





Topic Chapter: Water  
**Figure GC 11.1.1**  
Location of the UWF Grid Connection  
- Hydrometric Areas

Map Number:  
Map 1 of 1

- Legend:
-  UWF Grid Connection Construction Works Area
  -  River Shannon Catchment
  -  Lower Shannon & Mulkear Hydrometric Area
  -  River Suir Catchment Hydrometric Area




Project:  
UWF Grid Connection (2019)

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


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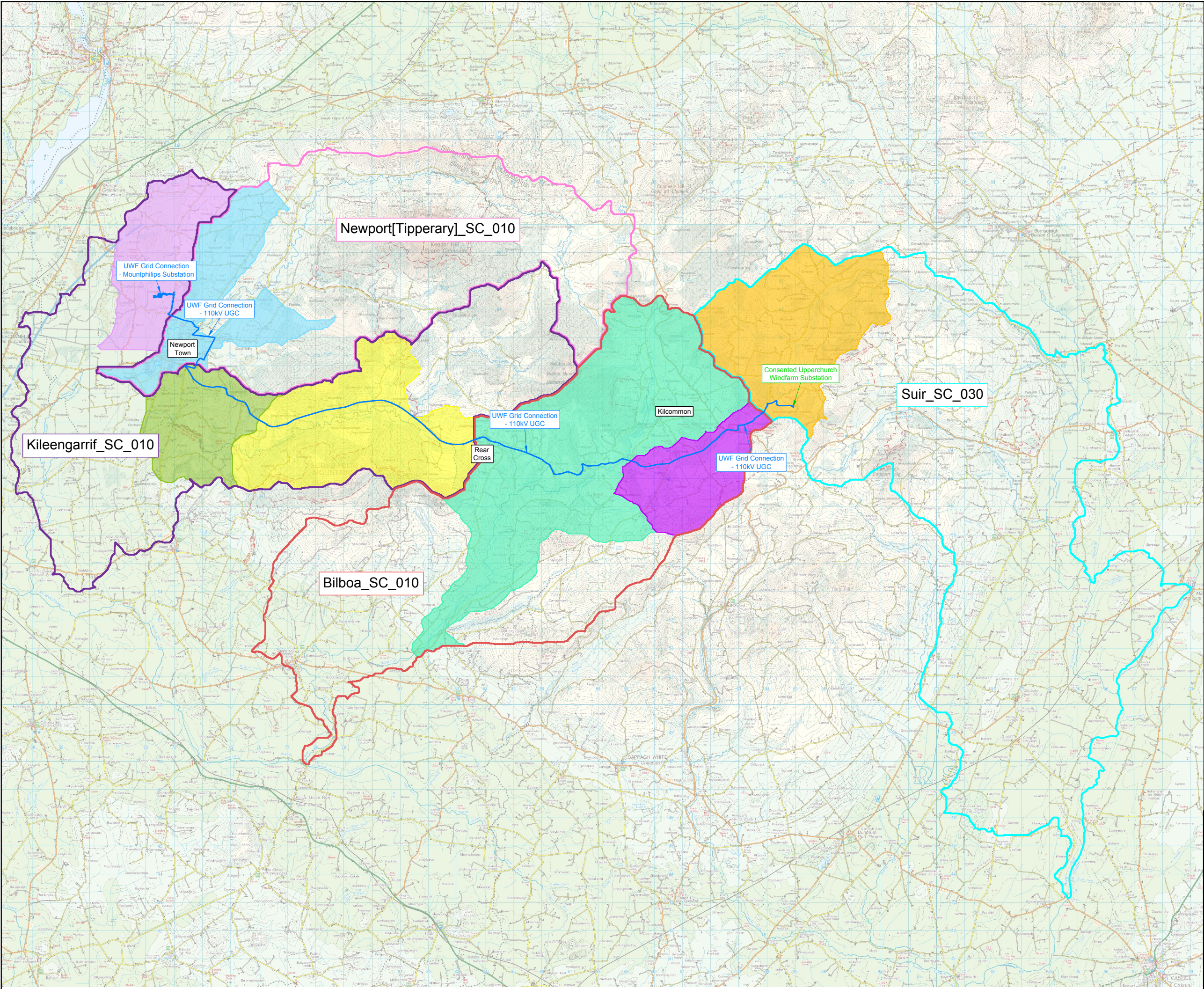
 UWF Grid Connection  
Construction Works Area

EPA Sub-Catchment:

-  Kileengarrif\_SC\_010
-  Newport[Tipperary]\_SC\_010
-  Bilboa\_SC\_010
-  Suir\_SC\_030

EPA Local Surface Water Bodies:

-  Ballyard\_010
-  Newport\_040
-  Annagh (Tipperary)\_030
-  Annagh (Tipperary)\_020
-  Bilboa\_010
-  Inch (Bilboa)\_010
-  Clodaigh (Tipperary)\_010



Project:  
UWF Grid Connection (2019)

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Map Number:  
Overview Map

Legend:

**Study Area Extents:**

UWF Grid Connection  
Construction Works Area

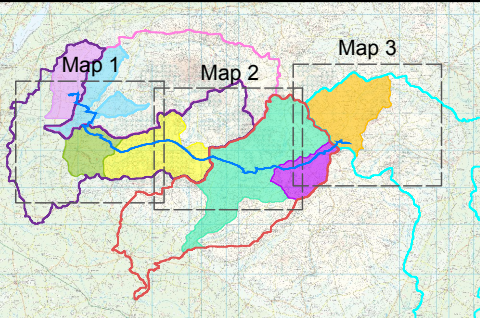
**EPA Sub-Catchment:**

Kileengarrif\_SC\_010  
Newport[Tipperary]\_SC\_010  
Bilboa\_SC\_010  
Suir\_SC\_030

**EPA Local Surface Water Bodies:**

Ballyard\_010  
Newport\_040  
Annagh (Tipperary)\_030  
Annagh (Tipperary)\_020  
Bilboa\_010  
Inch (Bilboa)\_010  
Clodaigh (Tipperary)\_010

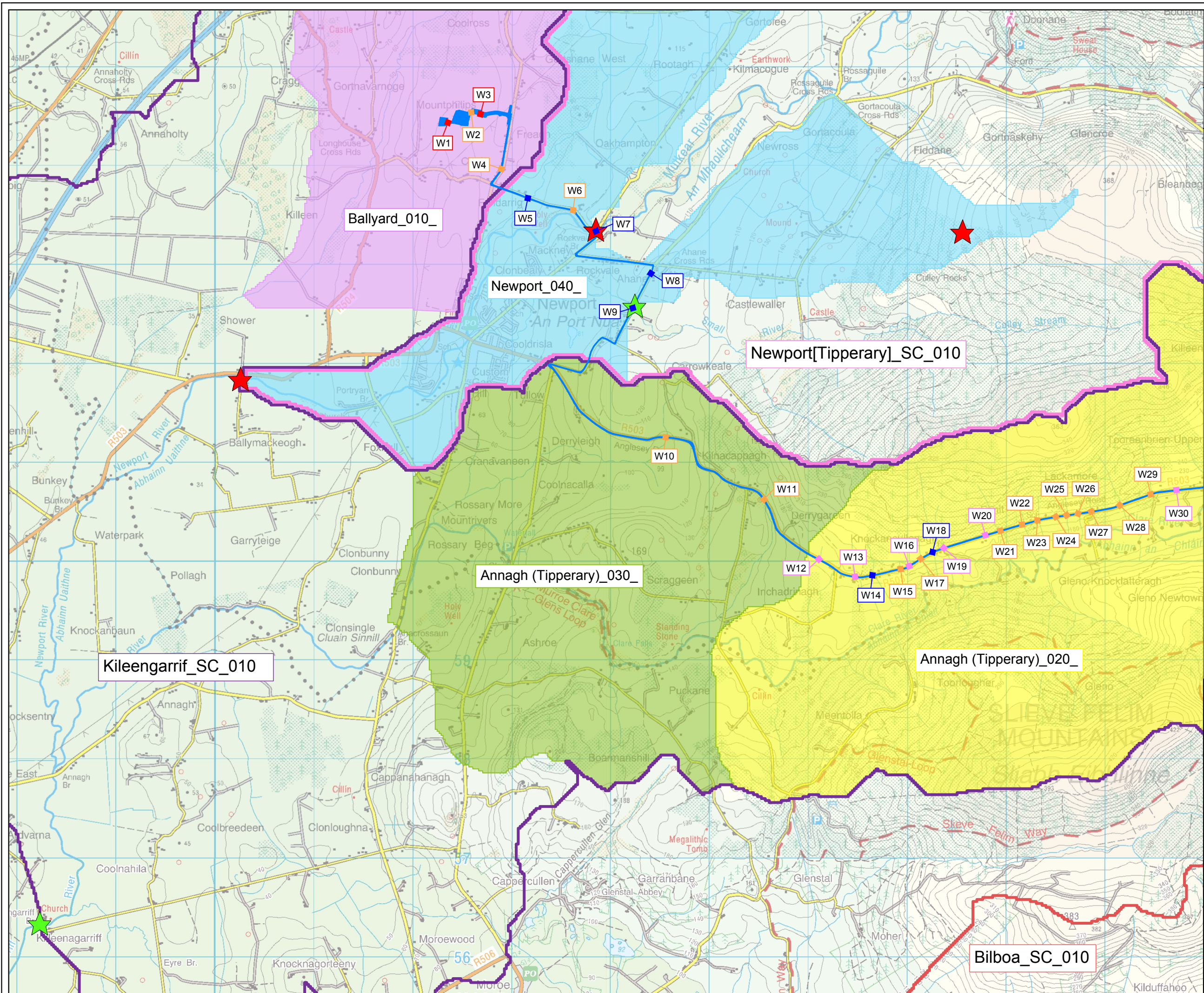
**Keyplan:**



Project:  
UWF Grid Connection (2019)

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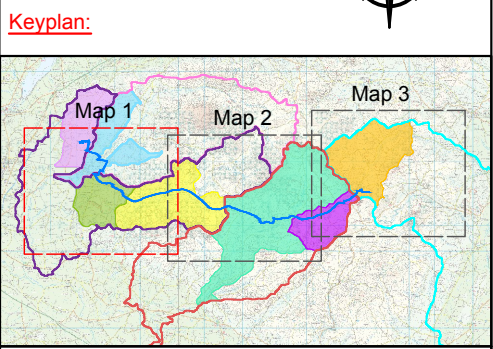




Topic Chapter: Water  
**Figure GC 11.2.2**  
UWF Grid Connection Study Area for  
Local Surface Water Bodies

Map Number:  
Map 1 of 3

- Legend:
- Study Area Extents:**
- UWF Grid Connection Construction Works Area
- EPA Sub-Catchment:**
- Kileengarrif\_SC\_010
  - Newport[Tipperary]\_SC\_010
  - Bilboa\_SC\_010
- EPA Local Surface Water Bodies:**
- Ballyard\_010
  - Newport\_040
  - Annagh (Tipperary)\_030
  - Annagh (Tipperary)\_020
- Watercourse Crossings:**
- W7 Class 1 Watercourse Crossing
  - W1 Class 2 Watercourse Crossing
  - W4 Class 3 Watercourse Crossing
  - W12 Class 4 Watercourse Crossing
- EPA Q-Values:**
- ★ EPA Q-Values: Good
  - ★ EPA Q-Values: High



Project:  
UWF Grid Connection (2019)

