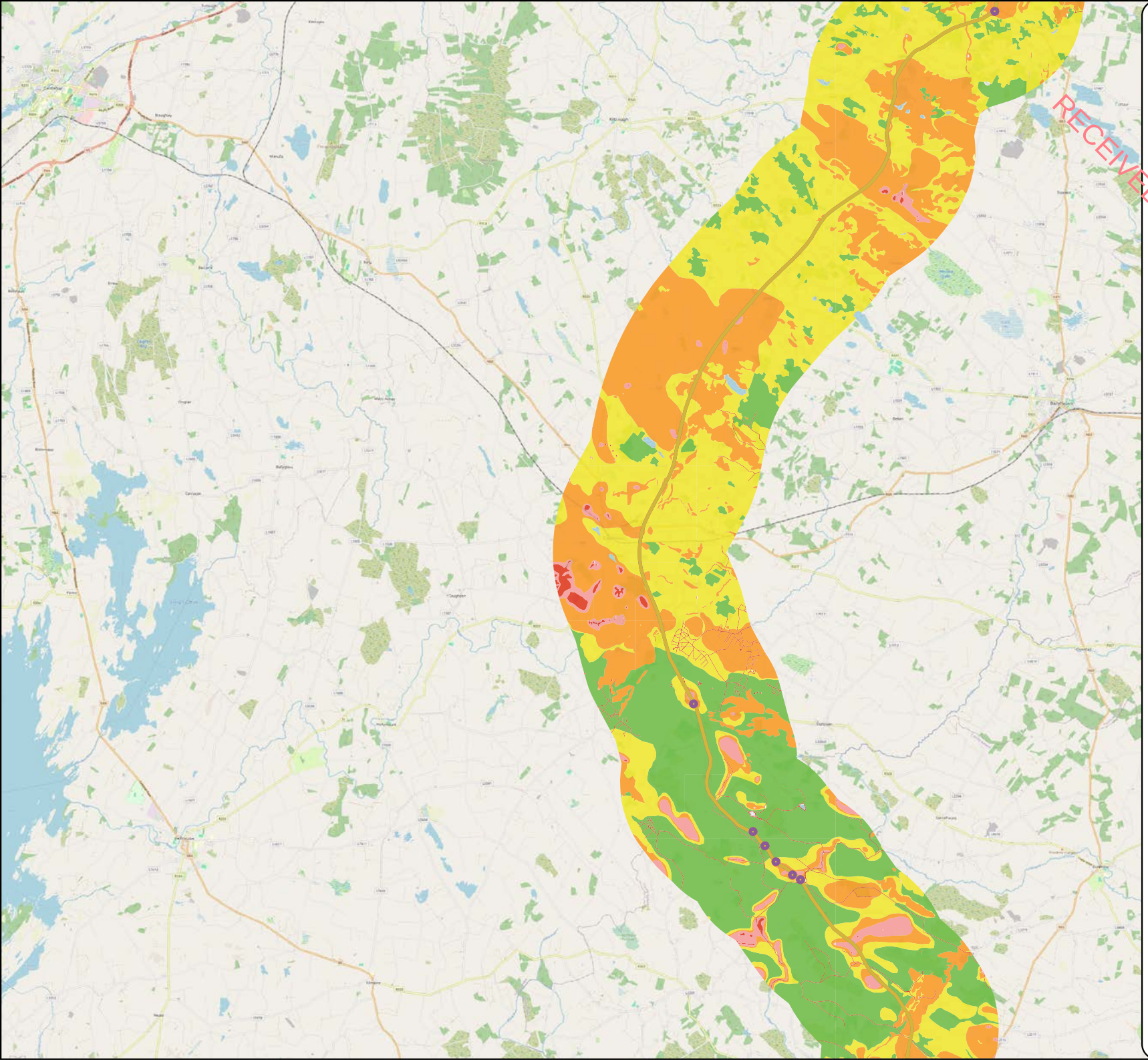
Legend

- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- Rock at or near Surface or Karst
- Extreme
- High
- Moderate
- Low

0 2 4 6 km

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EIAR Figure 8-11





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GSI Groundwater Vulnerability - Section 2 of Turbine Delivery Route

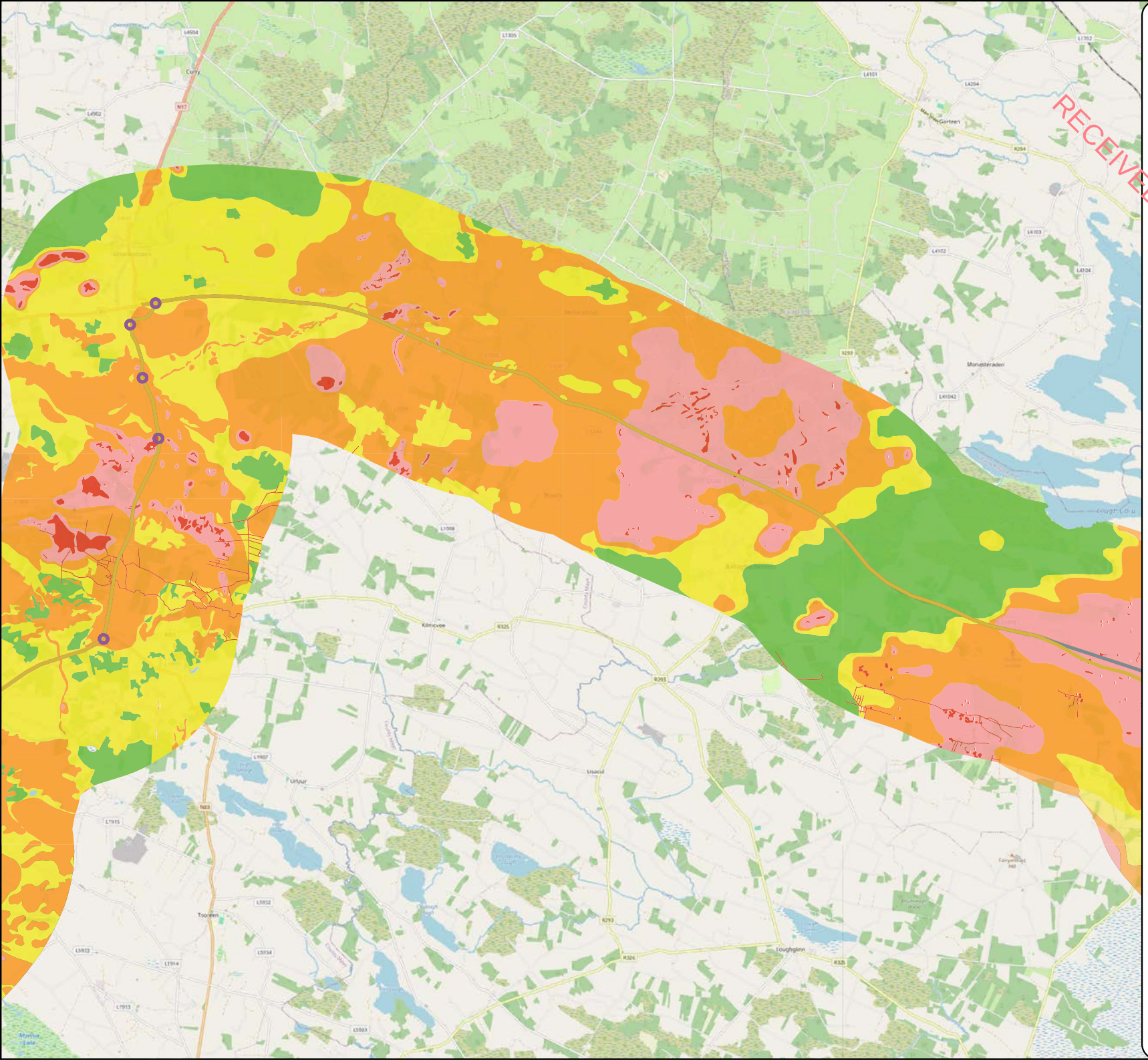
Legend

- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- Rock at or near Surface or Karst
- Extreme
- High
- Moderate
- Low

