



Code: UKCAL-CWF-CON-EIA-RPT-00007-7E39

Volume 7E Proposed Development (Onshore) Appendices

Appendix 6-6 Hydrology and Hydrogeology Figures

Caledonia Offshore Wind Farm Ltd

5th Floor Atria One, 144 Morrison Street, Edinburgh, EH3 8EX



Volume 7E Appendix 6-6: Hydrology and Hydrogeology Figures

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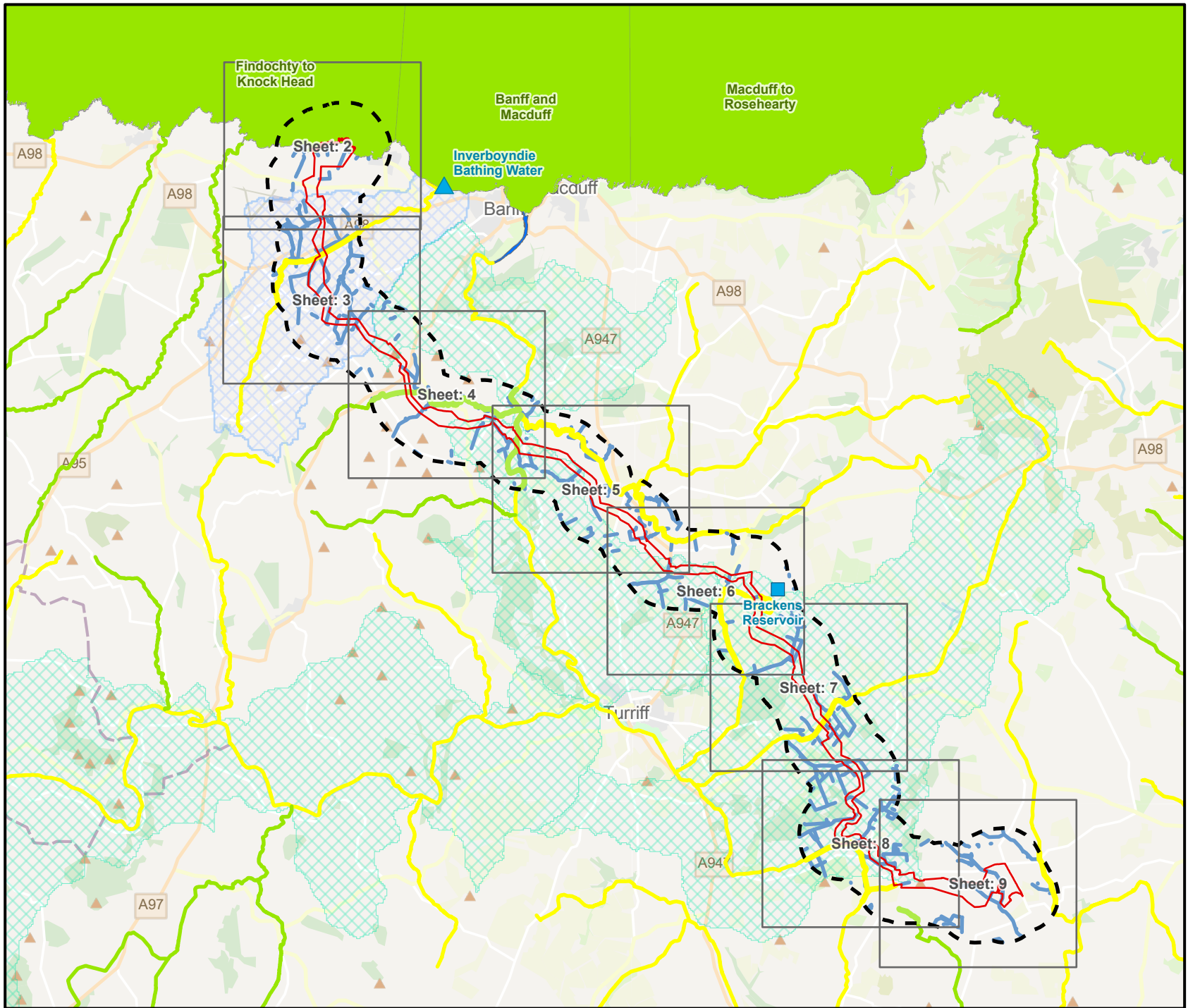
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Onshore Transmission Infrastructure
 Red Line Boundary

1km Buffer of Red Line Boundary

Surface Water

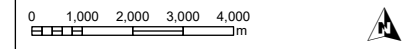
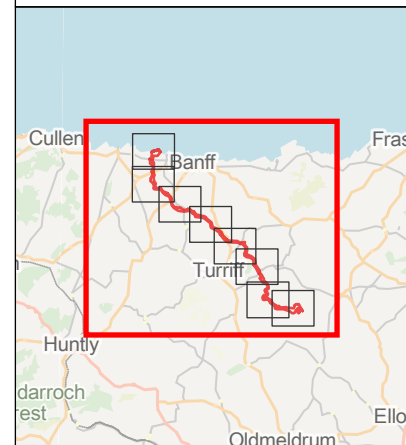
- Brackens Reservoir
- Inverboyndie Bathing Water
- Surface Water Feature
- Bathing Water Catchment
- SEPA Drinking Water Protected Area

WFD Waterbody Status

- High status / potential
- Good status / potential
- Moderate status / potential

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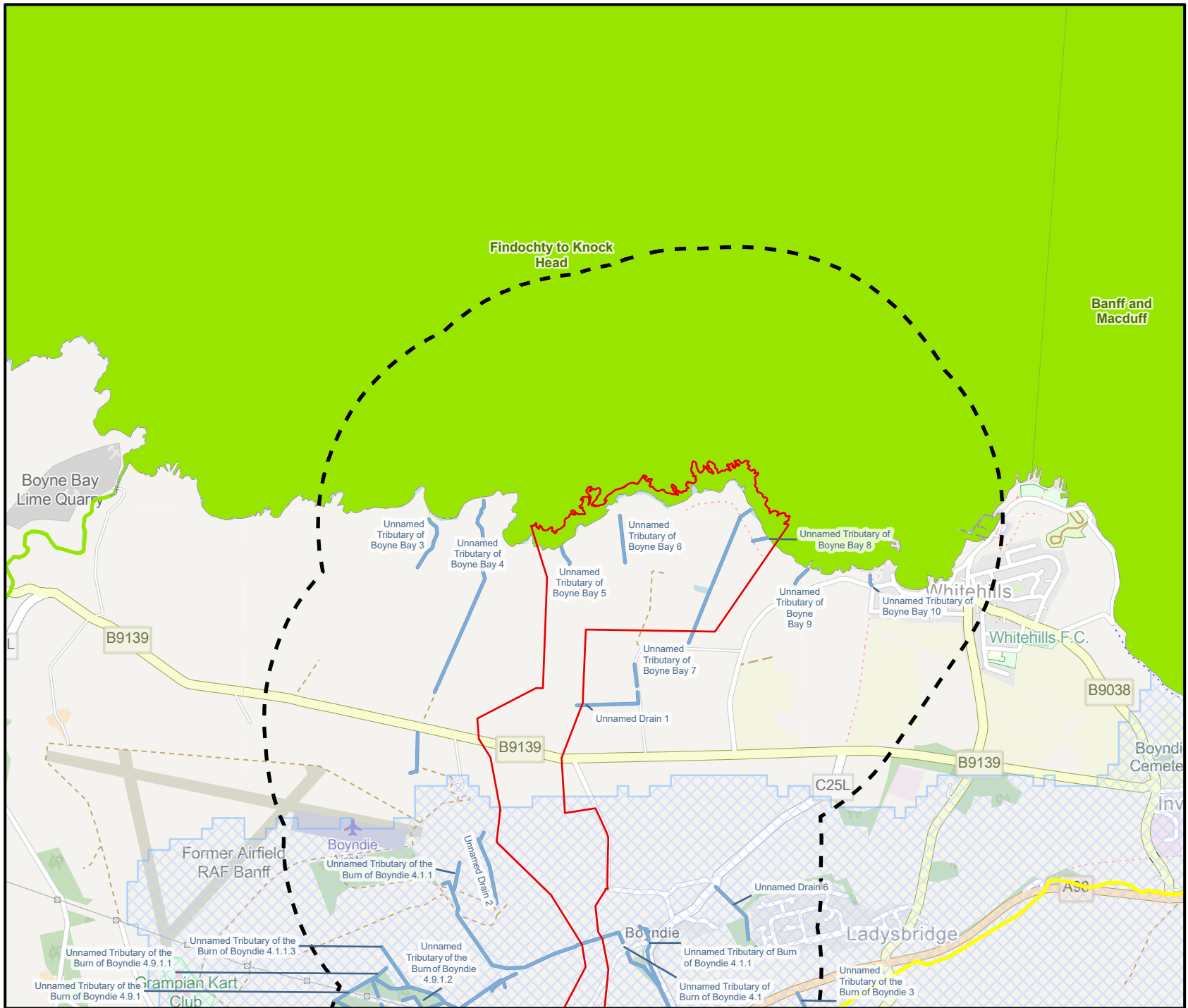
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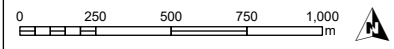
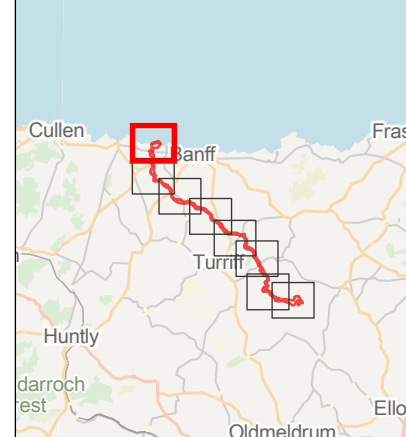
**Figure 6-1:
Surface Water Features**

STATUS Approved	SCALE 1:150,000
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- Onshore Transmission Infrastructure
- Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water**
- Surface Water Feature
- Bathing Water Catchment
- WFD Waterbody Status**
- Good status / potential
- Moderate status / potential

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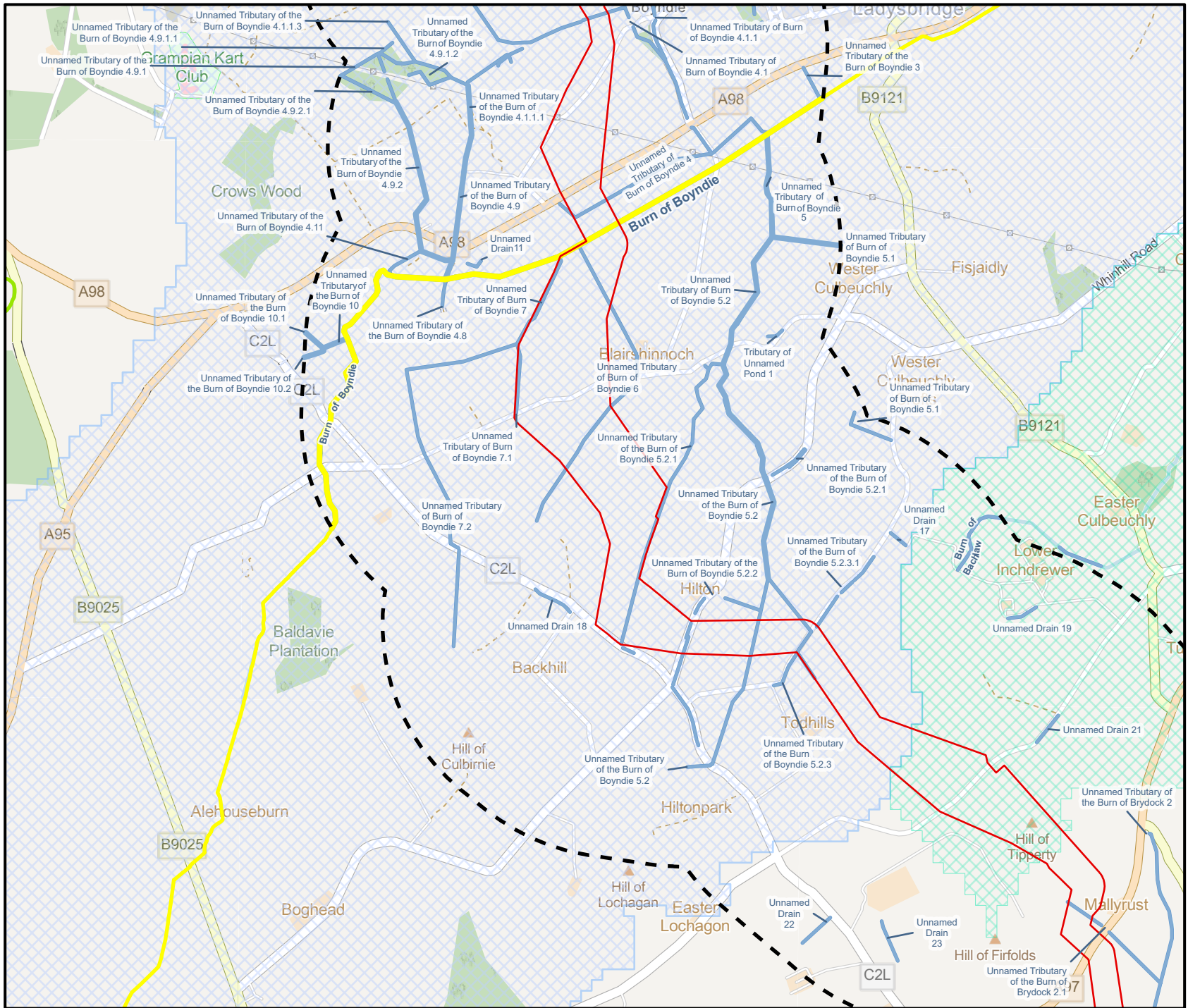


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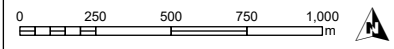
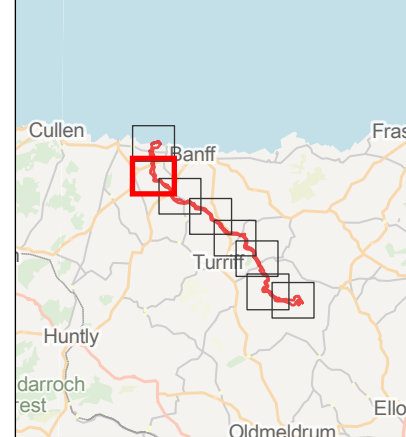
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- Onshore Transmission Infrastructure
- Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water**
- Surface Water Feature
- Bathing Water Catchment
- SEPA Drinking Water Protected Area
- WFD Waterbody Status**
- Good status / potential
- Moderate status / potential

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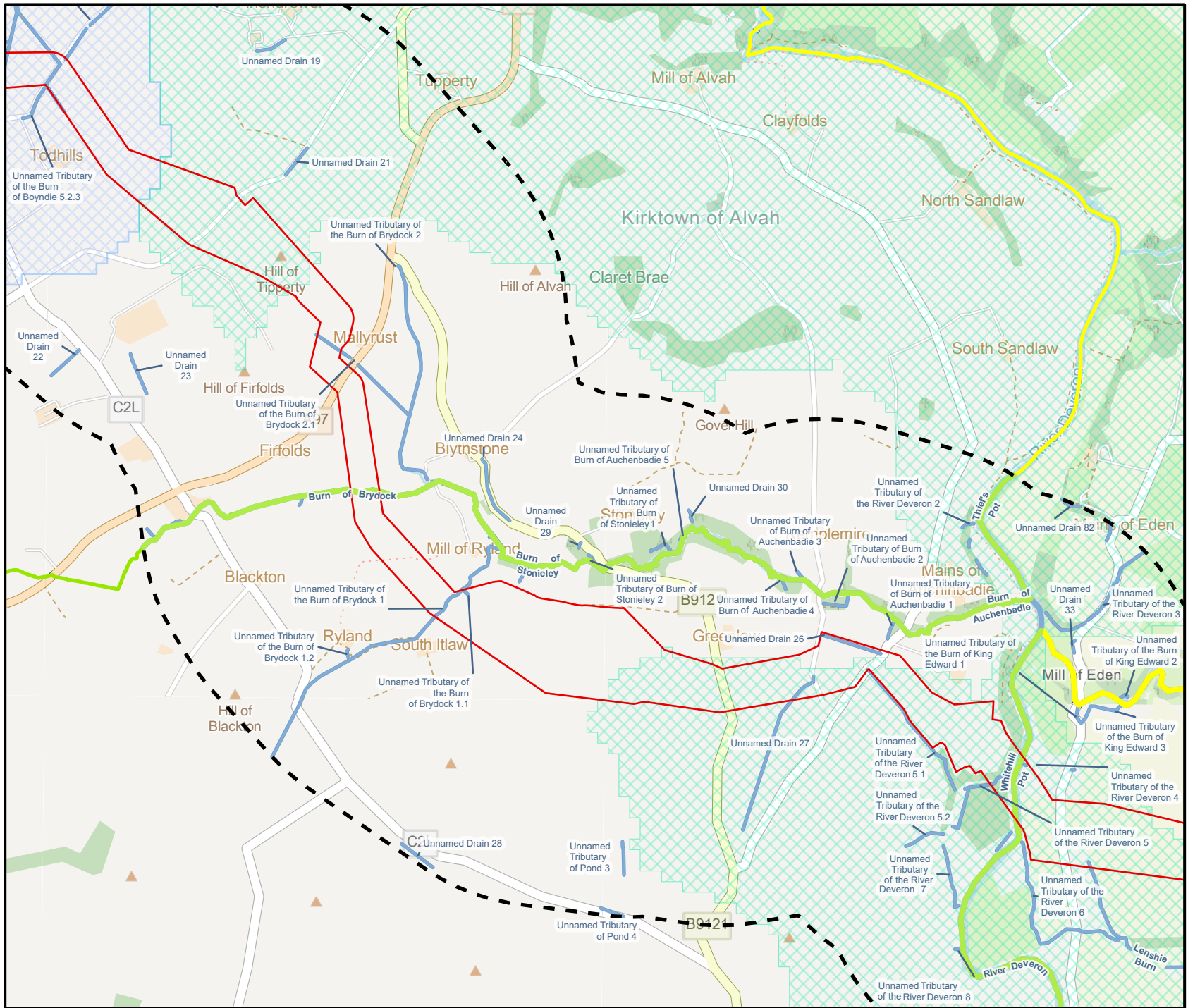
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Figure 6-1:
Surface Water Features

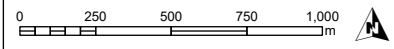
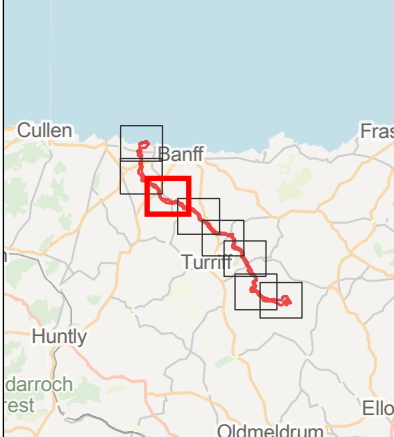
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water**
 - Surface Water Feature
 - Bathing Water Catchment
 - SEPA Drinking Water Protected Area
- WFD Waterbody Status**
 - Good status / potential
 - Moderate status / potential

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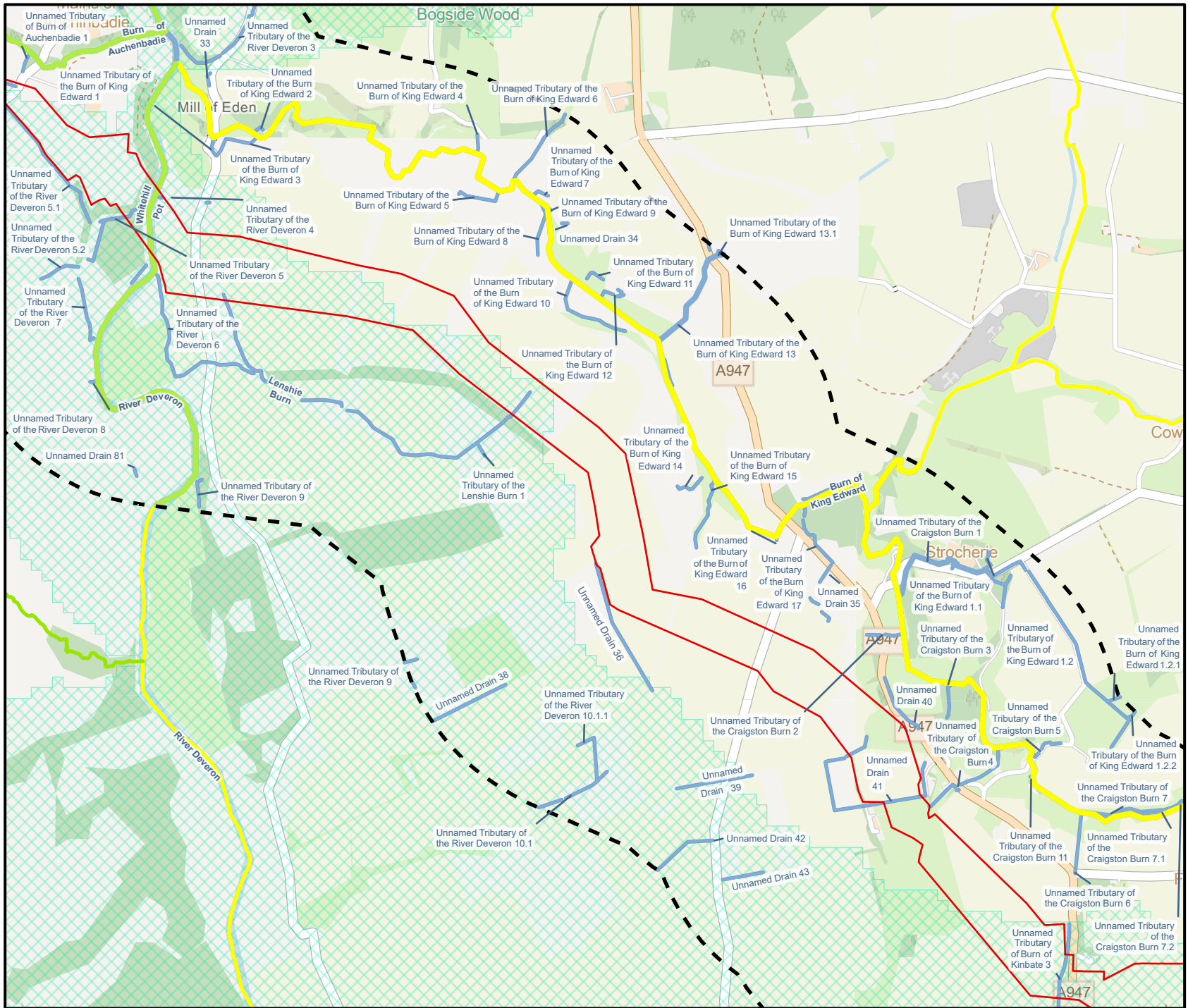


