

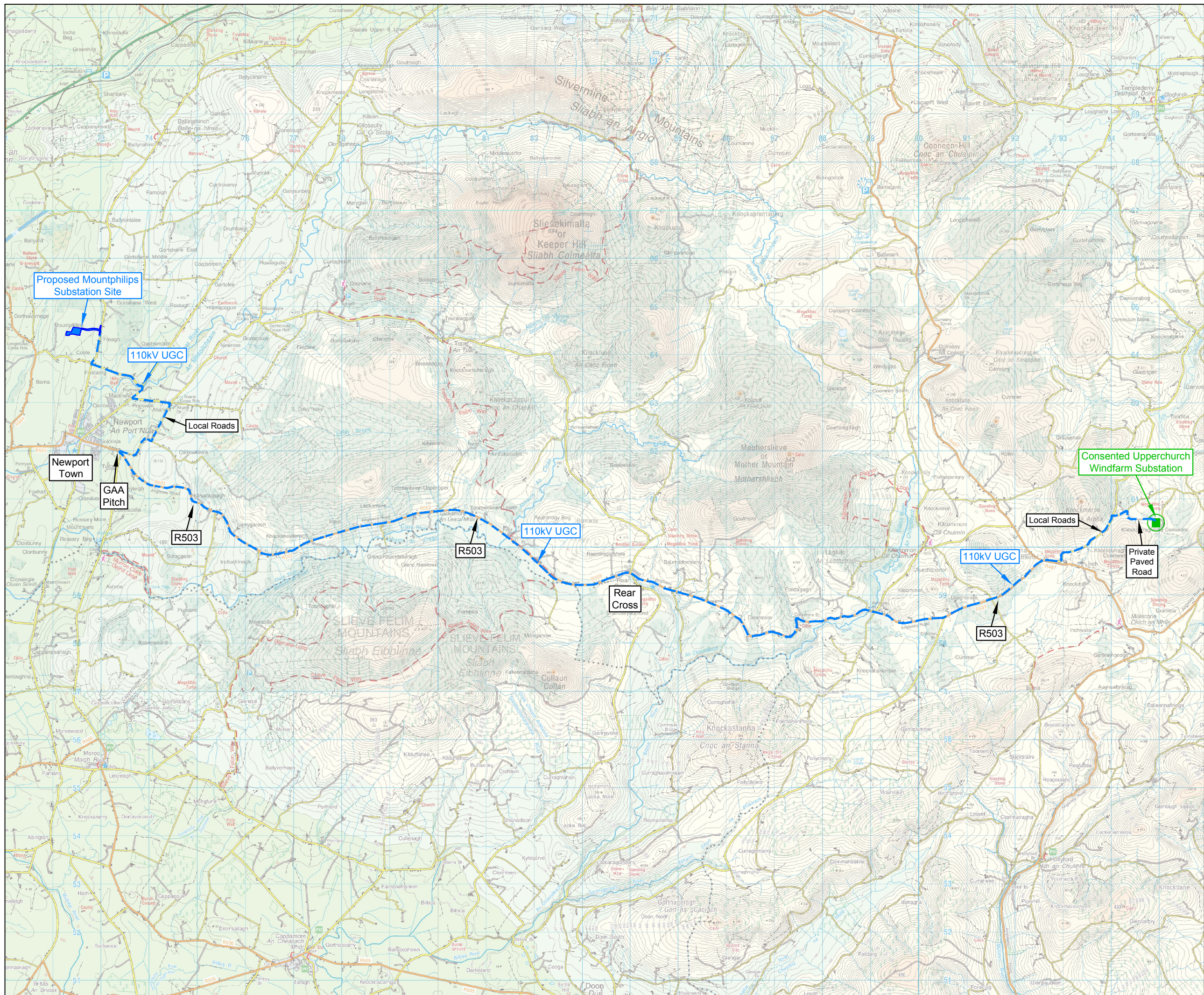
Appendix to Appropriate Assessment Report

Appendix A9: Accompanying Figures

The data and descriptions in this appendix have informed the cumulative evaluations in the Appropriate Assessment Report.

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| AA Figure 15 | Location of UWF Grid Connection and other projects/activities in relation to Slievefelim to Silvermines Mountain SPA |



AA Figure 1
Location of the UWF Grid Connection
on OSI Discovery Mapping

Map Number:
Map 1 of 1

- Legend:
- 110kV UGC
 - Mountphilips Substation Site
 - Consented Upperchurch Windfarm Substation



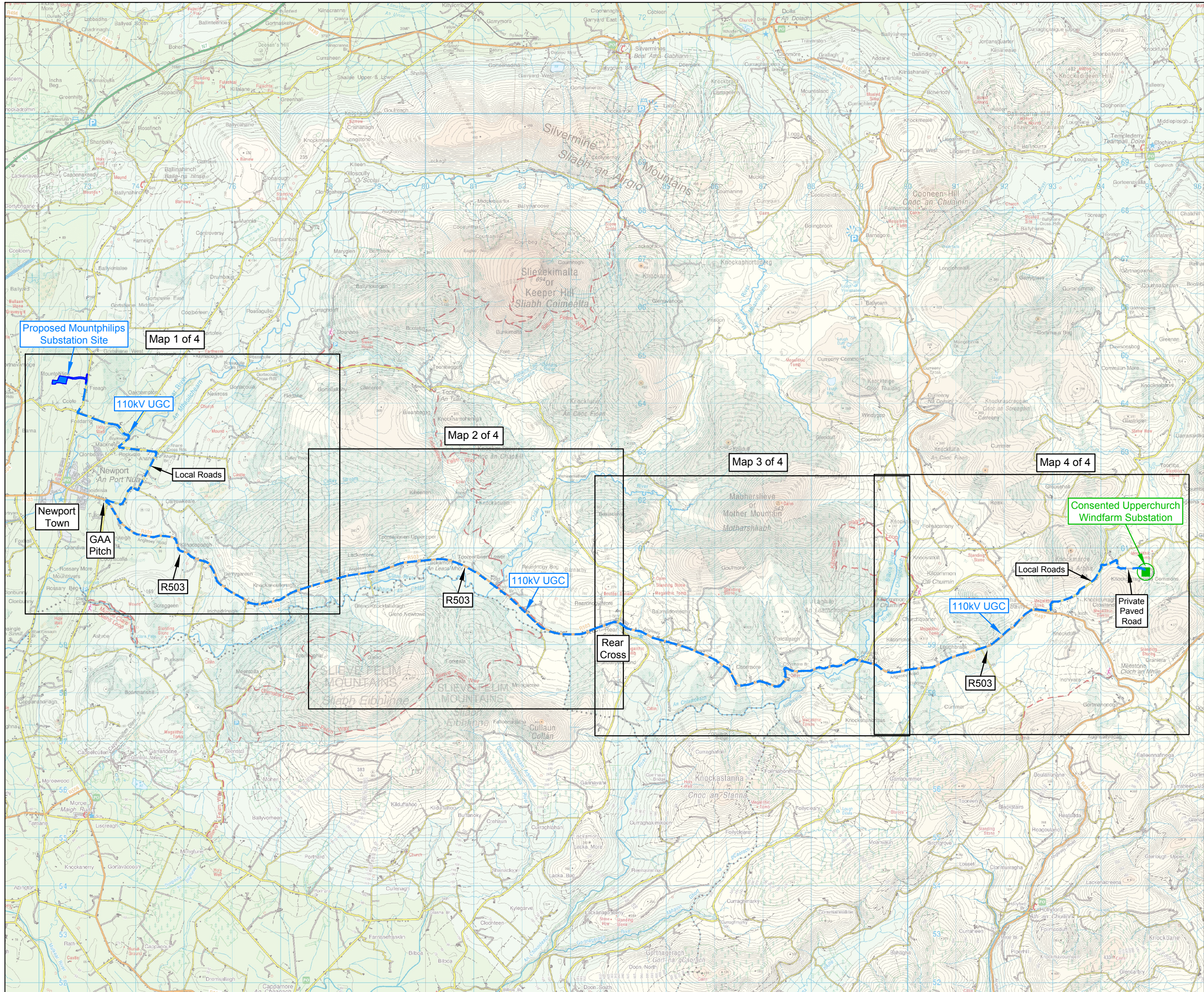
Project:
UWF Grid Connection (2019)

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| Drawn by: | Checked by: | Date: | Sheet Size: |
| AB | PK | October 19 | A3 |



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AA Figure 2
Layout of the 110kV UGC outside of the Mountphilips Substation Site

Map Number:
Overview Map

- Legend:
- UWF Grid Connection - 110kV UGC
 - UWF Grid Connection - Mountphilips Substation Site
 - Consented Upperchurch Windfarm Substation

Map 1 of 4 Map 1 of 4



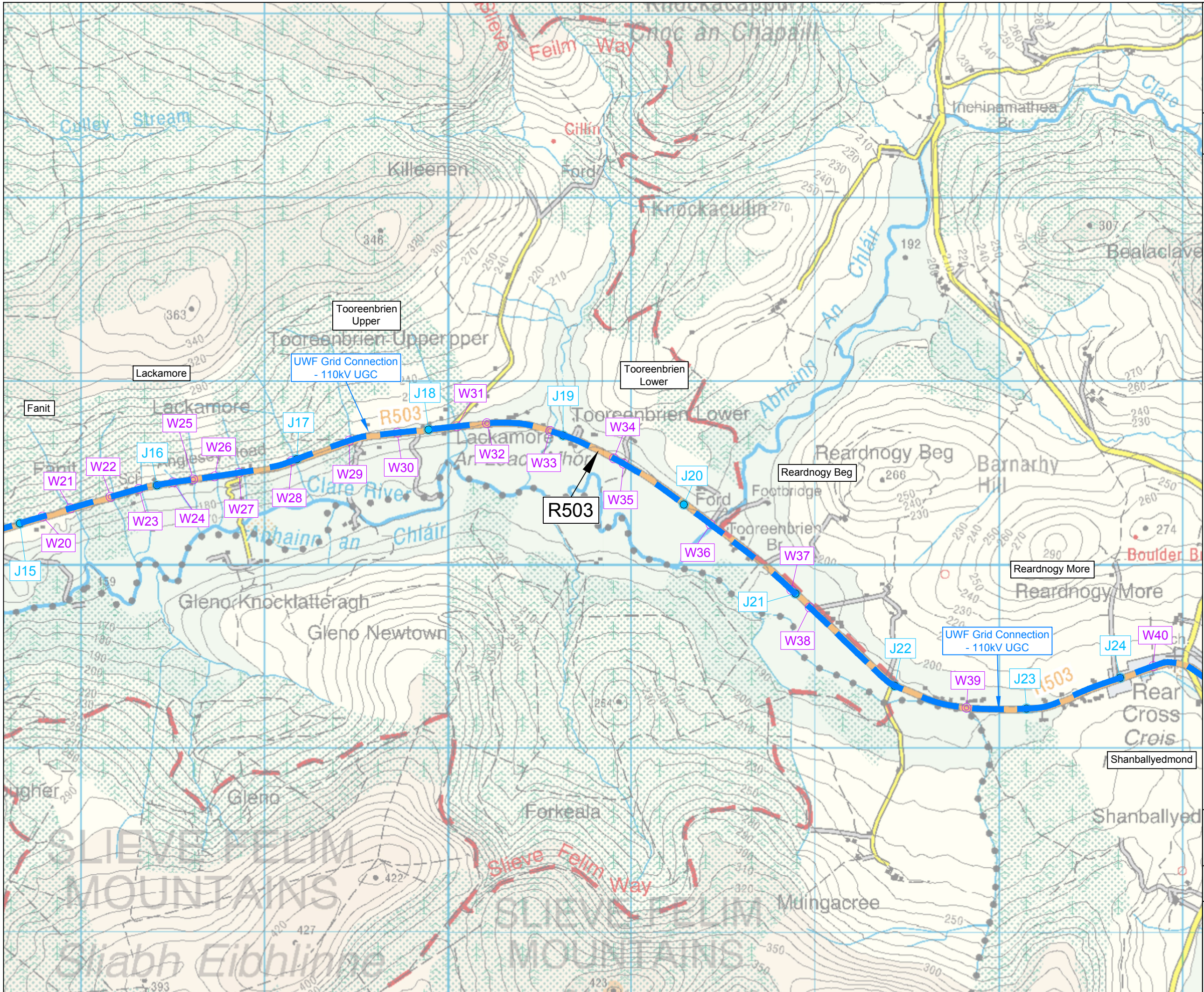
Project:
UWF Grid Connection (2019)

| | | | |
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AA Figure 2
Layout of the 110kV UGC outside of the Mountphilips Substation Site

Map Number:
Map 2 of 4

- Legend:
- UWF Grid Connection - 110kV UGC
 - Watercourse Crossing Locations
 - Joint Bay Locations
 - Townlands



Project:
UWF Grid Connection (2019)

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AA Figure 2

Layout of the 110kV UGC outside of the Mountphilips Substation Site

Map Number:
Map 3 of 4

Legend:

- UWF Grid Connection - 110kV UGC
- Watercourse Crossing Locations
- Joint Bay Locations
- Townlands