0 2 4 6 km

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EIAR Figure 8-12





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GSI Groundwater Vulnerability - Section 3 of Turbine Delivery Route

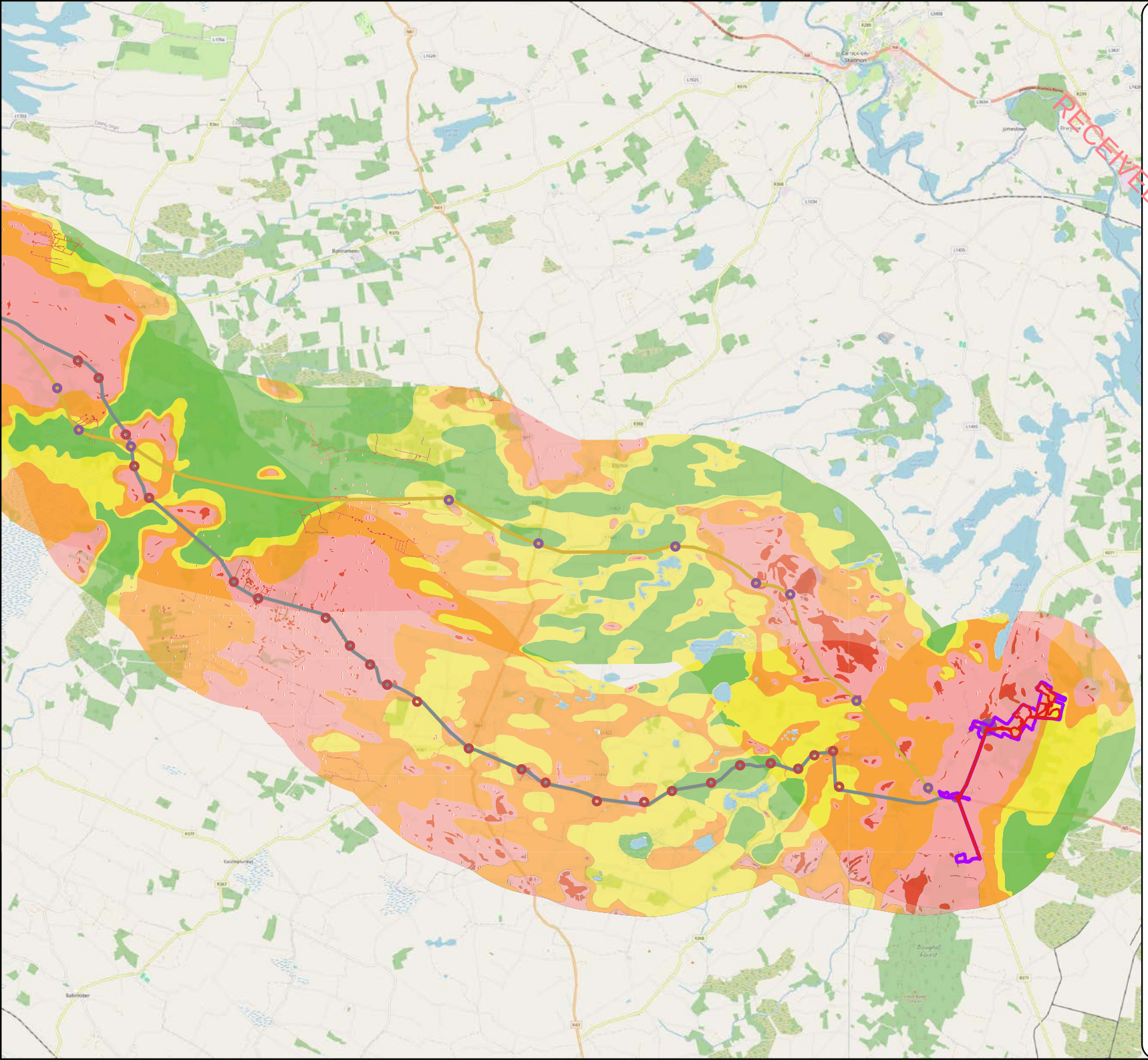
Legend

- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- Rock at or near Surface or Karst
- Extreme
- High
- Moderate
- Low

0 1 2 3 km

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EIAR Figure 8-13





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GSI Groundwater Vulnerability - Section 4 of Turbine Delivery Route

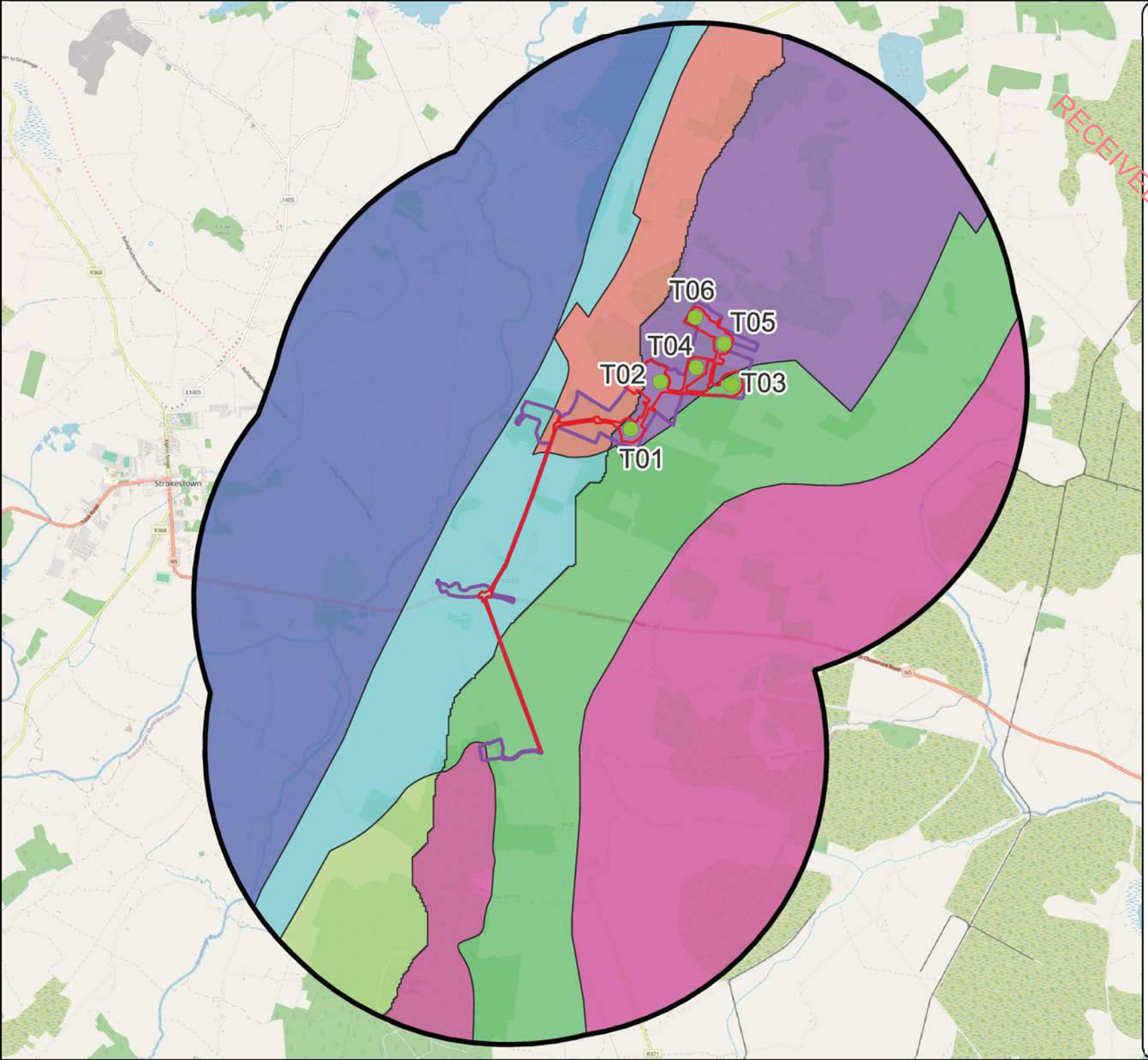
Legend

- Redline Boundary
- EIA Study Area
- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- Rock at or near Surface or Karst
- Extreme
- High
- Moderate
- Low