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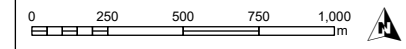
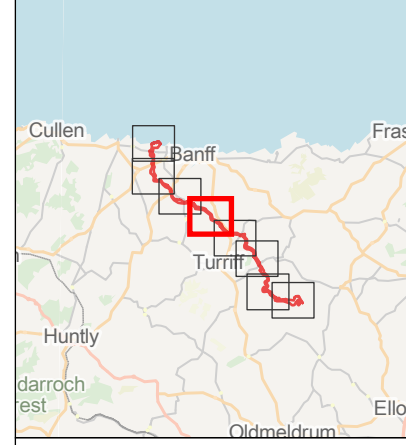
**Figure 6-1:
Surface Water Features**

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- Onshore Transmission Infrastructure
- Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water**
- Surface Water Feature
- SEPA Drinking Water Protected Area
- WFD Waterbody Status**
- Good status / potential
- Moderate status / potential

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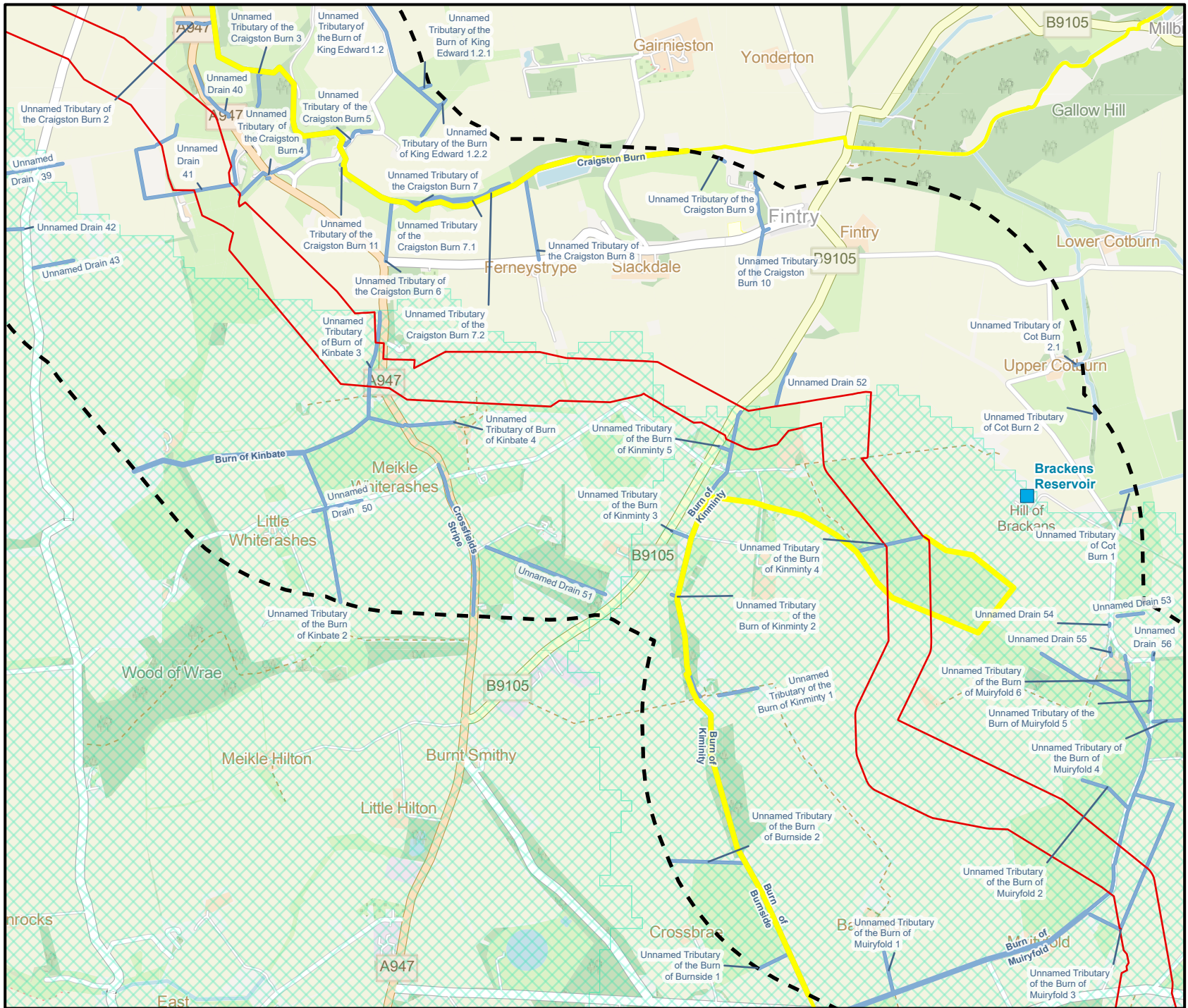
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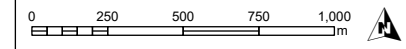
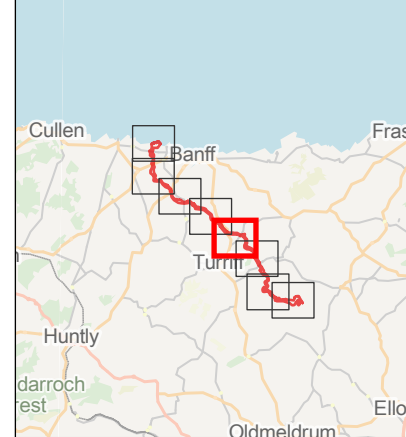
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**Figure 6-1:
 Surface Water Features**

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- Onshore Transmission Infrastructure
- Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water**
- Brackens Reservoir
- Surface Water Feature
- SEPA Drinking Water Protected Area
- WFD Waterbody Status**
- Moderate status / potential

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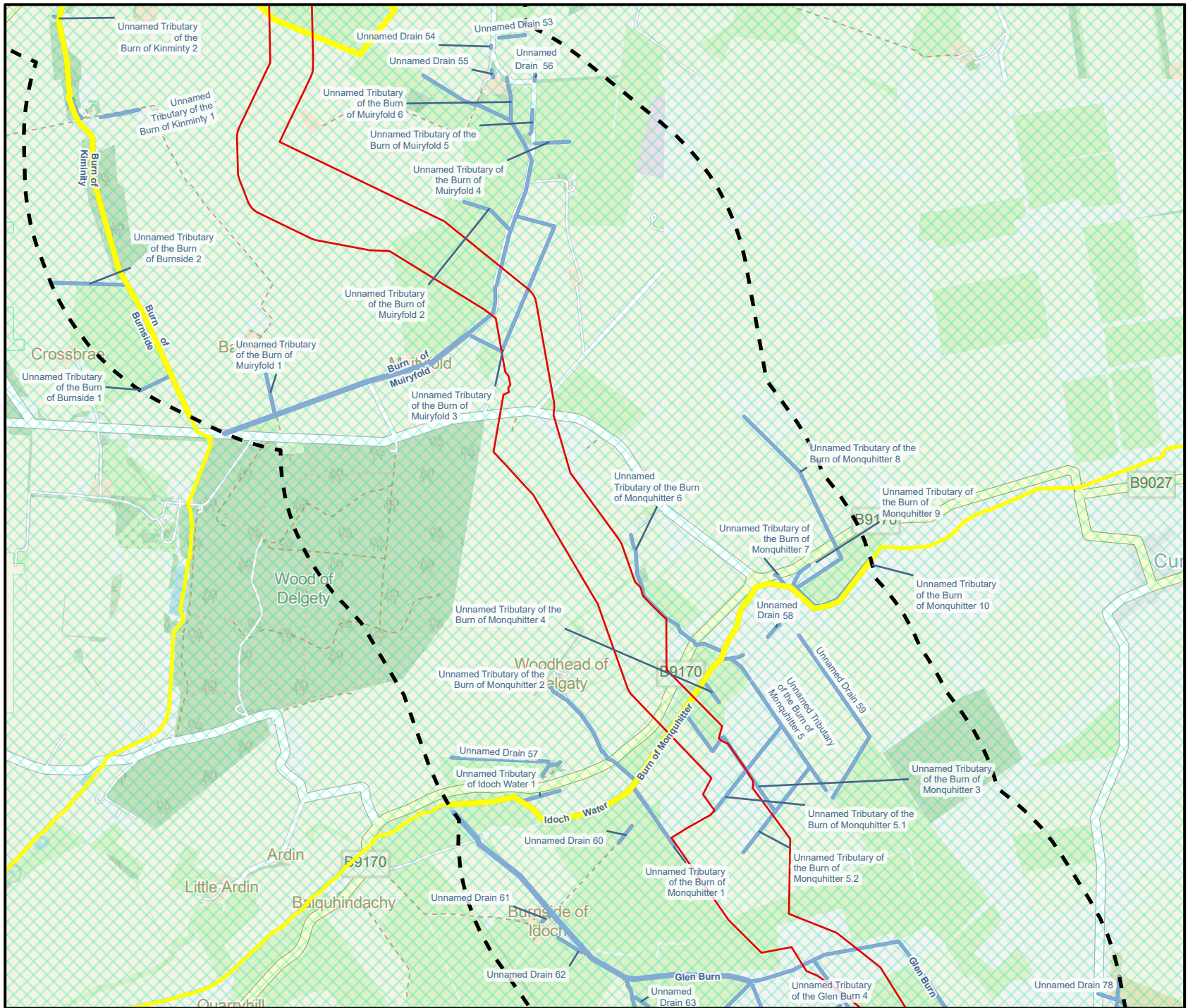
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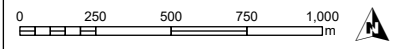
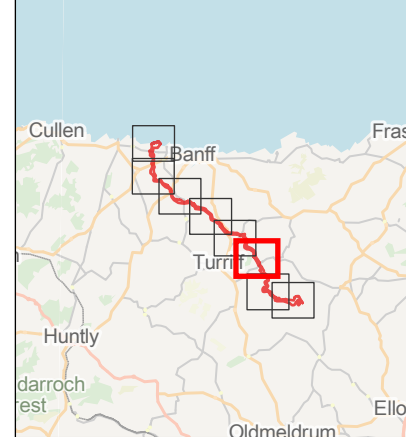
Figure 6-1:
Surface Water Features

STATUS Approved	SCALE 1:25,000
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water**
- Surface Water Feature
- SEPA Drinking Water Protected Area
- WFD Waterbody Status**
- Moderate status / potential

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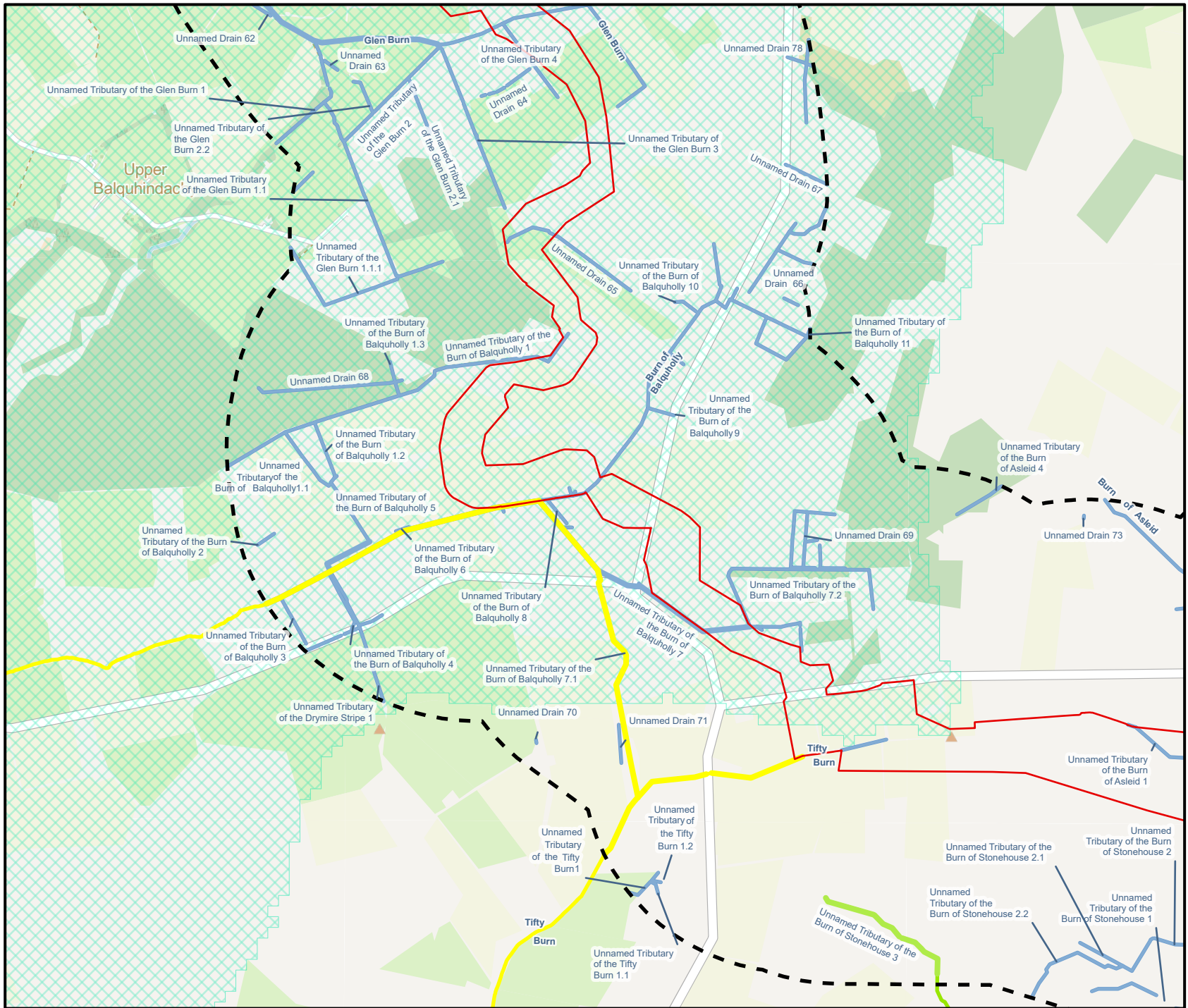


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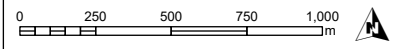
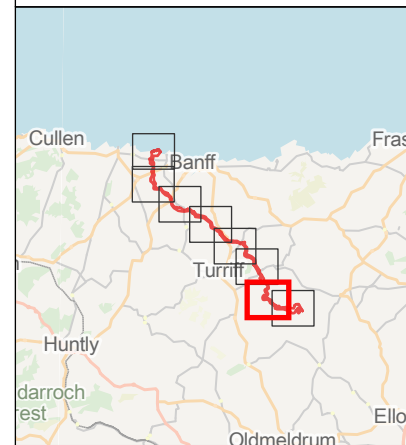
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water**
- Surface Water Feature
- SEPA Drinking Water Protected Area
- WFD Waterbody Status**
- Good status / potential
- Moderate status / potential

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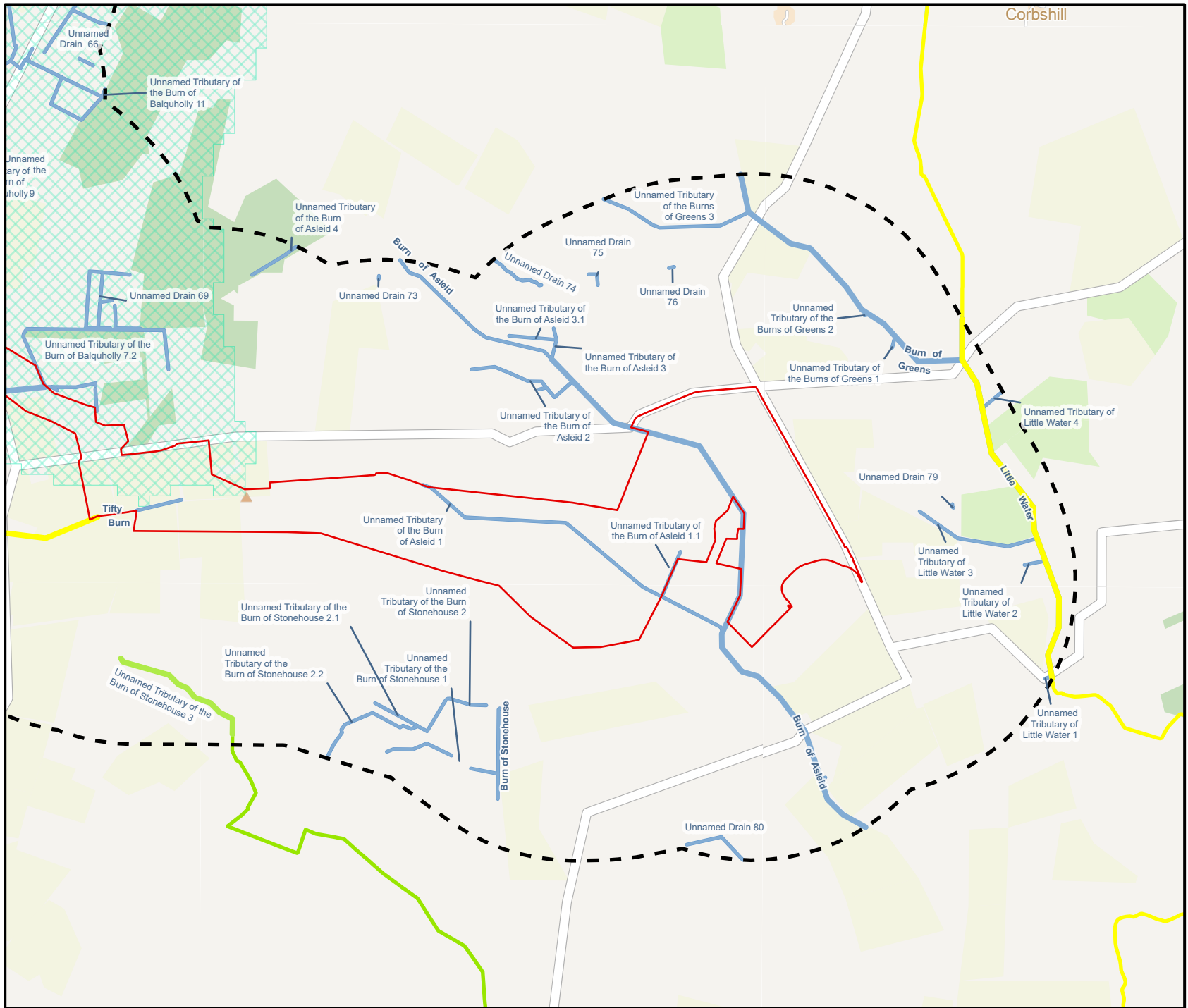
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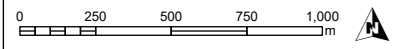
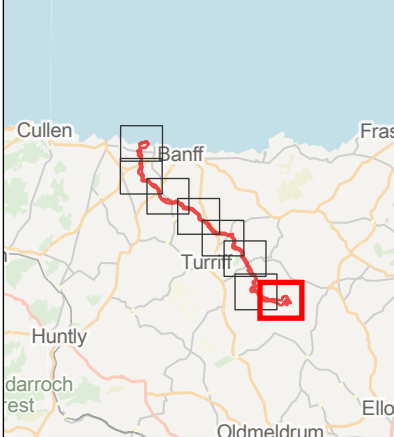
Figure 6-1:
Surface Water Features

STATUS Approved	SCALE 1:25,000
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- Onshore Transmission Infrastructure
- 1km Buffer of Red Line Boundary
- Surface Water**
- Surface Water Feature
- SEPA Drinking Water Protected Area
- WFD Waterbody Status**
- Good status / potential
- Moderate status / potential