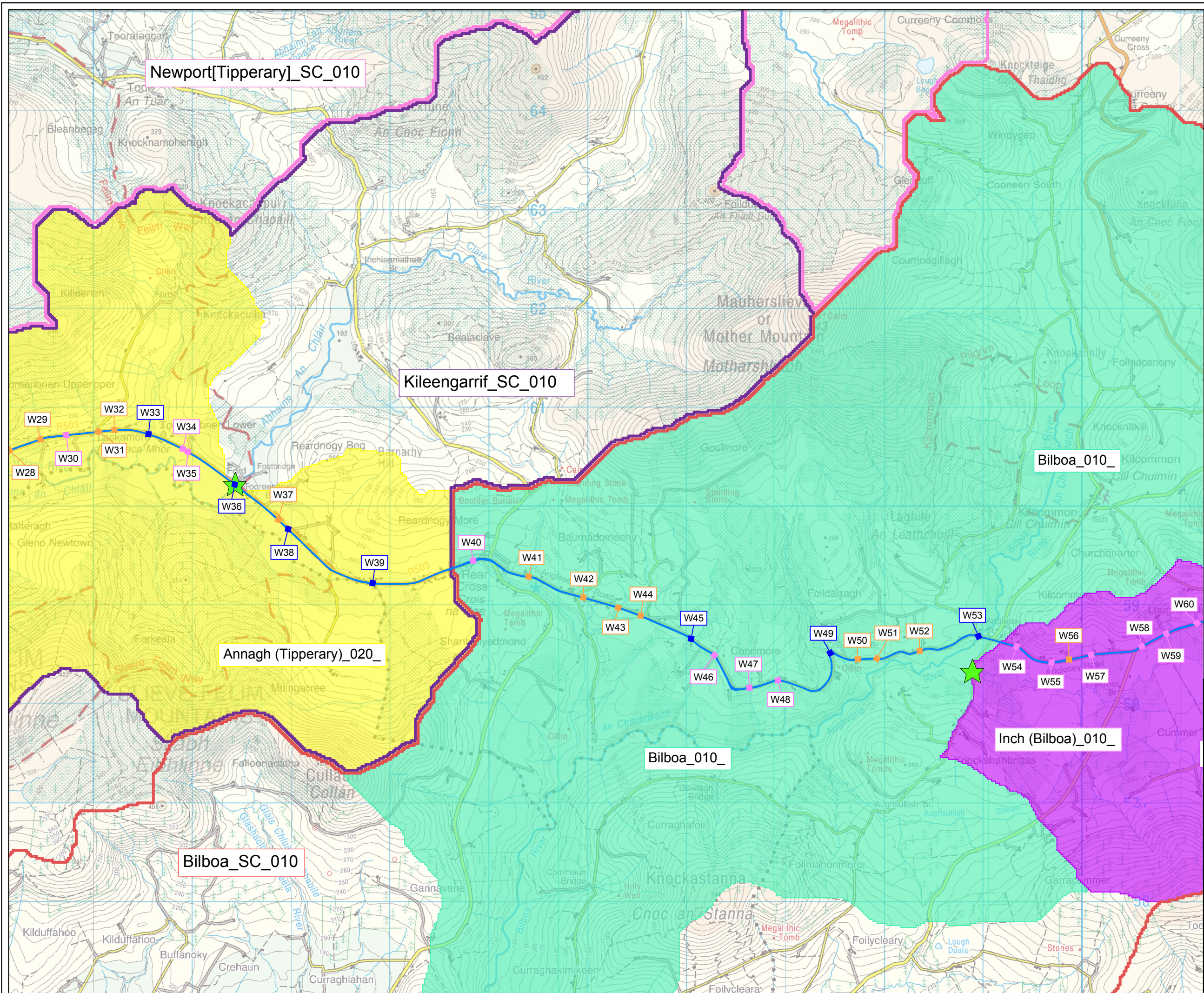
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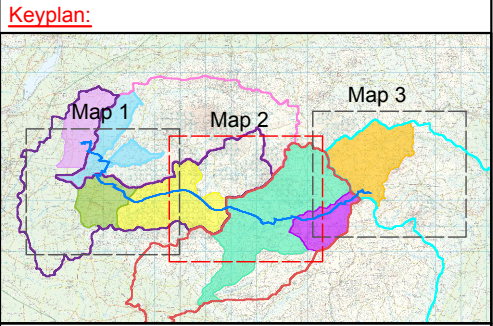




Topic Chapter: Water  
**Figure GC 11.2.3**  
UWF Grid Connection Study Area for  
Local Surface Water Bodies

Map Number:  
Map 2 of 3

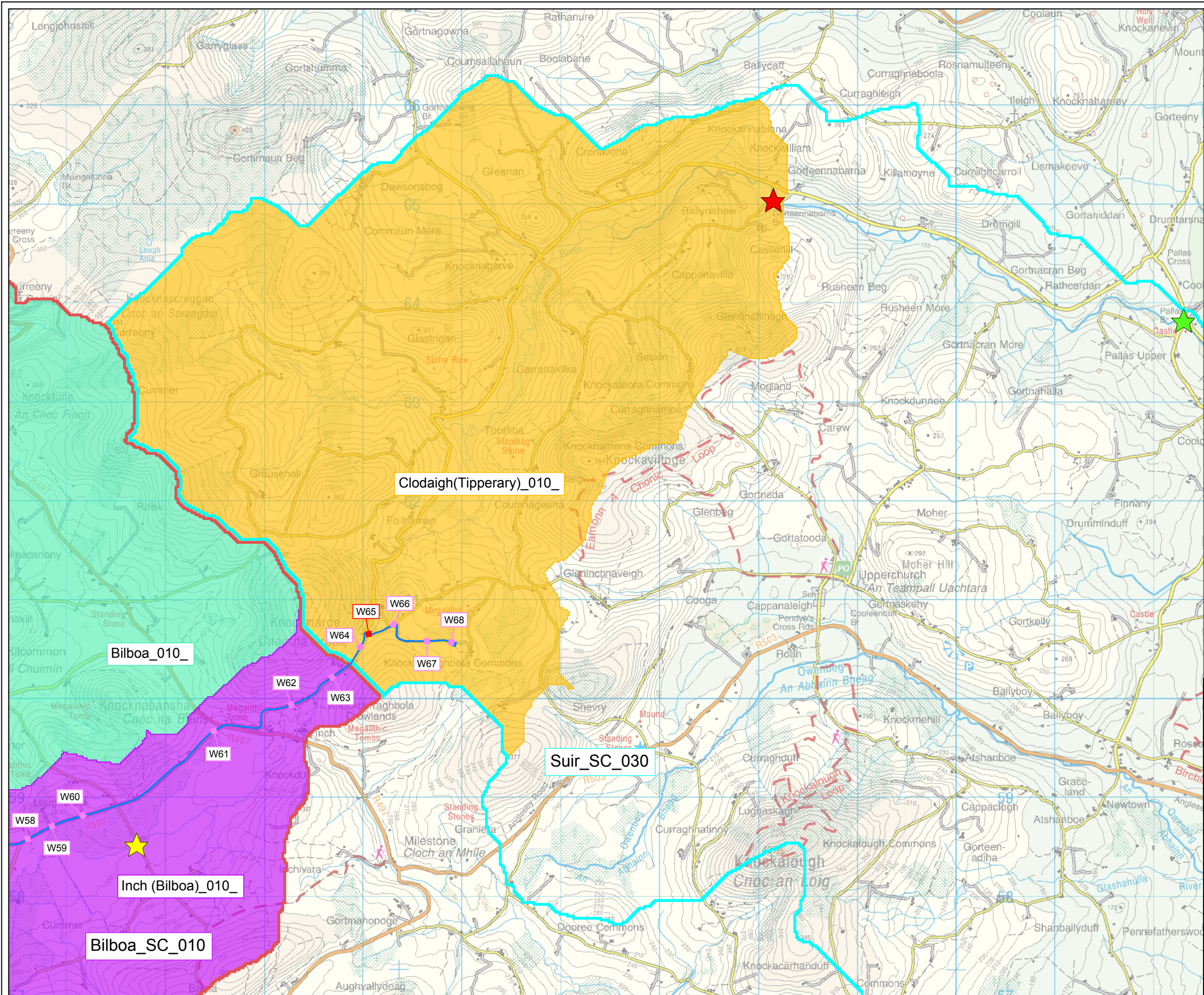
- Legend:
- Study Area Extents:
- UWF Grid Connection Construction Works Area
- EPA Sub-Catchment:
- Kileengarrif\_SC\_010
  - Newport[Tipperary]\_SC\_010
  - Bilboa\_SC\_010
- EPA Local Surface Water Bodies:
- Annagh (Tipperary)\_020\_
  - Bilboa\_010\_
  - Inch (Bilboa)\_010\_
- Watercourse Crossings:
- Class 1 Watercourse Crossing
  - Class 3 Watercourse Crossing
  - Class 4 Watercourse Crossing
- EPA Q-Values:
- Good



Project:  
UWF Grid Connection (2019)

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Topic Chapter: Water  
**Figure GC 11.2.4**  
UWF Grid Connection Study Area for  
Local Surface Water Bodies

Map Number:  
Map 3 of 3

Legend:

Study Area Extents:

- UWF Grid Connection Construction Works Area

EPA Sub-Catchment:

- Bilboa\_SC\_010
- Suir\_SC\_030

EPA Local Surface Water Bodies:

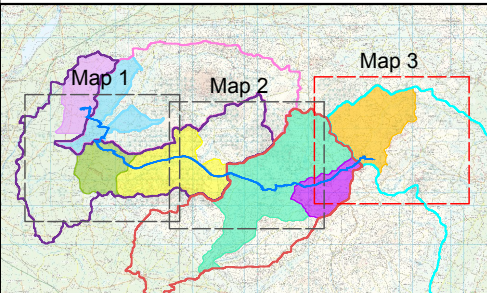
- Bilboa\_010
- Inch (Bilboa)\_010
- Clodaigh (Tipperary)\_010

- W65 Class 2 Watercourse Crossing
- W12 Class 4 Watercourse Crossing

- EPA Q-Values: Good
- EPA Q-Values: Moderate
- EPA Q-Values: High



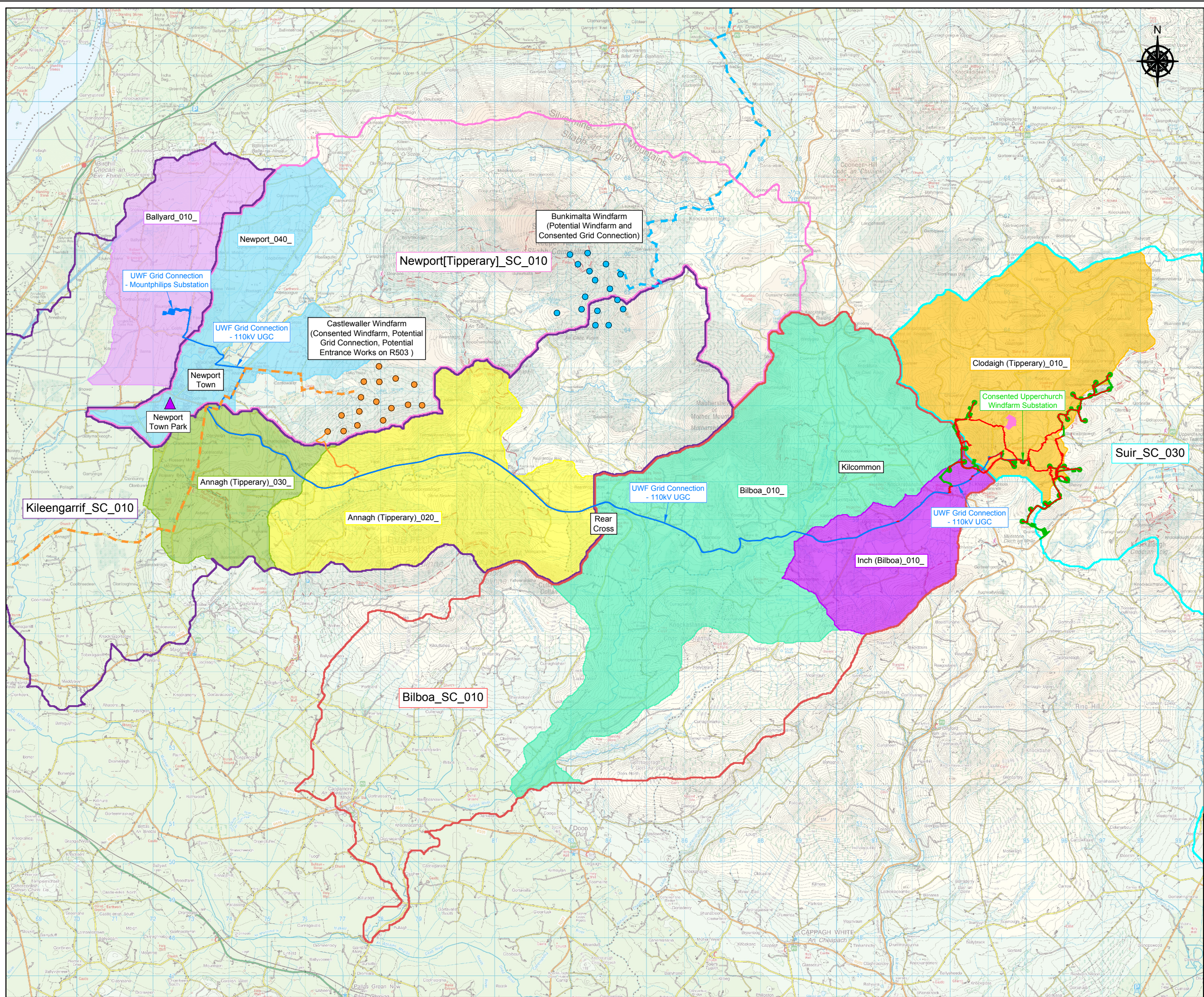
Keyplan:



Project:  
UWF Grid Connection (2019)

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Topic Chapter: Water  
**Figure CE 11.2**  
UWF Grid Connection Cumulative  
Evaluation Study Area for Local  
Surface Water Bodies

Map Number:  
Map 1 of 1

Legend:

Study Area Extents:

UWF Grid Connection  
Construction Works Area

EPA Sub-Catchment:

Kileengarrif\_SC\_010  
Newport[Tipperary]\_SC\_010  
Bilboa\_SC\_010  
Suir\_SC\_030

EPA Local Surface Water Bodies:

Ballyard\_010  
Newport\_040  
Annagh (Tipperary)\_030  
Annagh (Tipperary)\_020  
Bilboa\_010  
Inch (Bilboa)\_010  
Clodaigh (Tipperary)\_010

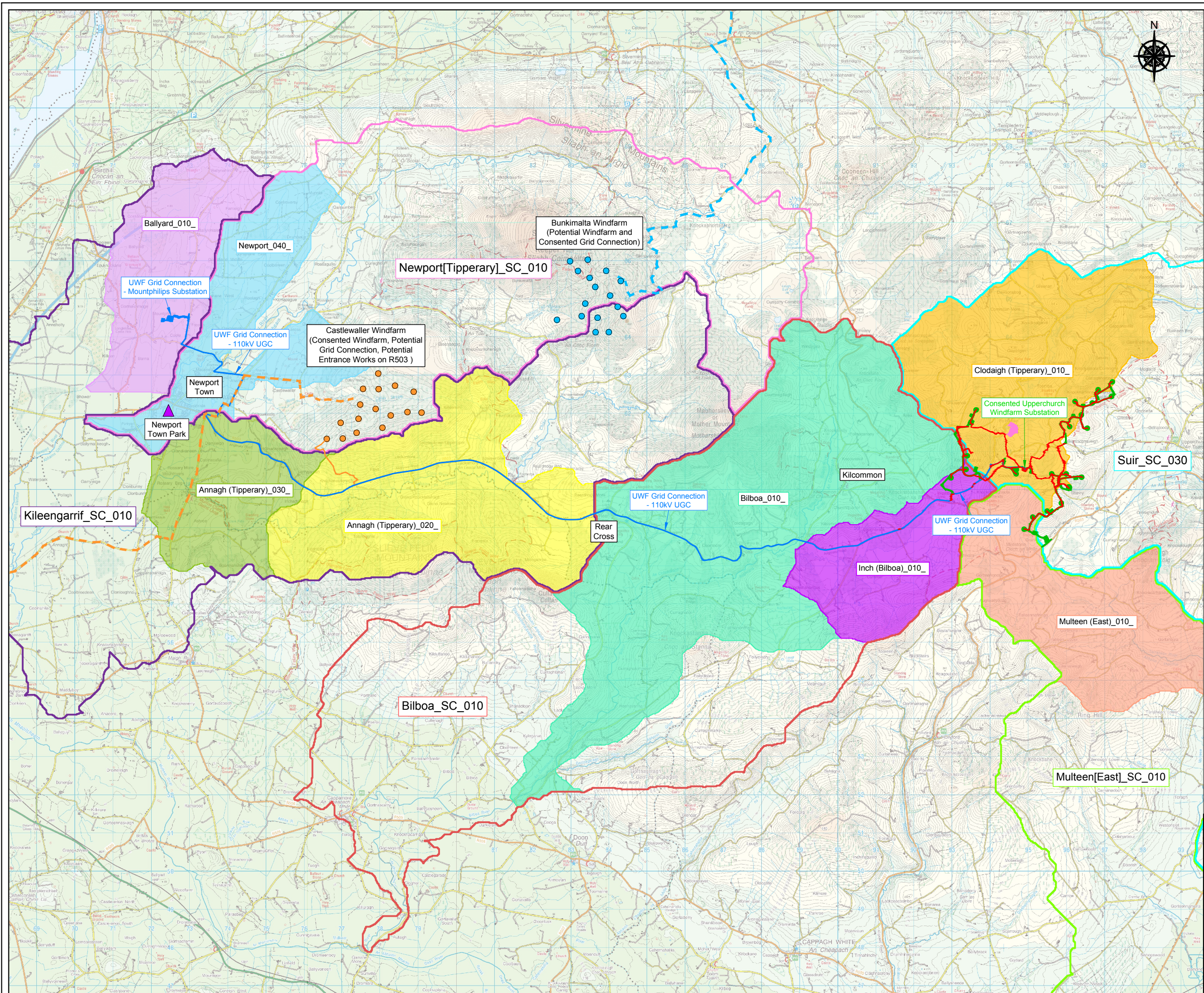
Cumulative Evaluation Projects:

UWF Related Works  
Construction Works Area  
Upperchurch Windfarm  
Construction Works Area  
UWF Replacement Forestry  
Construction Works Area  
Castlewaller Windfarm  
Consented Windfarm  
Potential Grid Connection  
Potential Entrance Works on R503  
Bunkimalta Windfarm  
Potential Windfarm  
Consented Grid Connection  
Newport Town Park

Project:  
UWF Grid Connection (2019)

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Legend:

**Elements of the Whole UWF Project  
Study Area Extends:**

- UWF Grid Connection  
Construction Works Area
- UWF Related Works  
Construction Works Area
- Upperchurch Windfarm  
Construction Works Area
- UWF Replacement Forestry  
Construction Works Area

**EPA Sub-Catchment:**

- Kileengarrif\_SC\_010
- Newport[Tipperary]\_SC\_010
- Bilboa\_SC\_010
- Suir\_SC\_030
- Multeen[East]\_SC\_010

**EPA Local Surface Water Bodies:**

- Ballyard\_010
- Newport\_040
- Annagh (Tipperary)\_030
- Annagh (Tipperary)\_020
- Bilboa\_010
- Inch (Bilboa)\_010
- Clodaigh (Tipperary)\_010
- Multeen (East)\_010

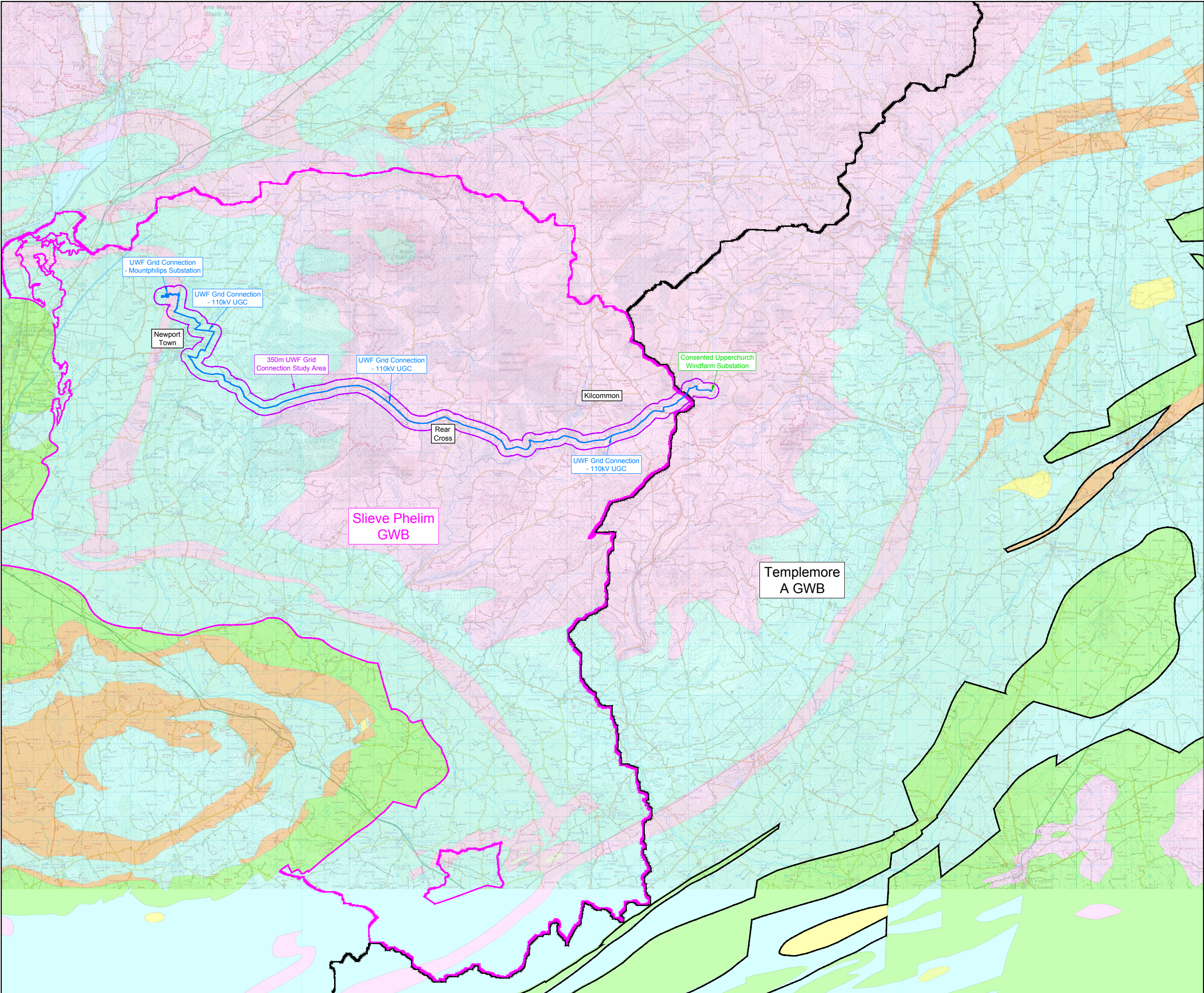
**Other Projects and Activities:**

- Castlewaller Windfarm  
Consented Windfarm
- Potential Grid Connection  
Potential Entrance Works on R503
- Bunkimalta Windfarm  
Potential Windfarm
- Consented Grid Connection
- Newport Town Park

Project:  
UWF Grid Connection (2019)

Drawn by:	Checked by:	Date:	Sheet Size:
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Topic Chapter: Water  
**Figure GC 11.3**  
UWF Grid Connection Study Area  
for Local Groundwater Bodies

Map Number:  
Map 1 of 1

Legend:

Study Area Extents:

- UWF Grid Connection Construction Works Area
- 300m Study Area from the UWF Grid Connection Construction Works Area

Groundwater Bodies:

- Slieve Phelim GWB
- Templemore A GWB

Bedrock Aquifer Type:

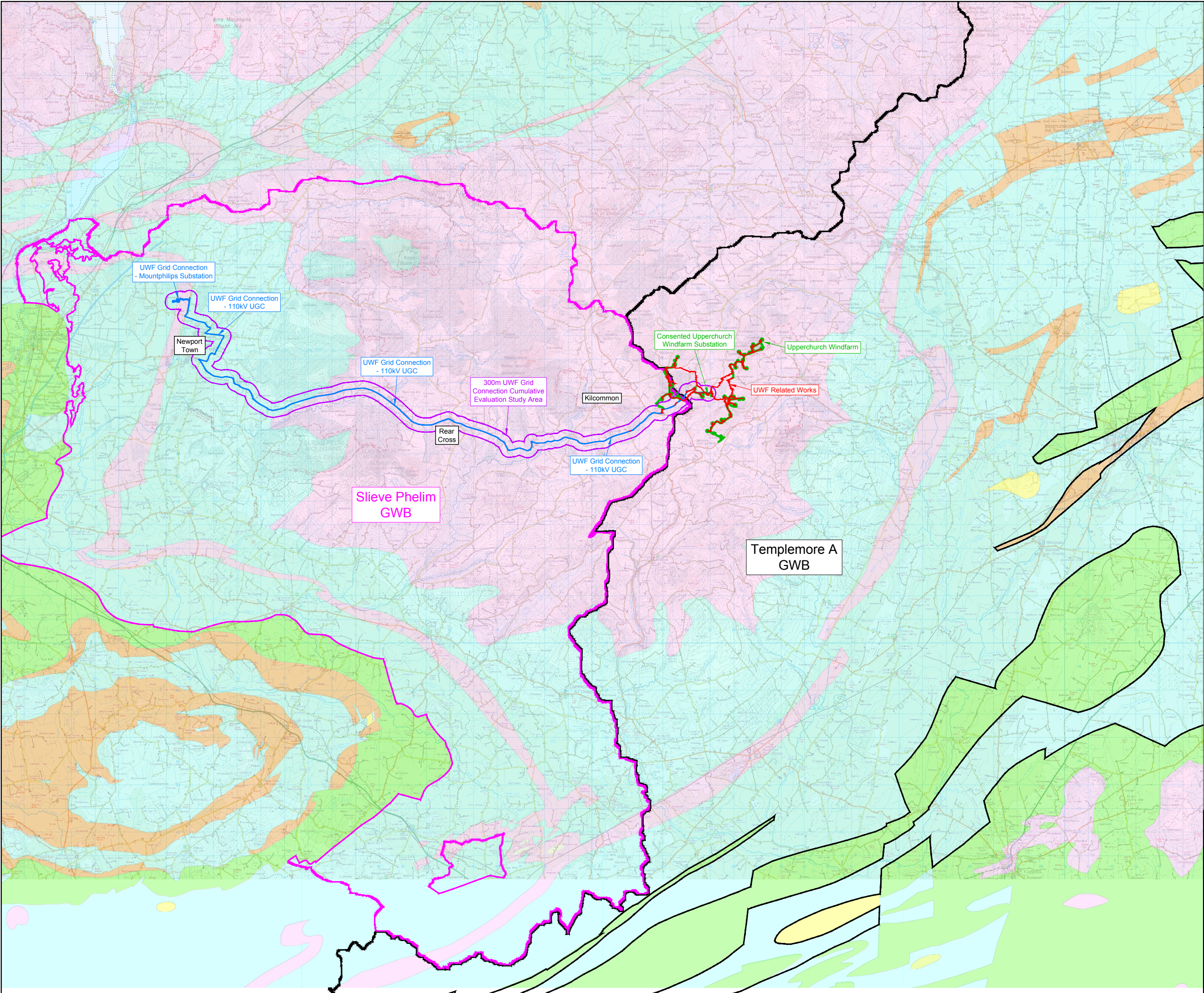
- Locally Important Aquifer:  
-Bedrock which is Moderately Productive only in Local Zones
- Poor Aquifer:  
-Bedrock which is Generally Unproductive except for Local Zones
- Locally Important Aquifer:  
-Bedrock which is Moderately Productive only in Local Zones
- Regionally Important Aquifer:  
-Karstified (diffuse)
- Locally Important Aquifer:  
-Karstified



Project:  
UWF Grid Connection (2019)

Drawn by:	Checked by:	Date:	Sheet Size:
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Topic Chapter: Water  
**Figure CE 11.3**  
UWF Grid Connection Cumulative  
Evaluation Study Area for Local  
Groundwater Bodies

Map Number:  
Map 1 of 1

Legend:

**Study Area Extents:**

- UWF Grid Connection Construction Works Area
- 300m Study Area from the UWF Grid Connection Construction Works Area

**Groundwater Bodies:**

- Slieve Phelim GWB
- Templemore A GWB

**Bedrock Aquifer Type:**

- Locally Important Aquifer:  
-Bedrock which is Moderately Productive only in Local Zones
- Poor Aquifer:  
-Bedrock which is Generally Unproductive except for Local Zones
- Locally Important Aquifer:  
-Bedrock which is Moderately Productive only in Local Zones
- Regionally Important Aquifer:  
-Karstified (diffuse)
- Locally Important Aquifer:  
-Karstified

**Cumulative Evaluation Projects:**

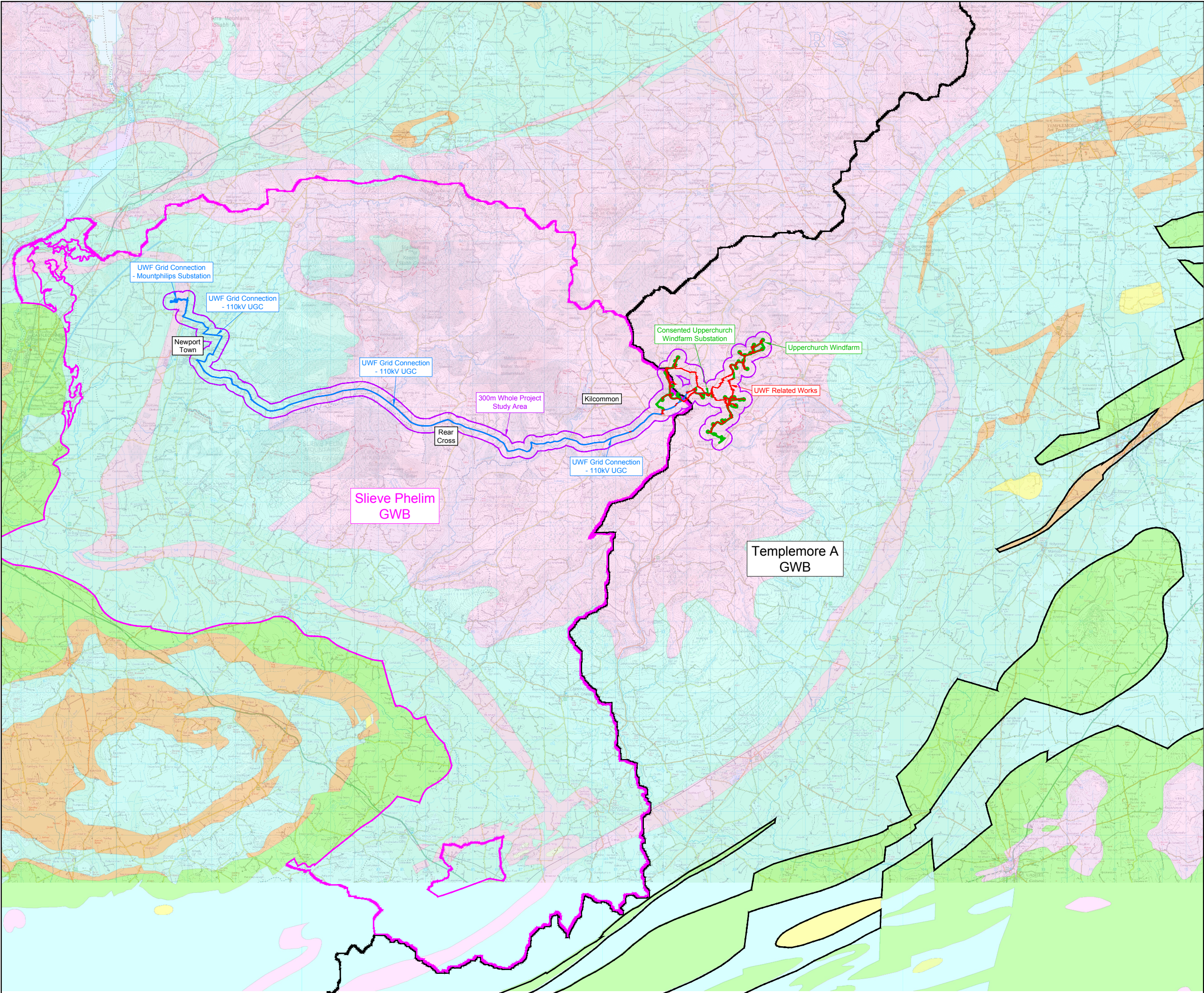
- UWF Related Works Construction Works Area
- Upperchurch Windfarm Construction Works Area



Project:  
UWF Grid Connection (2019)

Drawn by:	Checked by:	Date:	Sheet Size:
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Topic Chapter: Water  
**Figure WP 11.3**  
Whole Project Study Area for  
Local Groundwater Bodies

Map Number:  
Map 1 of 1

Legend:

Elements of the Whole UWF Project  
Study Area Extends:

- UWF Grid Connection  
Construction Works Area
- UWF Related Works  
Construction Works Area
- Upperchurch Windfarm  
Construction Works Area
- 300m Study Area from all  
Construction Works Area

Groundwater Bodies:

- Slieve Phelim
- Templemore A

Bedrock Aquifer Type:

- Locally Important Aquifer:  
-Bedrock which is Moderately  
Productive only in Local Zones
- Poor Aquifer:  
-Bedrock which is Generally  
Unproductive except for Local Zones
- Locally Important Aquifer:  
-Bedrock which is Moderately  
Productive only in Local Zones
- Regionally Important Aquifer:  
-Karstified (diffuse)
- Locally Important Aquifer:  
-Karstified



Project:  
UWF Grid Connection (2019)

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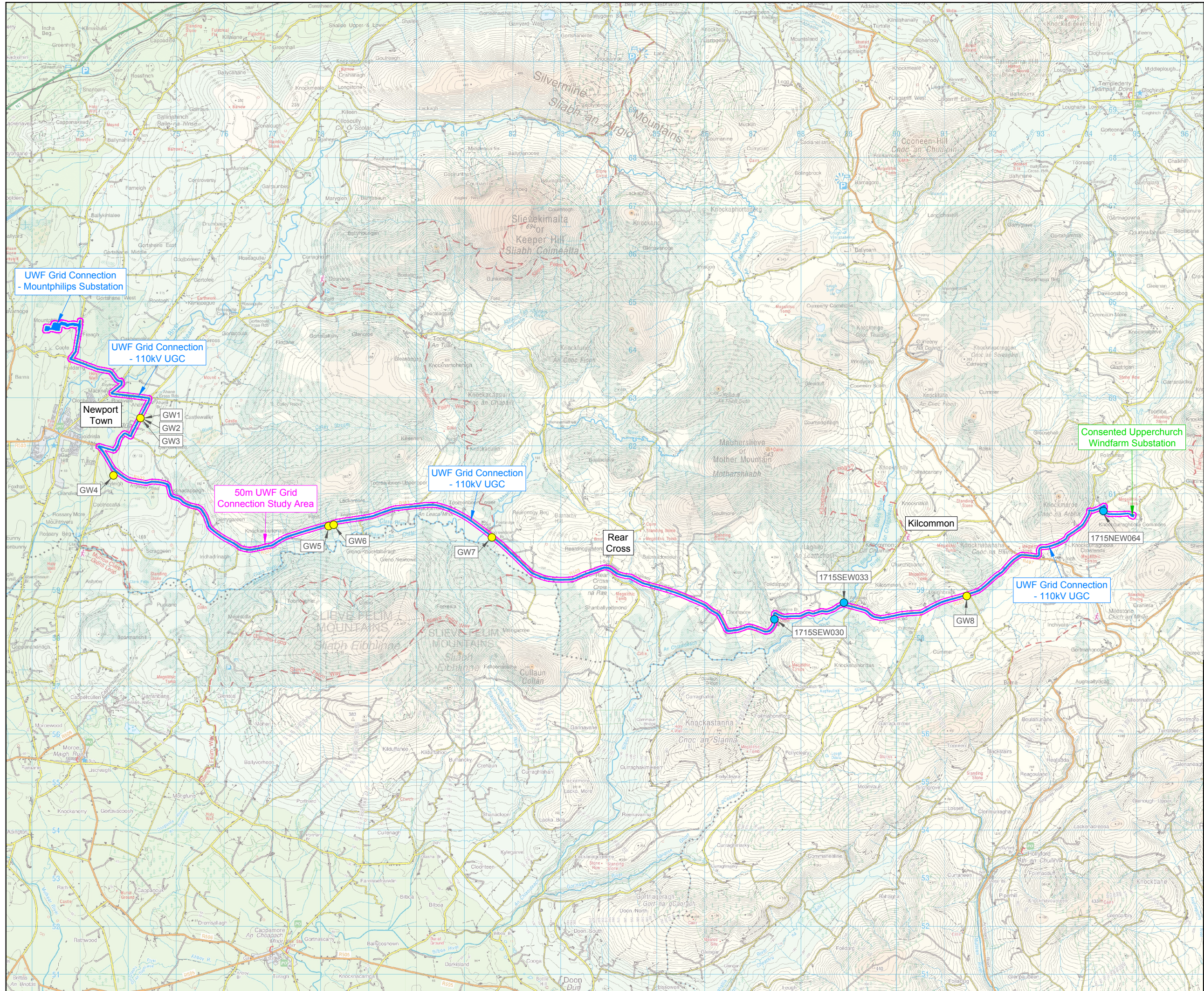


Map Number:  
Overview Map

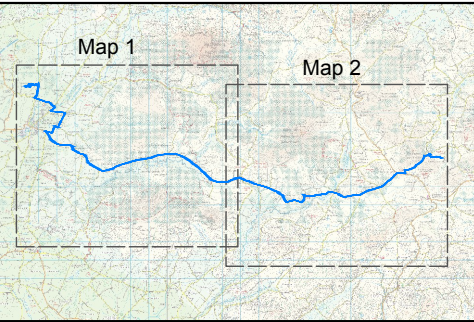
Legend:

- Study Area Extents:**
- UWF Grid Connection Construction Works Area
  - 50m Study Area from UWF Grid Connection Construction Works Area

- Survey Results:**
- GSI Wells (Grid Connection)
  - GSI Wells Identification Number
  - Third Party Wells (Grid Connection)



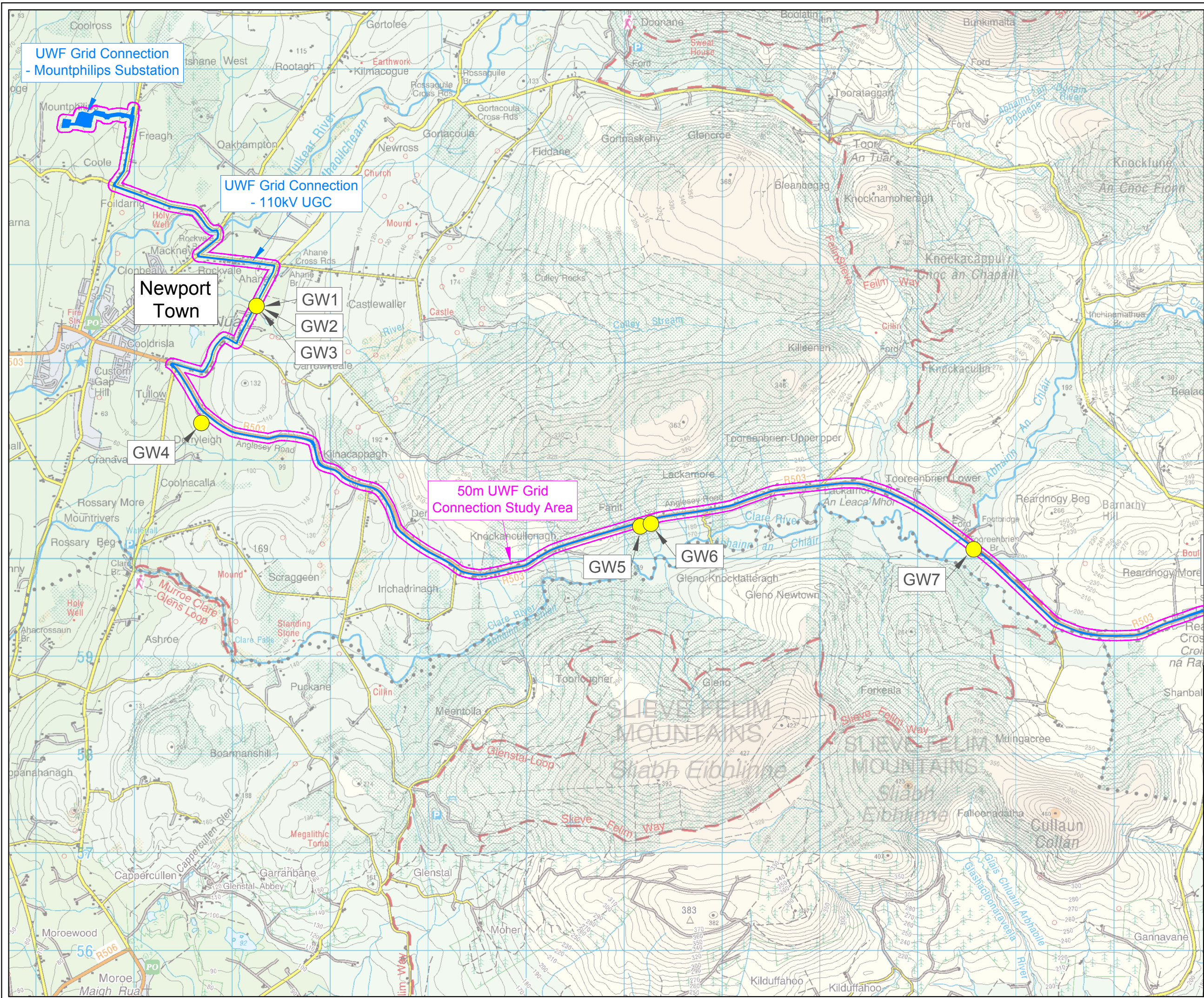
**Keyplan:**



Project:  
UWF Grid Connection (2019)

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UWF Grid Connection  
- Mountphilips Substation

UWF Grid Connection  
- 110kV UGC

Newport  
Town

GW1  
GW2  
GW3

GW4

50m UWF Grid  
Connection Study Area

GW5

GW6

GW7

Topic Chapter: Water

**Figure GC 11.4.2**

UWF Grid Connection Study Area  
for Local Wells and Springs

Map Number:  
Map 1 of 2

Legend:

**Study Area Extents:**

- UWF Grid Connection Construction Works Area
- 50m Study Area from UWF Grid Connection Construction Works Area

**Survey Results:**

- Third Party Wells (Grid Connection)

**Keyplan:**

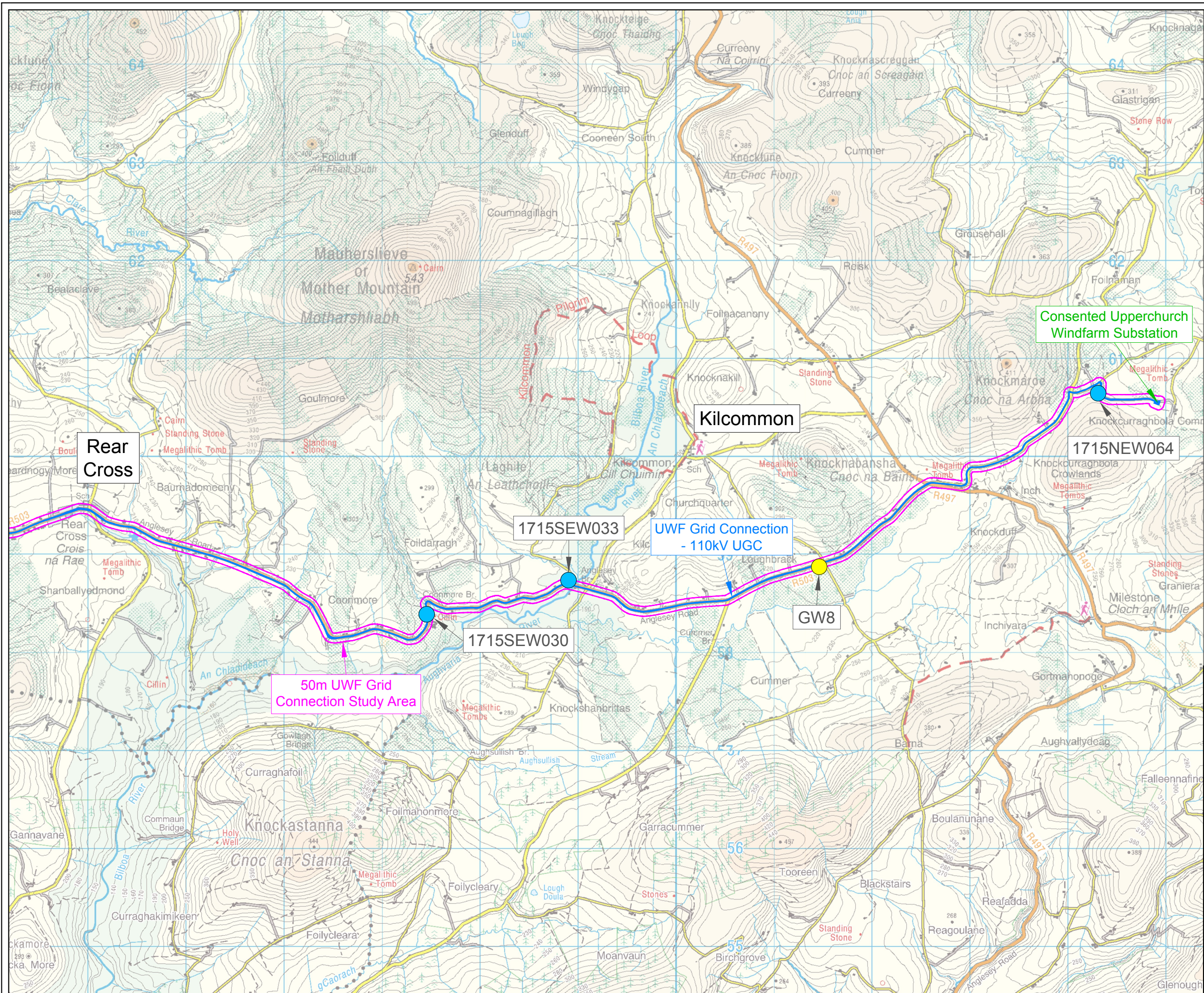
Project:  
UWF Grid Connection (2019)

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MOB: +353 83 8805644

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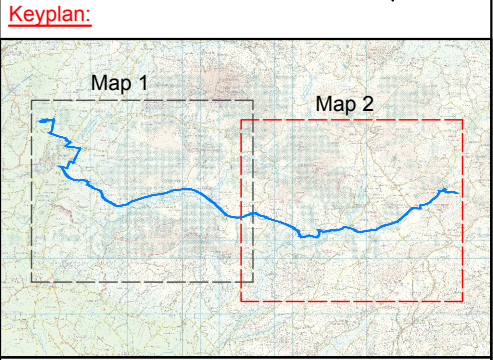




Topic Chapter: Water  
**Figure GC 11.4.3**  
UWF Grid Connection Study Area  
for Local Wells and Springs

Map Number:  
Map 2 of 2

- Legend:
- Study Area Extents:**
- UWF Grid Connection Construction Works Area
  - 50m Study Area from UWF Grid Connection Construction Works Area
- Survey Results:**
- GSI Wells (Grid Connection)
  - GSI Wells Identification Number
  - Third Party Wells (Grid Connection)



Project:  
UWF Grid Connection (2019)

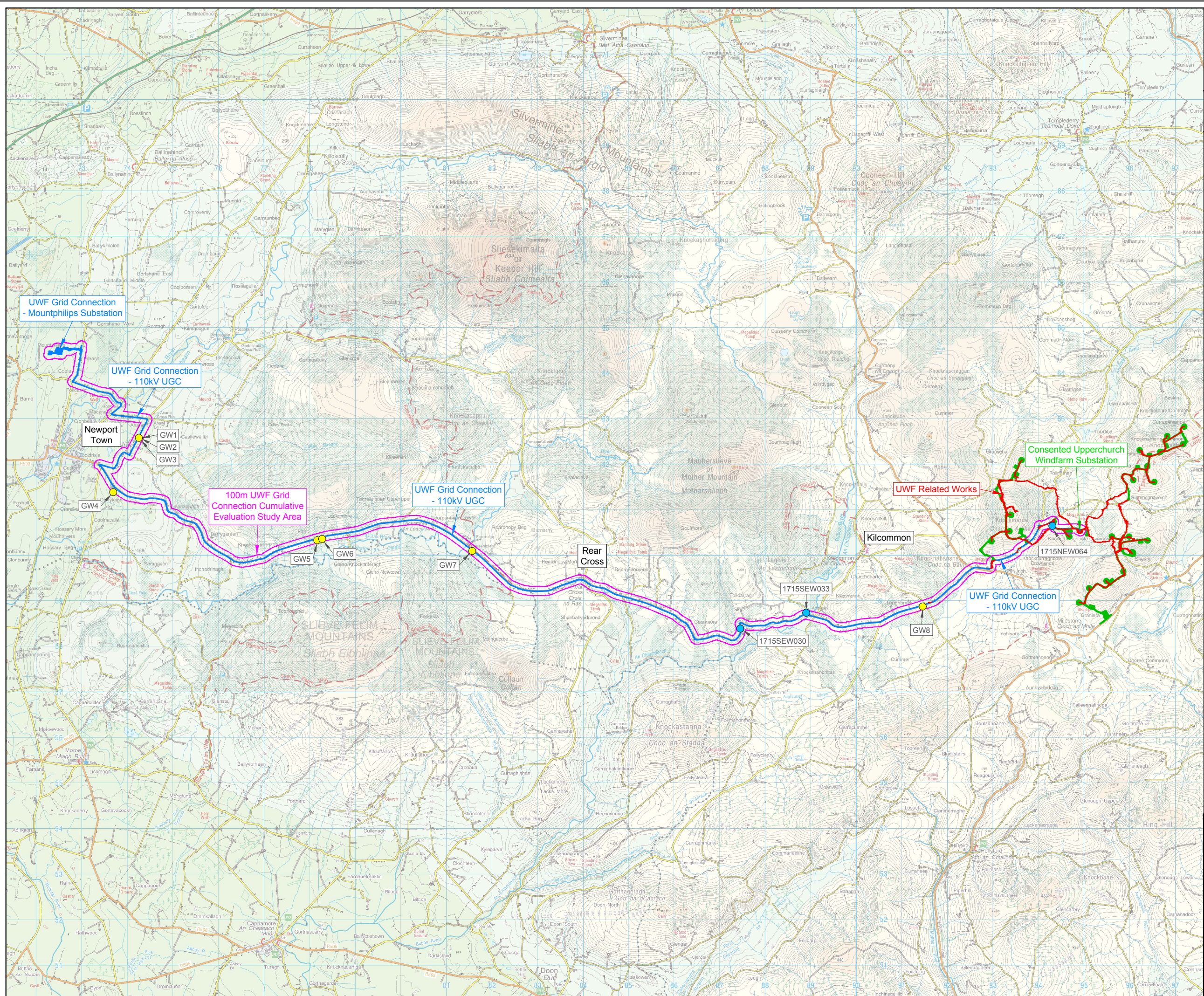
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MOB: +353 83 8805644