0 2 4 6 km

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WFD Groundwater Bodies

Legend

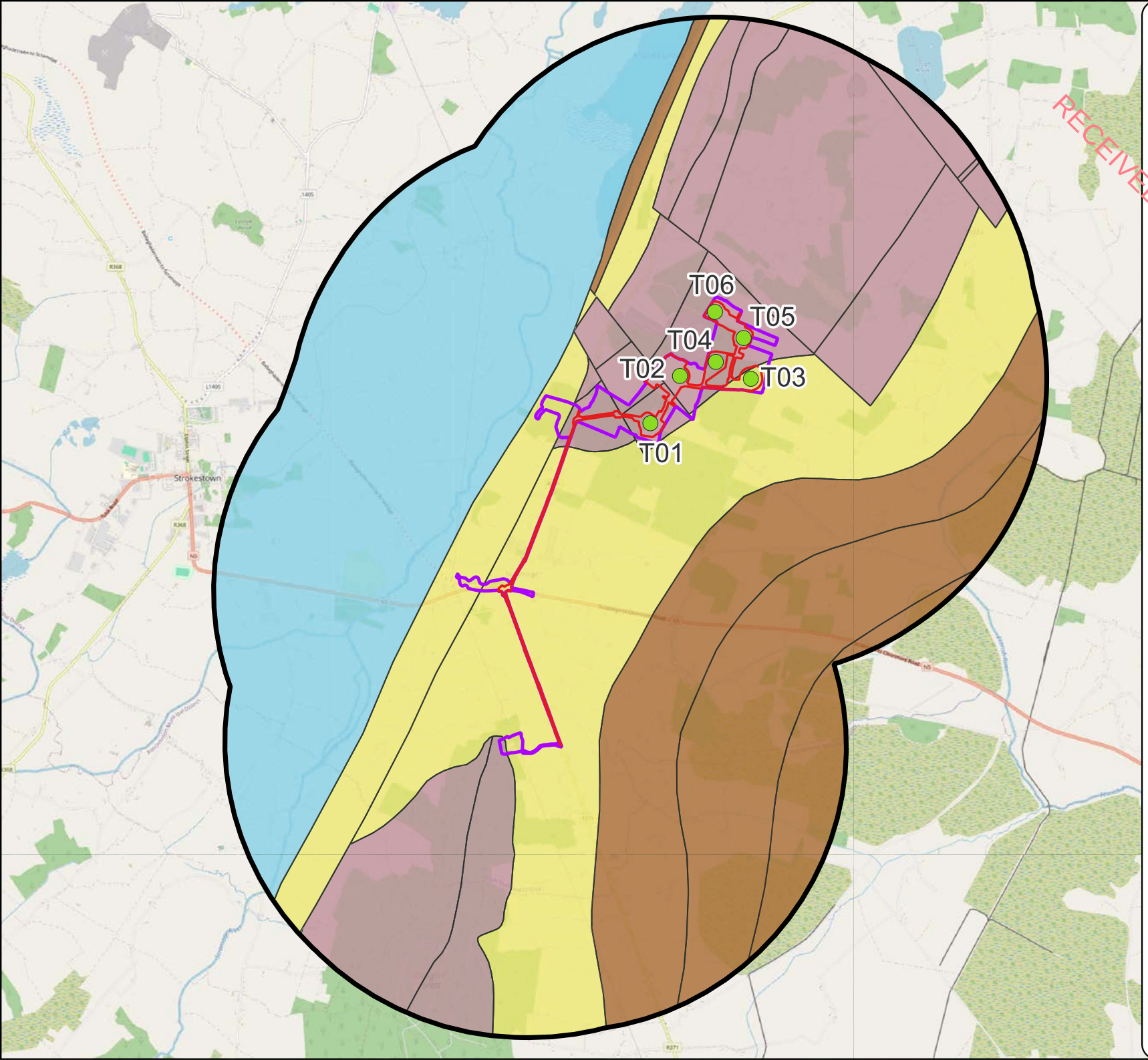
- Redline Boundary
- EIA Study Area
- Wind Turbine
- 3km Buffer
- Carrick on Shannon
- Curraghroe
- Kilglass Dromod
- Lough Ackrick
- Scramoge North
- Scramoge South
- Slieve Bawn Telton

0 0.8 1.6 2.4 km

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GSI Bedrock Aquifer

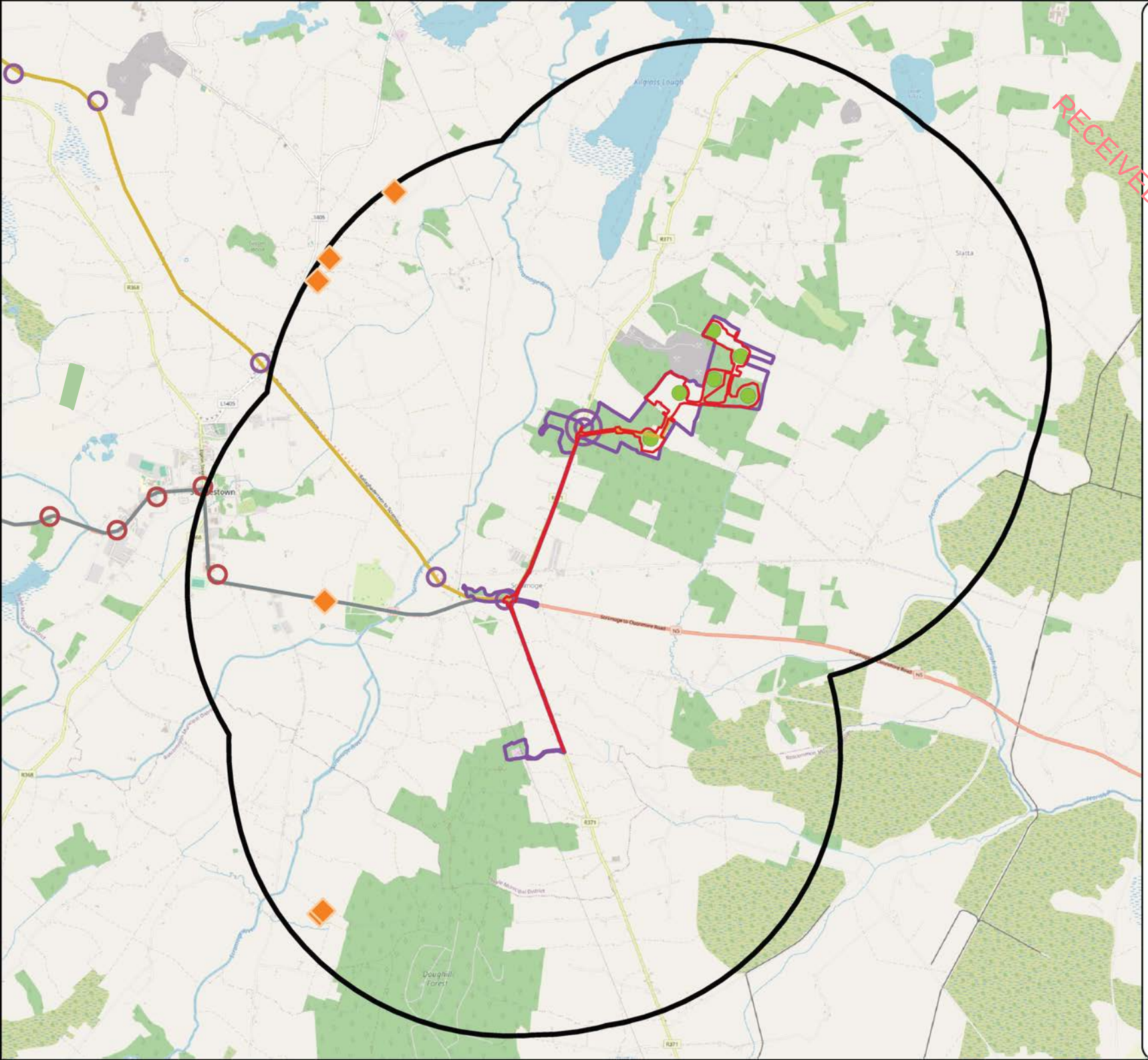
Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- 3km Buffer
- Locally Important Aquifer - Bedrock which is Generally Moderately Productive
- Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones
- Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones
- Regionally Important Aquifer - Karstified (conduit)