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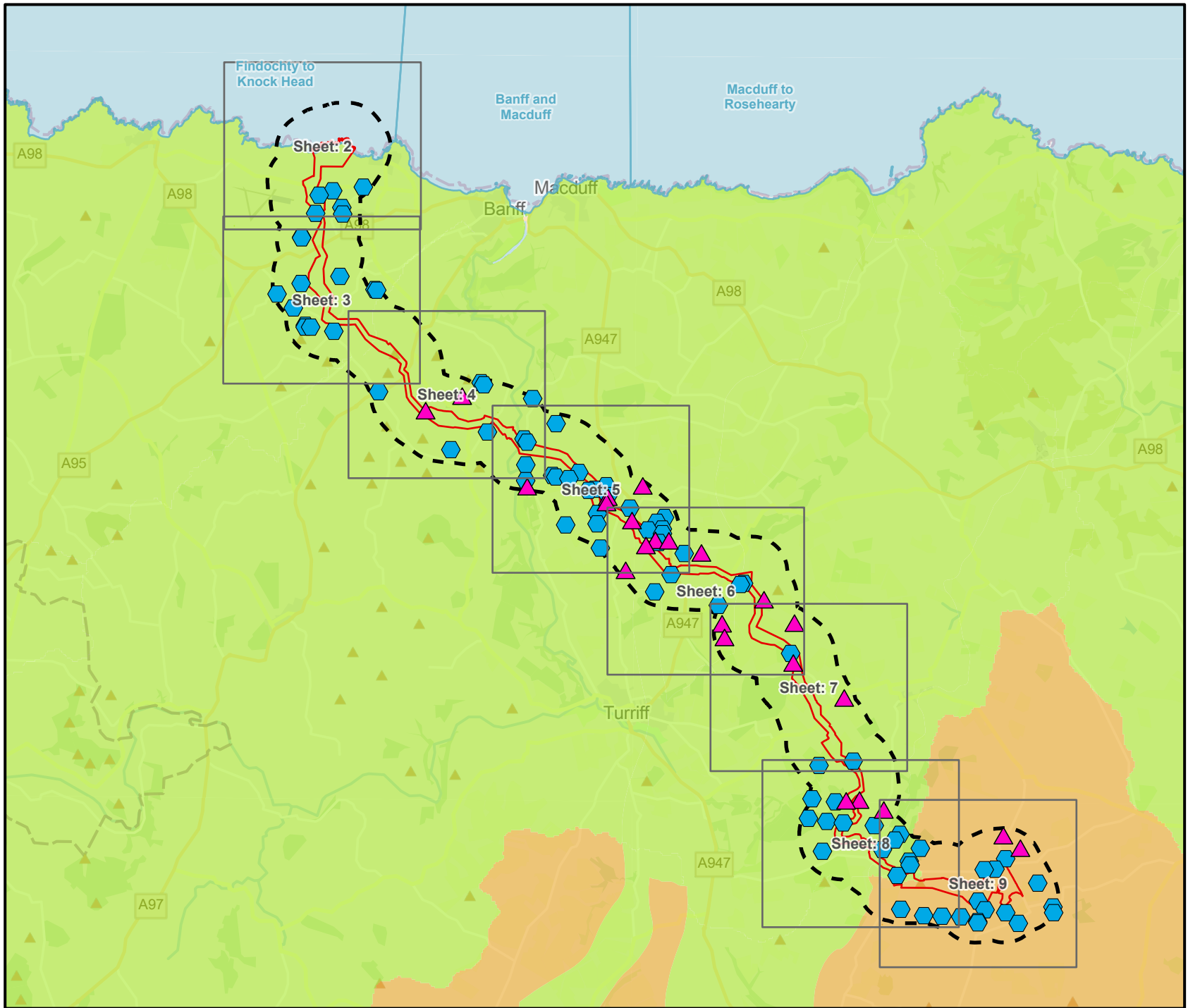
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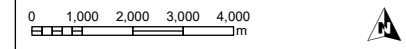
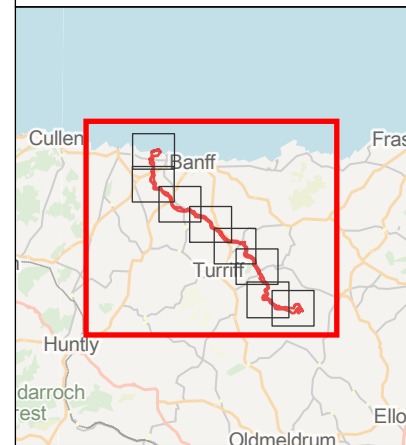
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 Surface Water Features**

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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- ▲ Spring
- Well
- WFD Groundwater Classification**
- Good
- Poor

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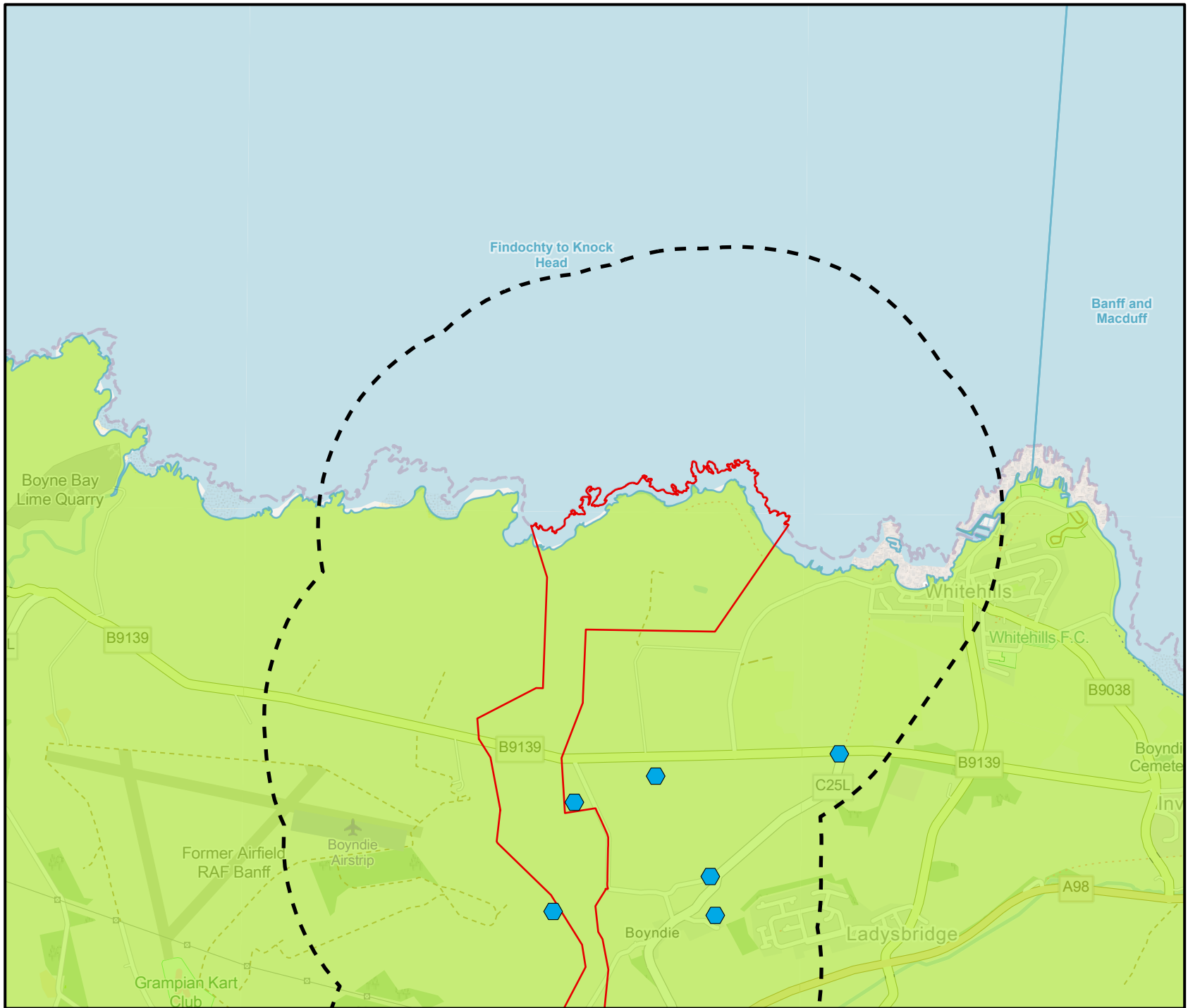
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Figure 6-2:
Groundwater Features

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Onshore Transmission Infrastructure Red Line Boundary
 [Red line symbol]

1km Buffer of Red Line Boundary
 [Dashed black line symbol]

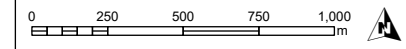
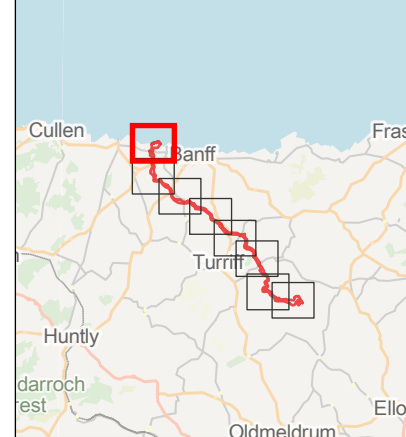
Hydrogeological Features

Well
 [Blue hexagon symbol]

WFD Groundwater Classification

Good
 [Light green fill symbol]

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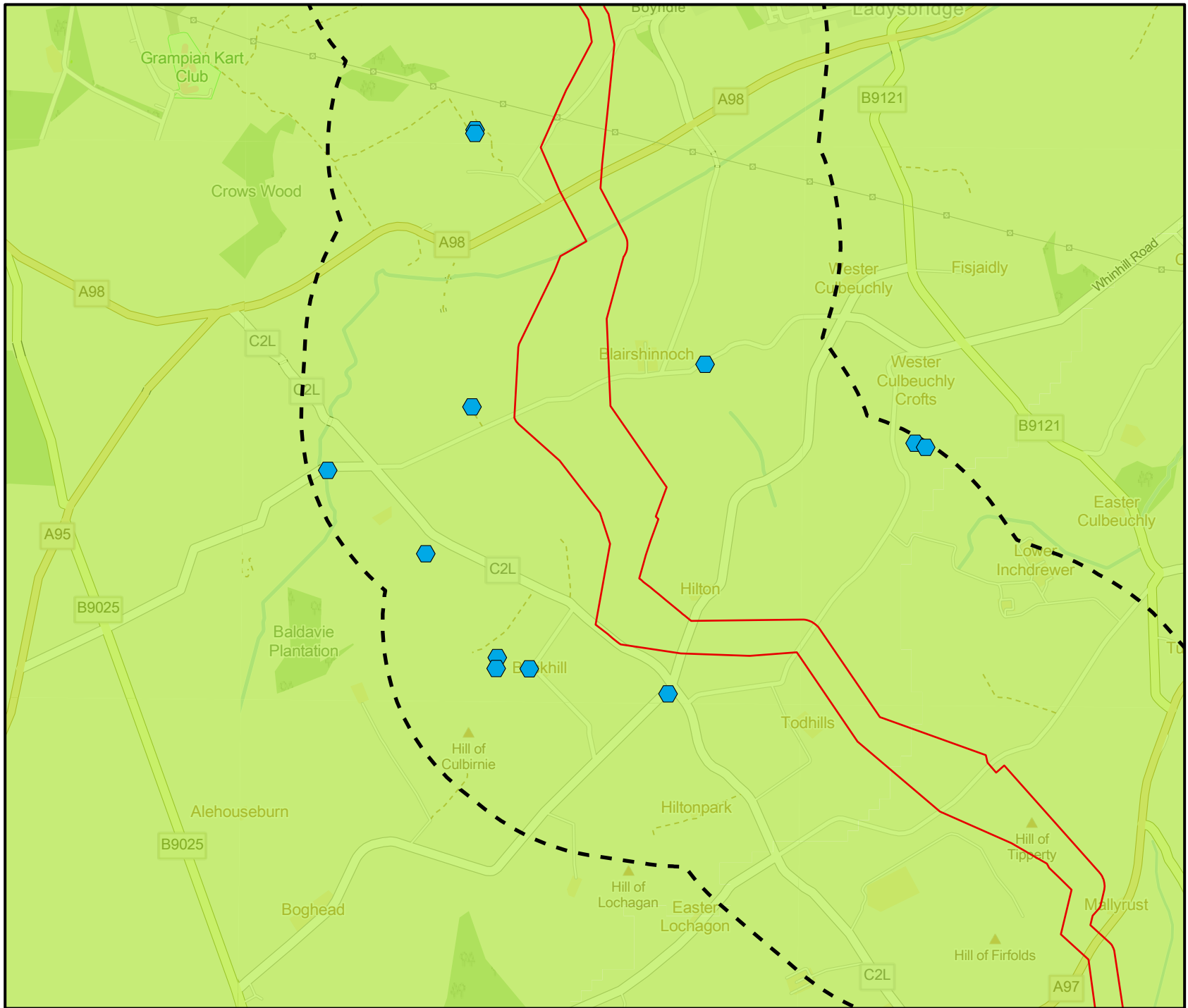


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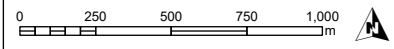
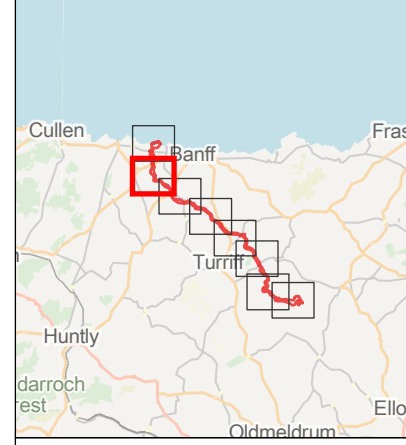
**Figure 6-2:
Groundwater Features**

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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- Well
- WFD Groundwater Classification**
- Good

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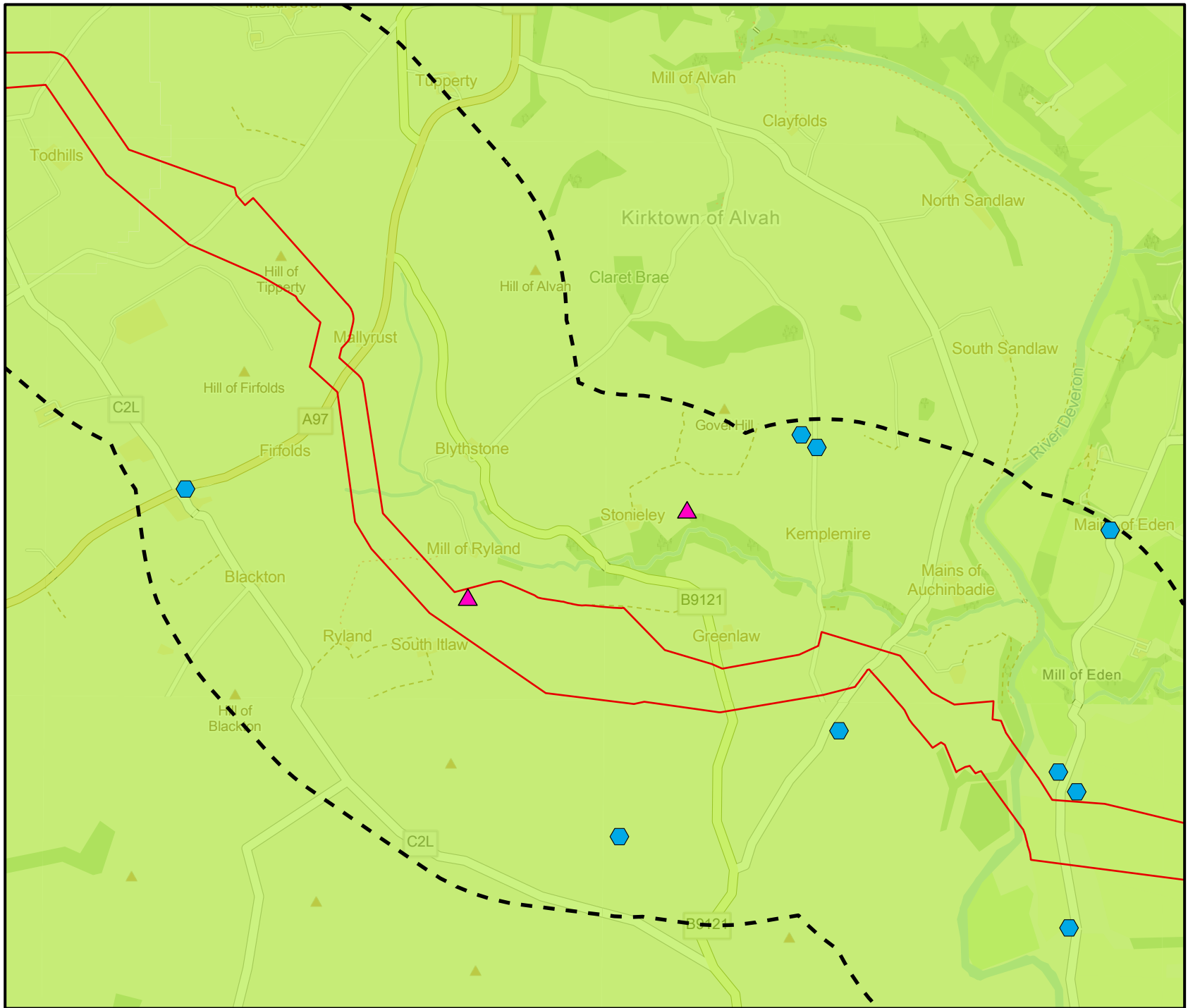
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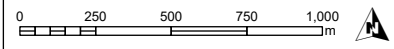
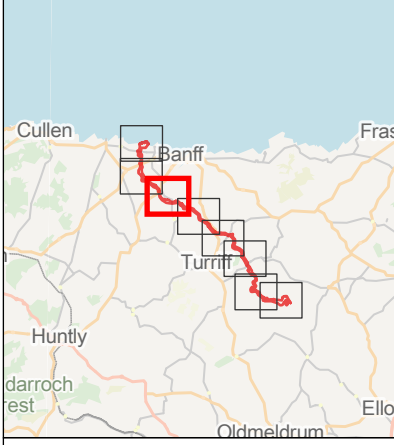
**Figure 6-2:
Groundwater Features**

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DRAWING NUMBER N/A	SHEET NO / REV 03 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- ▲ Spring
- Well
- WFD Groundwater Classification**
- Good

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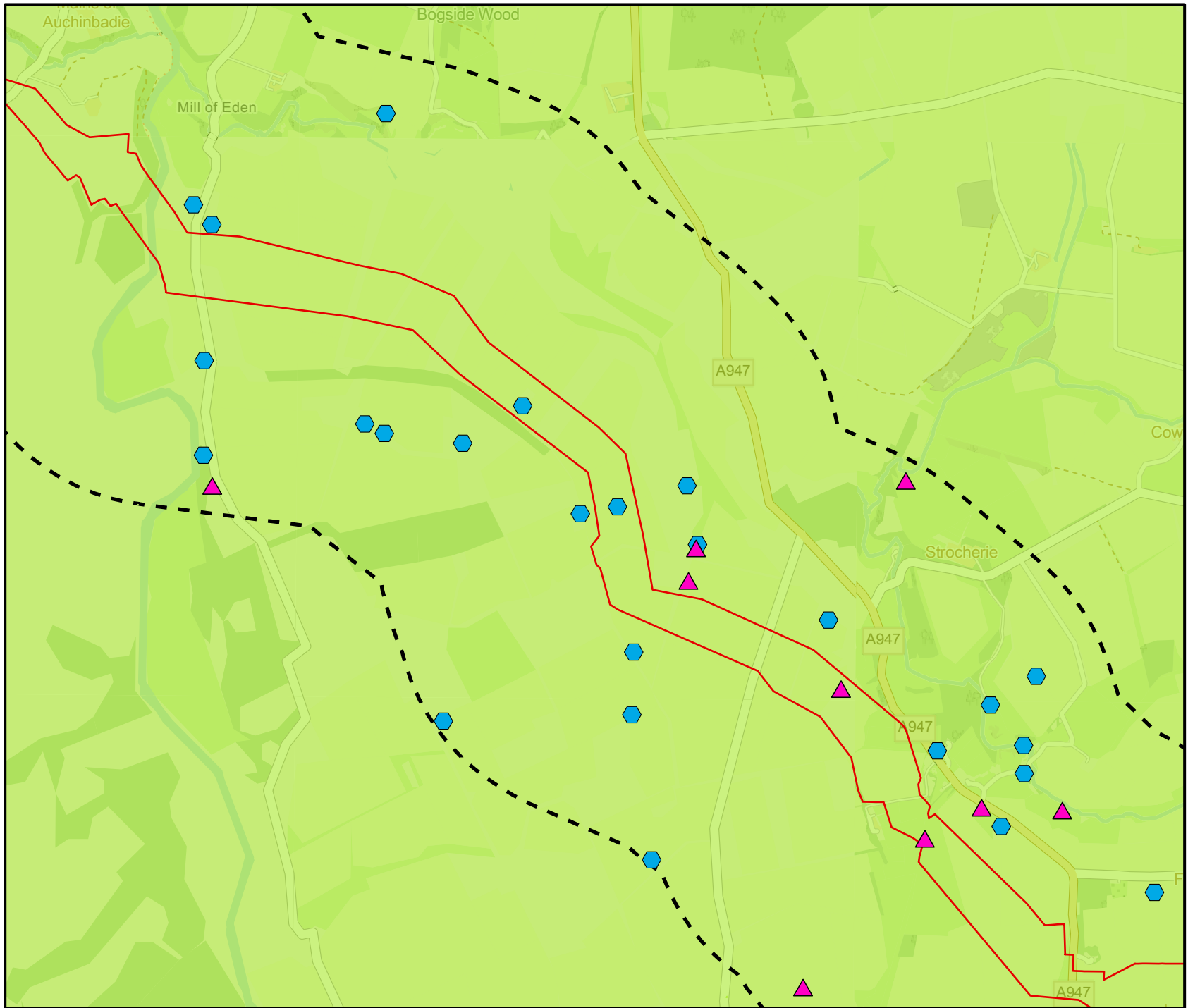
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REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP