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Topic Chapter: Water  
**Figure CE 11.4**  
UWF Grid Connection Cumulative  
Evaluation Study Area for Local  
Wells & Springs

Map Number:  
Map 1 of 1

Legend:

- Study Area Extents:**
- UWF Grid Connection Construction Works Area
  - 100m Study Area from UWF Grid Connection Construction Works Area

- Cumulative Evaluation Projects:**
- UWF Related Works Construction Works Area
  - Upperchurch Windfarm Construction Works Area

- Survey Results:**
- GSI Wells (Grid Connection)
  - GSI Wells Identification Number
  - Third Party Wells (Grid Connection)



Project:  
UWF Grid Connection (2019)

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Legend:

Elements of the Whole UWF Project:

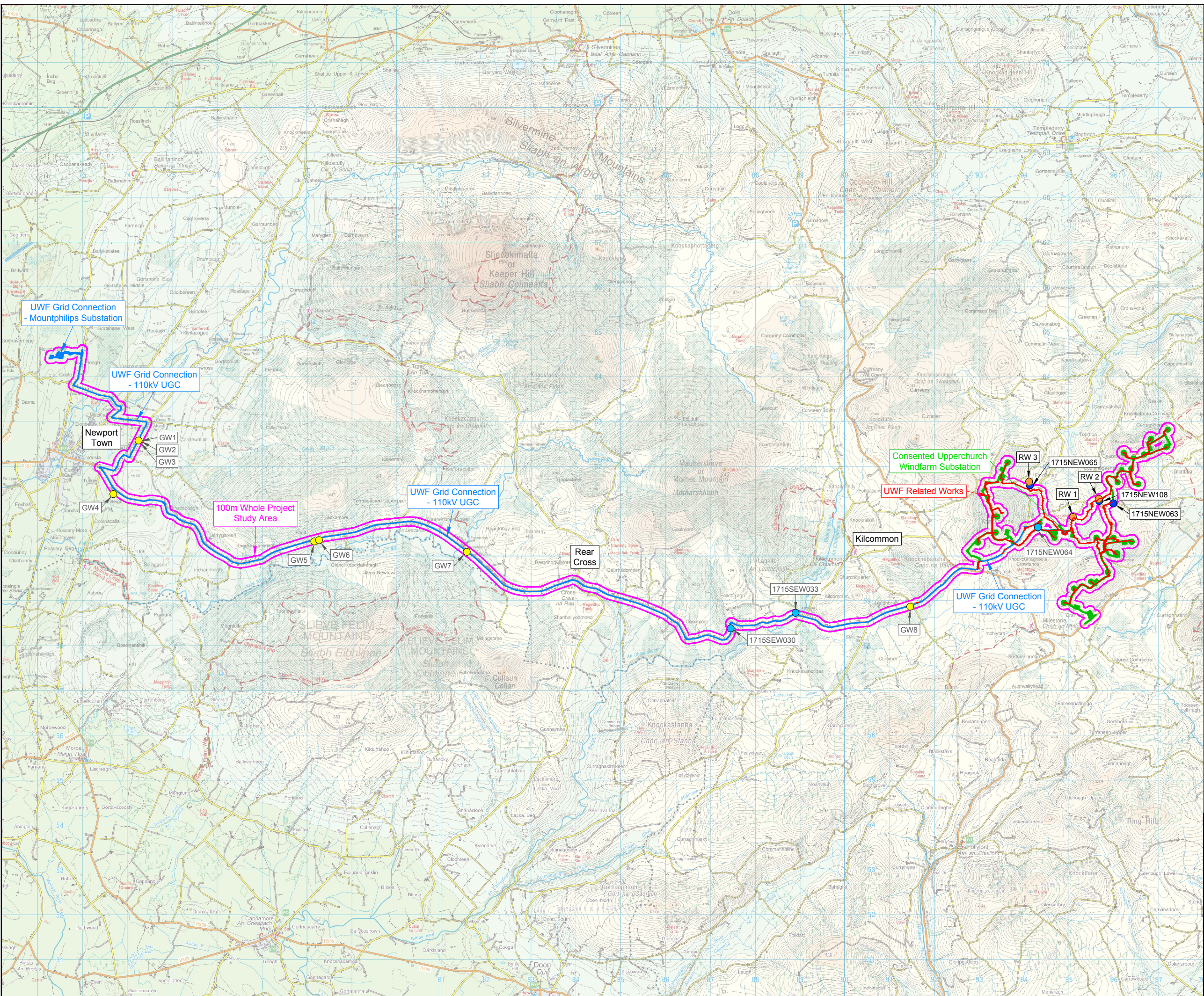
- UWF Grid Connection Construction Works Area
- UWF Related Works Construction Works Area
- Upperchurch Windfarm Construction Works Area

Study Area Extents:

- 100m Study Area from all Construction Works Area

Survey Results:

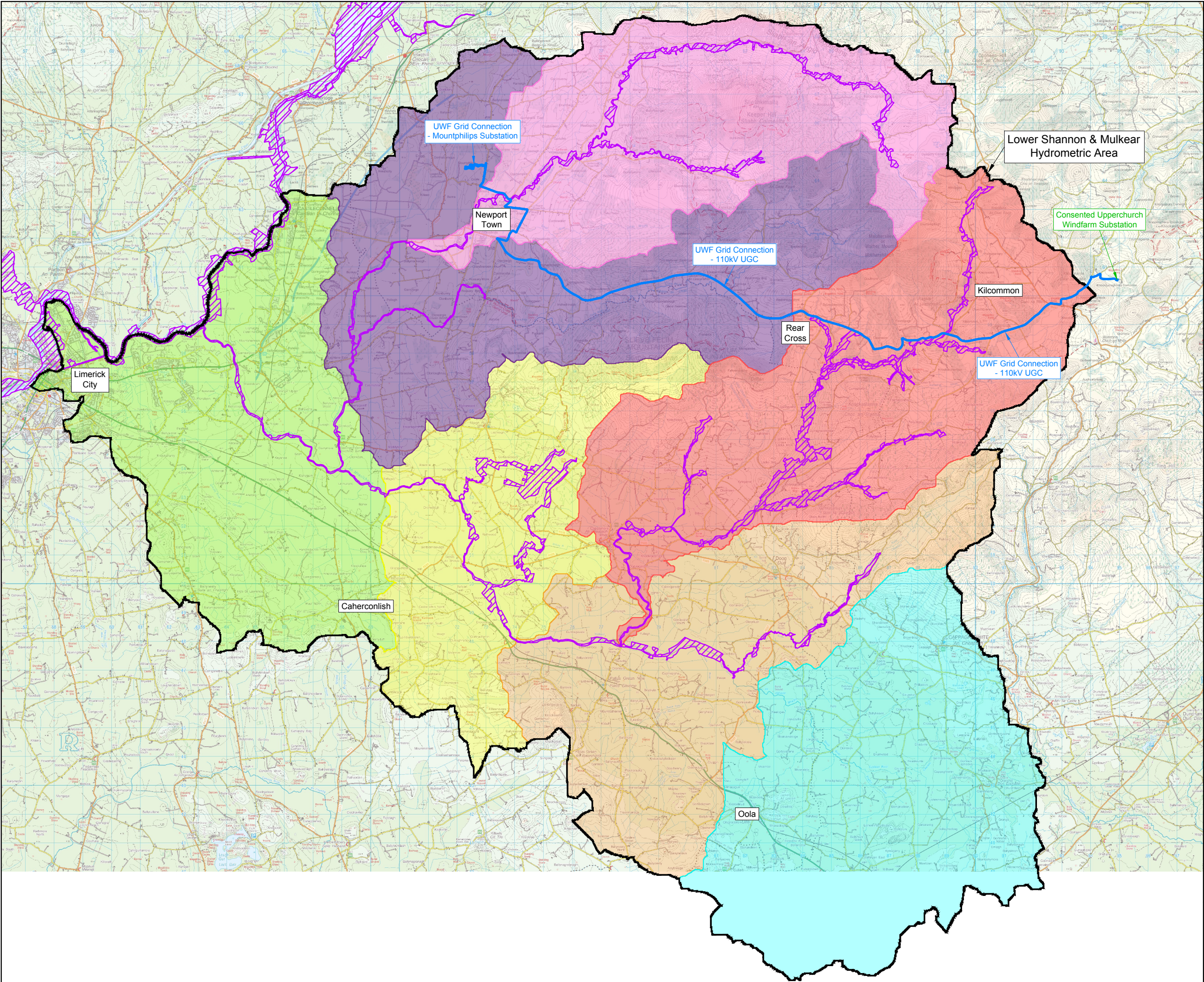
- GSI Wells (Grid Connection)
- Third Party Wells (Grid Connection)
- GSI Wells (Related Works)
- Third Party Wells (Related Works)
- GSI Wells Identification Number



Project:  
UWF Grid Connection (2019)

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**Figure GC 11.5**  
UWF Grid Connection Study Area  
for Lower River Shannon SAC

Map Number:  
Map 1 of 1

Legend:

- Study Area Extents :**
- UWF Grid Connection Construction Works Area
  - Lower River Shannon SAC
  - Lower Shannon & Mulkear Hydrometric Area
  - Newport (Tipperary) SC 010
  - Kileengarriff SC 010
  - Bilboa SC 010
  - Shannon (Lower) SC 090
  - Mulkear SC 020
  - Mulkear SC 010
  - Dead SC 010

Project:  
UWF Grid Connection (2019)

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Legend:

Study Area Extents :

UWF Grid Connection  
Construction Works Area

Cumulative Evaluation Projects :

UWF Related Works  
Construction Works Area

Upperchurch Windfarm  
Construction Works Area

Castlewaller Windfarm  
Consented Windfarm  
Potential Grid Connection  
Potential Entrance Works on R503

Bunkimalta Windfarm  
Potential Windfarm  
Consented Grid Connection

Newport Town Park

Survey Results :