0 0.8 1.6 2.4 km

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EIAR Figure 8-16





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Karst Landforms - Redline boundary

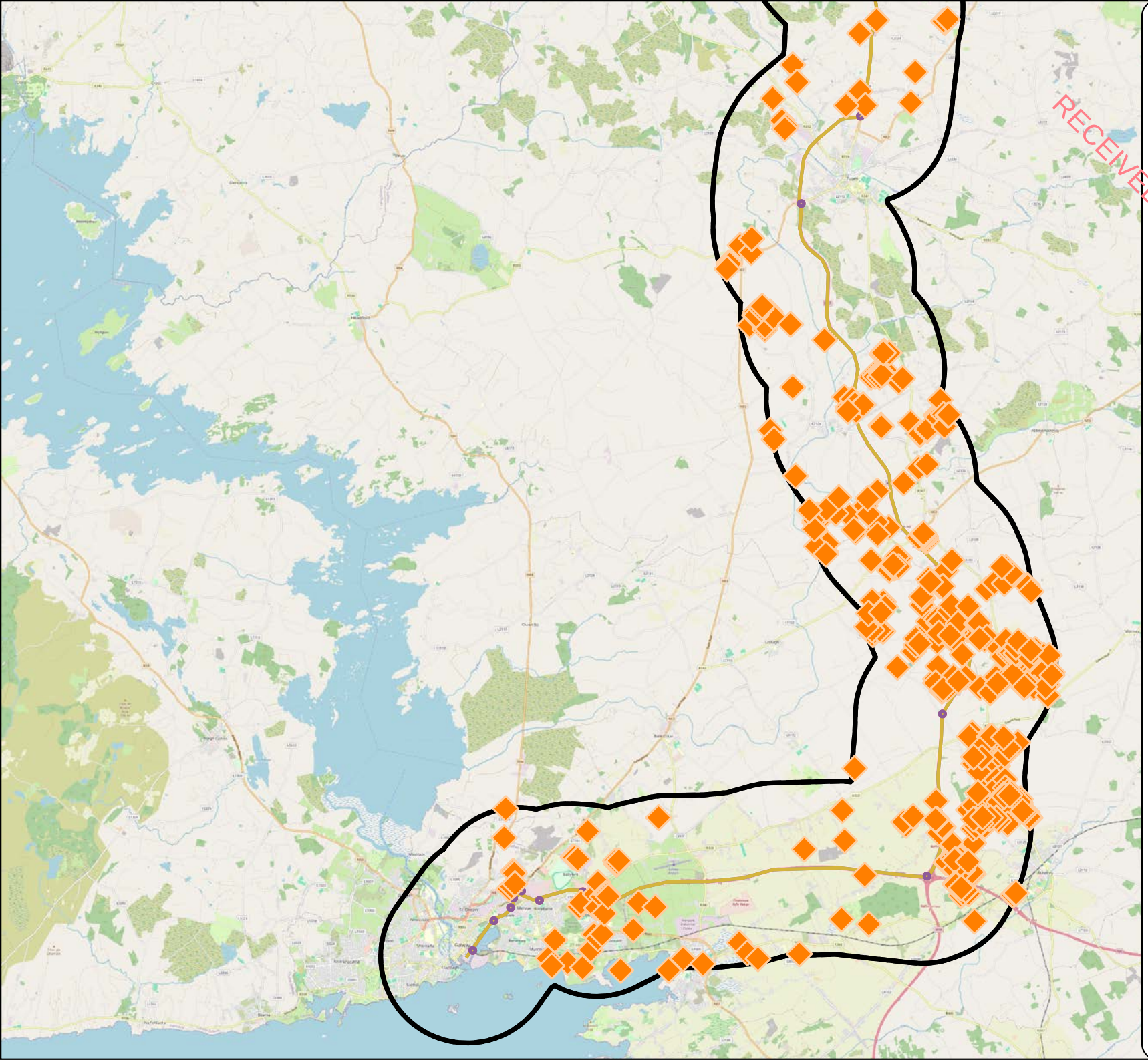
Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- 3km buffer
- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- Karst Landform

0 1 2 3 km

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EIAR Figure 8-17





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Karst Landforms - Section 1 of Turbine Delivery Route