CONTRACTOR DRAWING NO UKCAL1_ARP_WNF_ENV_MAP_00184	CONTRACTOR REV 04
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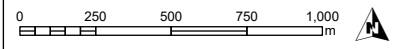
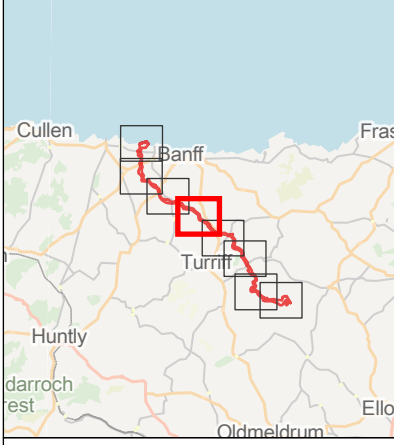
DRAWING TITLE
**Figure 6-2:
Groundwater Features**

STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 04 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- ▲ Spring
- Well
- WFD Groundwater Classification**
- Good

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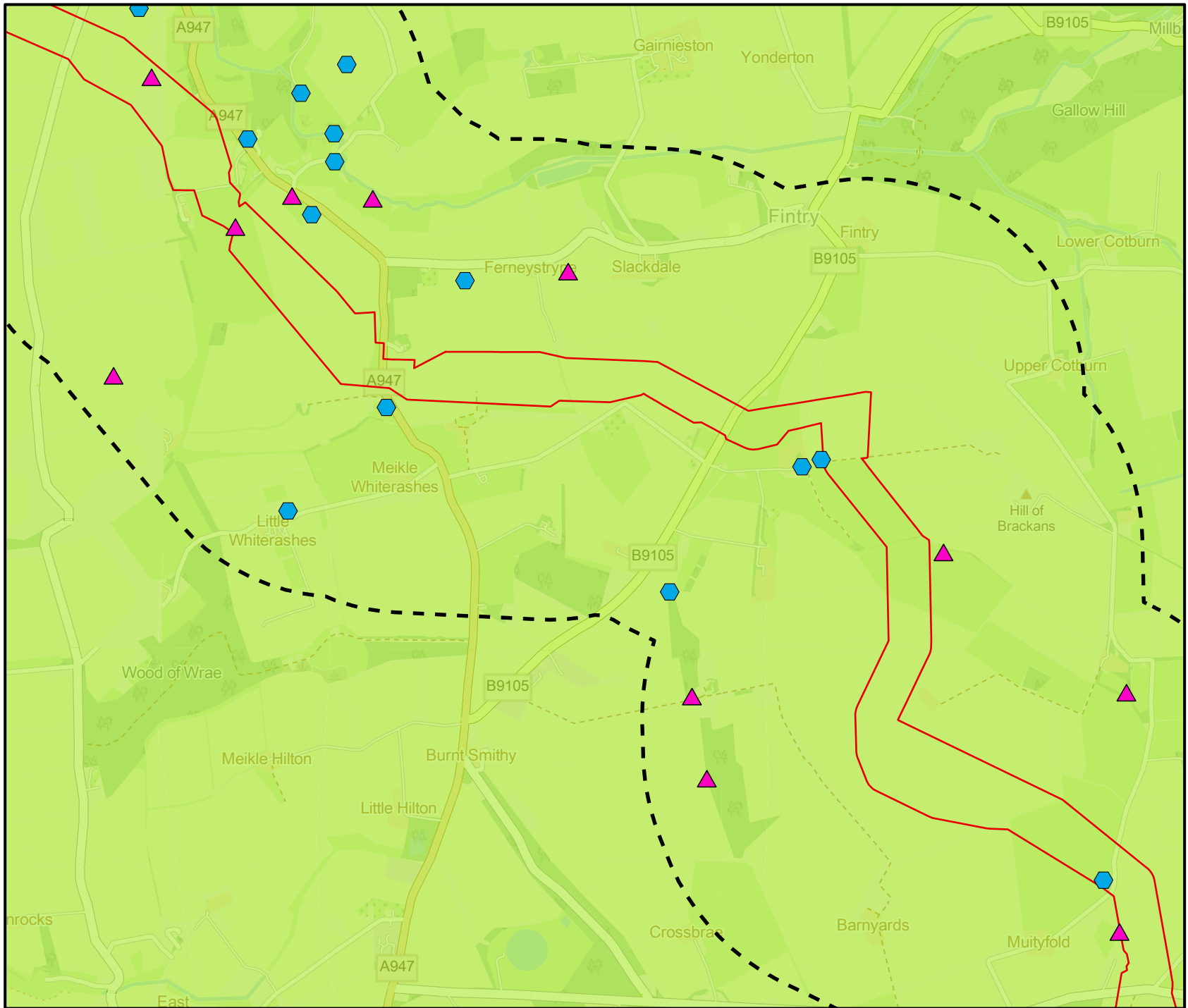
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REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP



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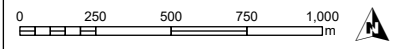
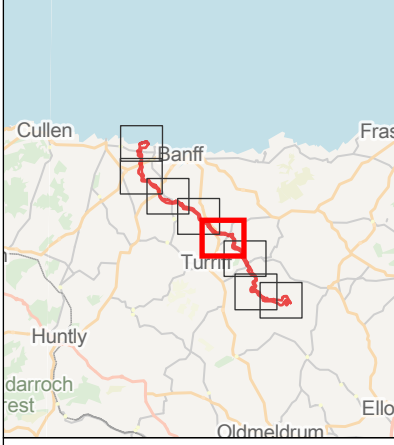
DRAWING TITLE
**Figure 6-2:
Groundwater Features**

STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 05 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- ▲ Spring
- ⬡ Well
- WFD Groundwater Classification**
- Good

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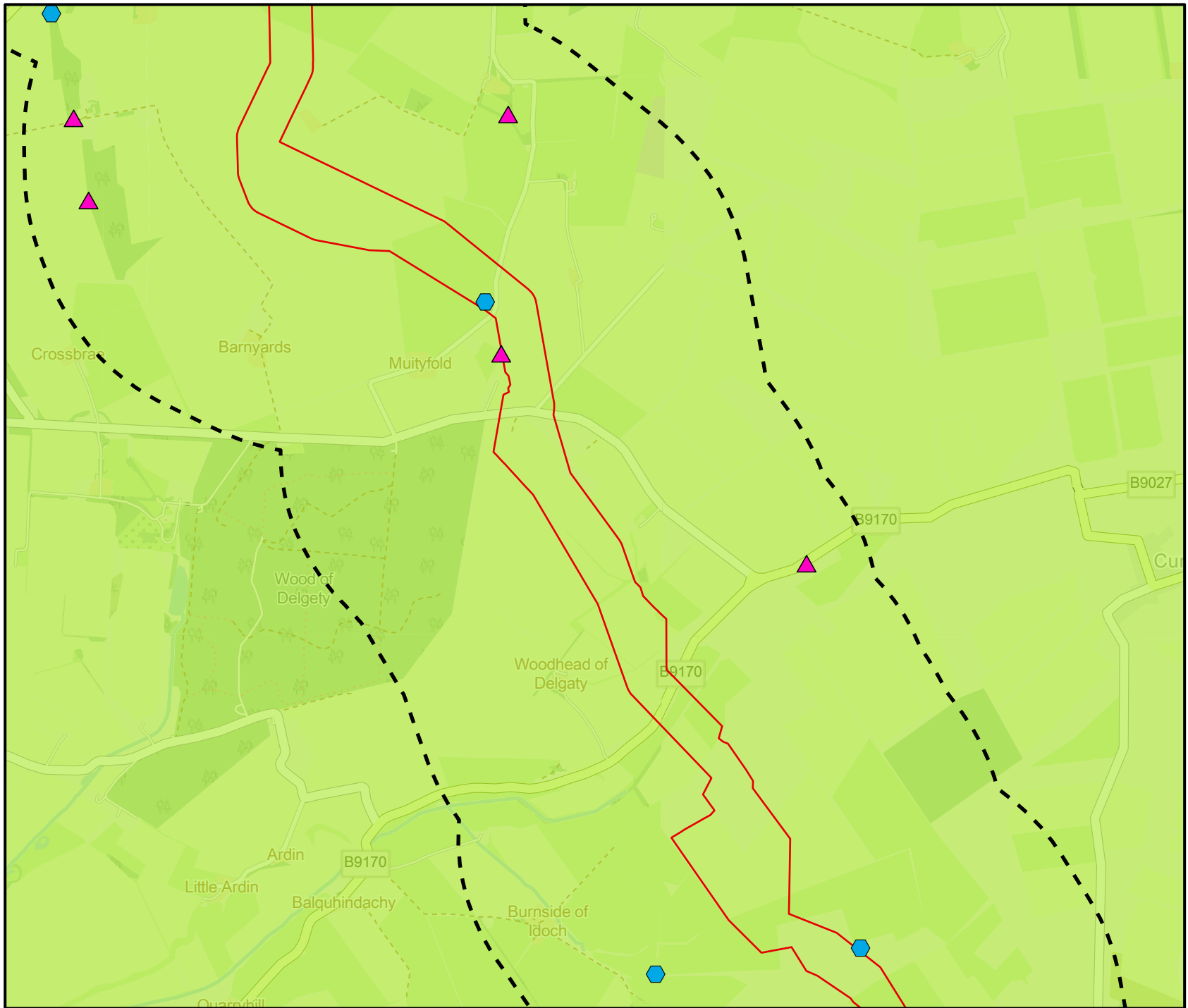


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COORDINATE PARAMETERS: OSGB36 / British National Grid (EPSG:27700)

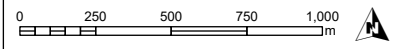
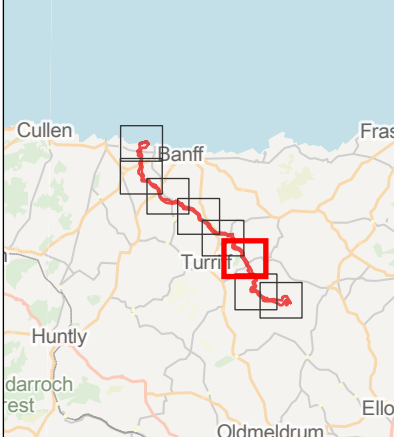
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STATUS: Approved	SCALE: 1:25,000
DRAWING NUMBER: N/A	SHEET NO: 06 of 09
	REV: N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- ▲ Spring
- Well
- WFD Groundwater Classification**
- Good

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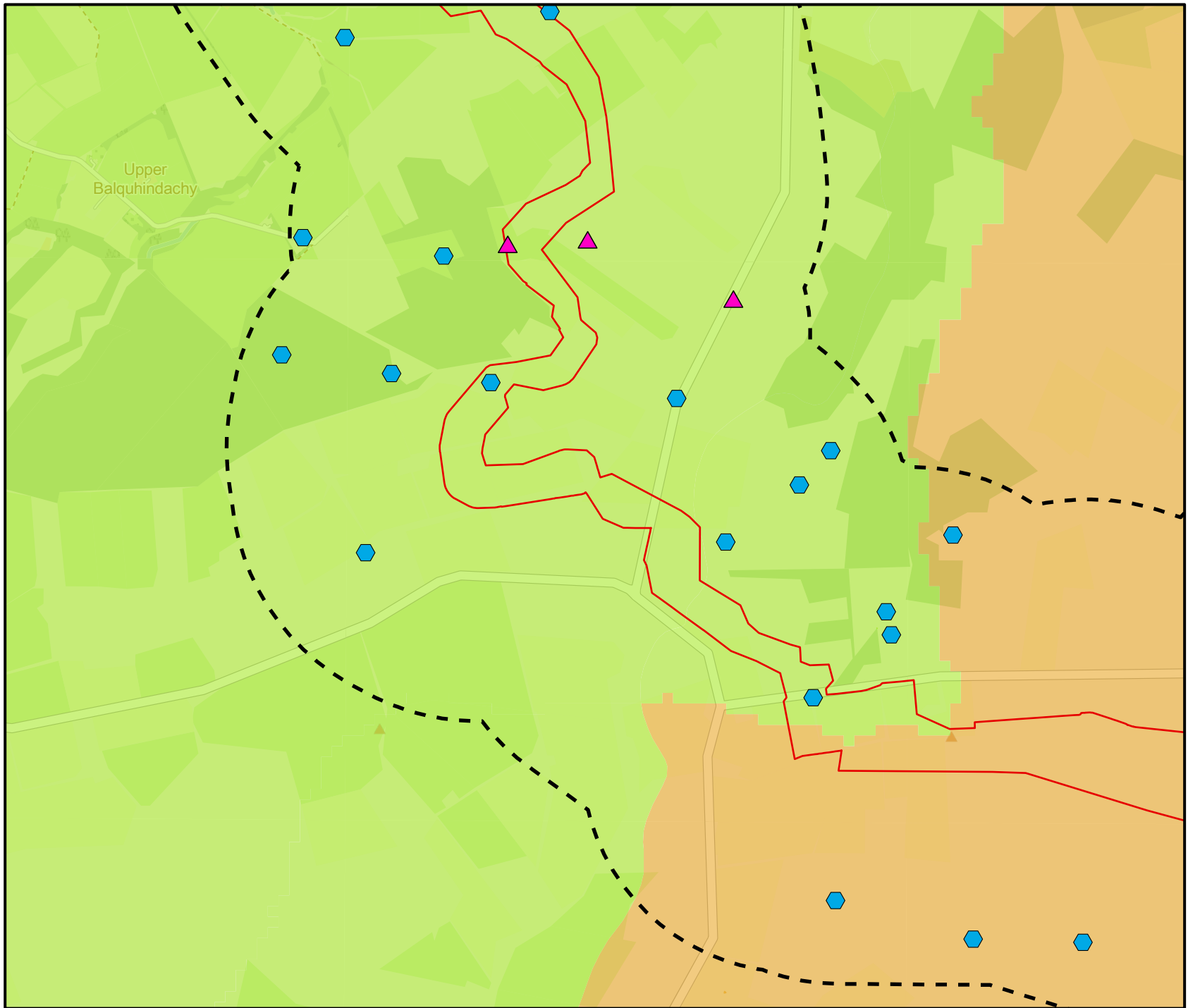
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REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP



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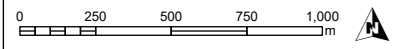
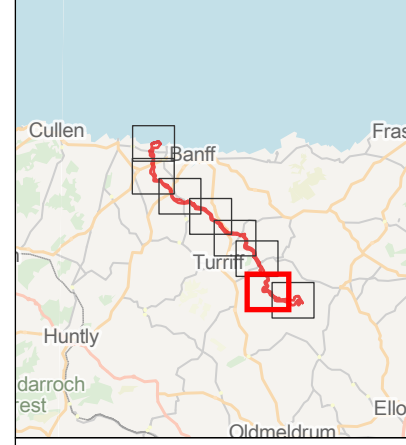
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**Figure 6-2:
 Groundwater Features**

STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 07 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- ▲ Spring
- ⬡ Well
- WFD Groundwater Classification**
- Good
- Poor

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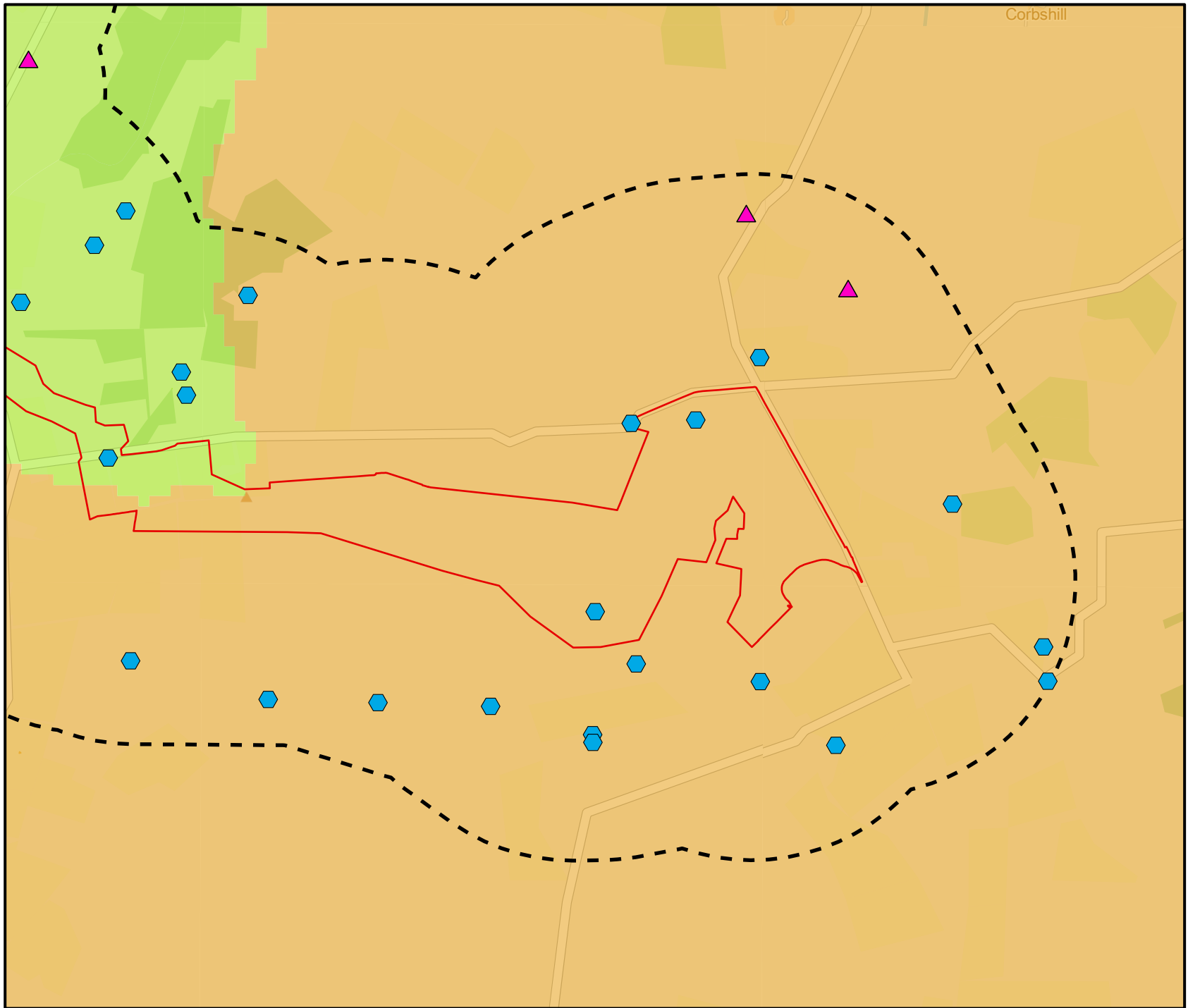
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REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP



CONTRACTOR DRAWING NO: UKCAL1_ARP_WNF_ENV_MAP_00188
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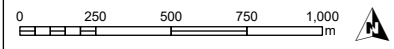
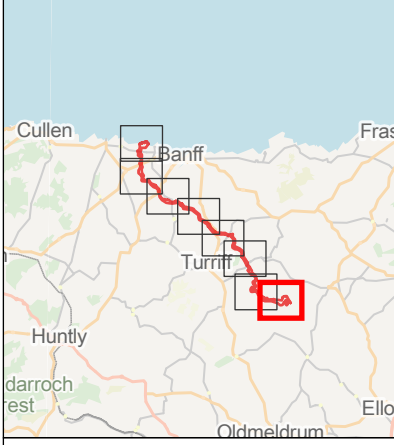
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**Figure 6-2:
 Groundwater Features**

STATUS: Approved	SCALE: 1:25,000
DRAWING NUMBER: N/A	SHEET NO: 08 of 09
	REV: N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Hydrogeological Features**
- ▲ Spring
- ⬡ Well
- WFD Groundwater Classification**
- Good
- Poor

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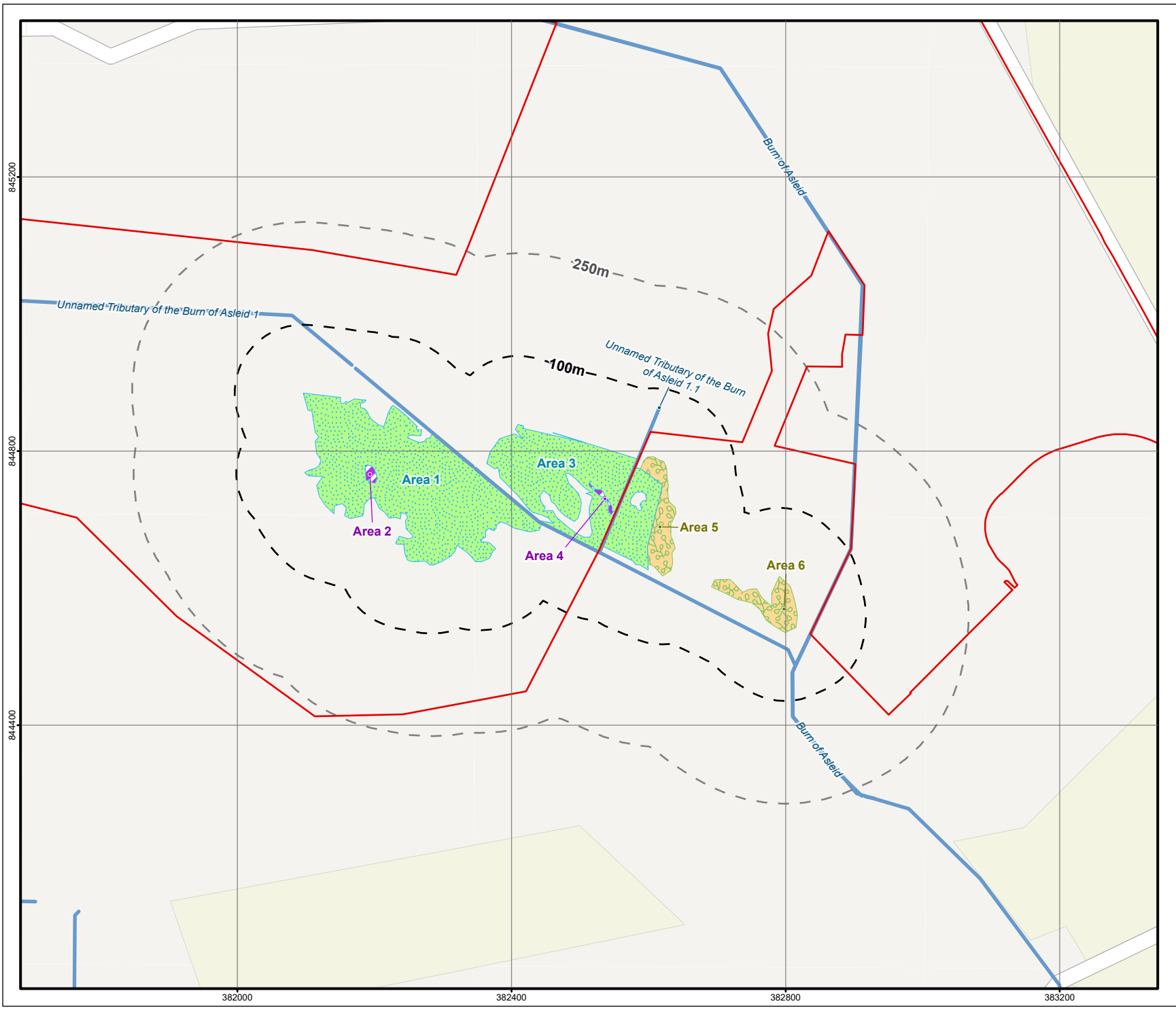


CONTRACTOR DRAWING NO UKCAL1_ARP_WNF_ENV_MAP_00189	CONTRACTOR REV 04
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COORDINATE PARAMETERS
OSGB36 / British National Grid (EPSG:27700)

DRAWING TITLE
**Figure 6-2:
Groundwater Features**

STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 09 of 09 / N/A



Onshore Transmission Infrastructure Red Line Boundary

Surface Water Feature

Potential Ground Water Dependent Terrestrial Ecosystems (GWDTEs).