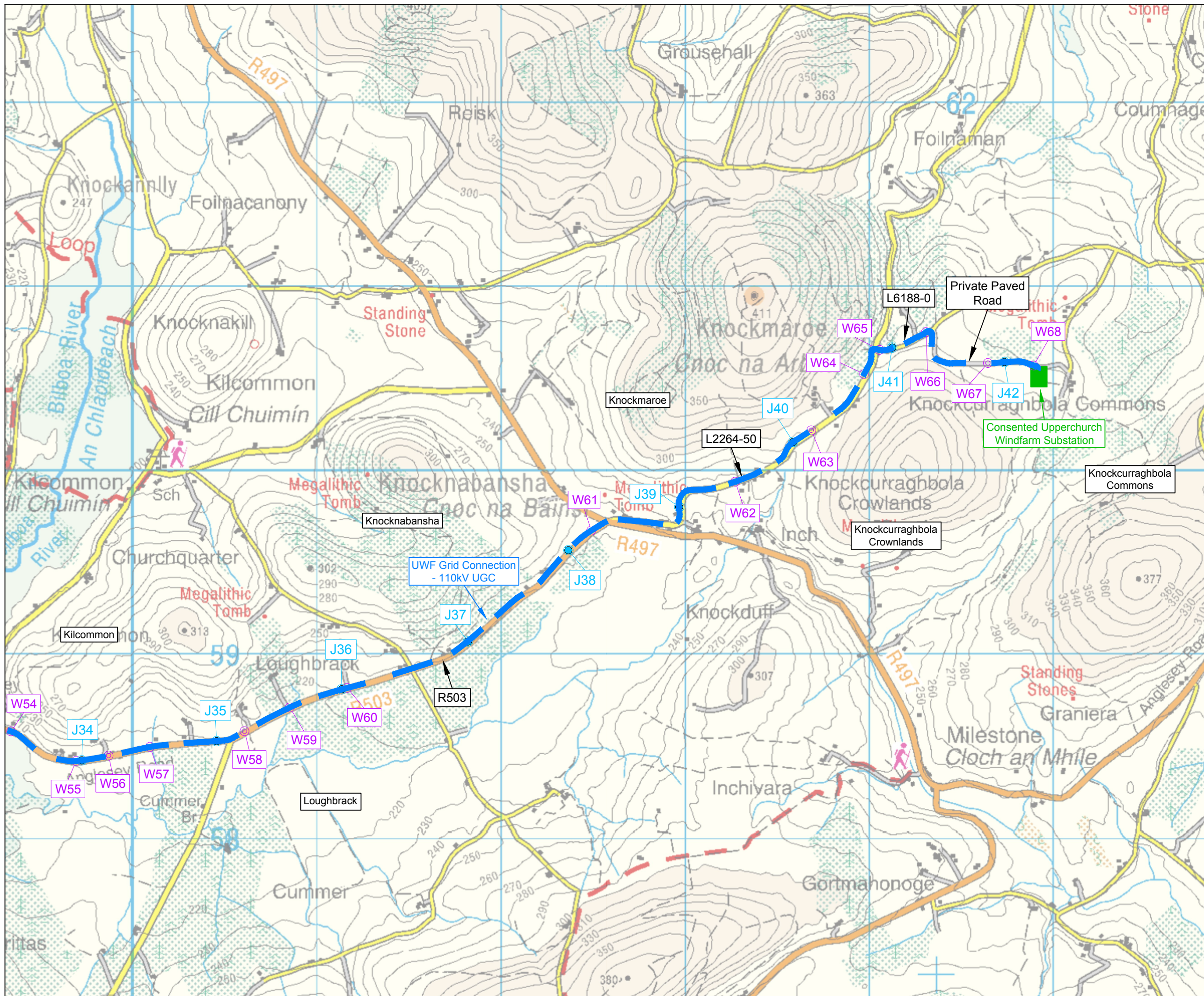
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UWF Grid Connection (2019)

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AA Figure 2

Layout of the 110kV UGC outside of the Mountphilips Substation Site

Map Number:

Map 4 of 4

Legend:

■ UWF Grid Connection - 110kV UGC

○ W62 Watercourse Crossing Locations

● J16 Joint Bay Locations

□ Coole Townlands

Project:

UWF Grid Connection (2019)

Drawn by:

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European Sites within the extended
Study Area for UWF Grid Connection

Legend:

— UWF Grid Connection
Construction Works Area

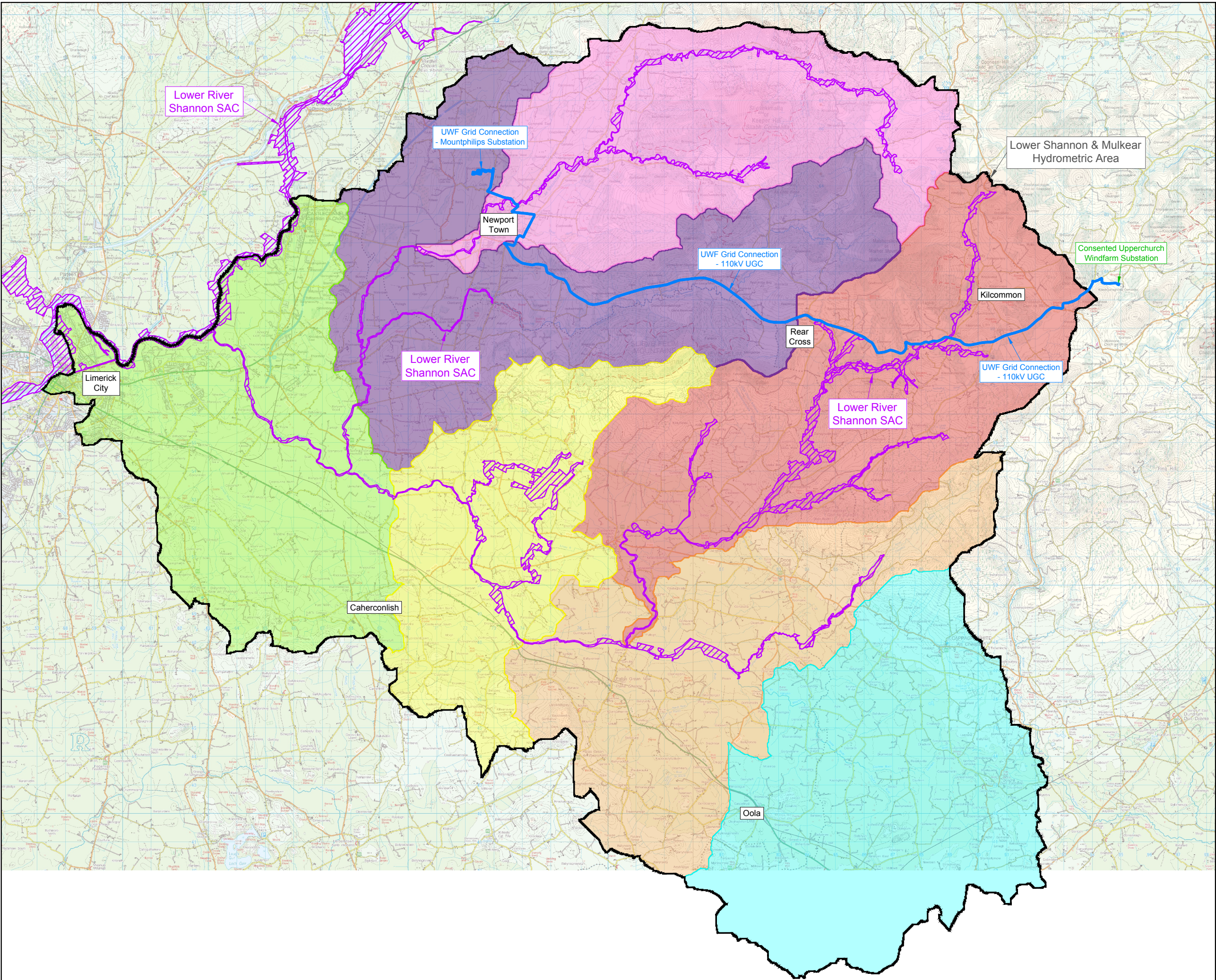
— 15km Study Area:
- UWF Grid Connection
Construction Works Area

 Special Areas of Conservation
 Special Protection Areas



| | | | |
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AA Figure 4
Location of UWF Grid Connection in relation to Lower River Shannon SAC

Map Number:
Map 1 of 1

Legend:

Study Area Extents :

— UWF Grid Connection
Construction Works Area

Survey Results :

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



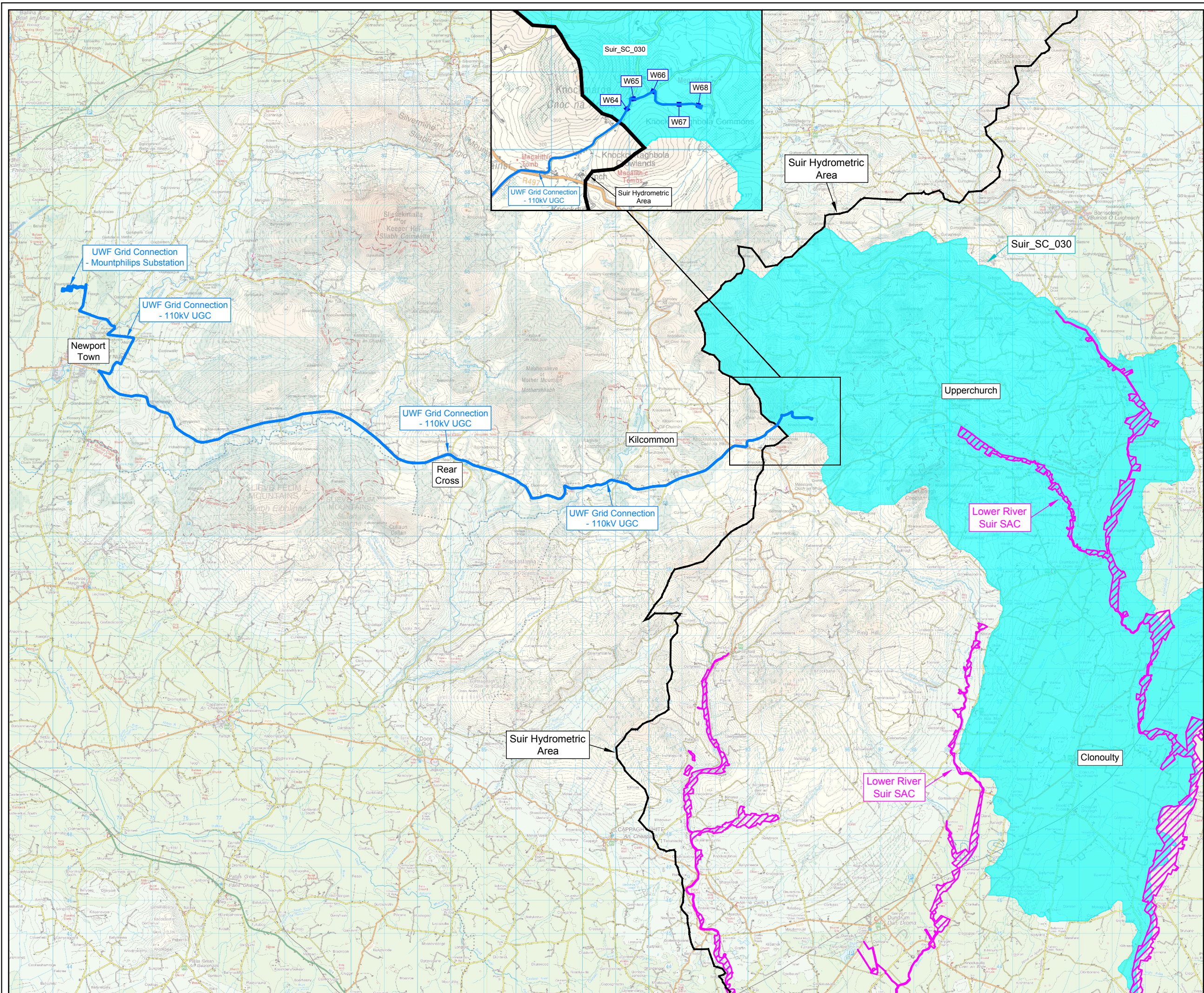
Project:
UWF Grid Connection (2019)

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AA Figure 5
Location of UWF Grid Connection
in relation to River Suir SAC