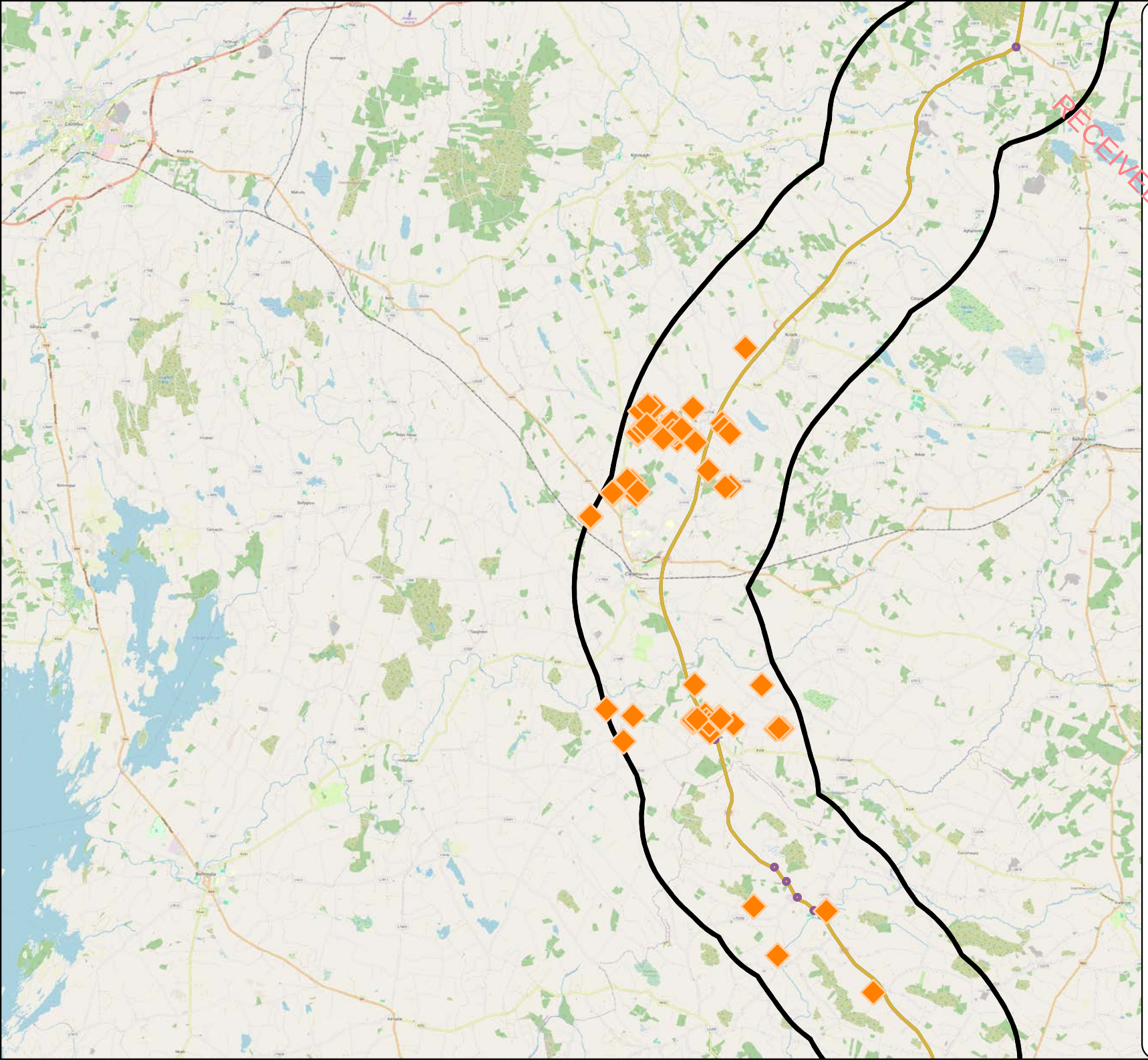
Legend

- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- 3km Buffer
- Karst Landform

0 2 4 6 km

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EIAR Figure 8-18





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Karst Landforms - Section 2 of Turbine Delivery Route

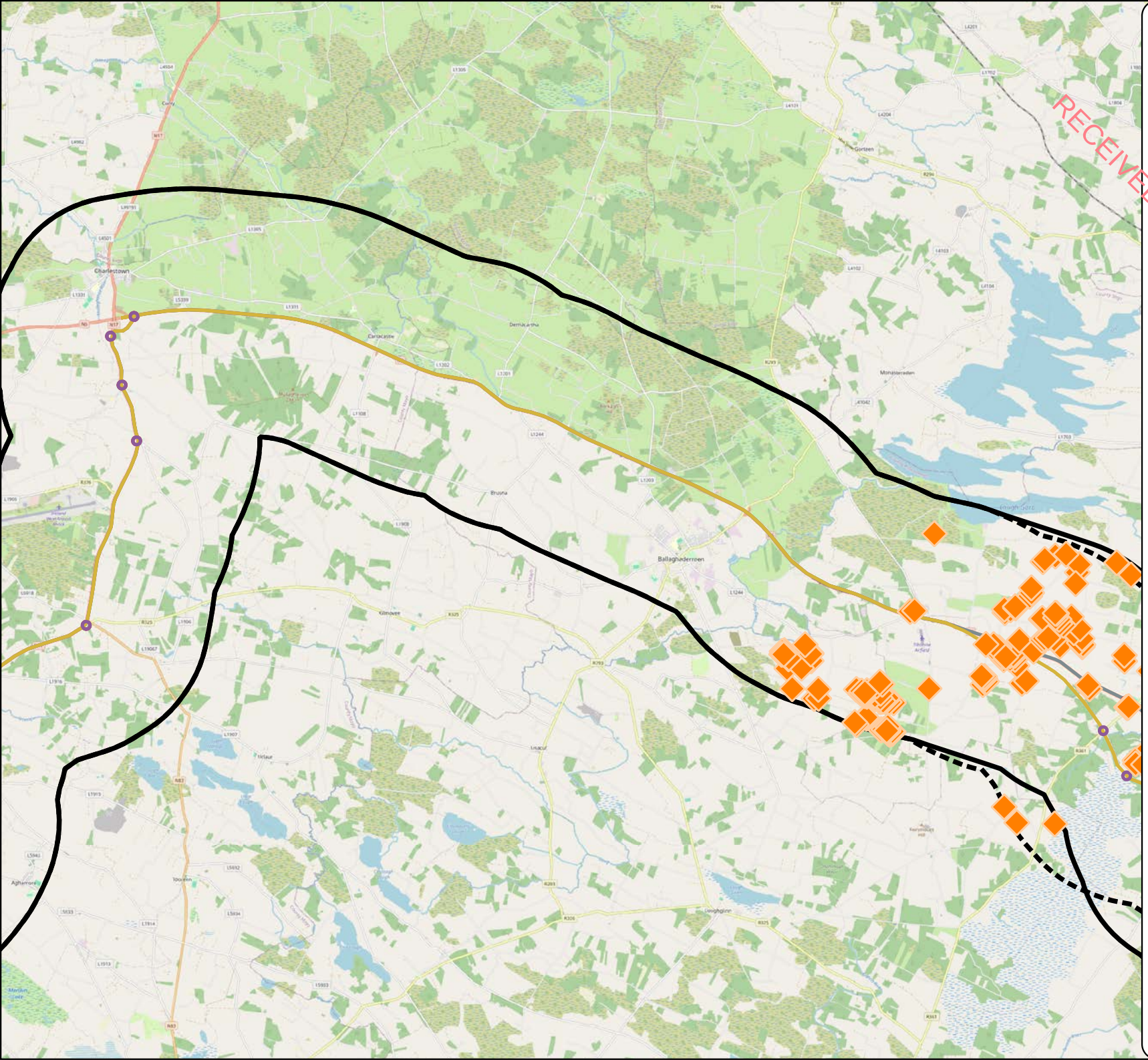
Legend

- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- 3km Buffer
- Karst Landform

0 2 4 6 km

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Karst Landforms - Section 3 of Turbine Delivery Route