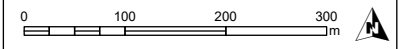
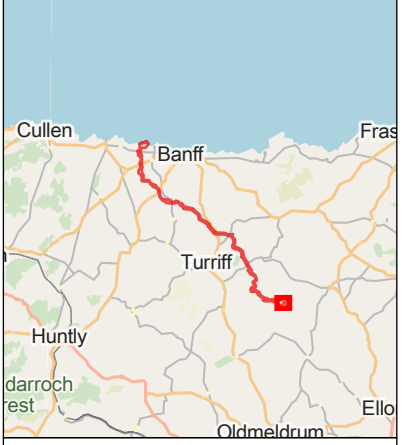
- MG9 - *Holcus lanatus-Deschampsia cespitosa* grassland
- MG10a - *Holcus lanatus-Juncus effusus* rush-pasture, typical sub-community
- M23b - *Juncus effusus/acutiflorus-Galium palustre* rush-pasture, *Juncus effusus* sub-community

Ecosystem Area Buffer

- 100m Buffer – Excavations less than 1m deep
- 250m Buffer – Excavations greater than 1m deep

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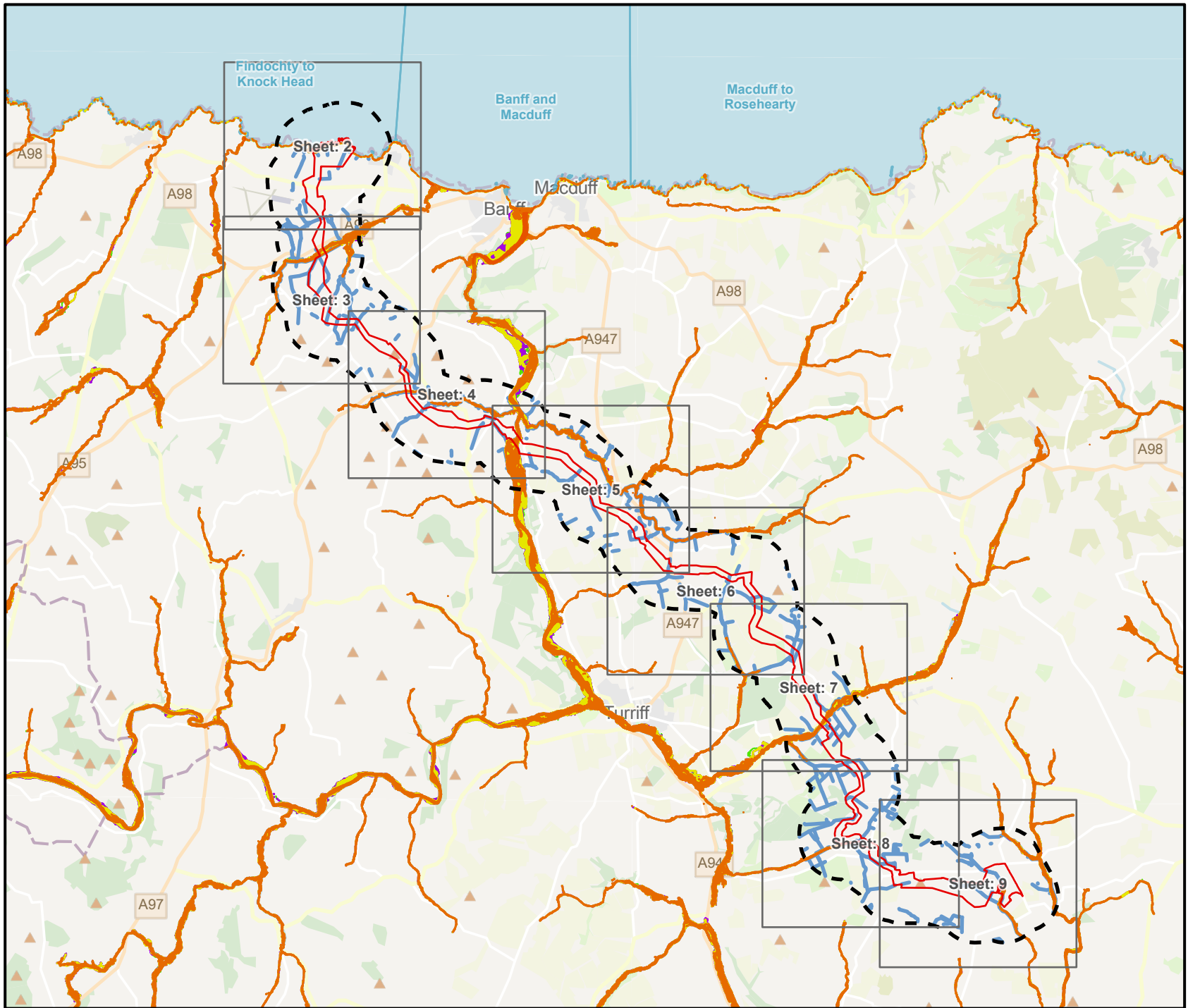


CONTRACTOR DRAWING NO: UKCAL1_ARP_WNF_ENV_MAP_00190 | CONTRACTOR REV: 04

GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)

DRAWING TITLE: **Figure 6-3: Potential Ground Water Dependent Terrestrial Ecosystems (GWDTEs)**

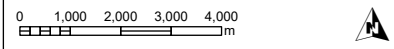
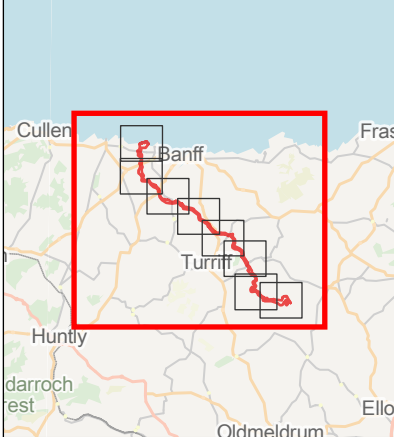
STATUS: Approved	SCALE: 1:7,500
DRAWING NUMBER: N/A	SHEET NO: 01 of 01 REV: N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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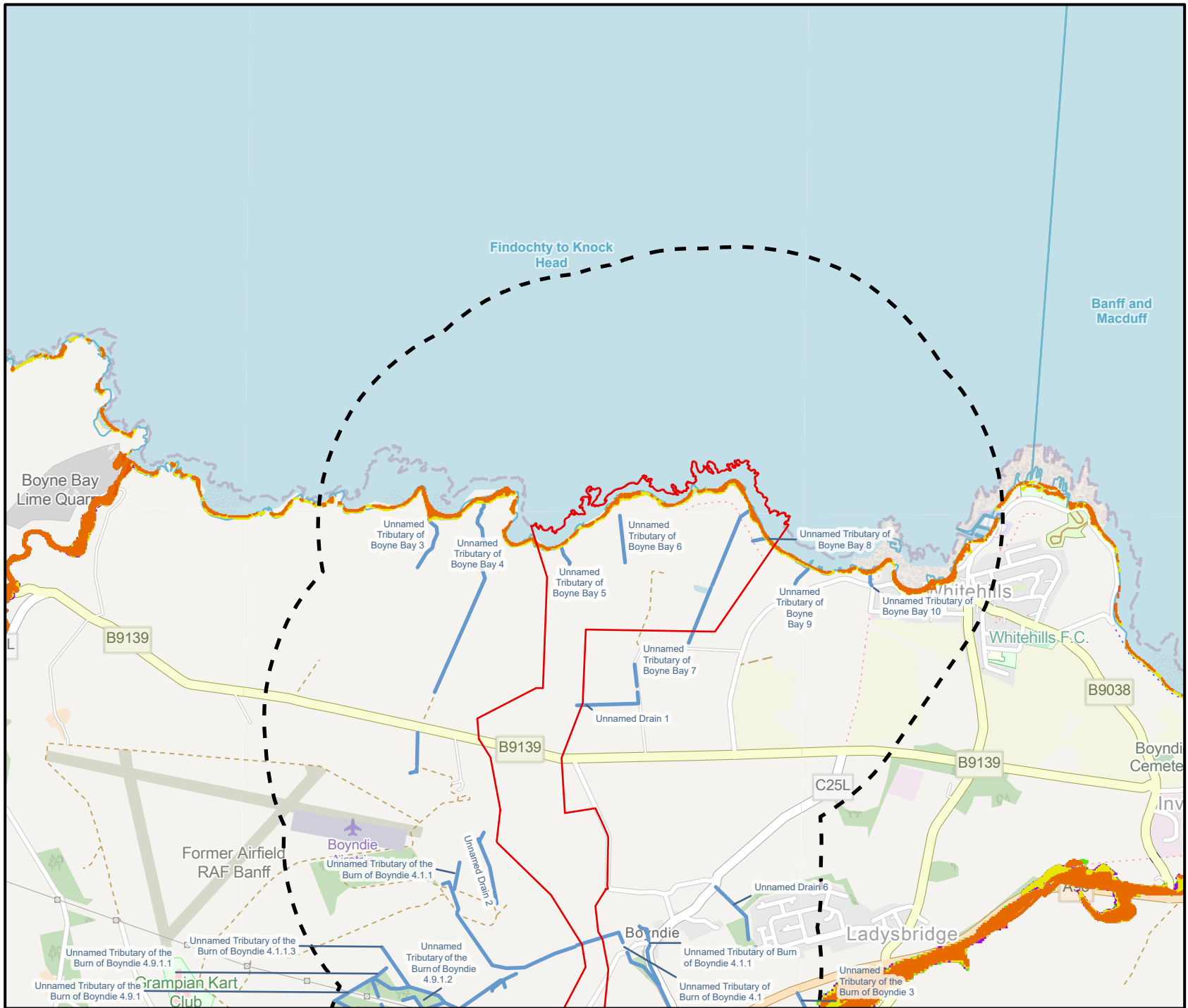
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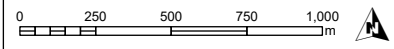
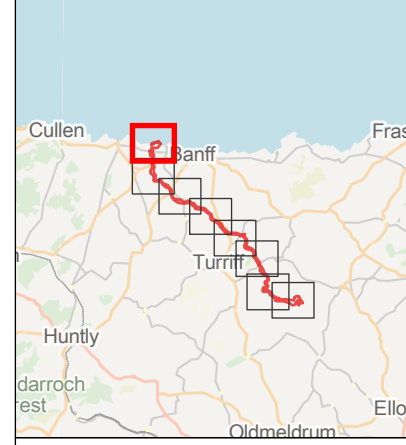
DRAWING TITLE
**Figure 6-4:
 Fluvial and Coastal Flood Risk**

STATUS: Approved	SCALE: 1:150,000
DRAWING NUMBER: N/A	SHEET NO: 01 of 09
	REV: N/A



- Onshore Transmission Infrastructure Red Line Boundary
 - 1km Buffer of Red Line Boundary
 - Surface Water Feature
- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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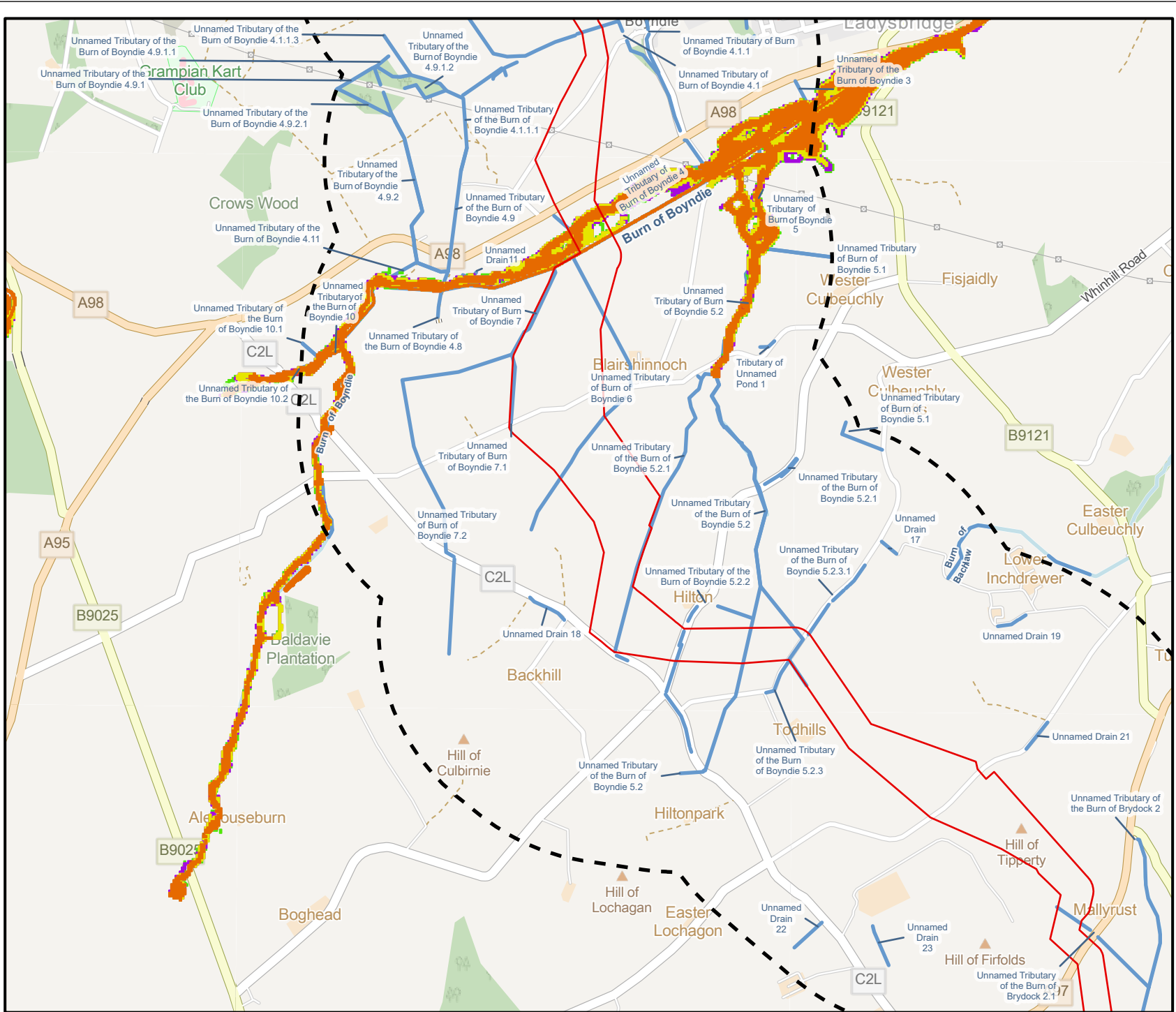
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CONTRACTOR DRAWING NO UKCAL1_ARP_WNF_ENV_MAP_00192	CONTRACTOR REV 04
COORDINATE PARAMETERS OSGB36 / British National Grid (EPSG:27700)	

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**Figure 6-4:
 Fluvial and Coastal Flood Risk**

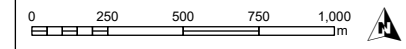
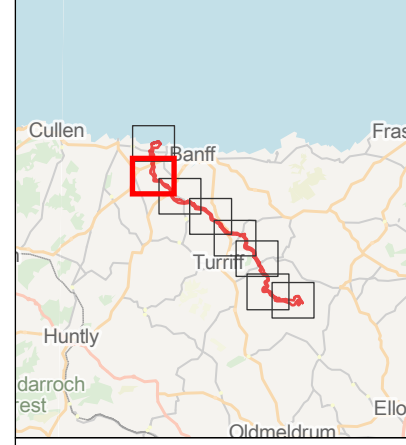
STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 02 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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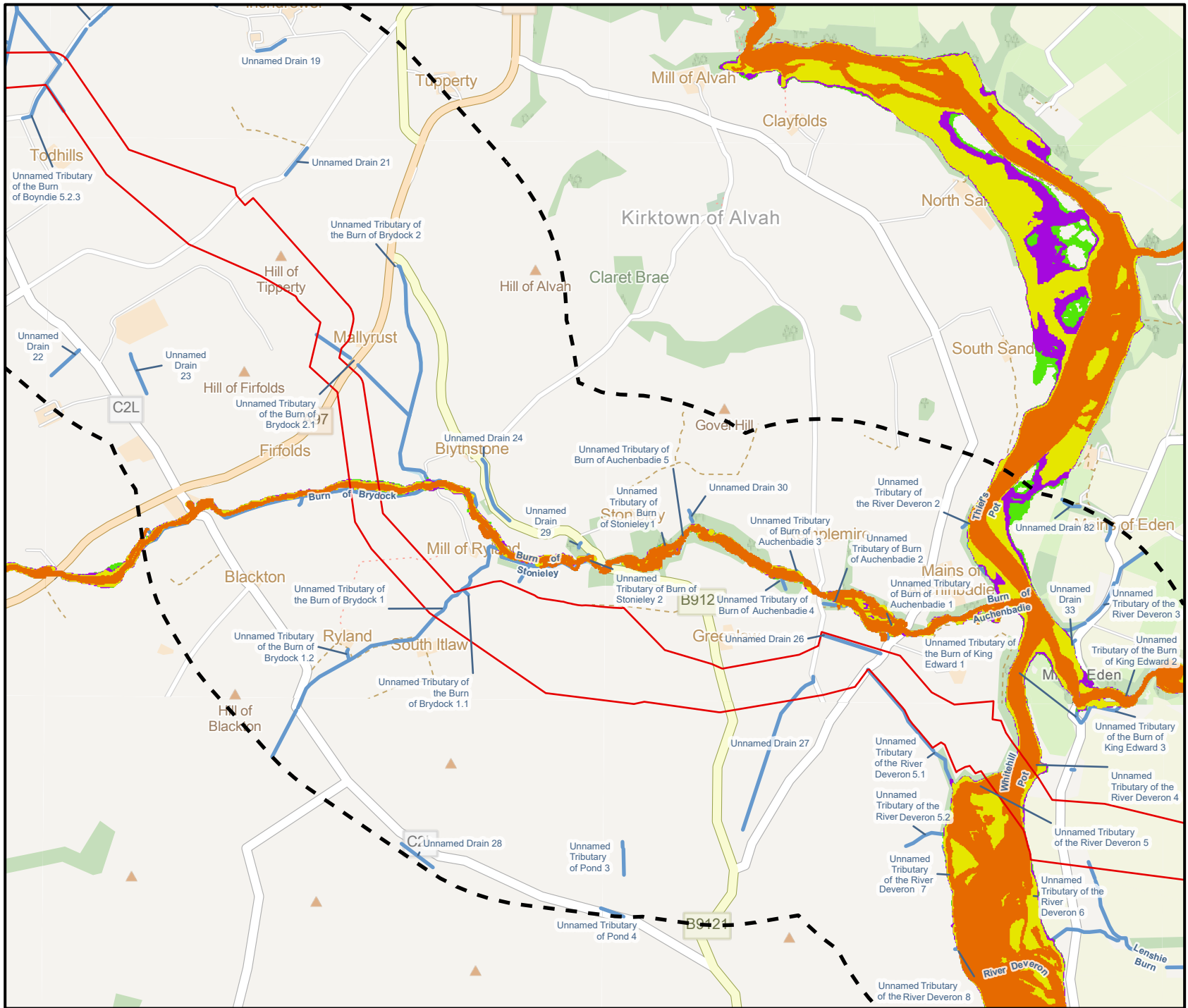
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REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP



CONTRACTOR DRAWING NO UKCAL1_ARP_WNF_ENV_MAP_00193	CONTRACTOR REV 04
GEOIDETIC PARAMETERS OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE
**Figure 6-4:
Fluvial and Coastal Flood Risk**