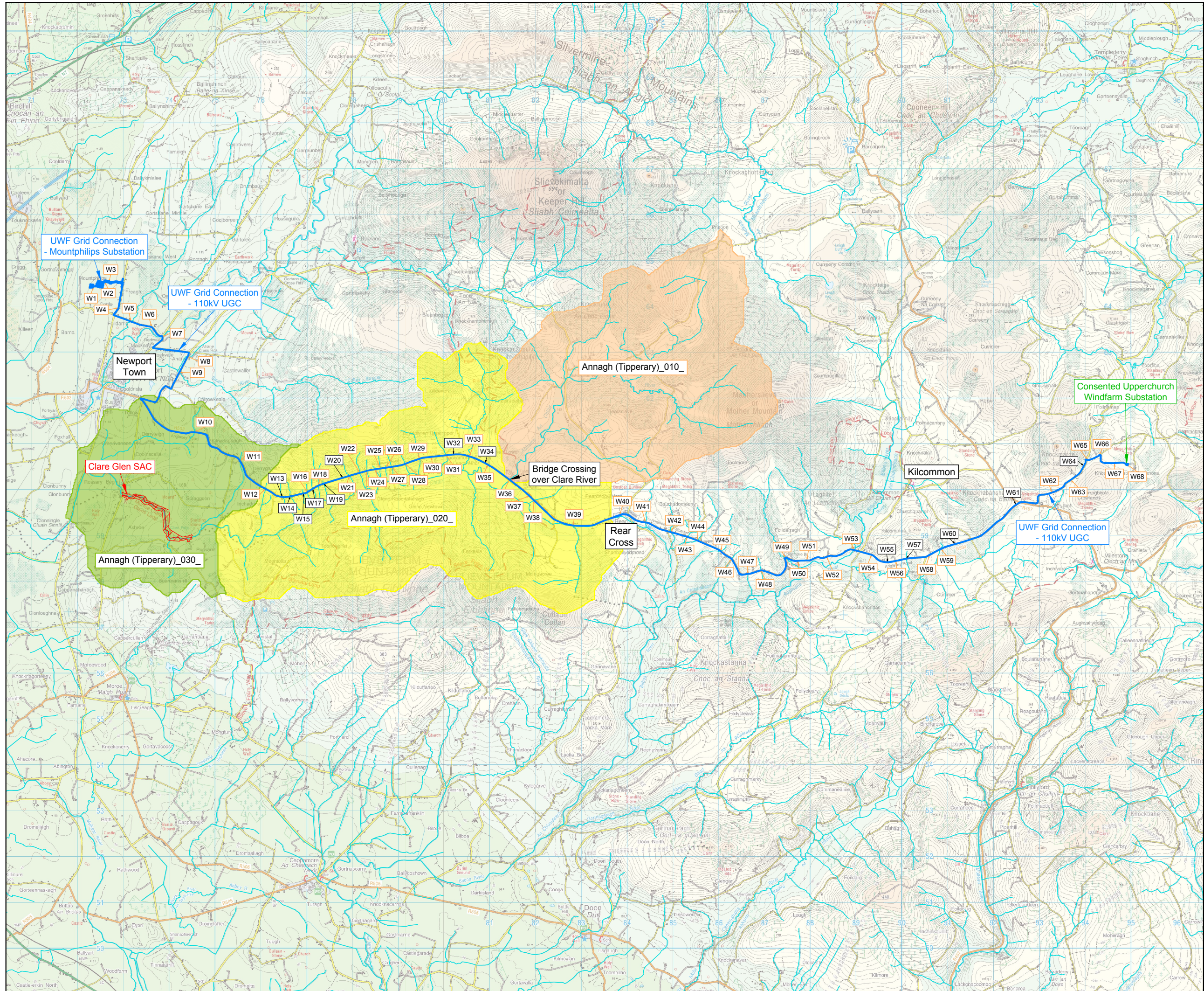
Map Number:
Map 1 of 1

- Legend:
- Study Area Extents:**
- UWF Grid Connection
 - Construction Works Area
- Survey Results:**
- Lower River Suir SAC
 - Regional River Suir catchment - Hydrometric Area HA16
 - EPA Sub-Catchment: Suir_SC_030
- Map Information:**
- W64 Watercourse Crossing Locations



Project:
UWF Grid Connection (2019)

| | | | |
|-----------|-------------|------------|-------------|
| Drawn by: | Checked by: | Date: | Sheet Size: |
| AB | PK | October 19 | A3 |



AA Figure 6
Location of UWF Grid Connection
in relation to Clare Glen SAC

Map Number:
Map 1 of 1

Legend:

Study Area Extents:

- UWF Grid Connection
- Construction Works Area

EPA Local Surface Water Bodies:

- Annagh (Tipperary)_030
- Annagh (Tipperary)_020
- Annagh (Tipperary)_010

Survey Results:

- Clare Glen SAC

Map Information:

- Watercourse
- Potential Culvert Replacement
- Watercourse Crossing Locations



Project:
UWF Grid Connection (2019)

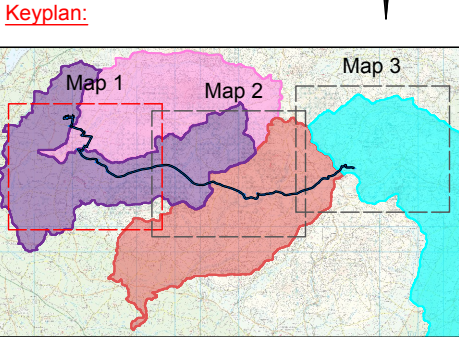
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AA Figure 7
Location of Aquatic Habitats, Species and Otter in relation to UWF Grid Connection

Map Number:
Map 1 of 3

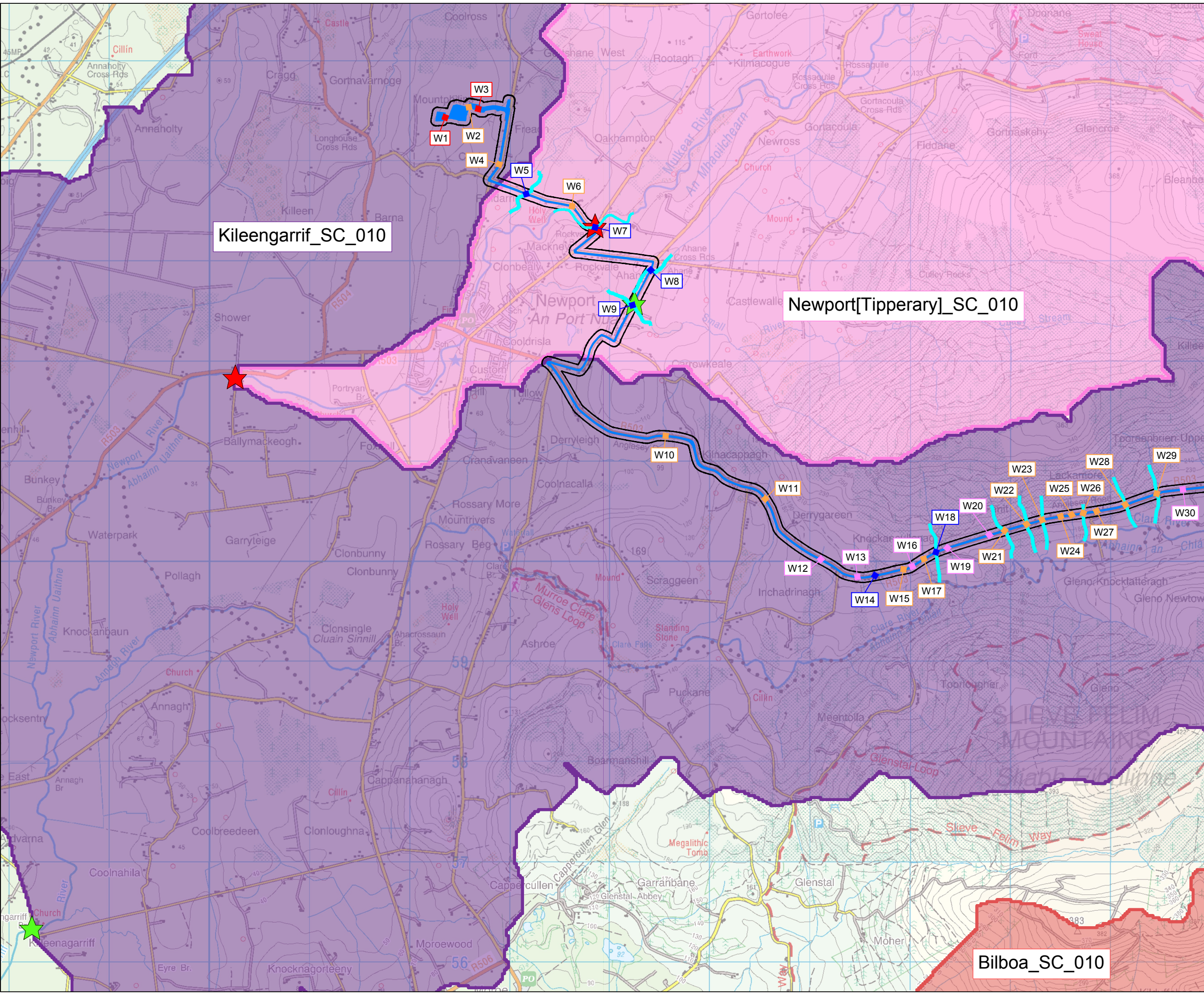
- Legend:
- Subject Development:**
- UWF Grid Connection
 - Construction Works Area
- Study Area Extents:**
- W7 Class 1 Watercourse Crossing
 - W1 Class 2 Watercourse Crossing
 - W4 Class 3 Watercourse Crossing
 - W12 Class 4 Watercourse Crossing
 - 300m Study Area upstream and downstream of watercourse crossing with suitable Otter habitat

- Map Information:**
- EPA Q-Values: Good
 - EPA Q-Values: High
- EPA Sub-Catchment:**
- Kileengarrif_SC_010
 - Newport[Tipperary]_SC_010
 - Bilboa_SC_010



Project:
UWF Grid Connection (2019)

| | | | |
|-----------|-------------|------------|-------------|
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AA Figure 7
Location of Aquatic Habitats, Species and Otter in relation to UWF Grid Connection

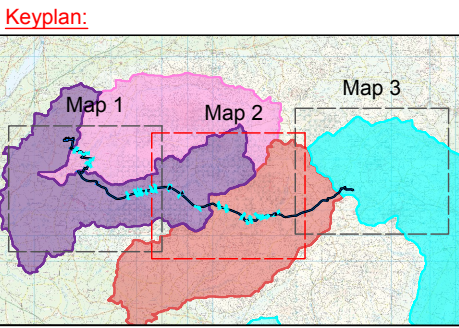
Map Number:
Map 2 of 3

- Legend:
- Subject Development:**
- UWF Grid Connection
 - Construction Works Area
- Study Area Extents:**
- W7 Class 1 Watercourse Crossing
 - W4 Class 3 Watercourse Crossing
 - W12 Class 4 Watercourse Crossing
 - 300m Study Area upstream and downstream of watercourse crossing with suitable Otter habitat

- Study Area Extents:**
- Otter

- Map Information:**
- EPA Q-Values: Good

- EPA Sub-Catchment:**
- Kileengarrif_SC_010
 - Newport[Tipperary]_SC_010
 - Bilboa_SC_010



Project:
UWF Grid Connection (2019)

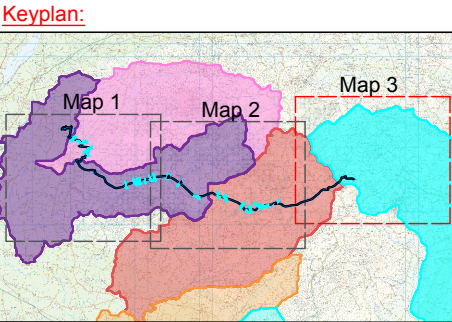
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| Drawn by: | Checked by: | Date: | Sheet Size: |
| AB | PK | October 19 | A3 |

AA Figure 7
Location of Aquatic Habitats, Species and Otter in relation to UWF Grid Connection

Map Number:
Map 3 of 3

- Legend:
- Subject Development:**
- UWF Grid Connection
 - Construction Works Area
- Study Area Extents:**
- W65 Class 2 Watercourse Crossing
 - W12 Class 4 Watercourse Crossing

- Map Information:**
- EPA Q-Values: Good
 - EPA Q-Values: Moderate
 - EPA Q-Values: High
- EPA Sub-Catchment:**
- Suir_SC_030
 - Bilboa_SC_010