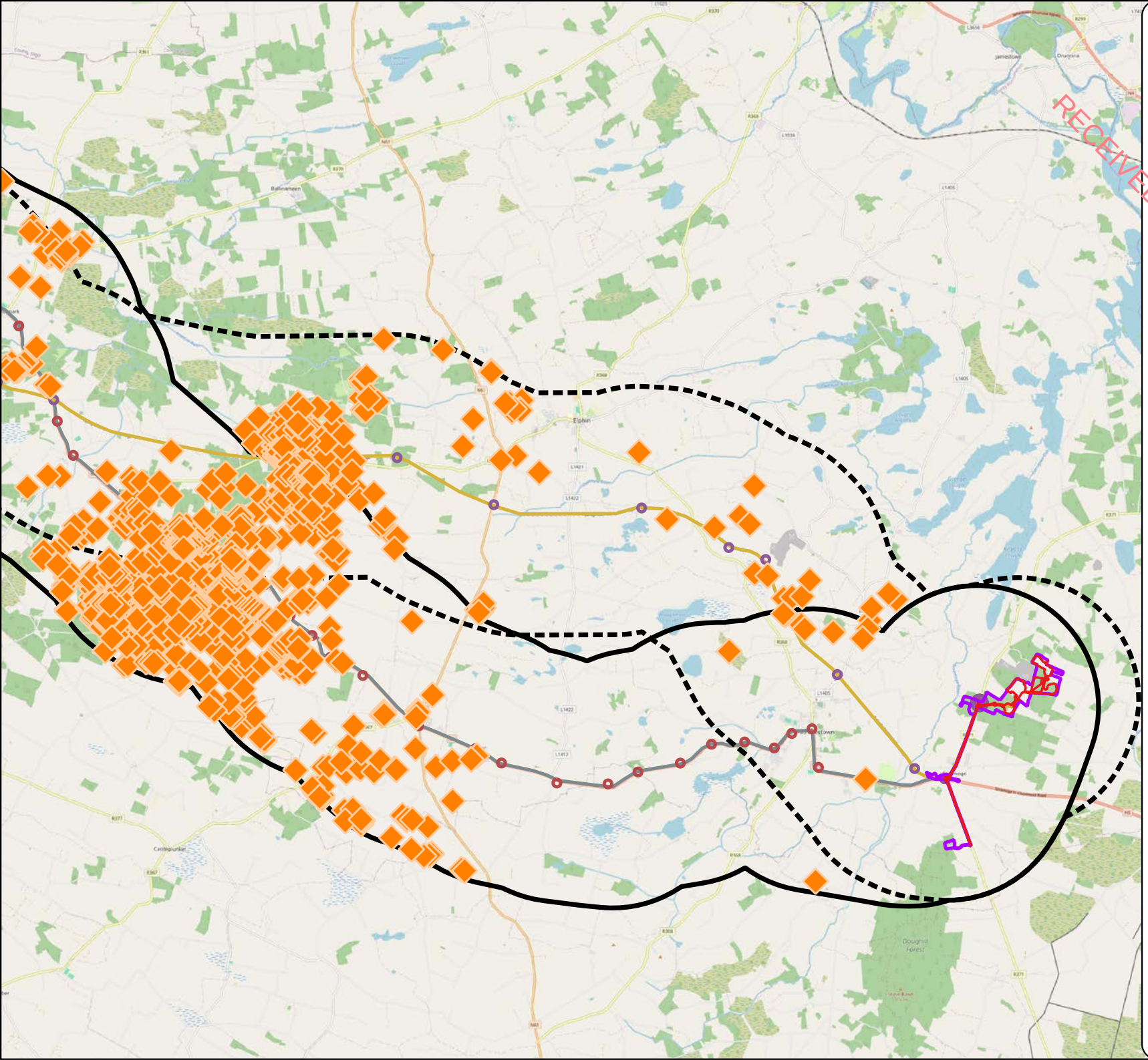
Legend

- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- 3km Buffer - TDR Option 1a
- 3km Buffer - TDR Option 1b
- Karst Landform

0 2 4 6 km

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EIAR Figure 8-20



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Karst Landforms - Section 4 of Turbine Delivery Route

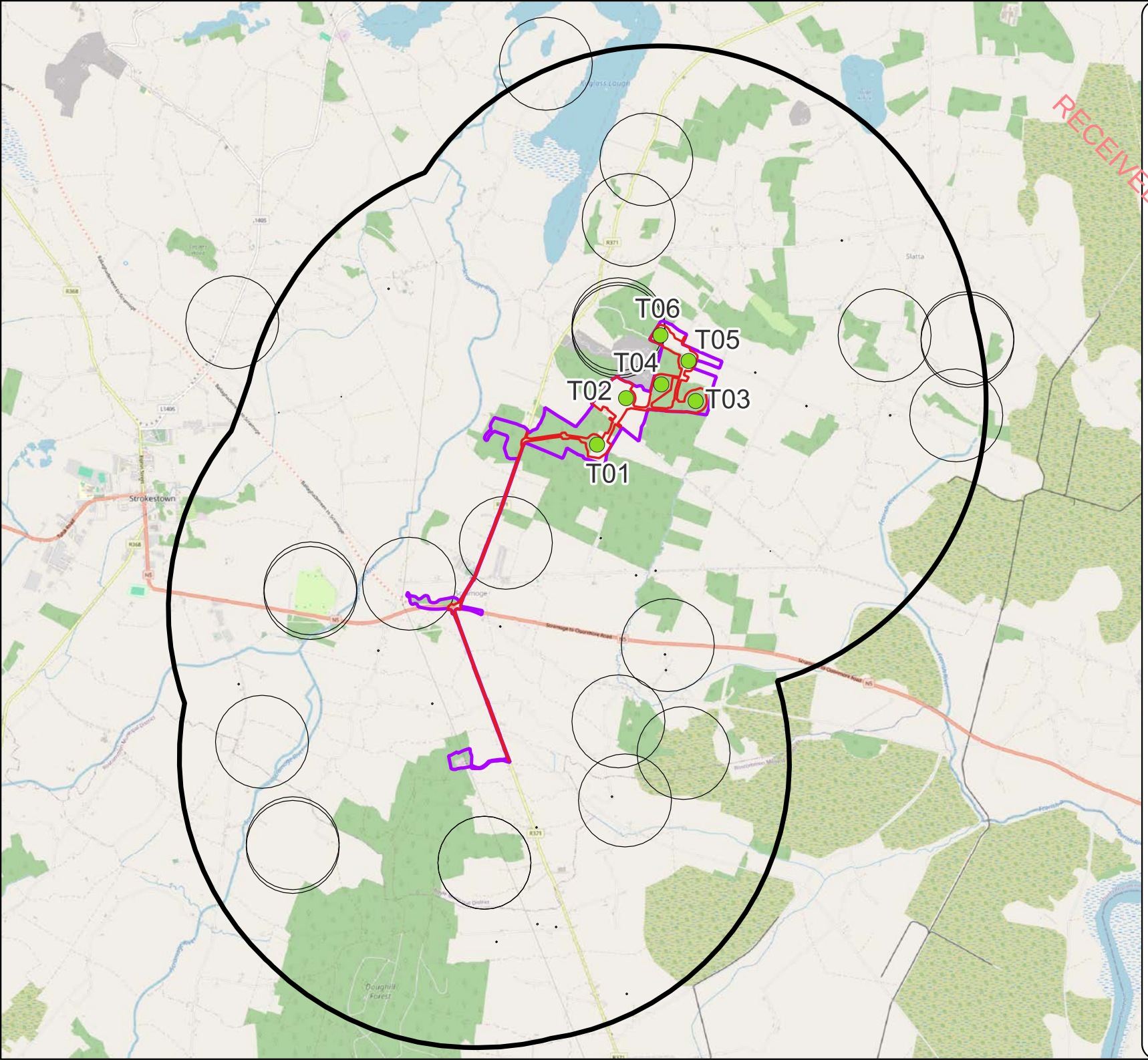
Legend

- Redline Boundary
- EIA Study Area
- TDR Option 1a
- TDR Option 1a Nodes
- TDR Option 1b
- TDR Option 1b Nodes
- 3km Buffer - TDR Option 1a
- 3km Buffer - TDR Option 1b
- Karst Landform

0 2 4 6 km

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EIAR Figure 8-21



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GSI Groundwater Wells and Springs