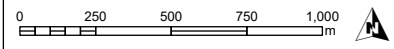
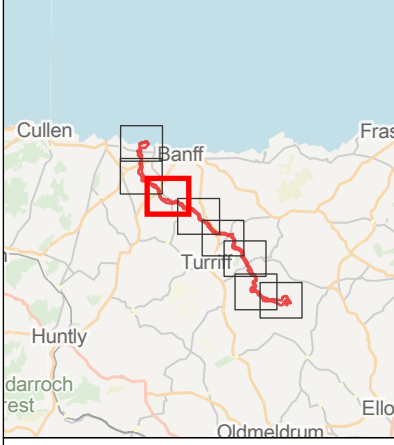
STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 03 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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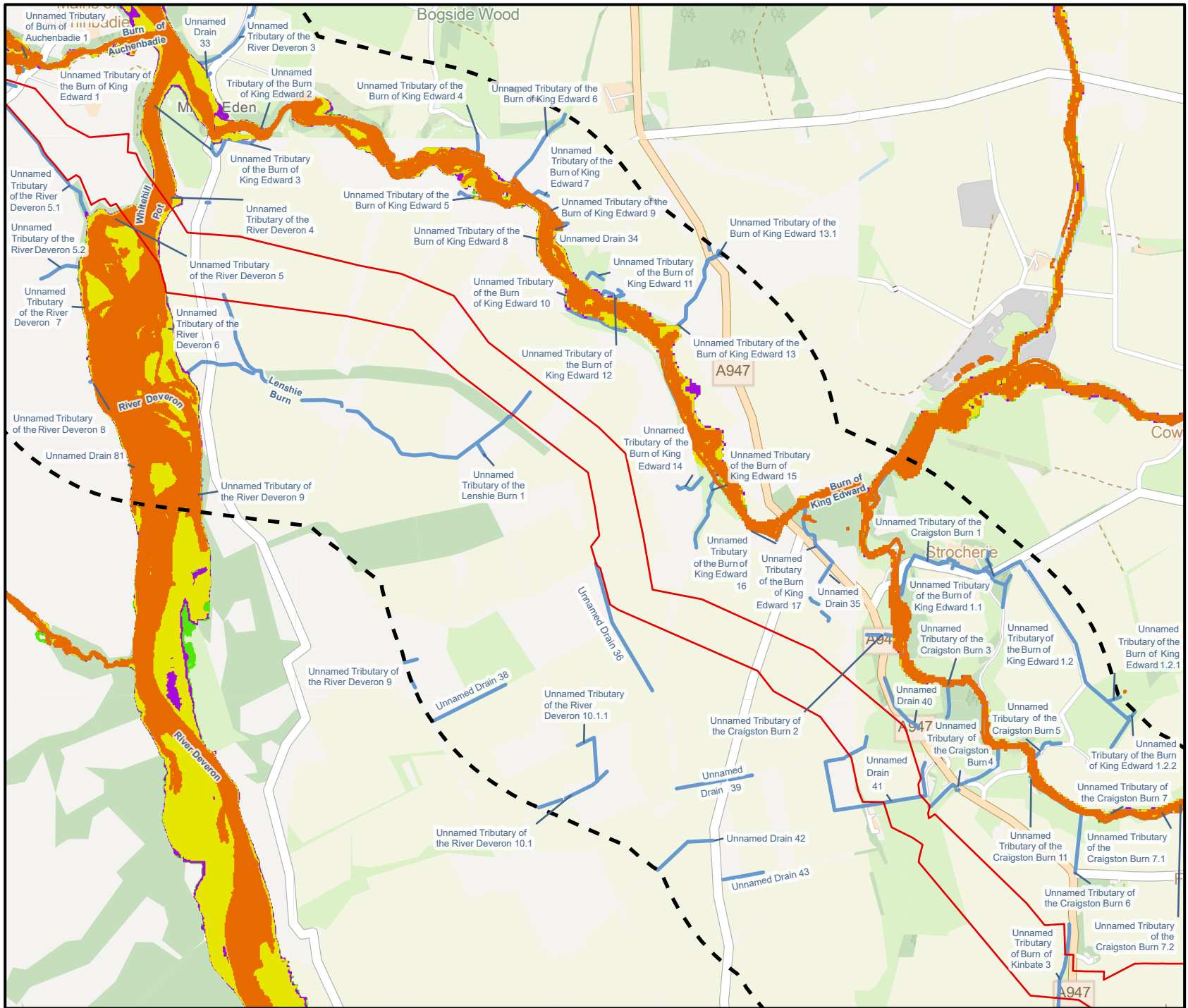
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REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP



CONTRACTOR DRAWING NO UKCAL1_ARP_WNF_ENV_MAP_00194	CONTRACTOR REV 04
GEOIDETIC PARAMETERS OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE
**Figure 6-4:
Fluvial and Coastal Flood Risk**

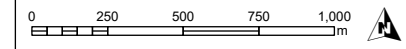
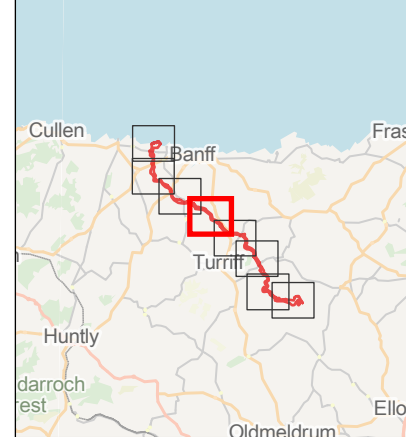
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DRAWING NUMBER N/A	SHEET NO / REV 04 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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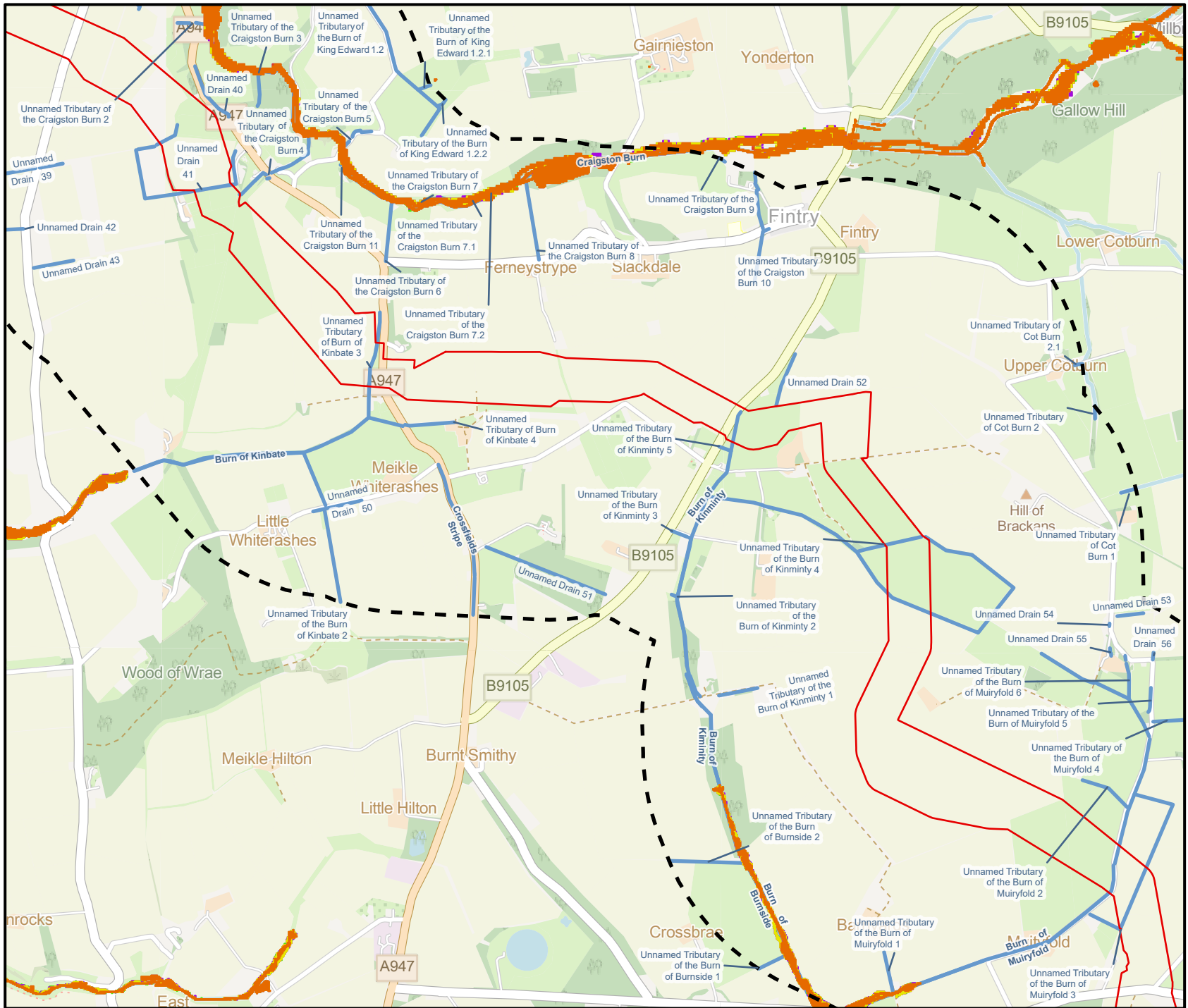
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Fluvial and Coastal Flood Risk**

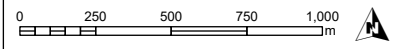
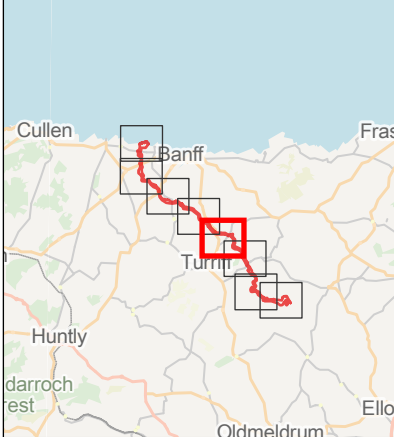
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DRAWING NUMBER N/A	SHEET NO / REV 05 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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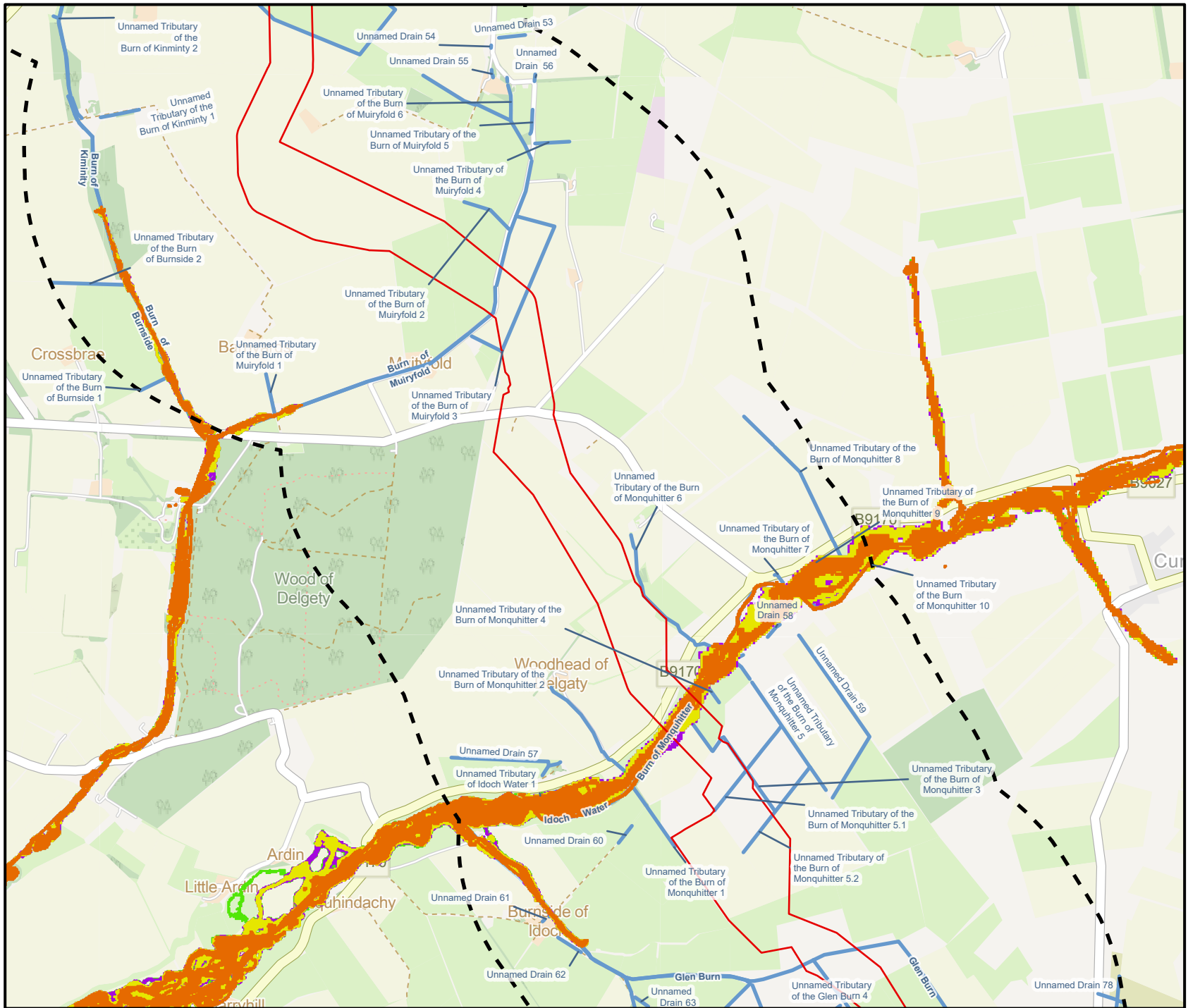
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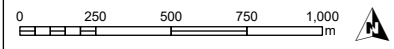
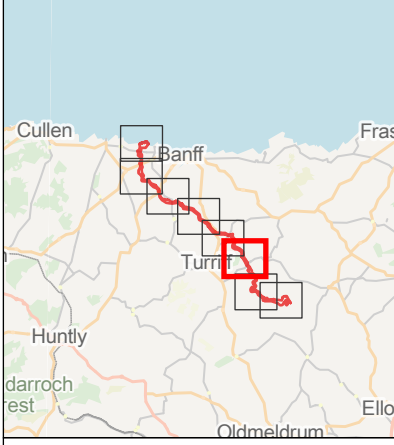
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**Figure 6-4:
Fluvial and Coastal Flood Risk**

STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 06 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
 - 1km Buffer of Red Line Boundary
 - Surface Water Feature
- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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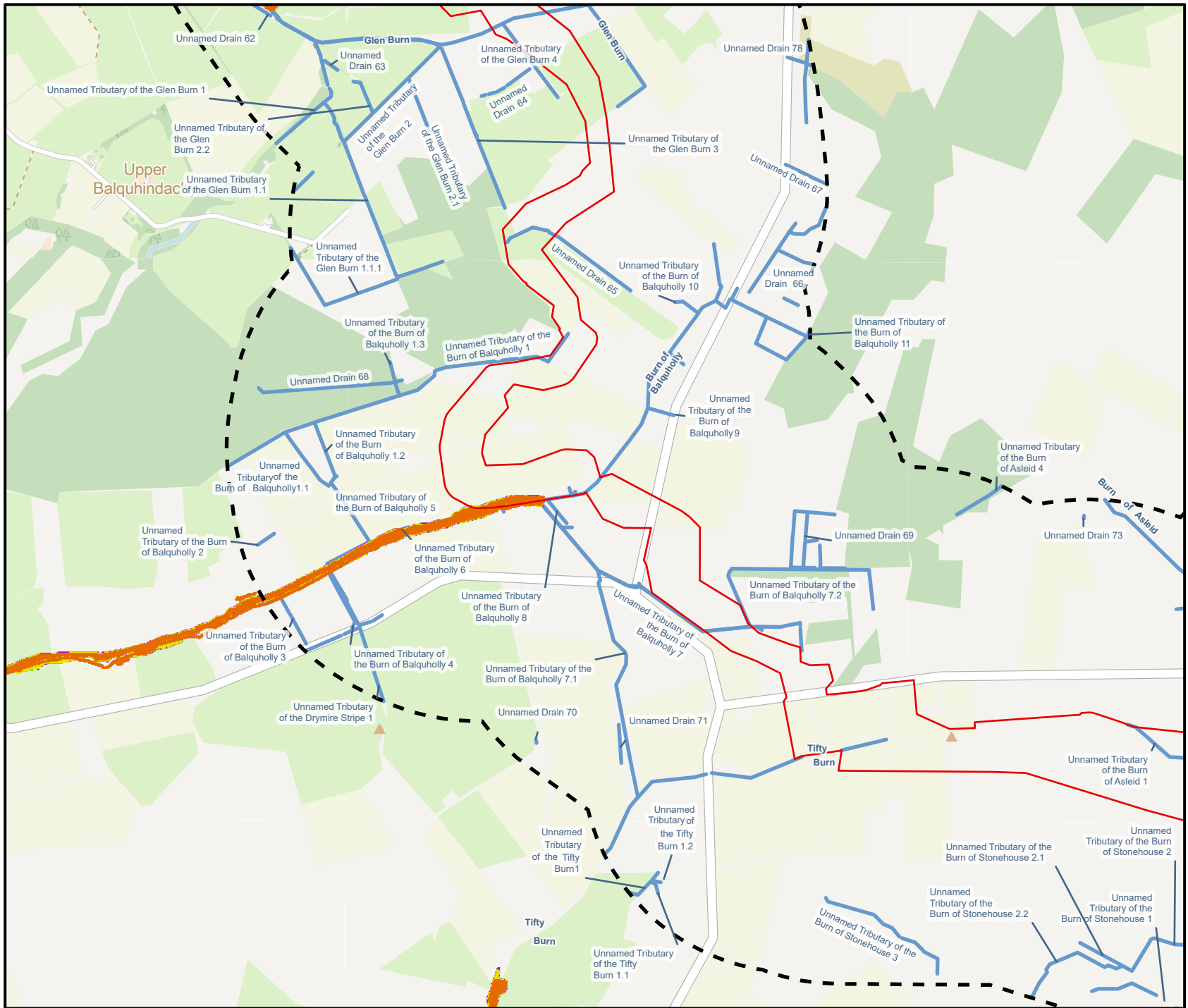
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GEOIDETIC PARAMETERS OSGB36 / British National Grid (EPSG:27700)	

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**Figure 6-4:
 Fluvial and Coastal Flood Risk**

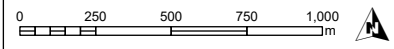
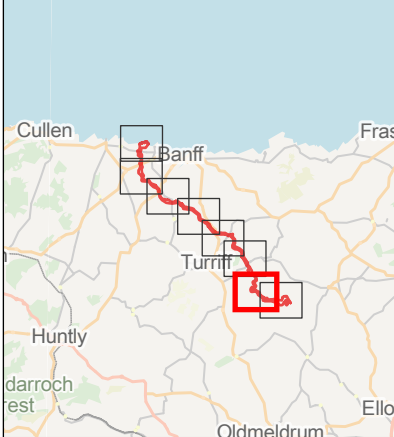
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DRAWING NUMBER N/A	SHEET NO / REV 07 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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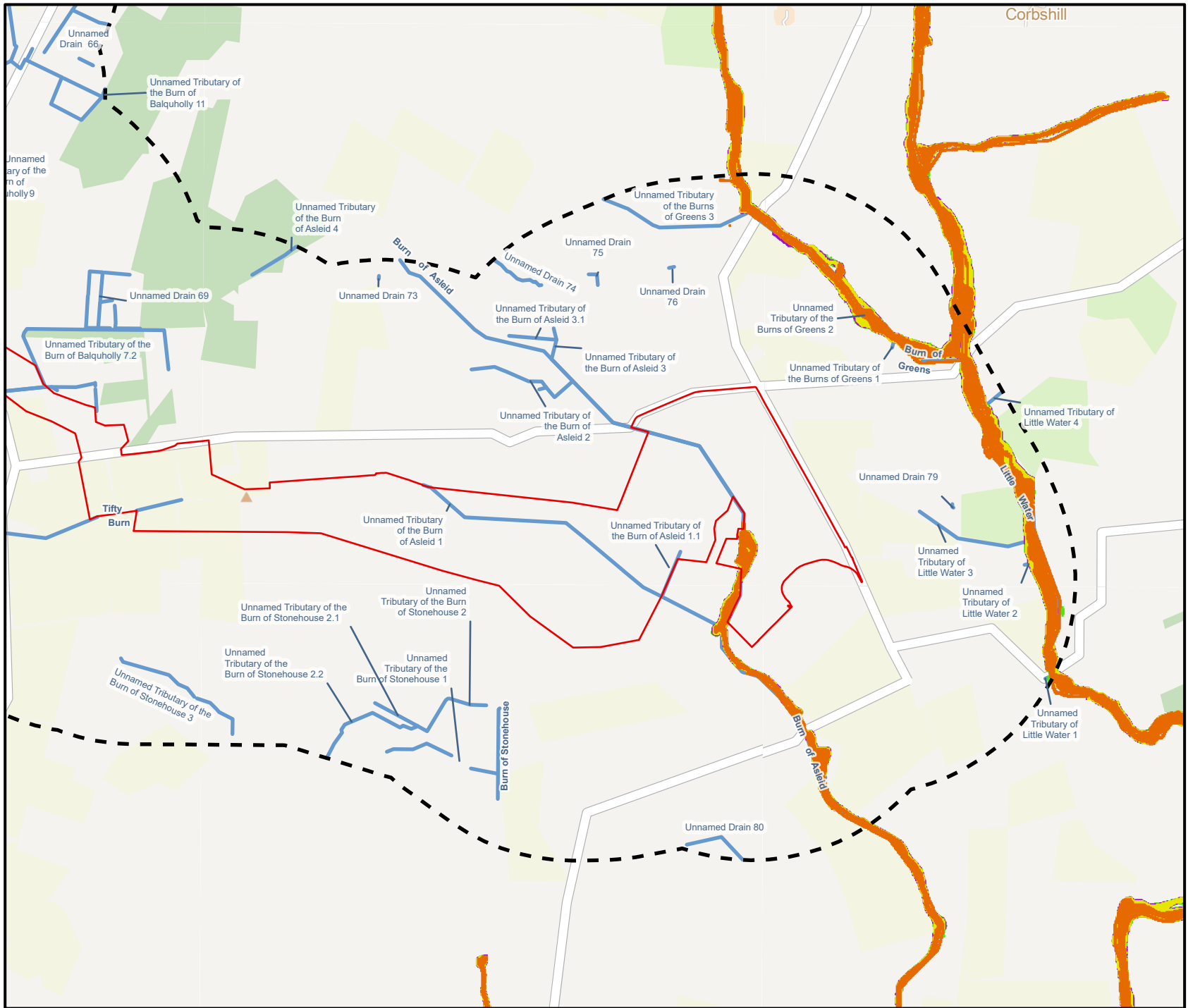
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Fluvial and Coastal Flood Risk**