Lower River Shannon SAC

Mulkear Hydrometric Area

Newport (Tipperary) SC 010

Kileengarriff SC 010

Bilboa SC 010

Shannon (Lower) SC 090

Mulkear SC 020

Mulkear SC 010

Dead SC 010

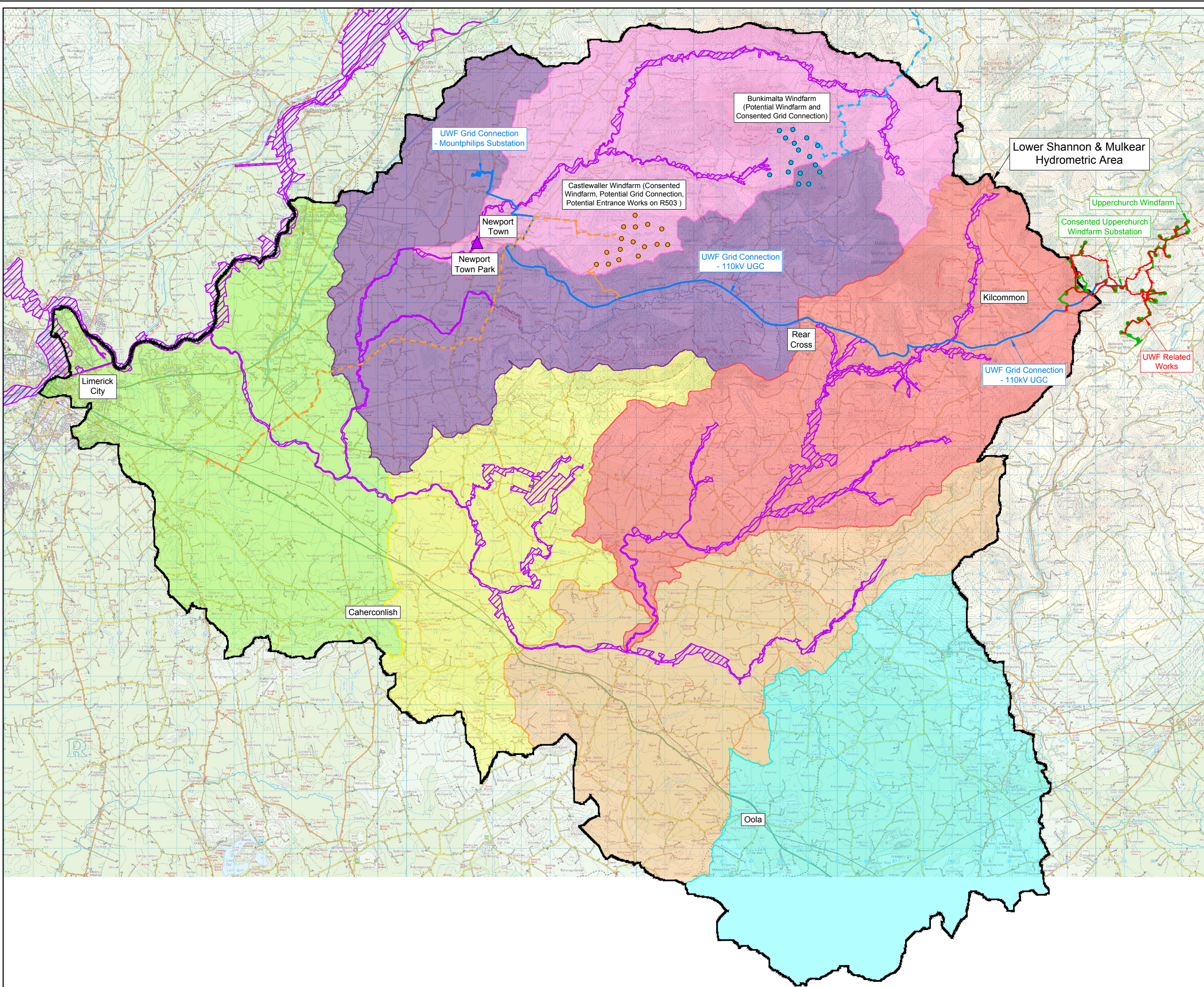
Project:  
UWF Grid Connection (2019)

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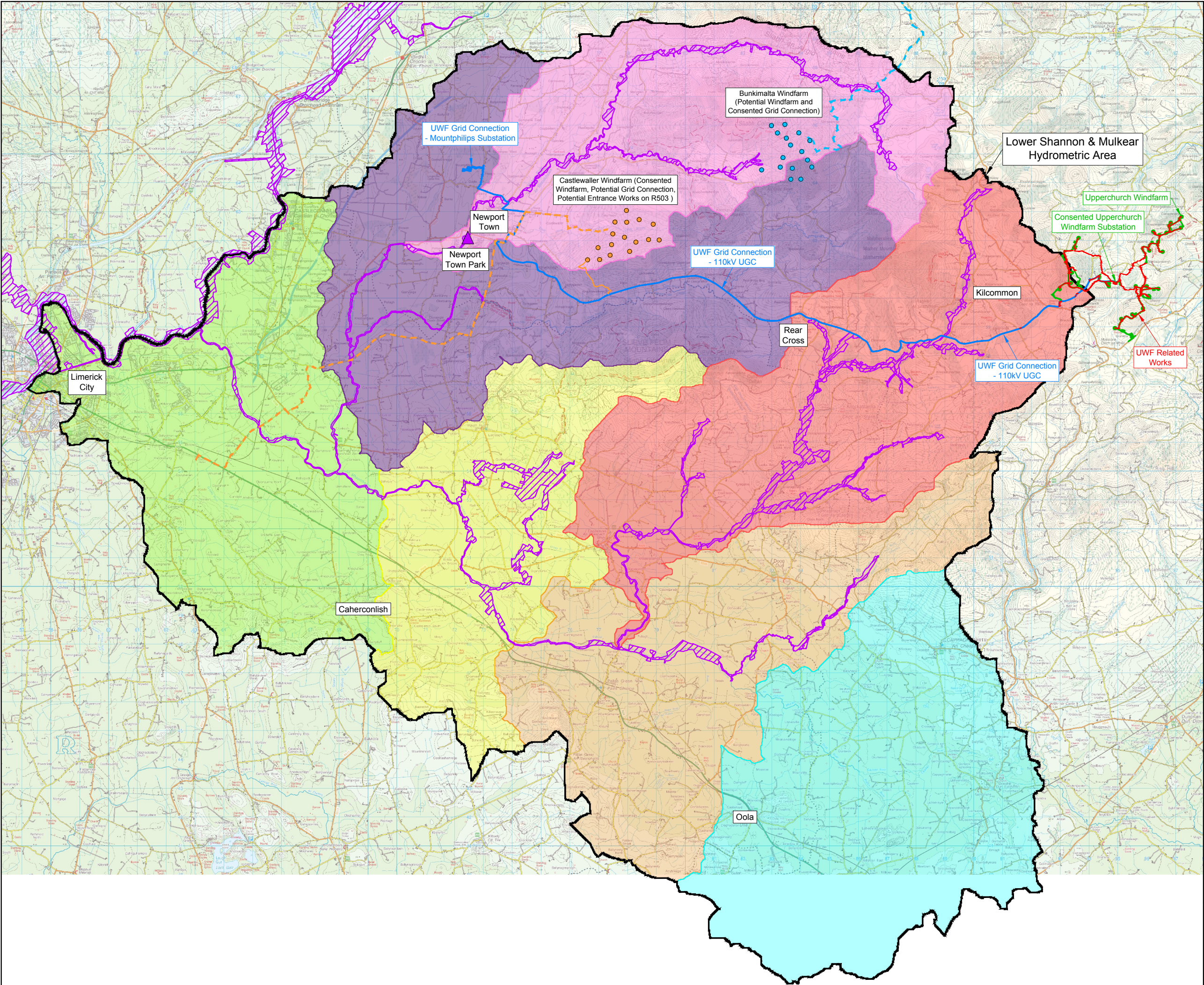


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Topic Chapter: Water

**Figure WP 11.5**

Whole Project Study Area for Lower River Shannon SAC

Map Number:  
Map 1 of 1

Legend:

**Elements of the Whole UWF Project Study Area Extends :**

- UWF Grid Connection Construction Works Area
- Mulkear Hydrometric Area
- UWF Related Works Construction Works Area
- Upperchurch Windfarm Construction Works Area

**Other Projects and Activities:**


- Castlewaller Windfarm
- Consented Windfarm
- Potential Grid Connection
- Potential Entrance Works on R503
- Bunkimalta Windfarm
- Potential Windfarm
- Consented Grid Connection
- Newport Town Park

**Survey Results :**

- Lower River Shannon SAC
- Newport (Tipperary) SC 010
- Kileengarrif SC 010
- Bilboa SC 010
- Shannon (Lower) SC 090
- Mulkear SC 020
- Mulkear SC 010
- Dead SC 010

Project:  
UWF Grid Connection (2019)

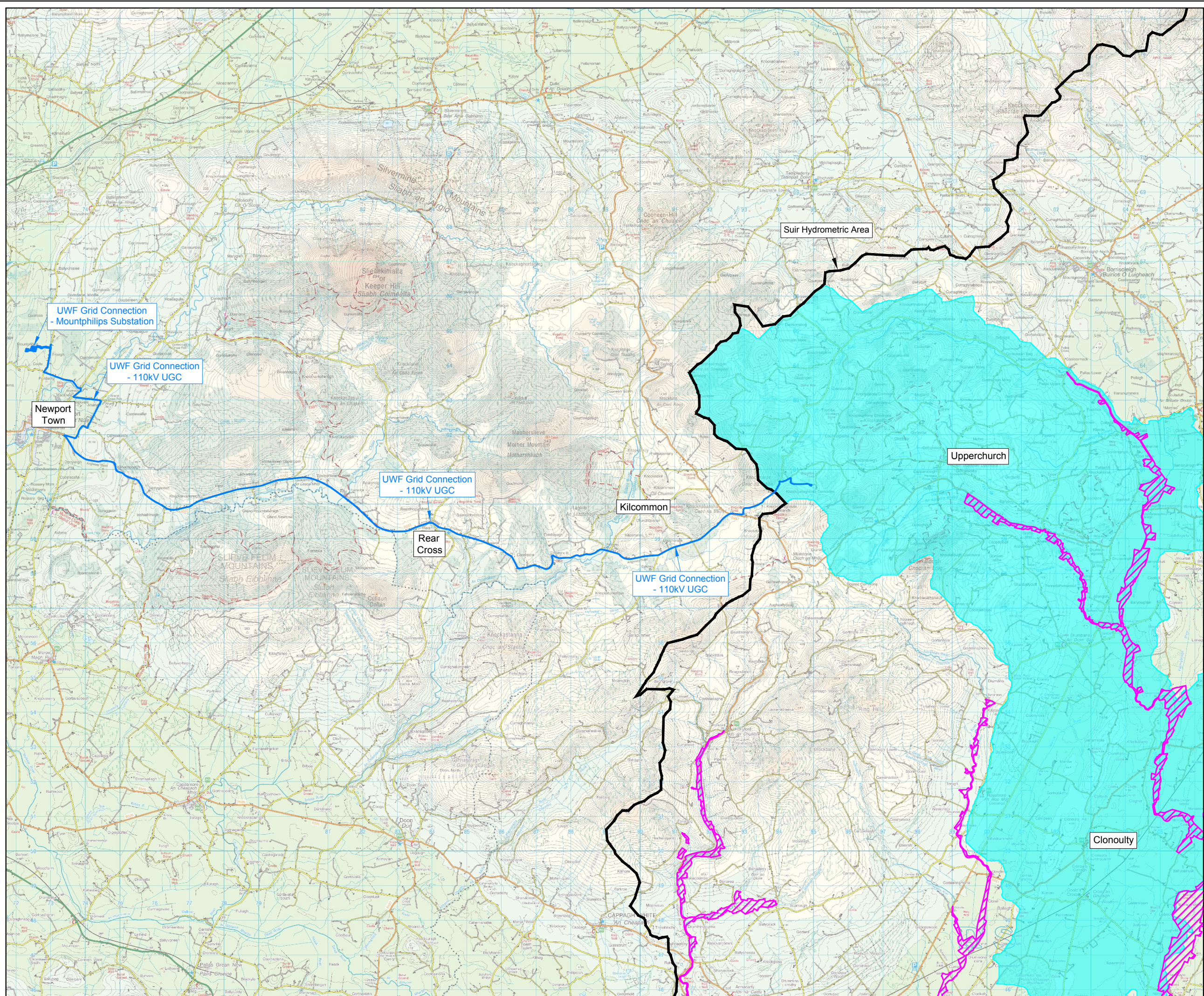
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MOB: +353 83 8805644

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Topic Chapter: Water

**Figure GC 11.6**

UWF Grid Connection Study Area  
for Lower River Suir SAC

Map Number:  
Map 1 of 1

- Legend:
- Study Area Extends :**
- UWF Grid Connection Construction Works Area
- Survey Results :**
- Lower River Suir SAC
  - Regional River Suir catchment - Hydrometric Area HA16
  - Suir\_SC\_030 Sub Catchment



Project:  
UWF Grid Connection (2019)