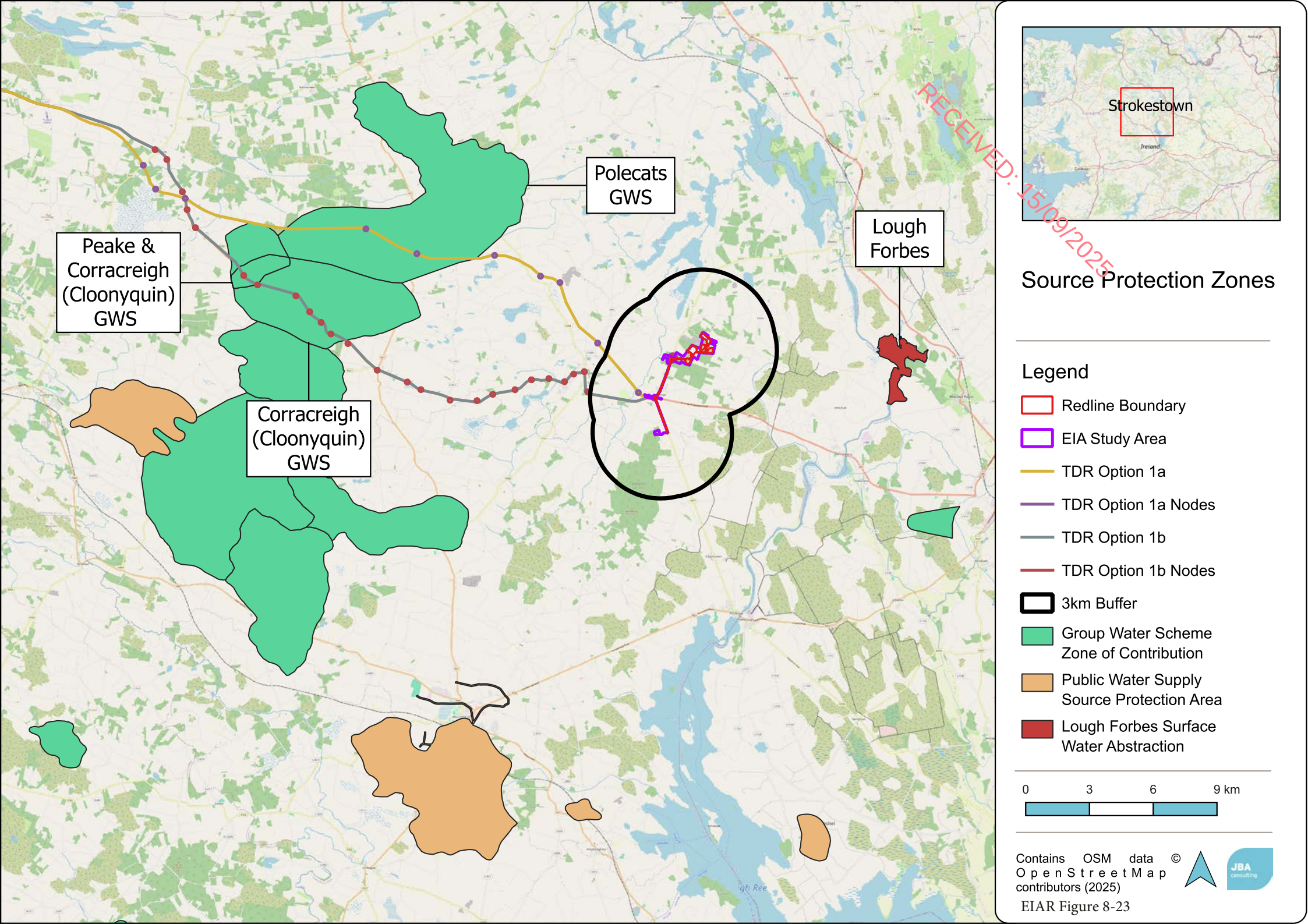
Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- 3km Buffer
- Groundwater Wells and Springs

0 0.9 1.8 2.7 km

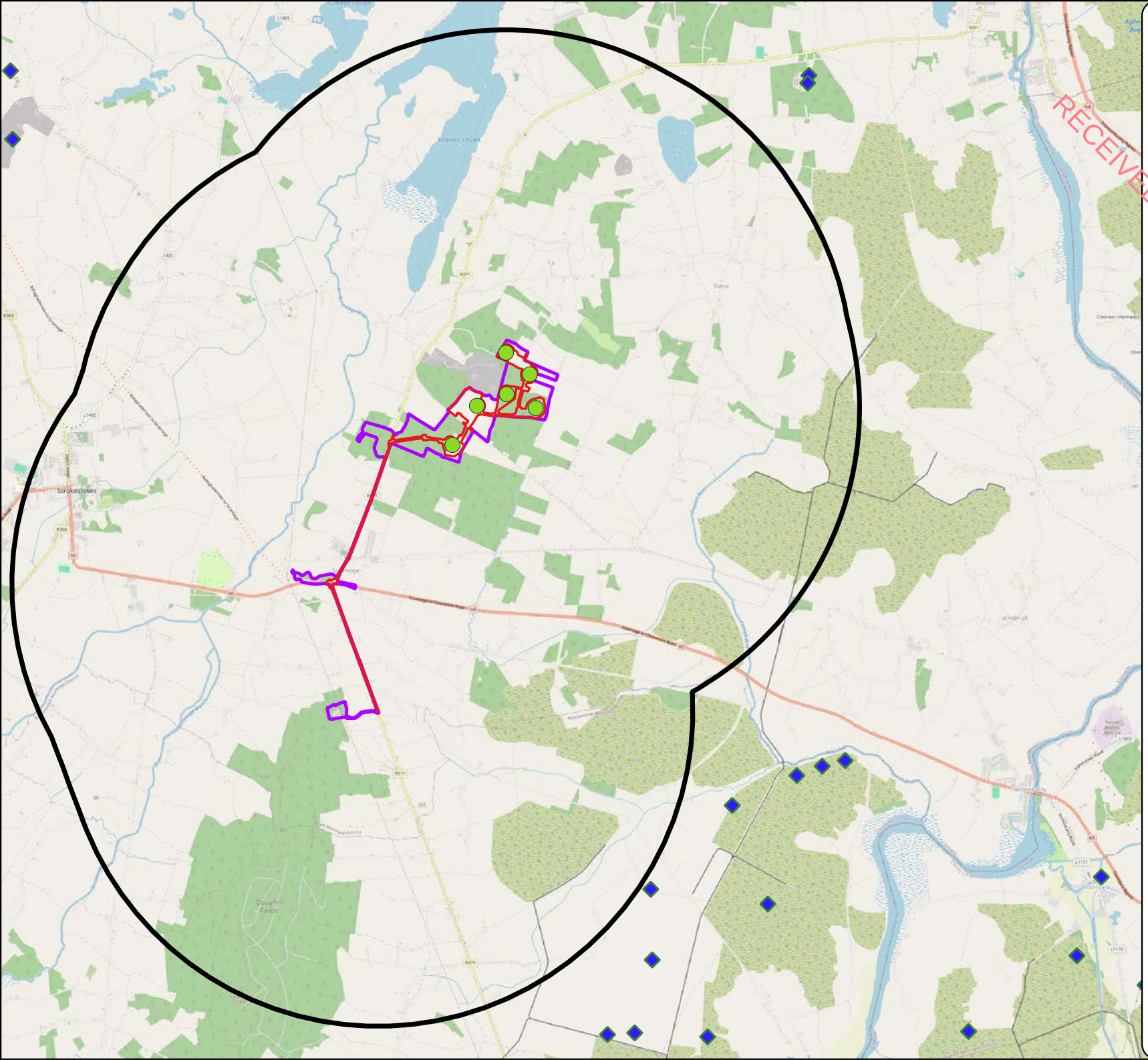
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EIAR Figure 8-23





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EPA Groundwater Abstraction Register