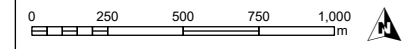
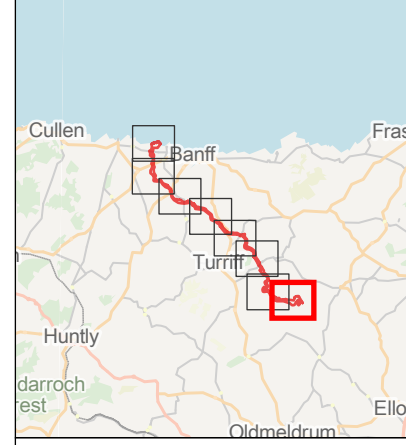
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DRAWING NUMBER N/A	SHEET NO / REV 08 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
 - 1km Buffer of Red Line Boundary
 - Surface Water Feature
- Fluvial and Coastal Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)
 - Climate Change Medium Likelihood for year 2080 with high emissions (1 in 200 year event)

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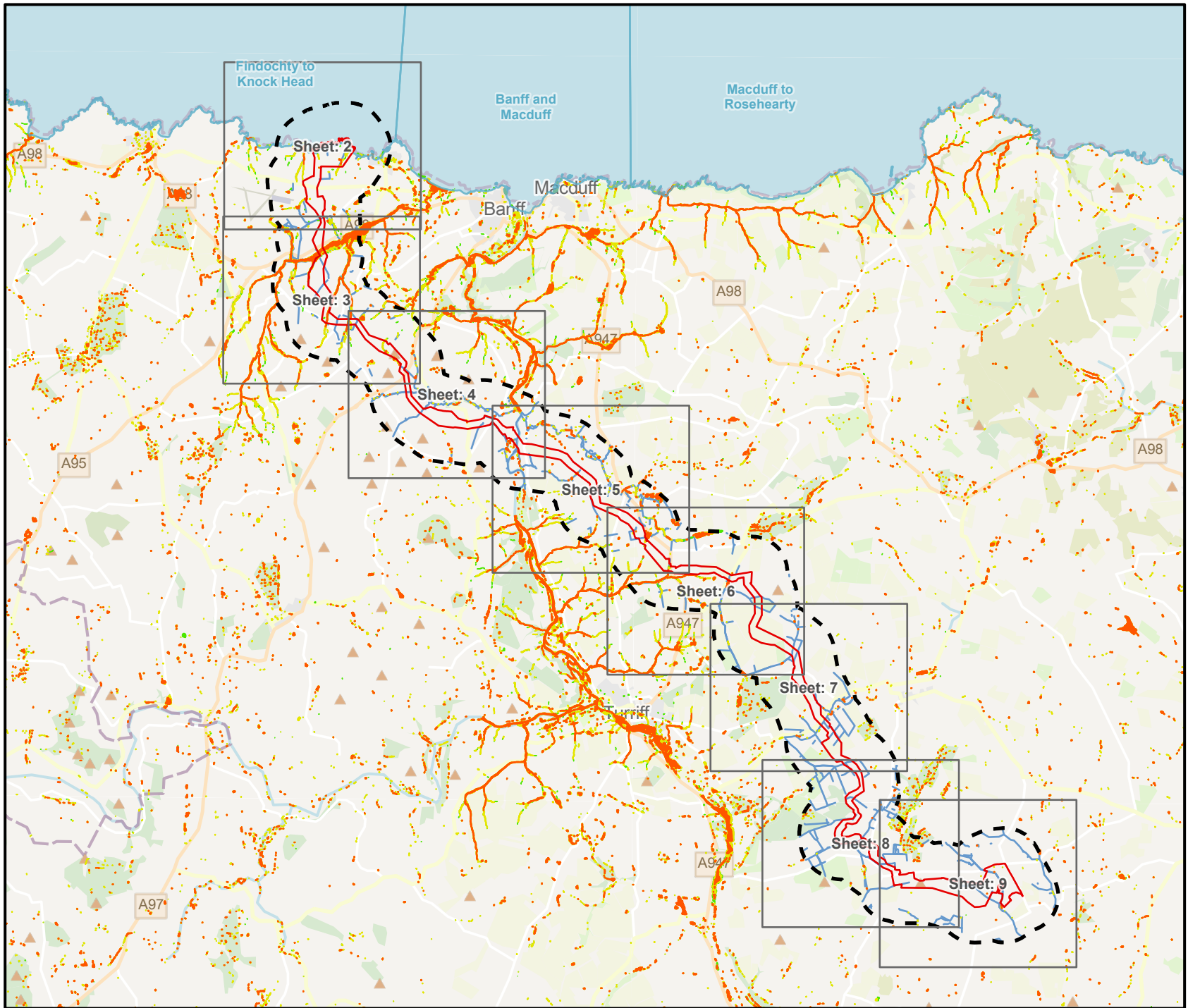


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COORDINATE PARAMETERS: OSGB36 / British National Grid (EPSG:27700)

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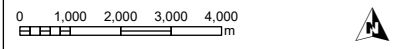
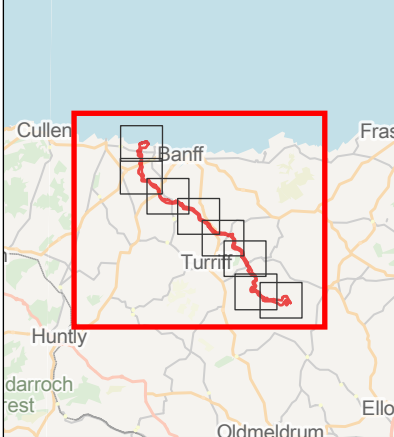
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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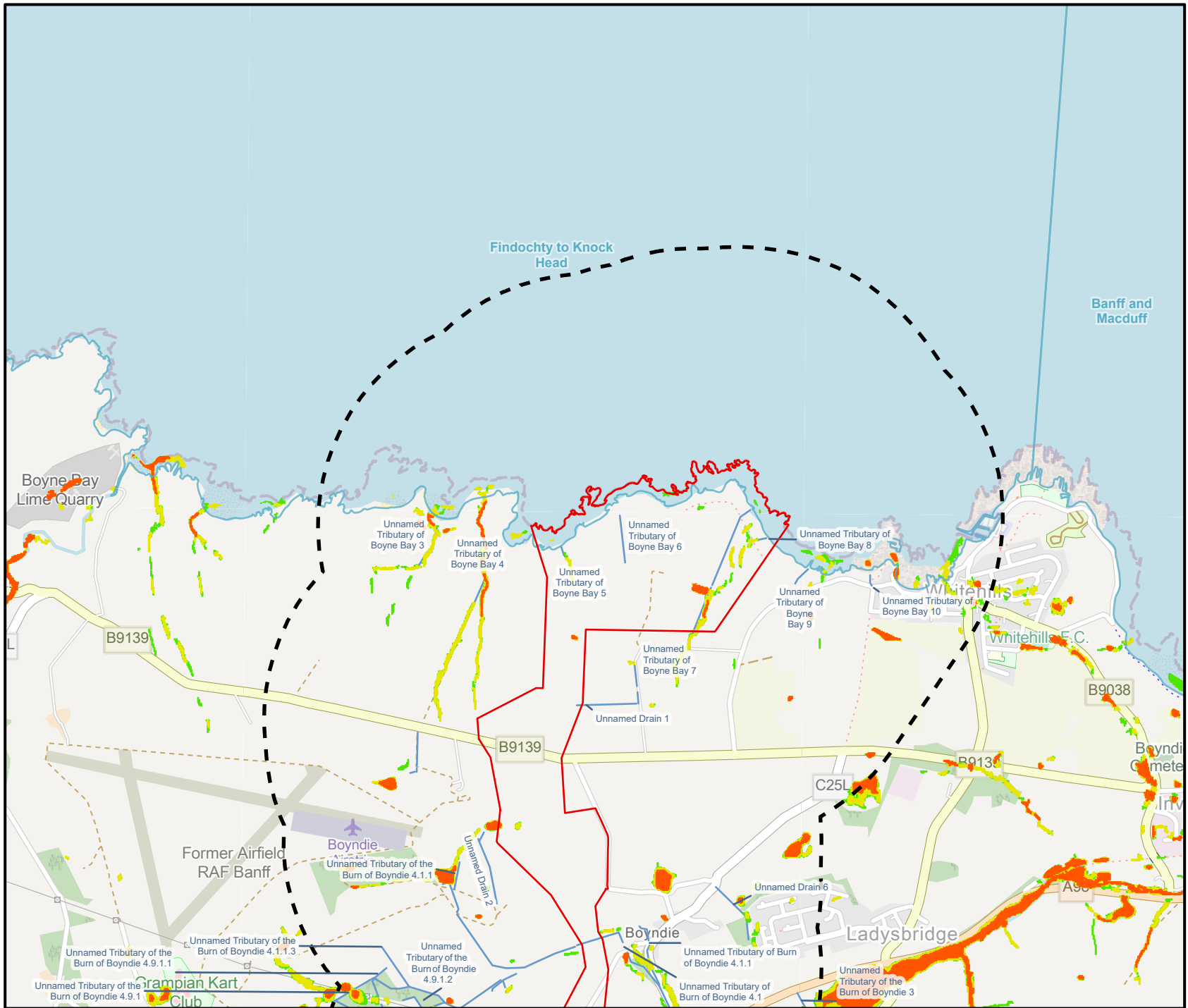
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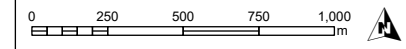
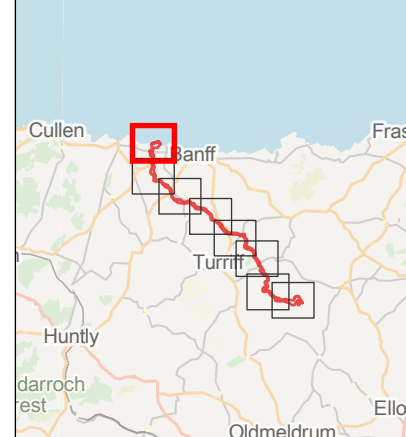
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**Figure 6-5:
Pluvial Flood Risk**

STATUS Approved	SCALE 1:150,000
DRAWING NUMBER N/A	SHEET NO / REV 01 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
 - 1km Buffer of Red Line Boundary
 - Surface Water Feature
- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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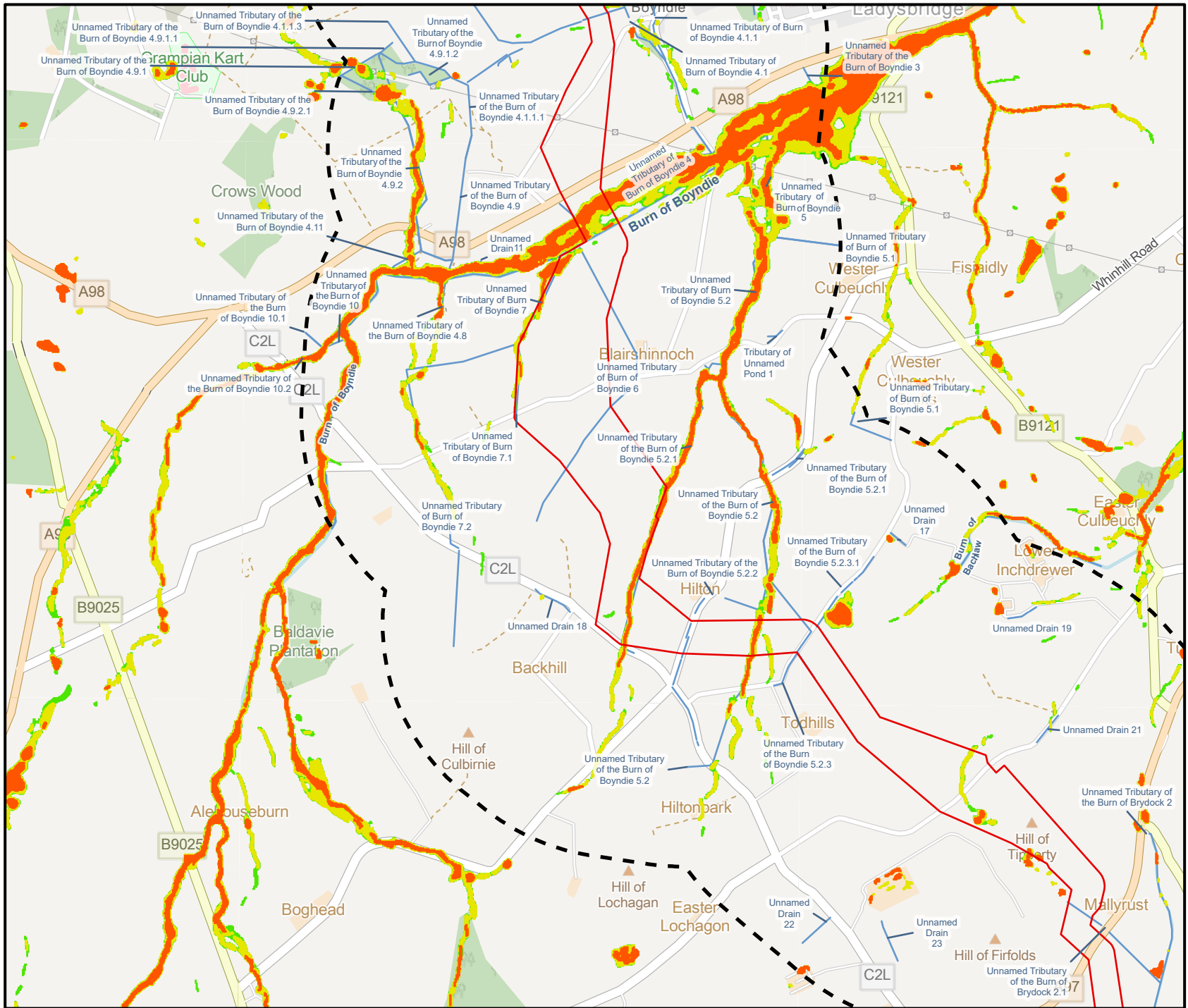
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GEOIDETIC PARAMETERS OSGB36 / British National Grid (EPSG:27700)	

**Figure 6-5:
Pluvial Flood Risk**

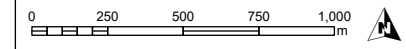
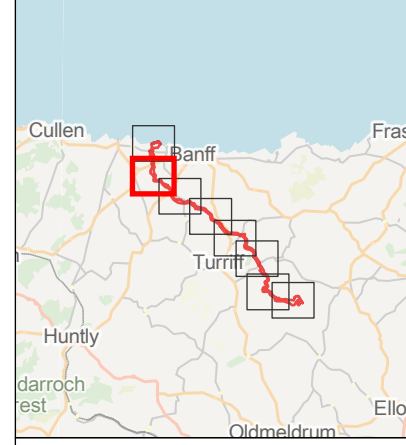
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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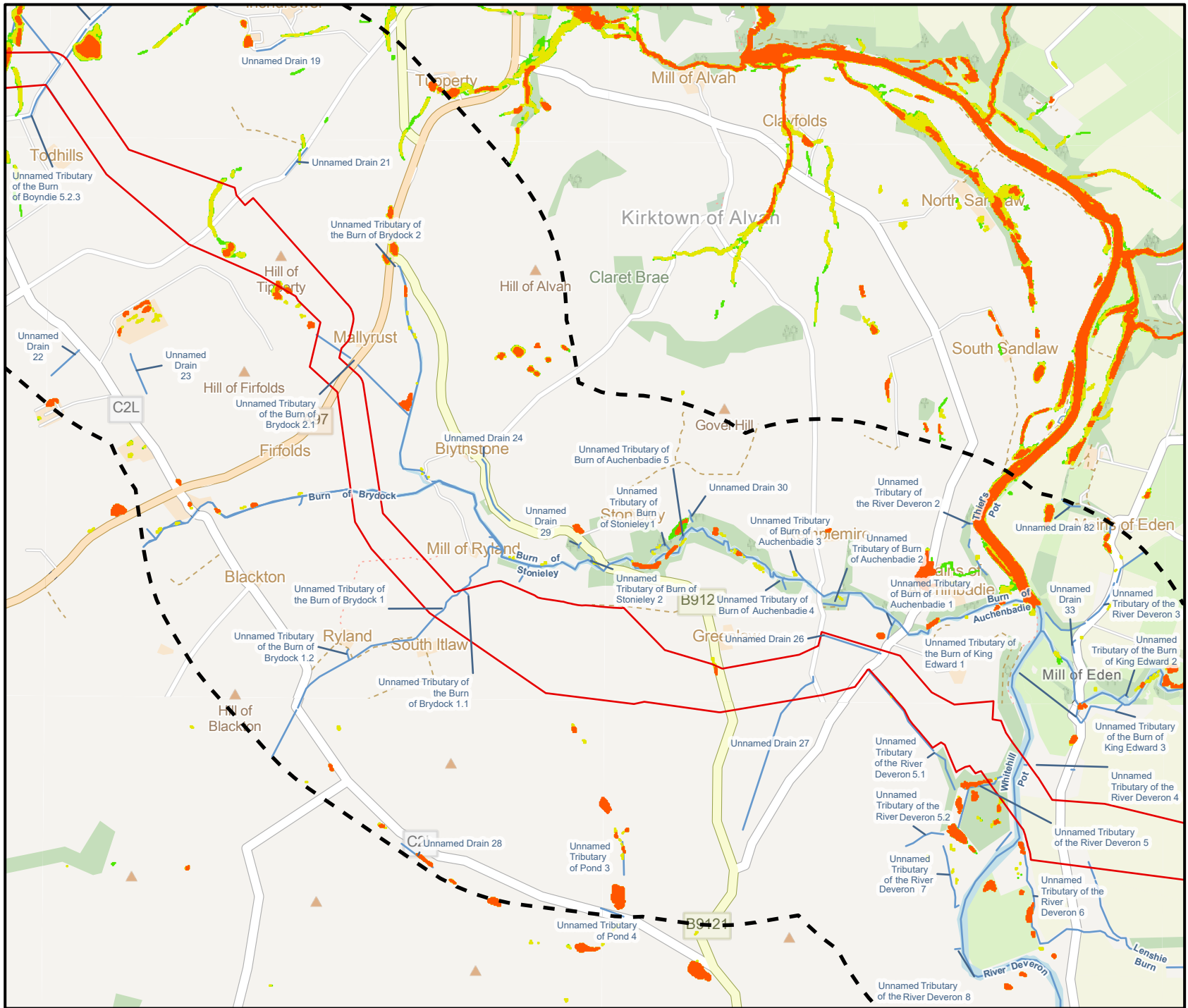
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**Figure 6-5:
Pluvial Flood Risk**