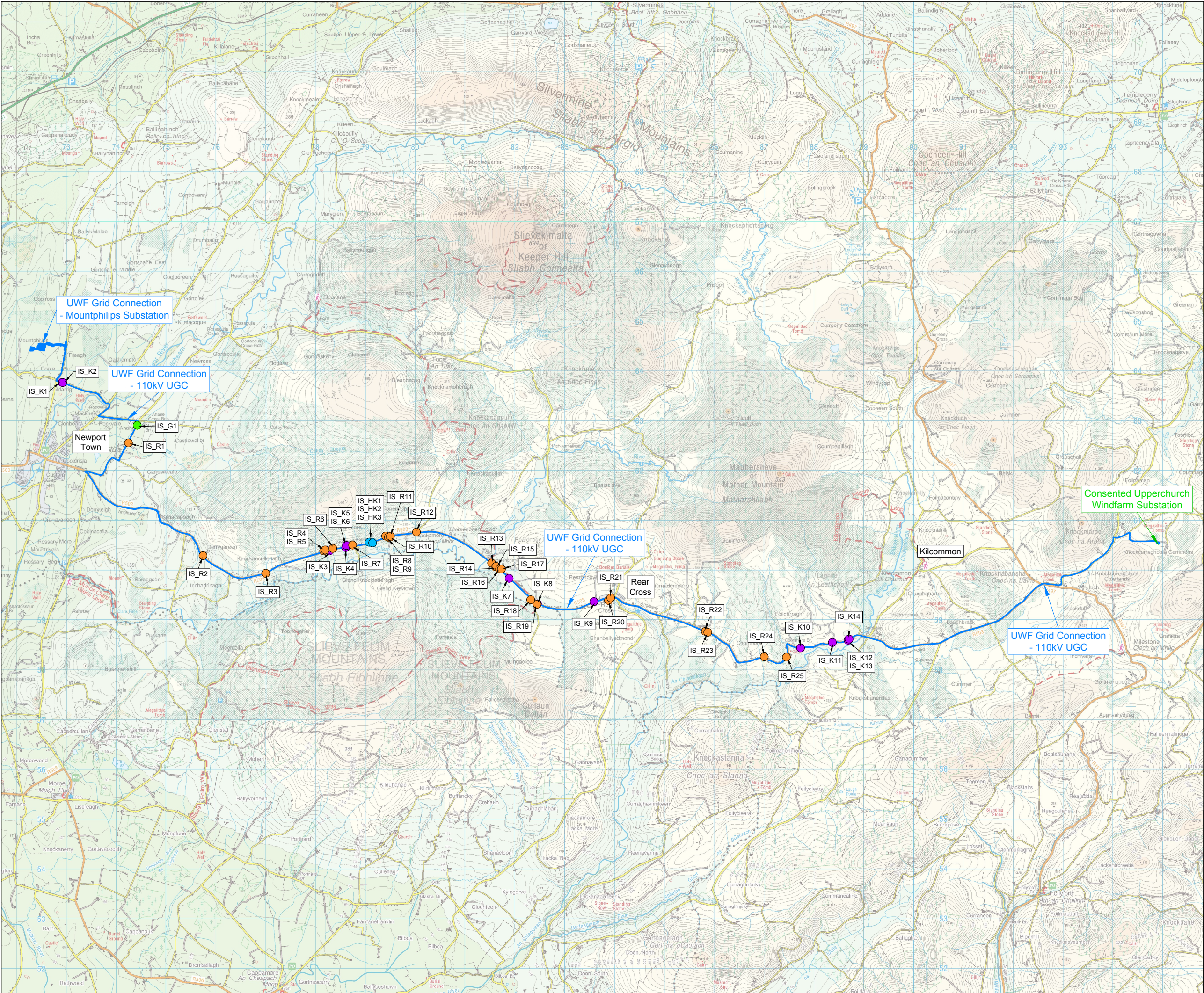
Project:
UWF Grid Connection (2019)

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AA Figure 8

Location of Invasive Species in relation to the UWF Grid Connection (extract from ISMP)

Map Number:
Map 1 of 1

Legend:

Subject Development:

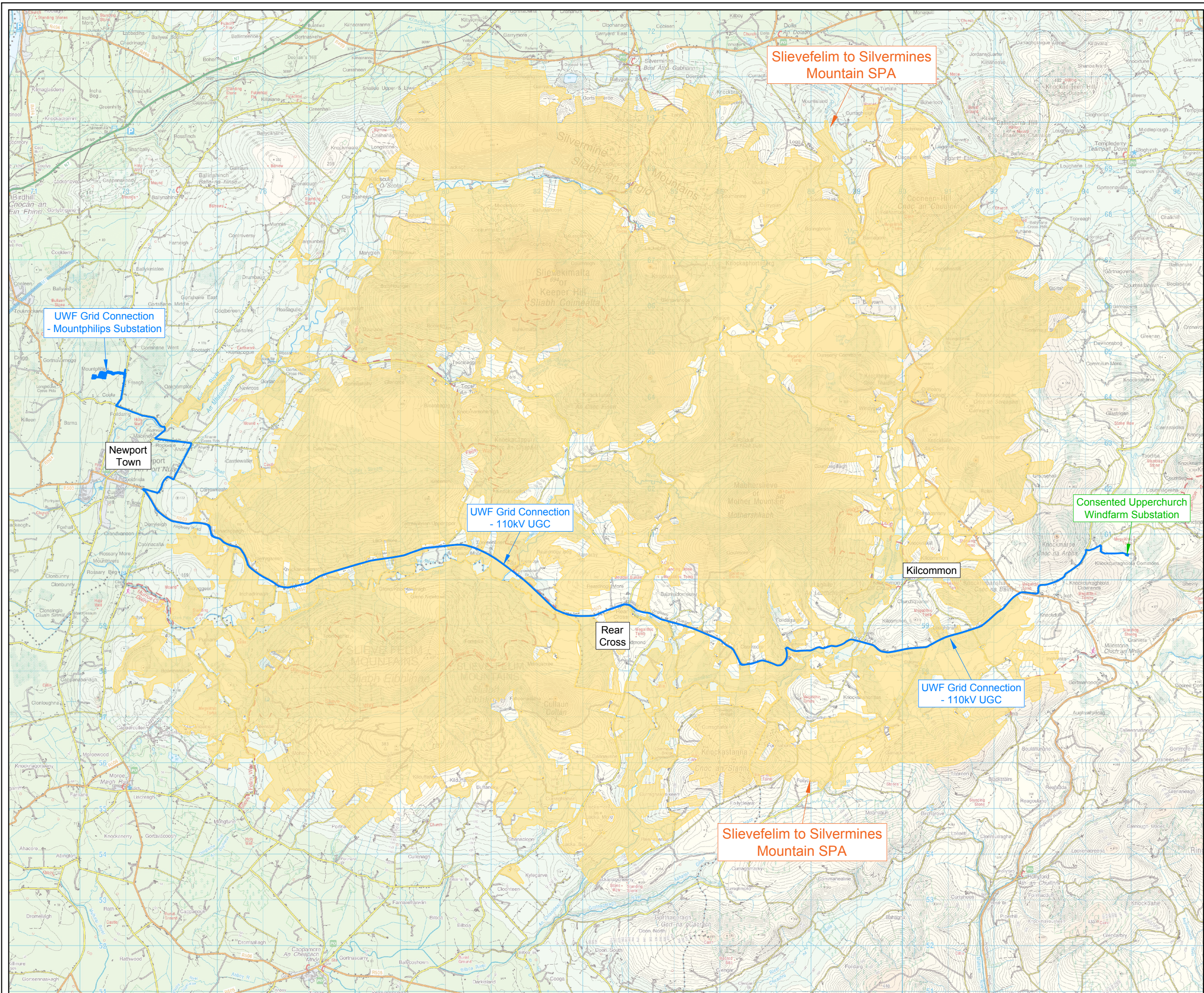
- UWF Grid Connection - 110kV UGC
- UWF Grid Connection - Mountphilips Substation

Survey Results:

- Japanese Knotweed
- Himalayan Knotweed
- Giant Hogweed
- Rhododendron

Project:
UWF Grid Connection (2019)

| | | | |
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AA Figure 9
Location of UWF Grid Connection
in relation to Slievefelim to
Silvermines Mountain SPA

Map Number:
Map 1 of 1

Legend:

- Study Area Extents:**
- UWF Grid Connection
 - Construction Works Area
- Survey Results:**
- Slievefelim to Silvermines Mountains SPA



Project:
UWF Grid Connection (2019)

| | | | |
|-----------|-------------|------------|-------------|
| Drawn by: | Checked by: | Date: | Sheet Size: |
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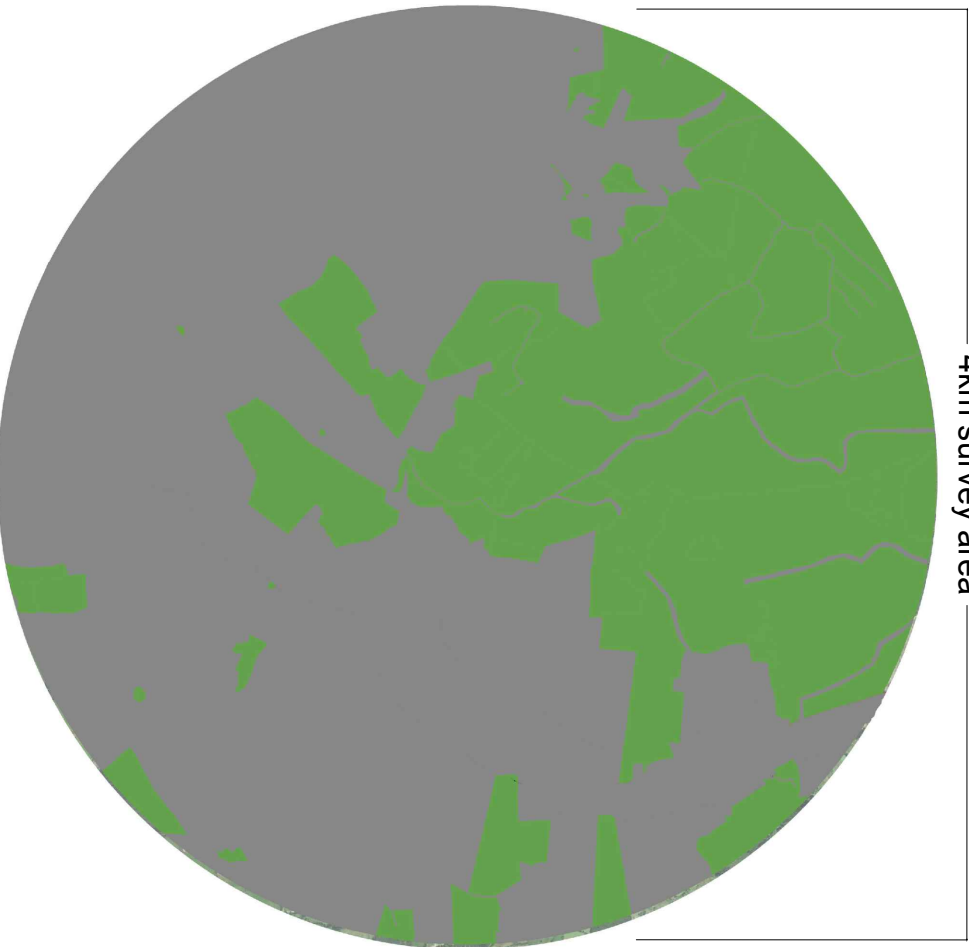
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Nest A: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability

Suitable Habitat

Not Suitable Habitat



AA Figure 10

Habitat Suitability within the Core Foraging Range of Hen Harrier Nests

Nest A

Nest Site A

Distance 110kV UGC: 0.6km

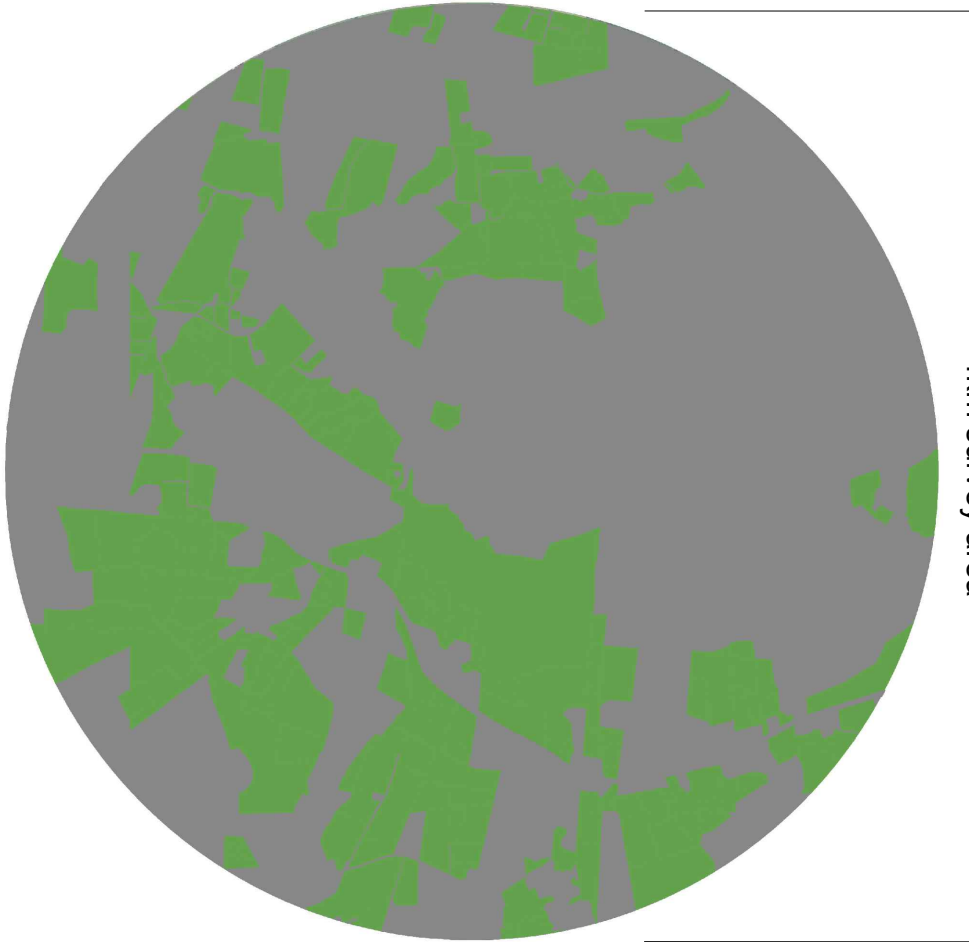
Last active: 2016

Nest A: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability

Suitable Habitat

Not Suitable Habitat



Project:

UWF Grid Connection (2019)

| | | | |
|-----------|-------------|------------|-------------|
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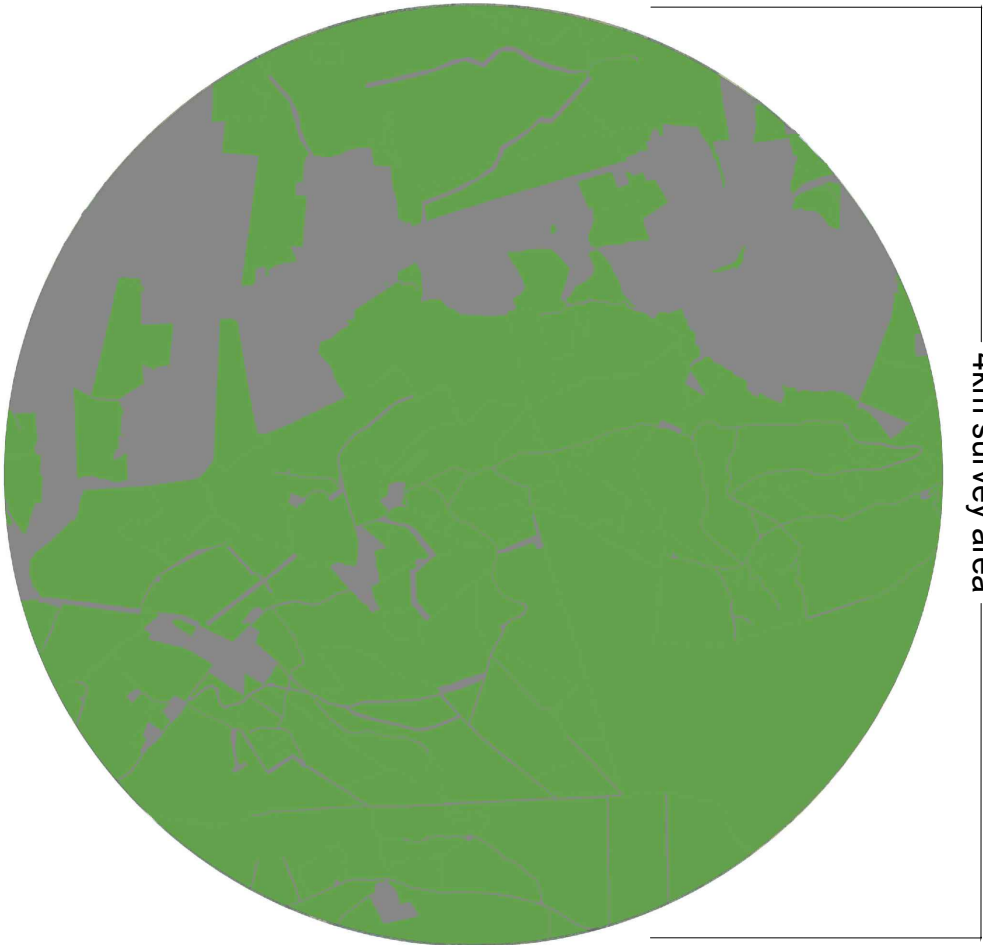
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Nest B: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability

Suitable Habitat

Not Suitable Habitat



AA Figure 10

Habitat Suitability within the Core Foraging Range of Hen Harrier Nests

Nest B

Nest Site B

Distance 110kV UGC: 1.0km

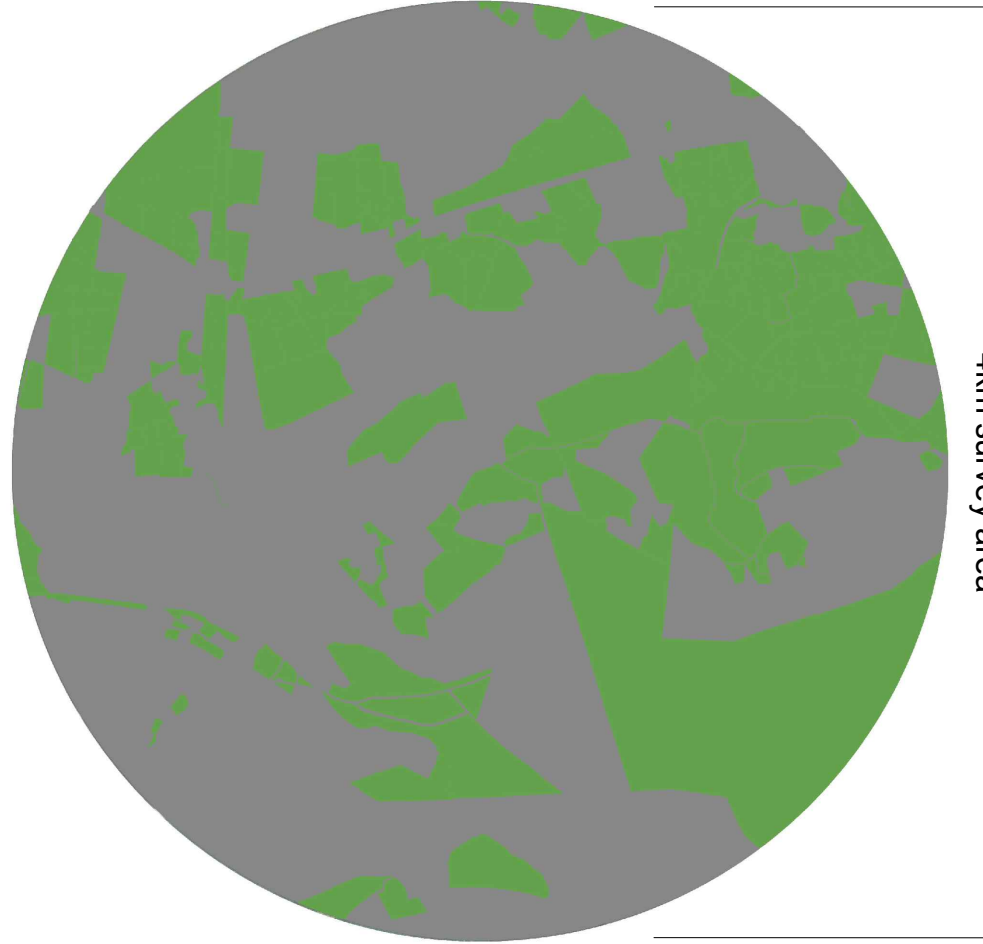
Last active: 2019

Nest B: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability

Suitable Habitat

Not Suitable Habitat



Project:

UWF Grid Connection (2019)

| | | | |
|-----------|-------------|------------|-------------|
| Drawn by: | Checked by: | Date: | Sheet Size: |
| AB | PK | October 19 | A3 |



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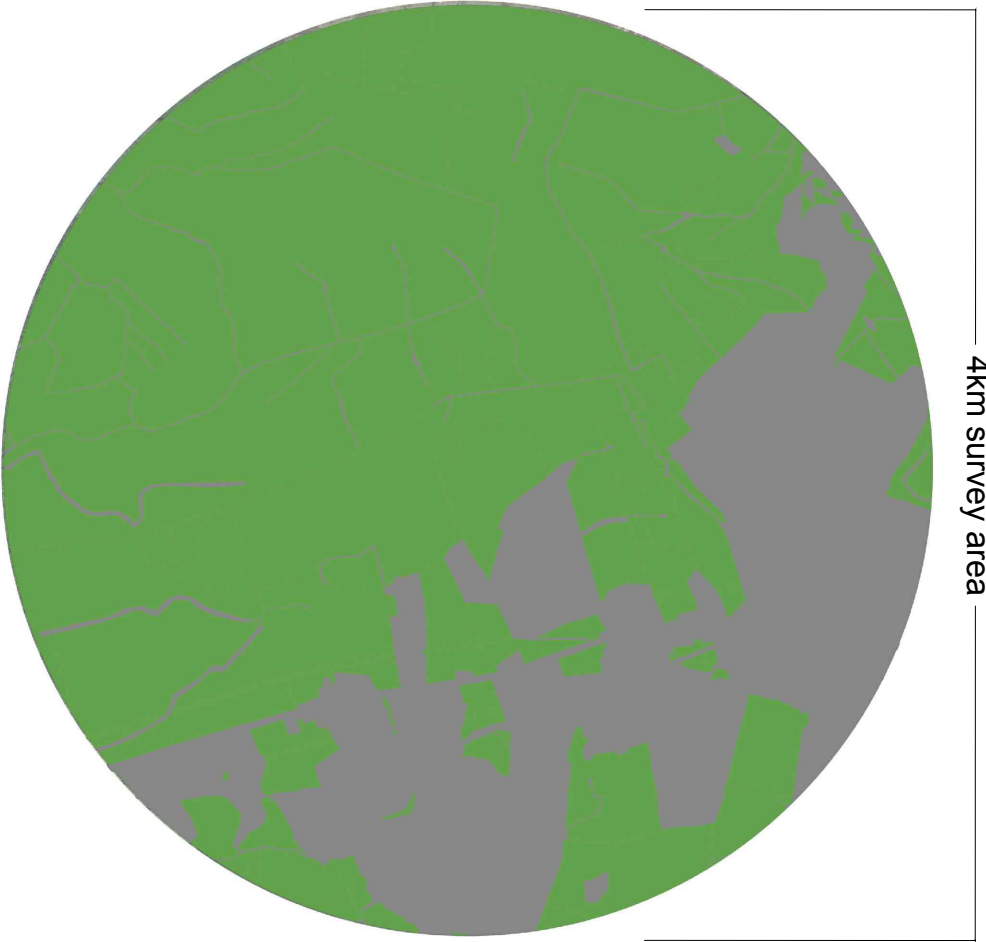
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Nest C: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability