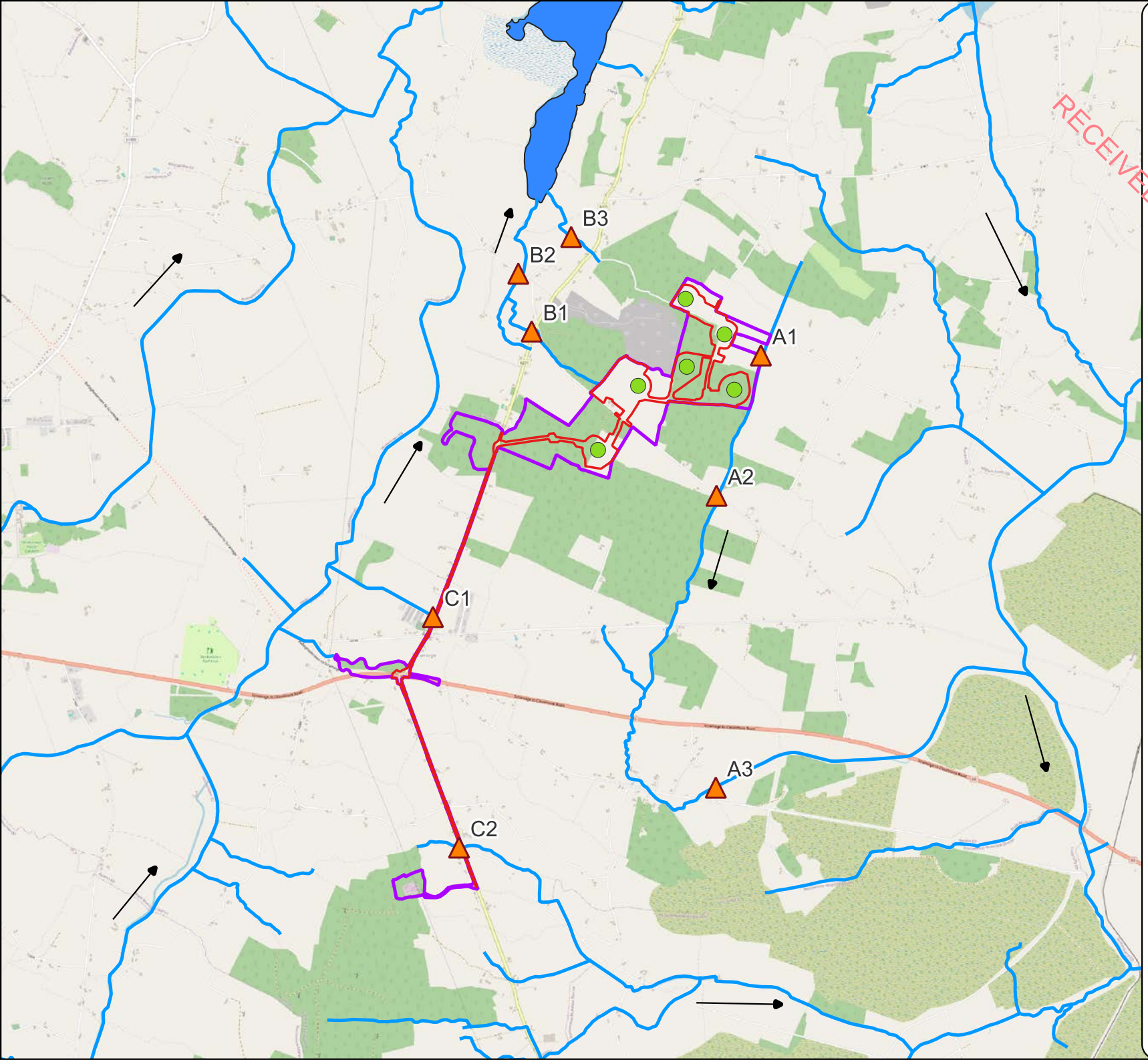
Legend

- Redline Boundary
- EIA Study Area
- 4km Buffer
- Wind Turbine
- Groundwater Abstraction Site

0 1 2 3 km

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Surface Water Sampling Point Sites

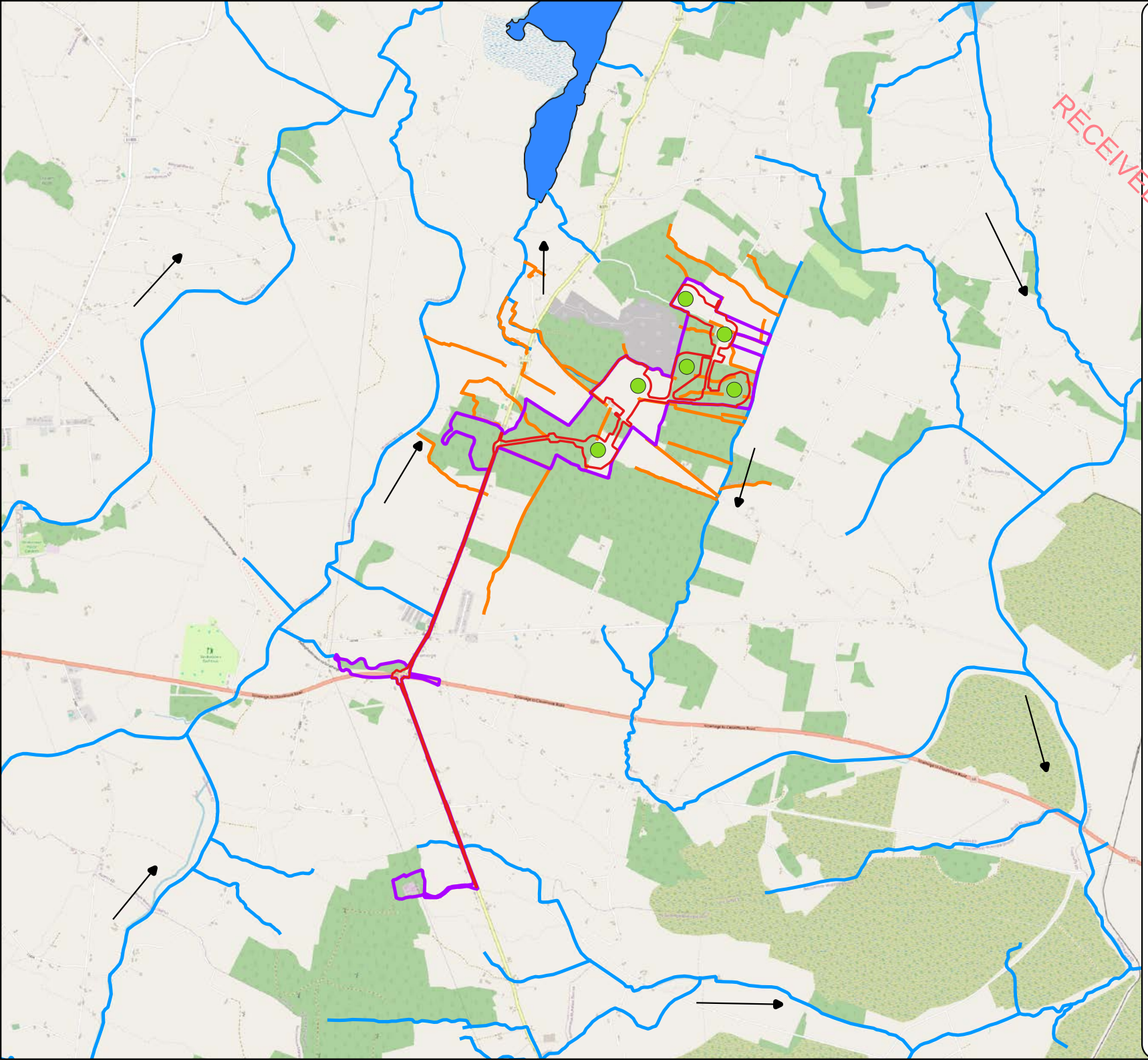
Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- WFD River
- WFD Lake
- Sample Site
- River Flow Direction

0 0.6 1.2 1.8 km

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Existing Land Drains

Legend

- Redline Boundary
- EIA Study Area
- Wind Turbine
- WFD River
- WFD Lake
- Land Drains
- River Flow Direction

0 0.6 1.2 1.8 km

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EIAR Figure 8-26