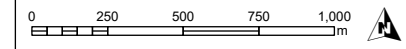
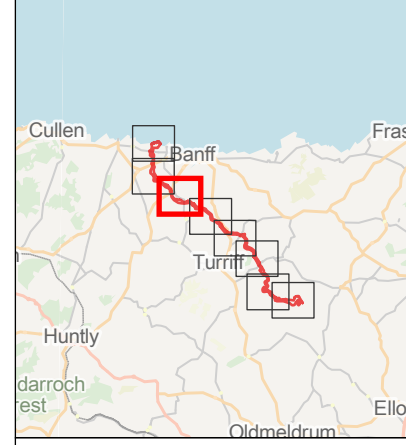
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DRAWING NUMBER N/A	SHEET NO / REV 03 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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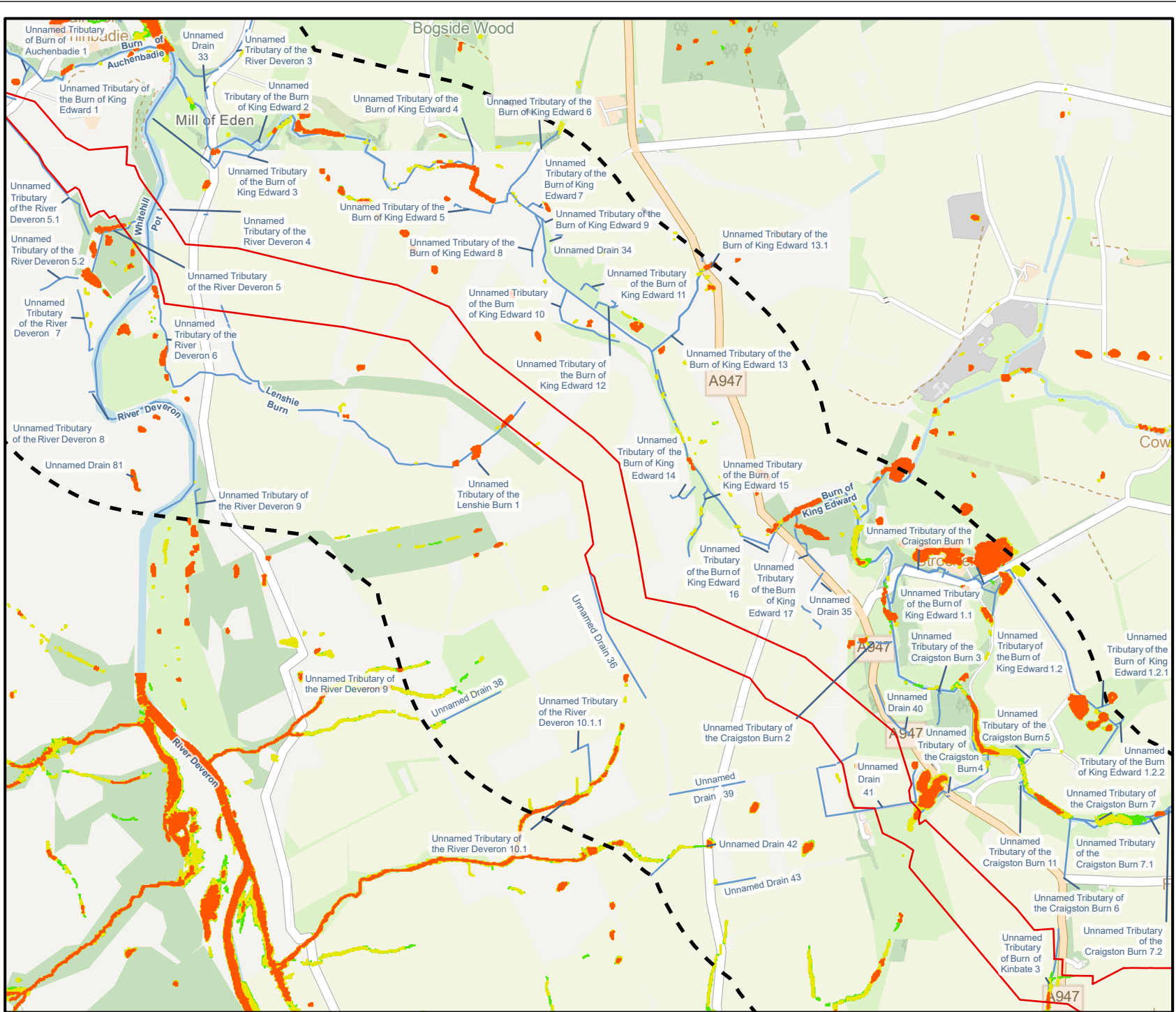
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Pluvial Flood Risk**

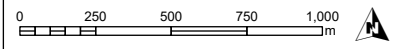
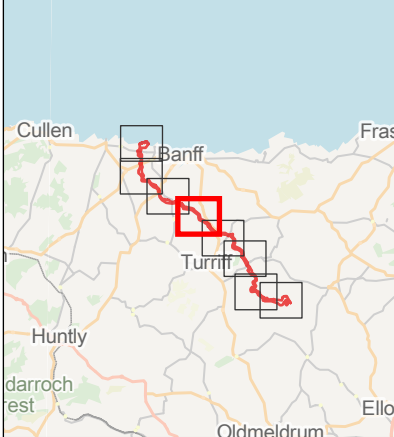
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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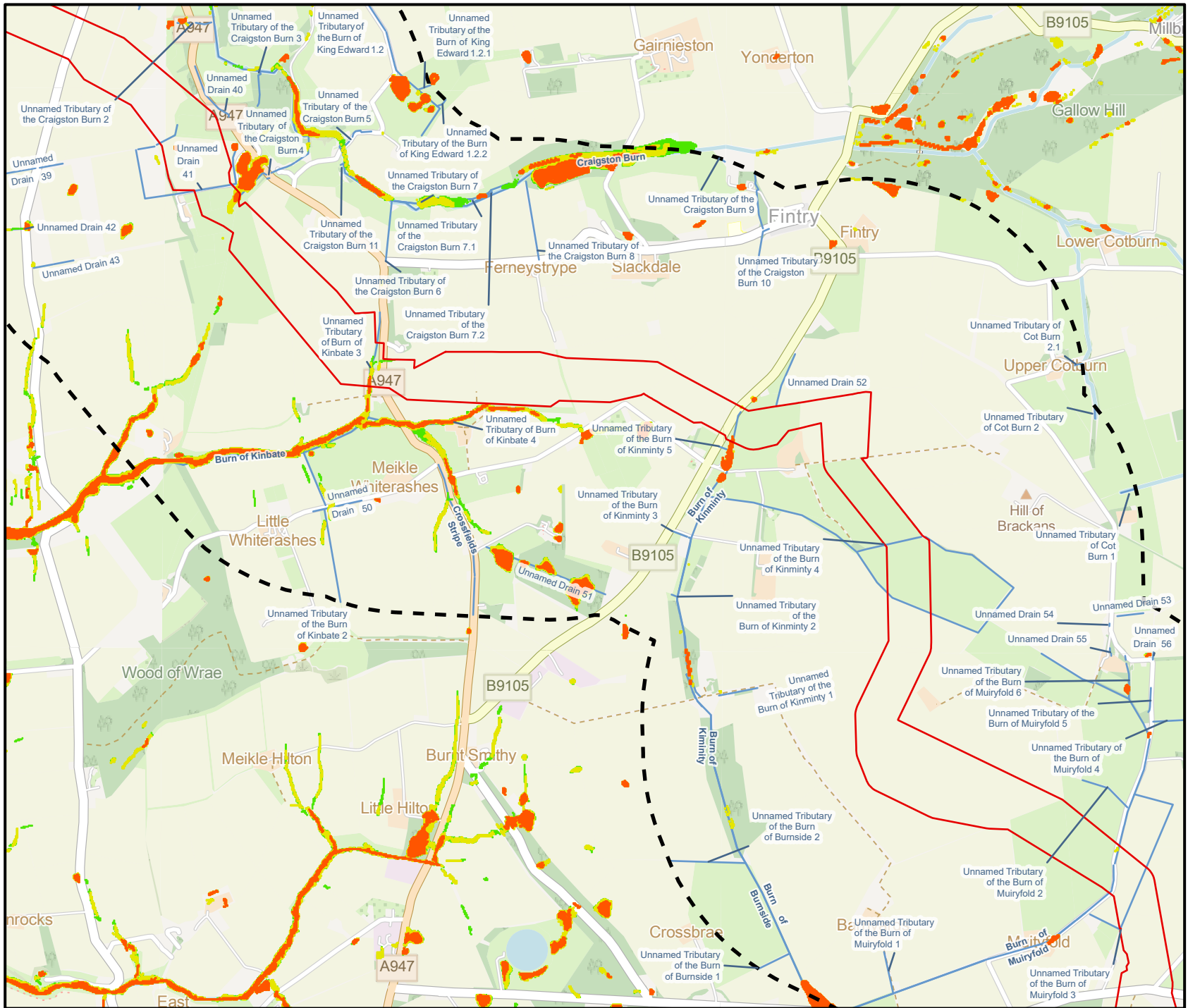
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Pluvial Flood Risk**

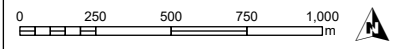
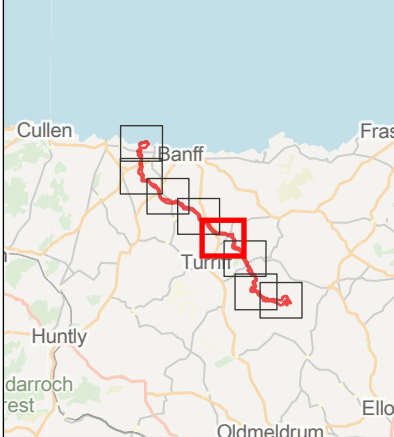
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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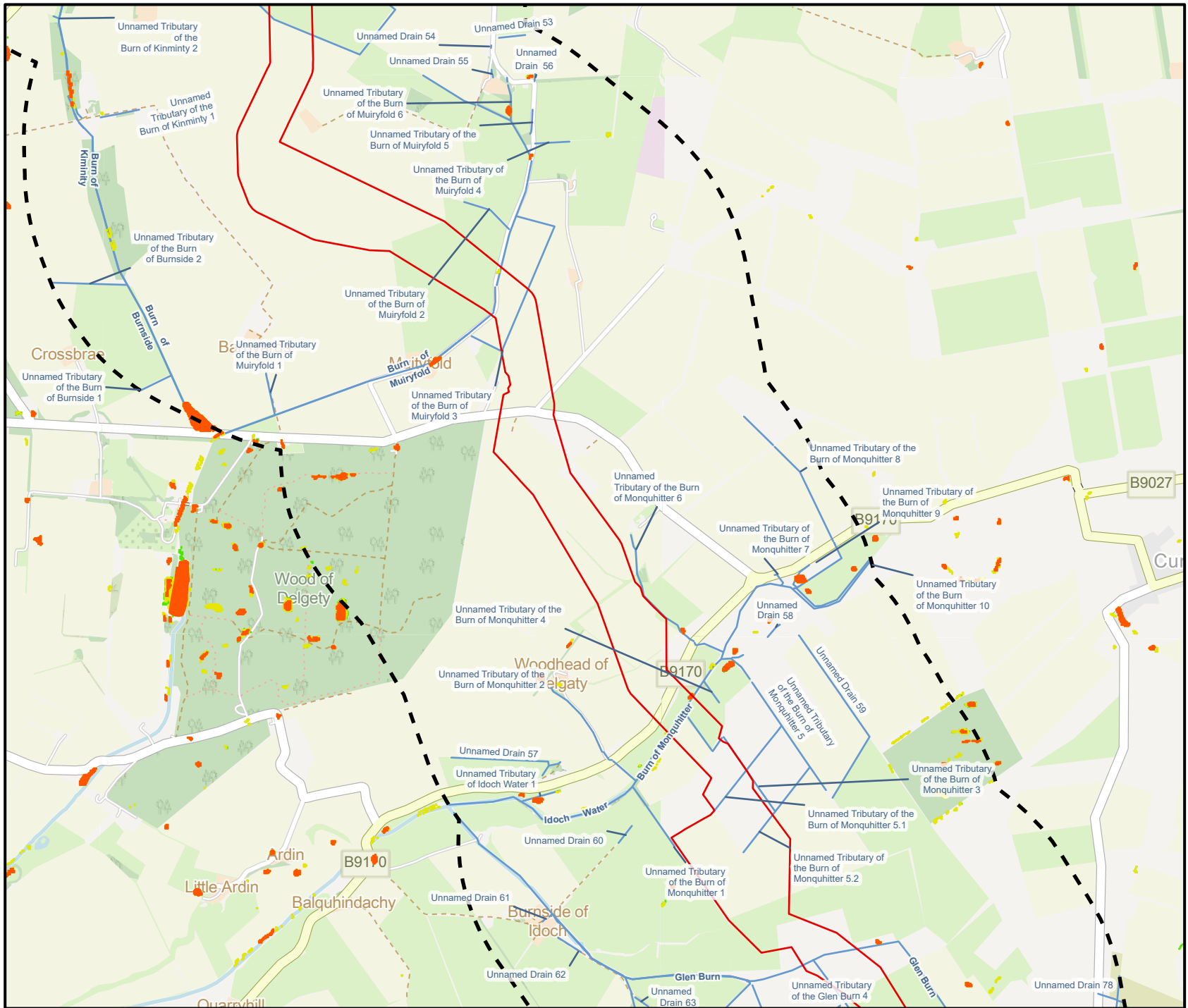
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**Figure 6-5:
Pluvial Flood Risk**

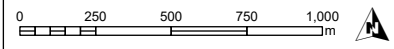
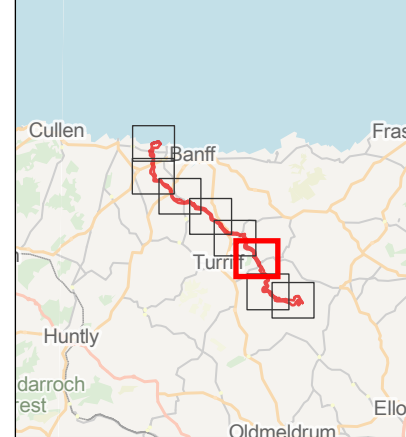
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- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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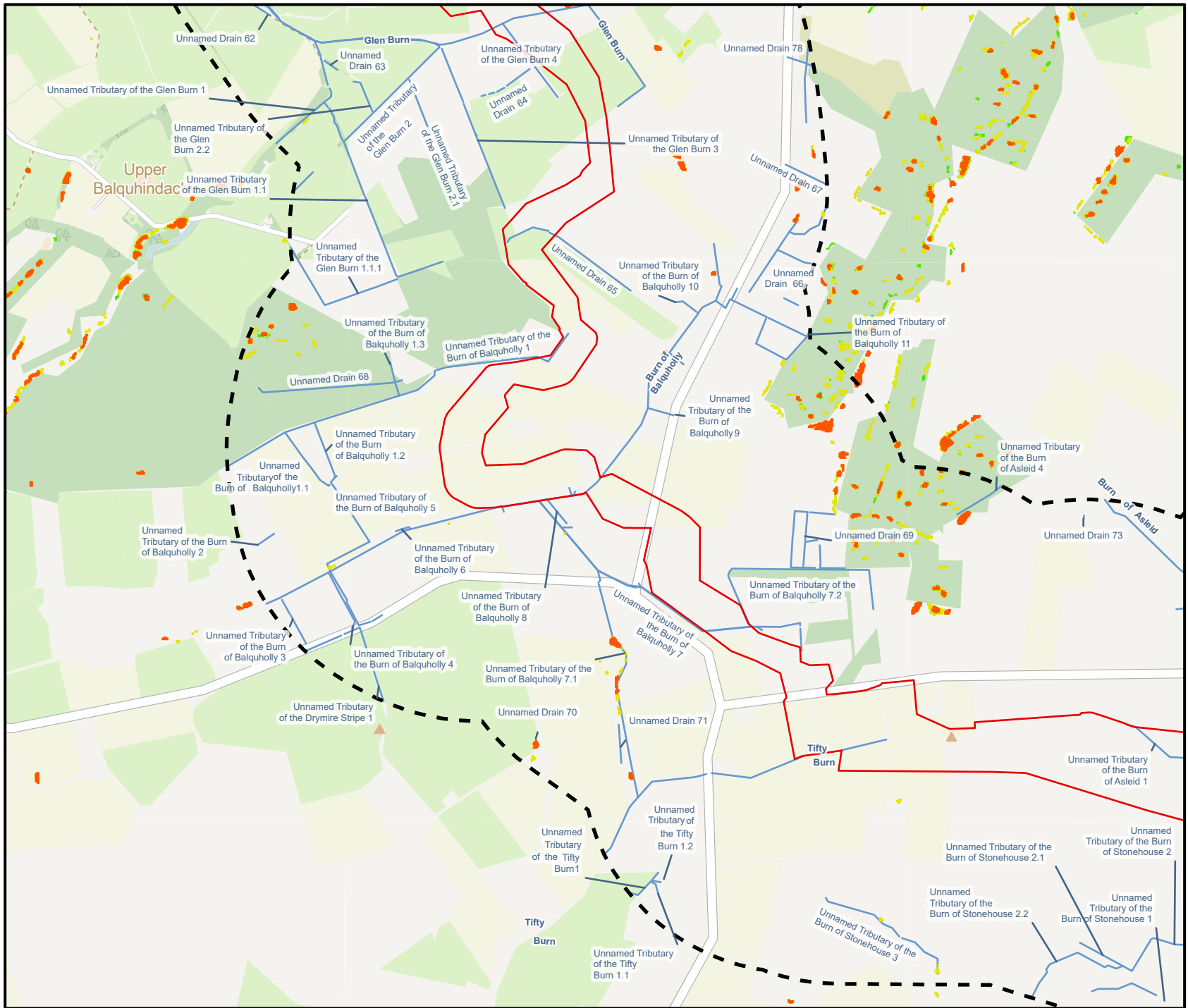
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Pluvial Flood Risk**

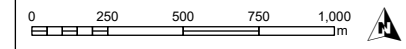
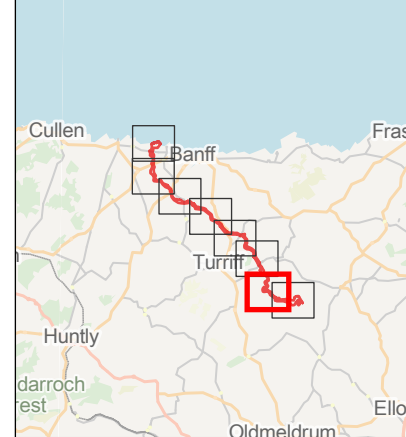
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DRAWING NUMBER N/A	SHEET NO / REV 07 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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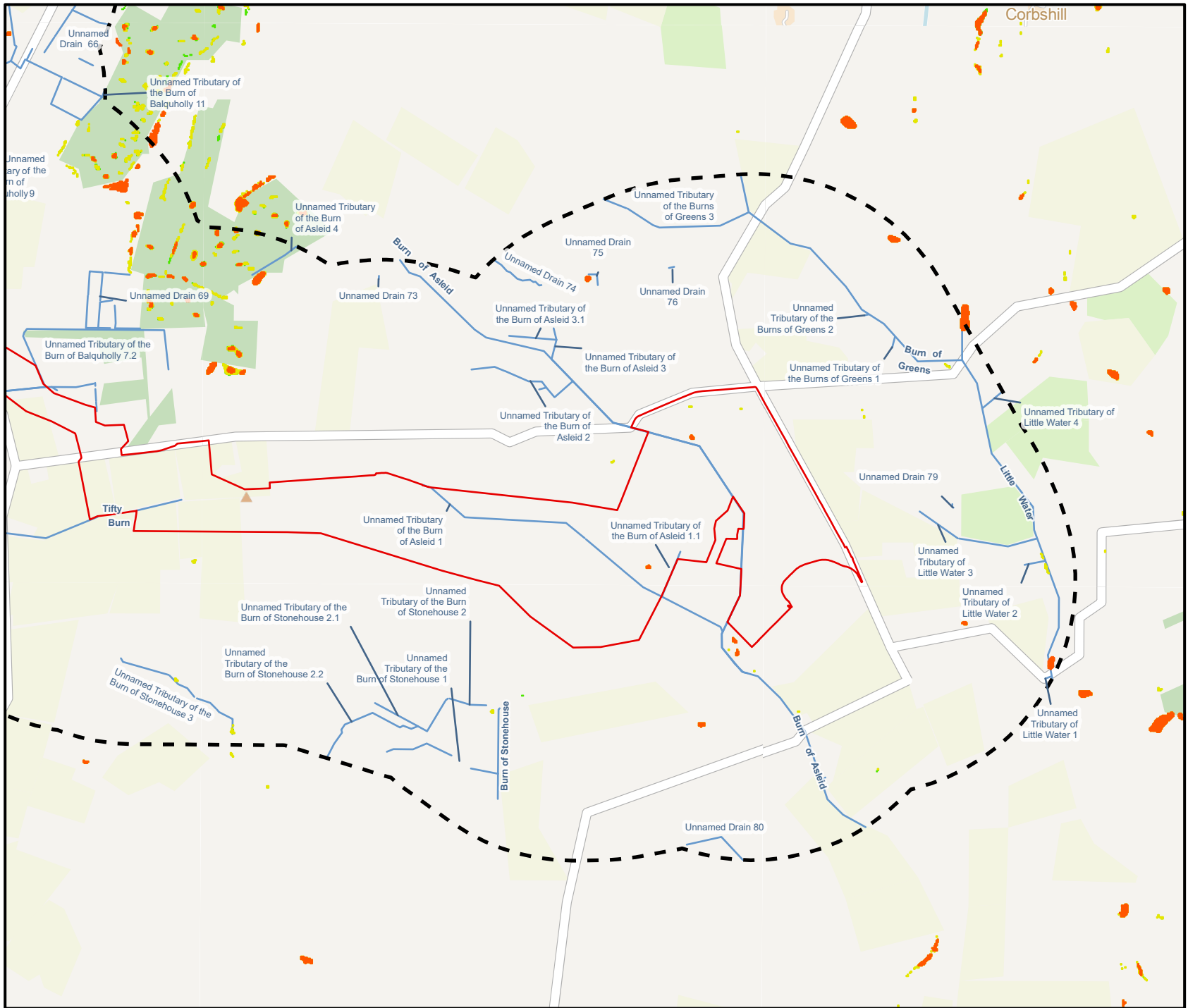
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 Pluvial Flood Risk**

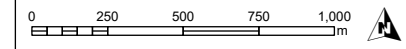
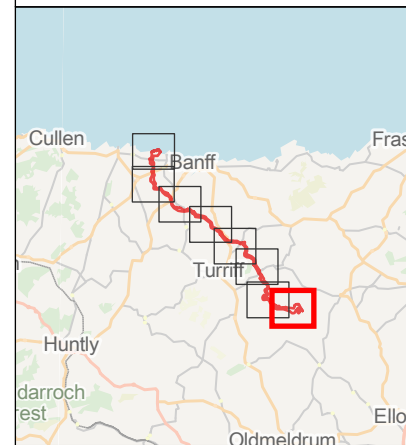
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DRAWING NUMBER N/A	SHEET NO / REV 08 of 09 / N/A



- Onshore Transmission Infrastructure Red Line Boundary
- 1km Buffer of Red Line Boundary
- Surface Water Feature

- Pluvial Flood Extents**
- High Likelihood (1 in 10 year event)
 - Medium Likelihood (1 in 200 year event)
 - Low Likelihood (1 in 1000 year event)

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DRAWING TITLE
**Figure 6-5:
Pluvial Flood Risk**

STATUS Approved	SCALE 1:25,000
DRAWING NUMBER N/A	SHEET NO / REV 09 of 09 / N/A

Caledonia Offshore Wind Farm
5th Floor, Atria One
144 Morrison Street
Edinburgh
EH3 8EX

www.caledoniaoffshorewind.com