Suitable Habitat

Not Suitable Habitat



AA Figure 10

Habitat Suitability within the Core Foraging Range of Hen Harrier Nests

Nest C

Nest Site C

Distance 110kV UGC: 0.9km

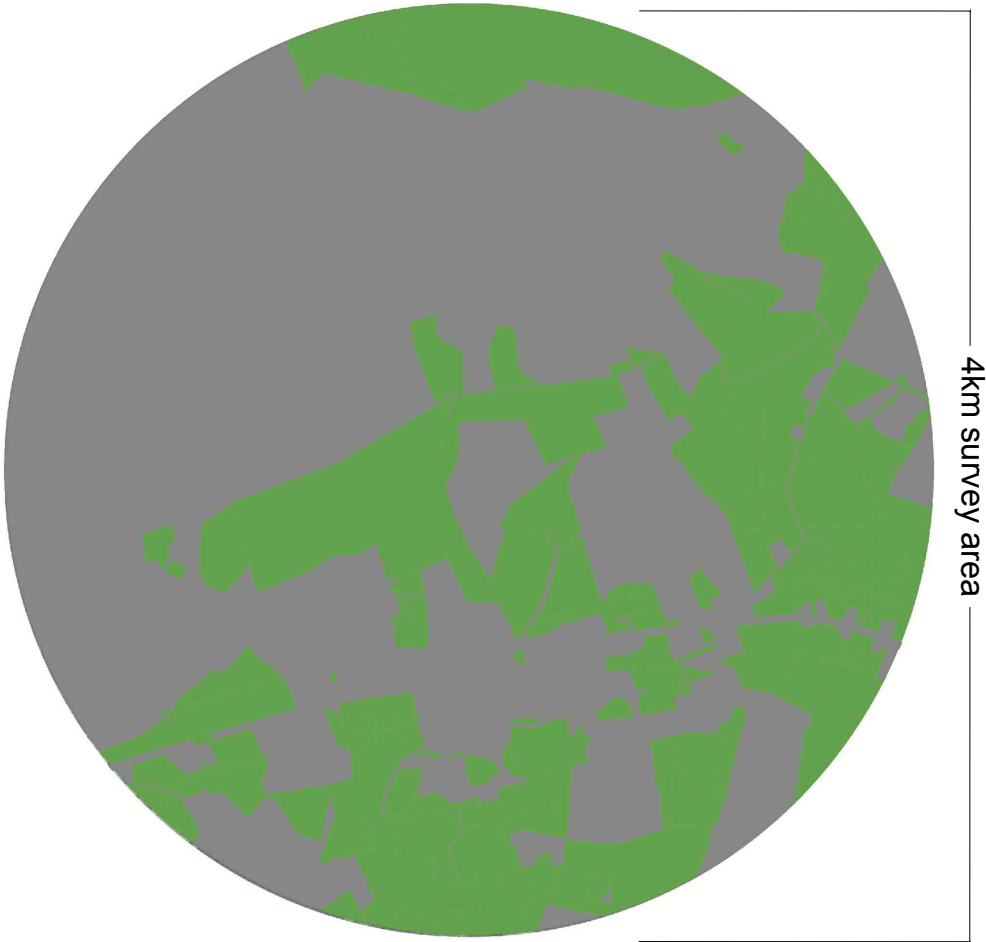
Last active: 2019

Nest C: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability

Suitable Habitat

Not Suitable Habitat



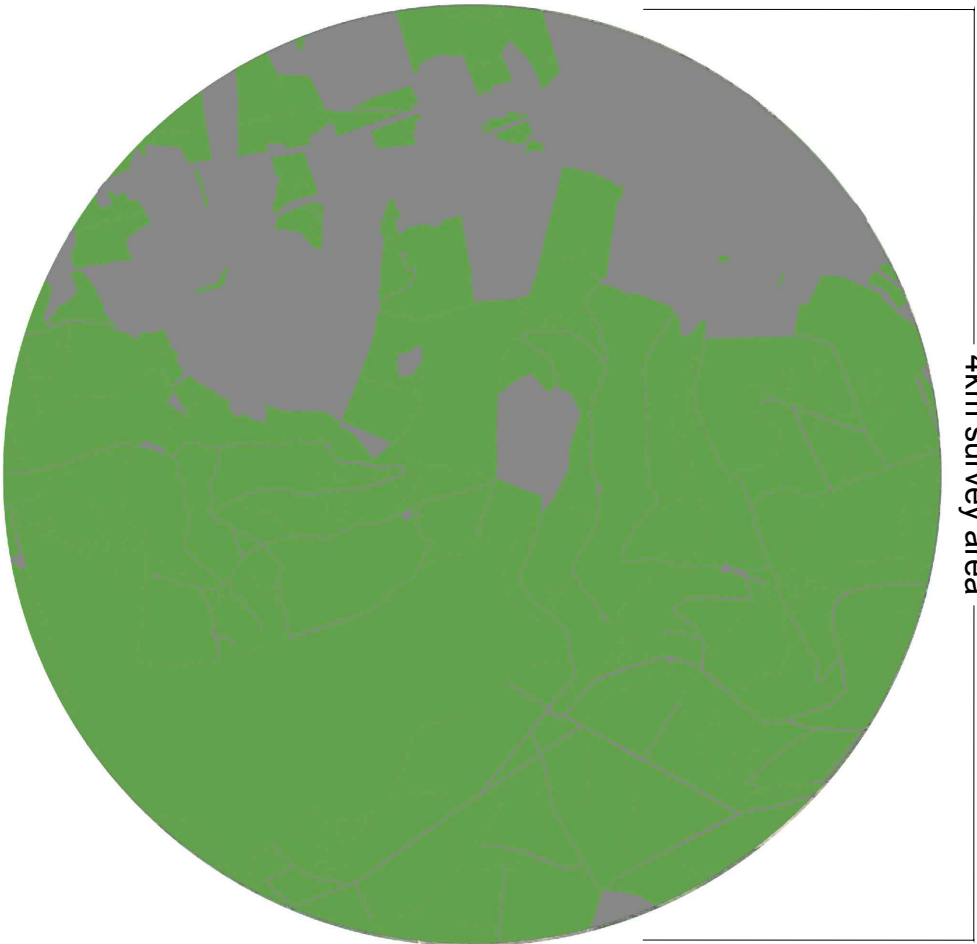
Project:

UWF Grid Connection (2019)

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| Drawn by: | Checked by: | Date: | Sheet Size: |
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Nest D: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability
Suitable Habitat
Not Suitable Habitat



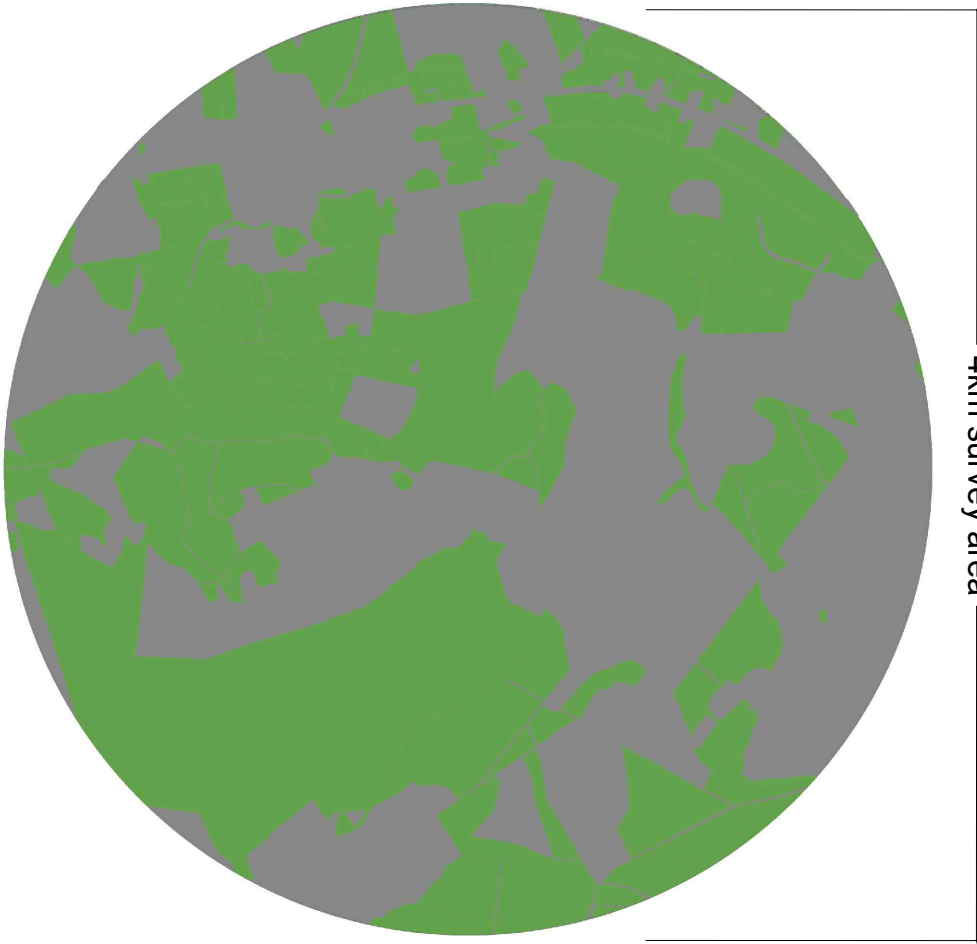
AA Figure 10
Habitat Suitability within the
Core Foraging Range of
Hen Harrier Nests

Nest D

Nest Site D
Distance 110kV UGC: 1.5km
Last active: 2019

Nest D: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability
Suitable Habitat
Not Suitable Habitat



Project:
UWF Grid Connection (2019)

| | | | |
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| Drawn by: | Checked by: | Date: | Sheet Size: |
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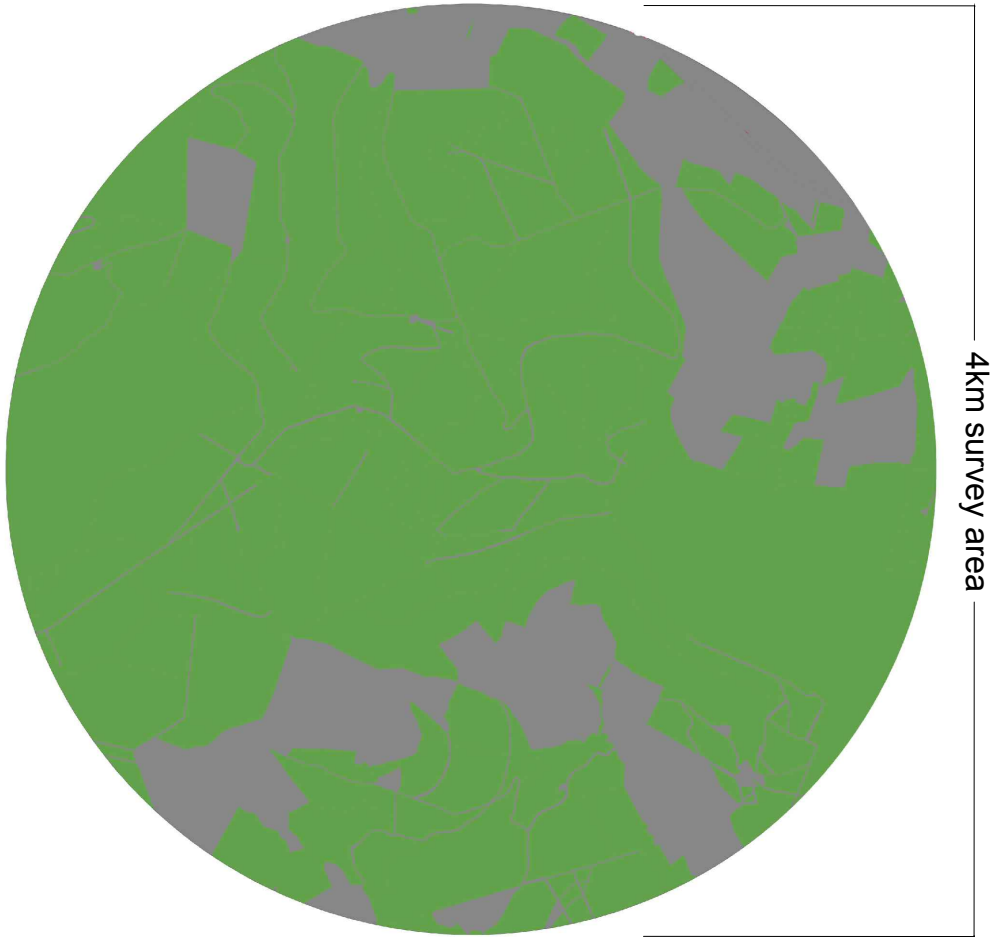


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Nest E: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability
Suitable Habitat
Not Suitable Habitat



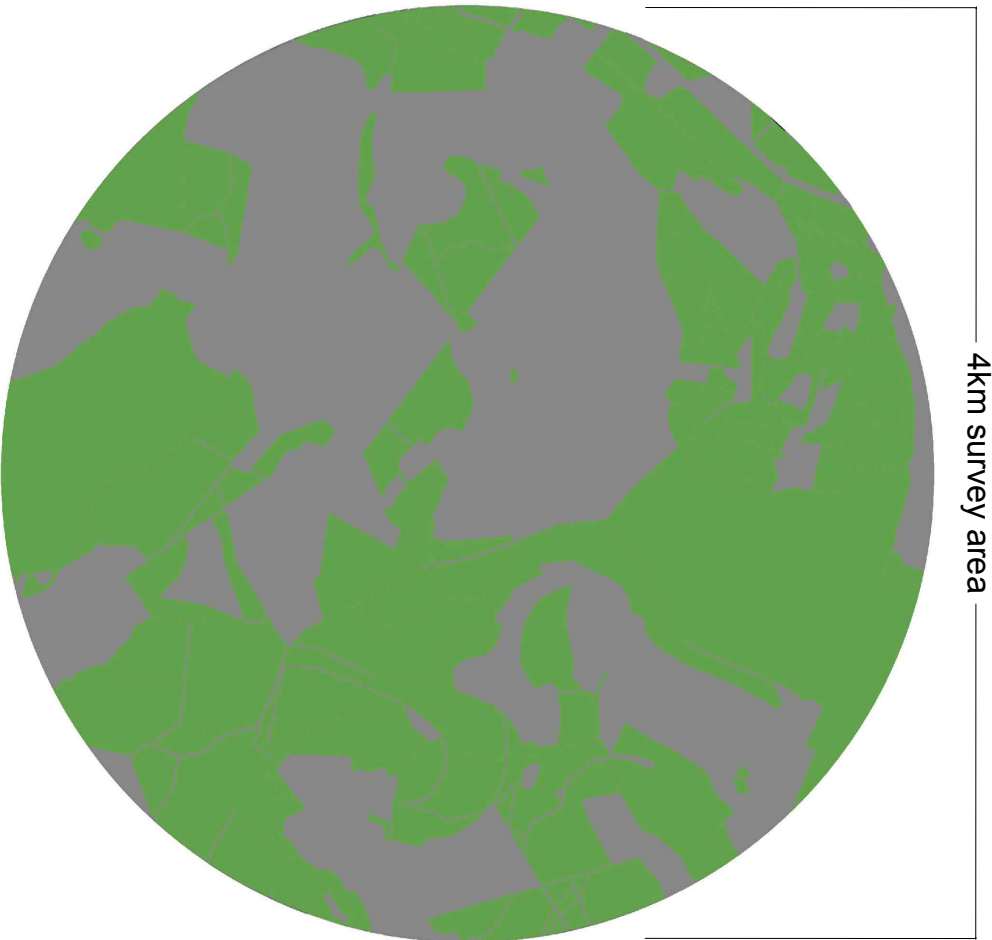
AA Figure 10
Habitat Suitability within the
Core Foraging Range of
Hen Harrier Nests