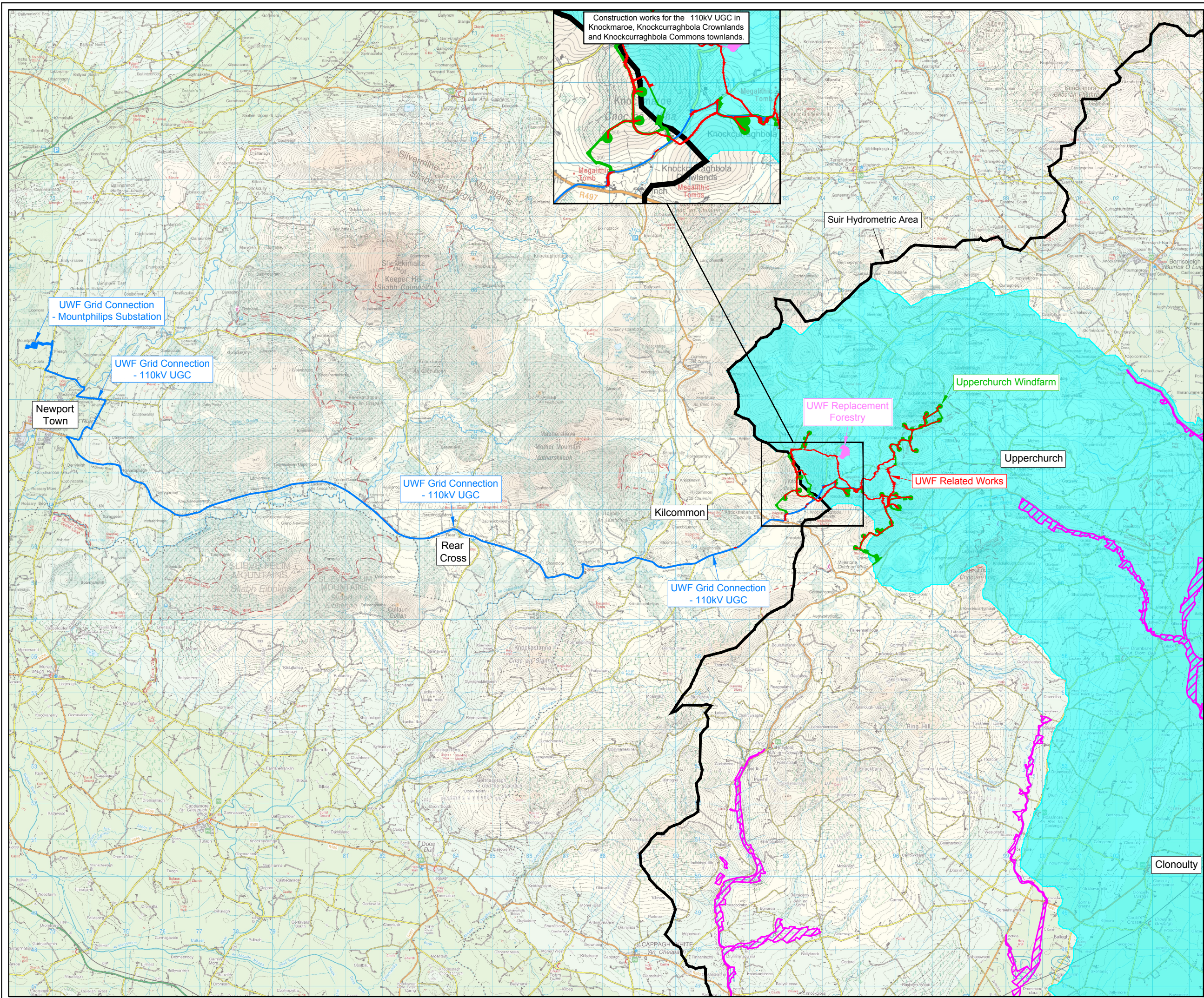
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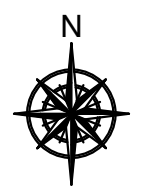




Topic Chapter: Water  
**Figure CE 11.6**  
UWF Grid Connection  
Cumulative Evaluation Study  
Area for Lower River Suir SAC

Map Number:  
Map 1 of 1

- Legend:
- Study Area Extends :**
- UWF Grid Connection Construction Works Area
- Cumulative Evaluation Projects :**
- UWF Related Works Construction Works Area
  - Upperchurch Windfarm Construction Works Area
  - UWF Replacement Forestry Construction Works Area
- Survey Results :**
- Lower River Suir SAC
  - Regional River Suir catchment - Hydrometric Area HA16
  - Suir\_SC\_030 Sub Catchment



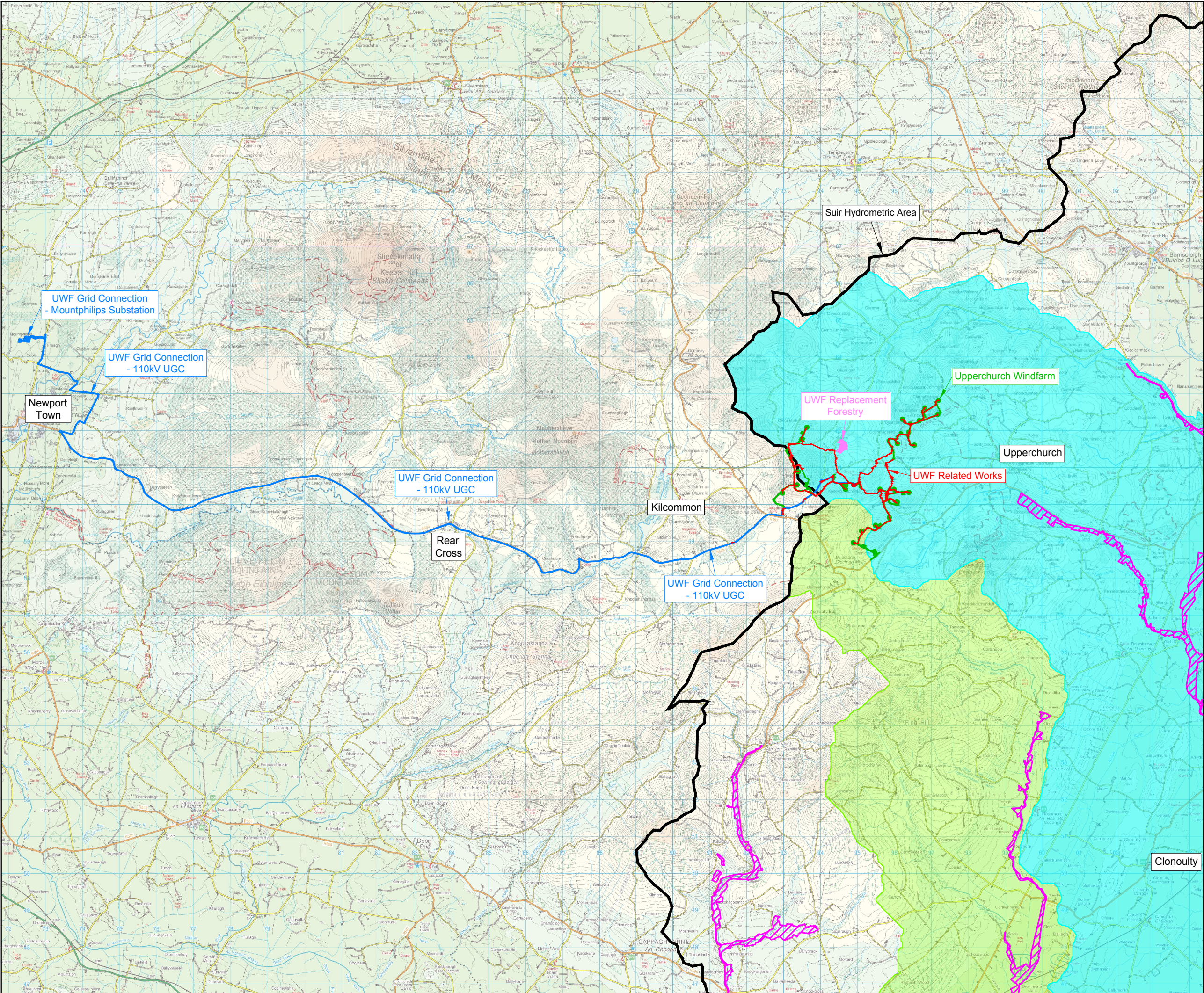
Project: UWF Grid Connection (2019)			
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Topic Chapter: Water

**Figure WP 11.6**

Whole Project Study Area  
for Lower River Suir SAC

Map Number:  
Map 1 of 1

Legend:

Elements of the Whole UWF Project Study Area Extends :


- UWF Grid Connection  
Construction Works Area
- UWF Related Works  
Construction Works Area
- Upperchurch Windfarm  
Construction Works Area
- UWF Replacement Forestry  
Construction Works Area

Survey Results :

- Lower River Suir SAC
- Regional River Suir catchment  
- Hydrometric Area HA16
- Suir\_SC\_030 Sub Catchment
- Multeen (East)\_SC\_010 Sub Catchment

Project:  
UWF Grid Connection (2019)

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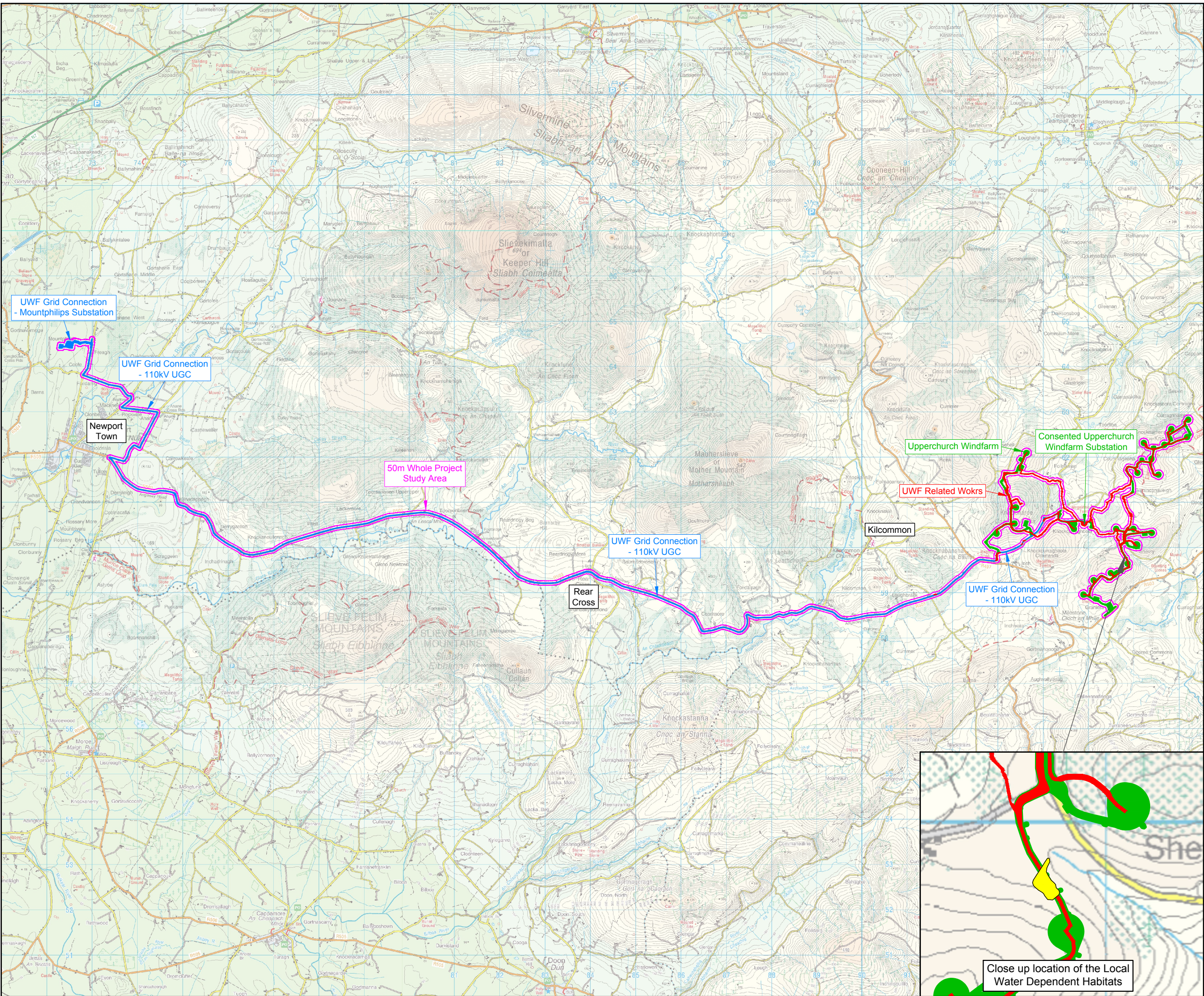
**ECOPOWER**



Legend:

- Study Area Extents:**
- UWF Grid Connection  
Construction Works Area
  - UWF Related Works  
Construction Works Area
  - Upperchurch Windfarm  
Construction Works Area
  - 50m Study Area from all  
Construction Works Area

- Survey Results:**
- Local Water Dependent Habitats



Project:  
UWF Grid Connection (2019)

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