Nest E

Nest Site E
Distance 110kV UGC: 1.8km
Last active: 2019

Nest E: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability
Suitable Habitat
Not Suitable Habitat



Project:
UWF Grid Connection (2019)

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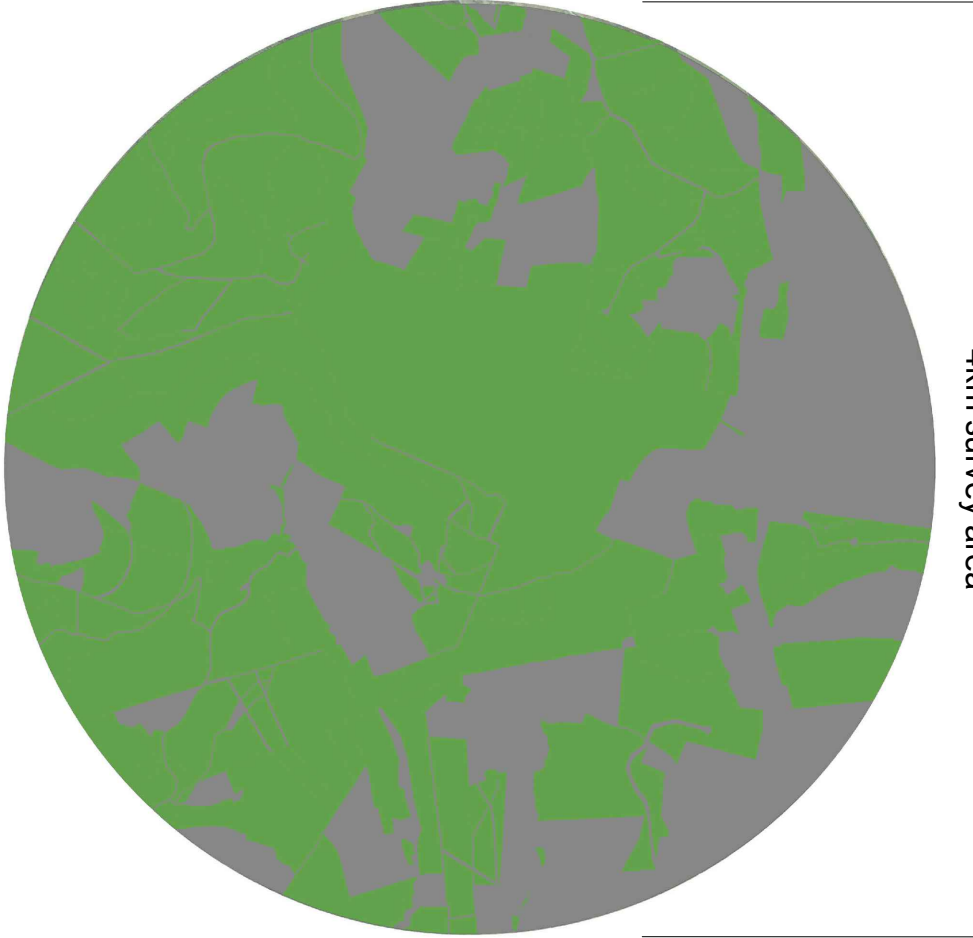
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Nest F: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability

Suitable Habitat

Not Suitable Habitat



AA Figure 10

Habitat Suitability within the Core Foraging Range of Hen Harrier Nests

Nest F

Nest Site F

Distance 110kV UGC: 2.0km

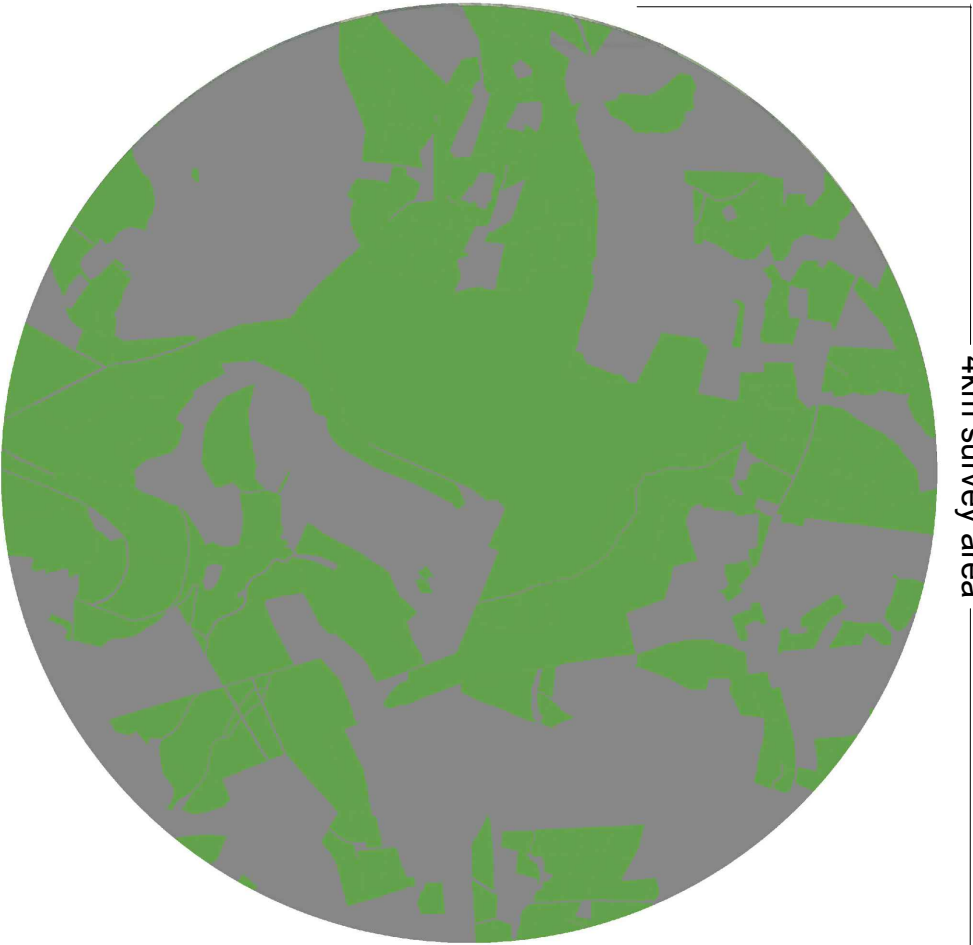
Last active: 2019

Nest F: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability

Suitable Habitat

Not Suitable Habitat



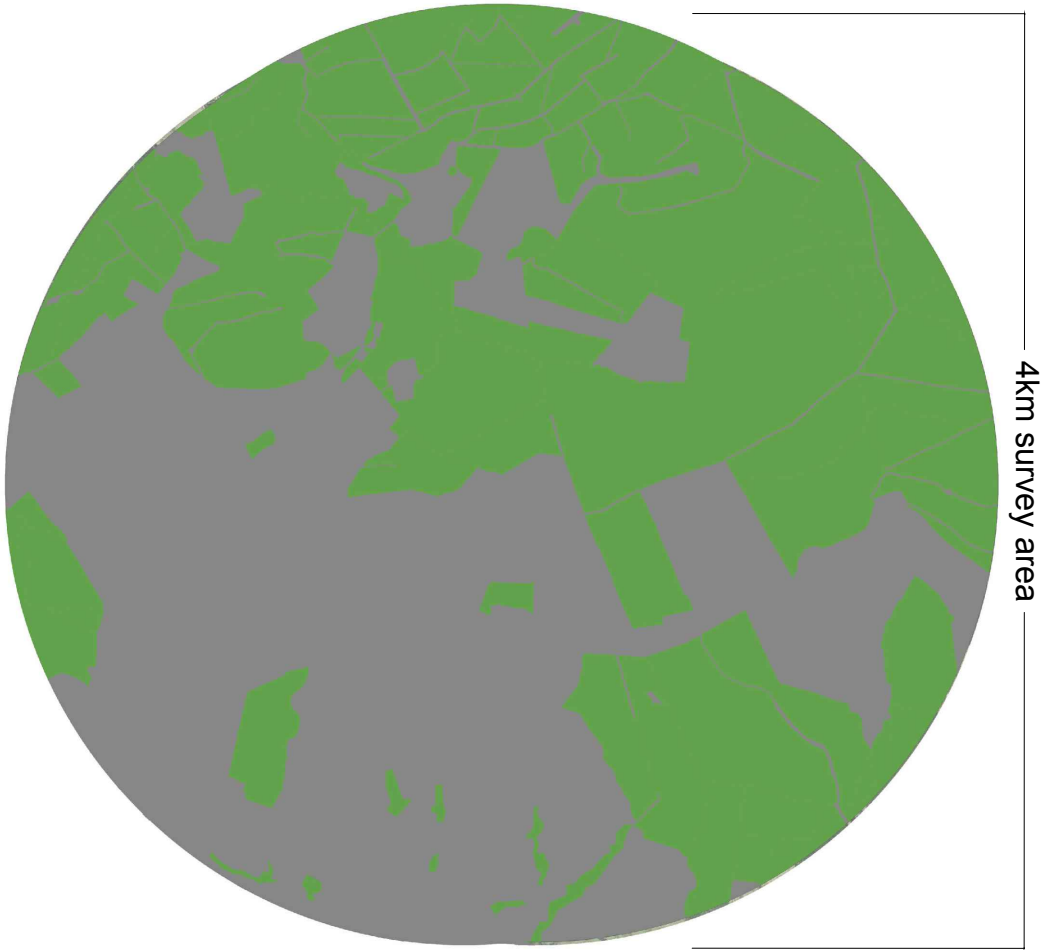
Project:

UWF Grid Connection (2019)

| | | | |
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| Drawn by: | Checked by: | Date: | Sheet Size: |
| AB | PK | October 19 | A3 |

Nest G: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability
Suitable Habitat
Not Suitable Habitat



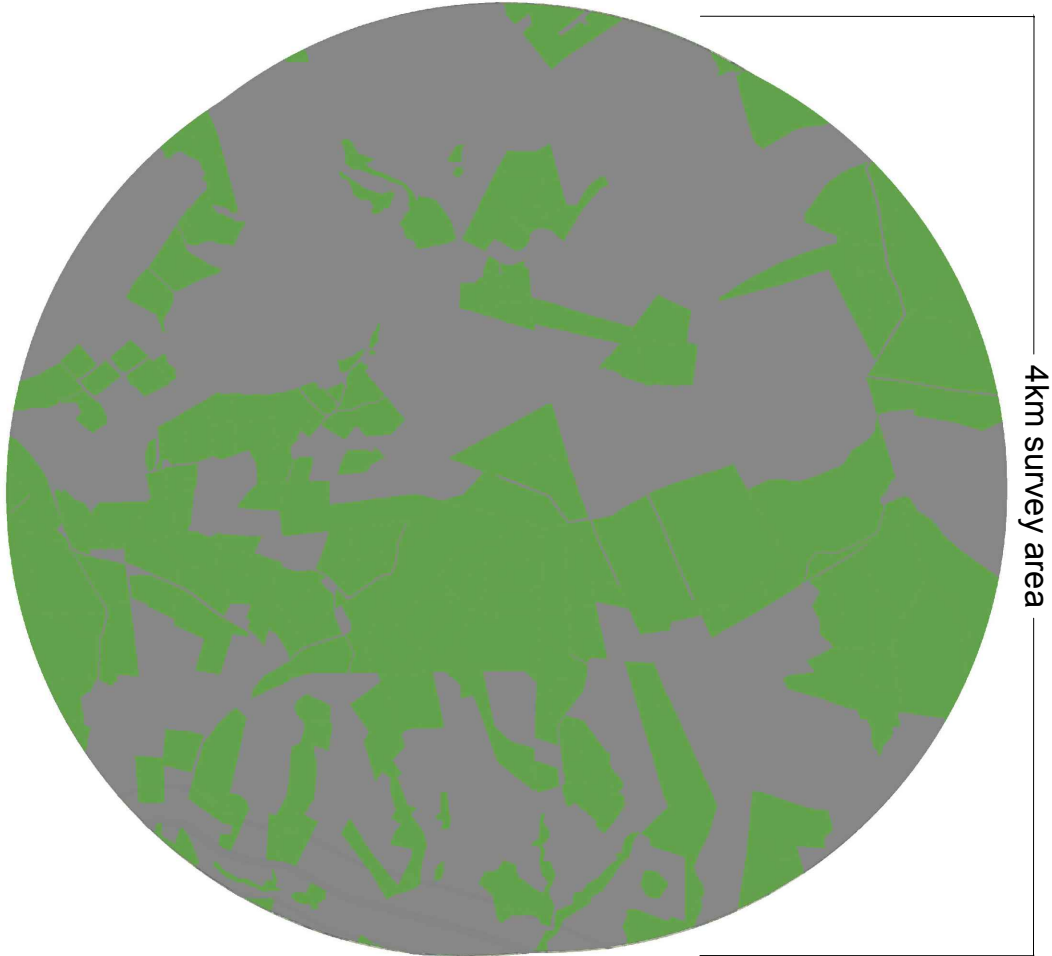
AA Figure 10
Habitat Suitability within the
Core Foraging Range of
Hen Harrier Nests

Nest G

Nest Site G
Distance 110kV UGC: 1.8km
Last active: 2019

Nest G: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability
Suitable Habitat
Not Suitable Habitat



Project:
UWF Grid Connection (2019)

| | | | |
|-----------|-------------|------------|-------------|
| Drawn by: | Checked by: | Date: | Sheet Size: |
| AB | PK | October 19 | A3 |



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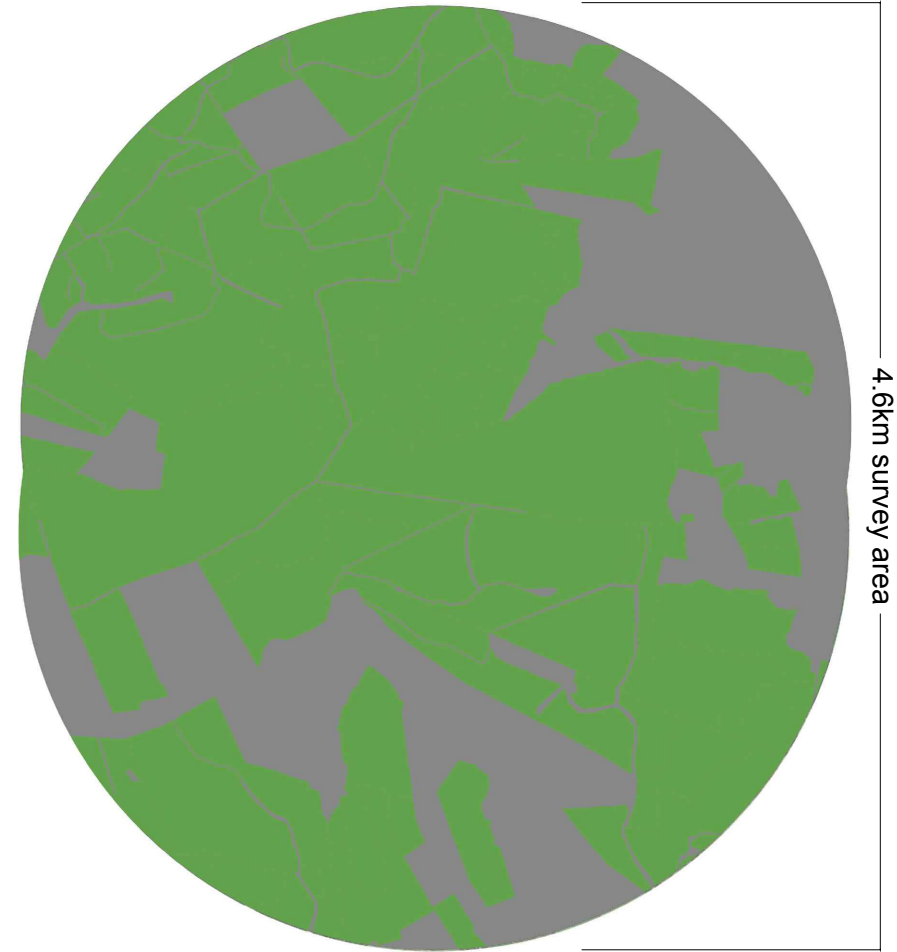
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Nest H: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability

Suitable Habitat

Not Suitable Habitat



AA Figure 10

Habitat Suitability within the Core Foraging Range of Hen Harrier Nests

Nest H

Nest Site H

Distance 110kV UGC: 2.6km

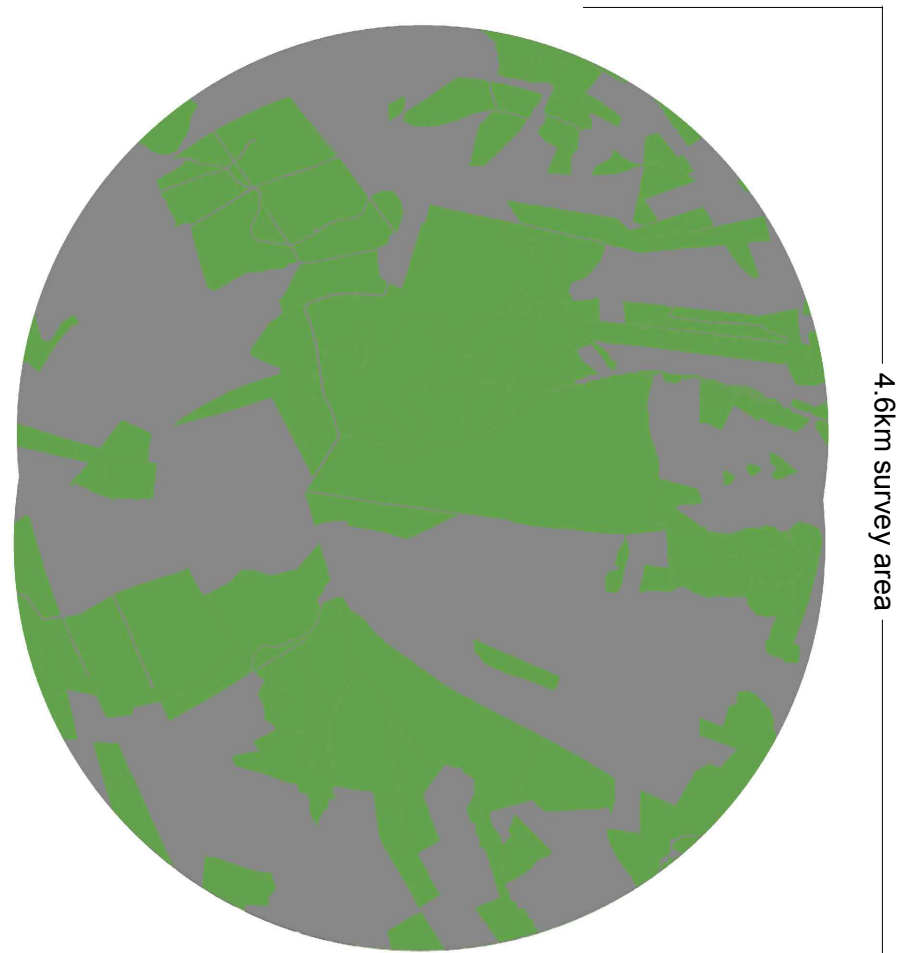
Last active: 2019

Nest H: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability

Suitable Habitat

Not Suitable Habitat



Project:

UWF Grid Connection (2019)

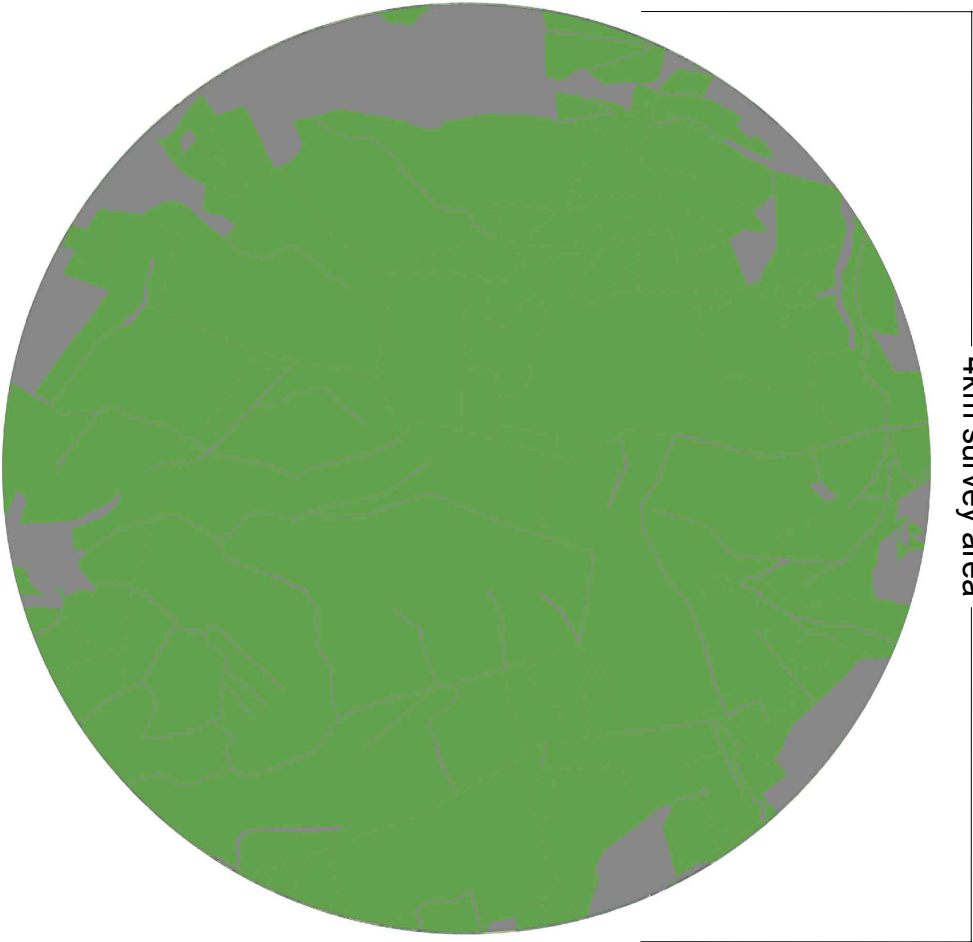
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| Drawn by: | Checked by: | Date: | Sheet Size: |
| AB | PK | October 19 | A3 |

Nest I: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability

Suitable Habitat

Not Suitable Habitat



AA Figure 10

Habitat Suitability within the
Core Foraging Range of
Hen Harrier Nests

Nest I

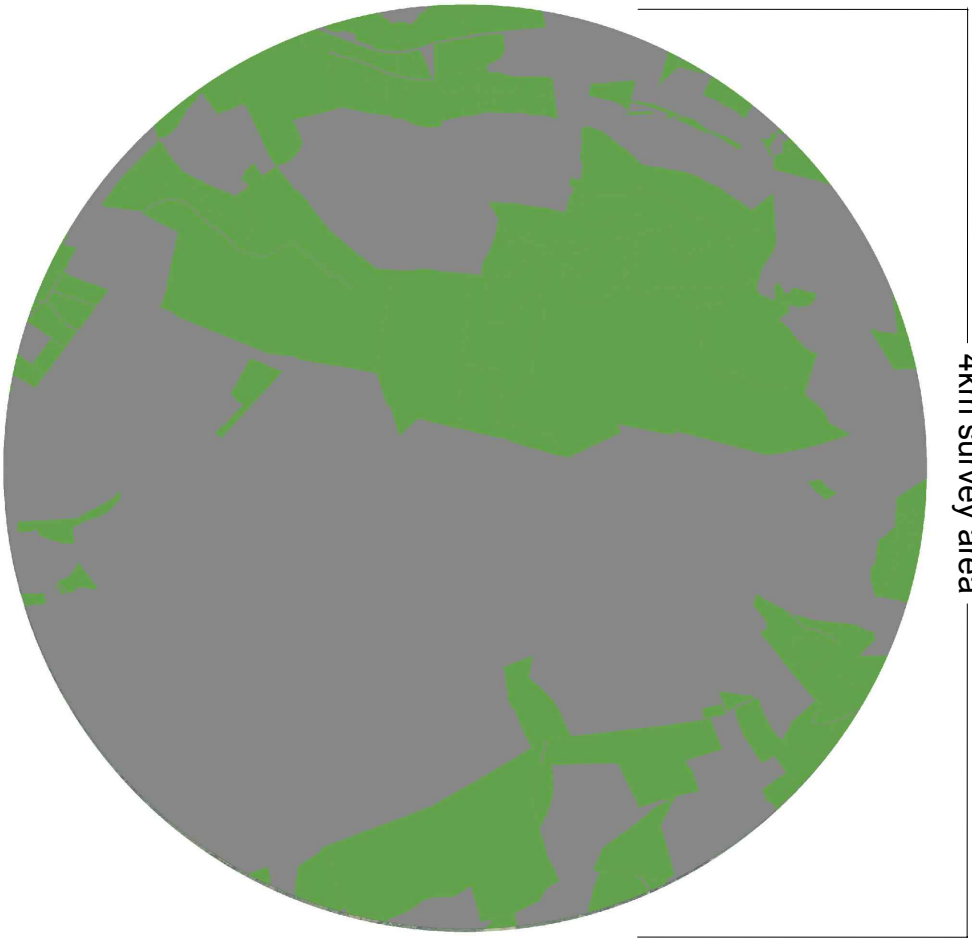
Nest Site I
Distance 110kV UGC: 2.4km
Last active: 2016

Nest I: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability

Suitable Habitat

Not Suitable Habitat



Project:

UWF Grid Connection (2019)

| | | | |
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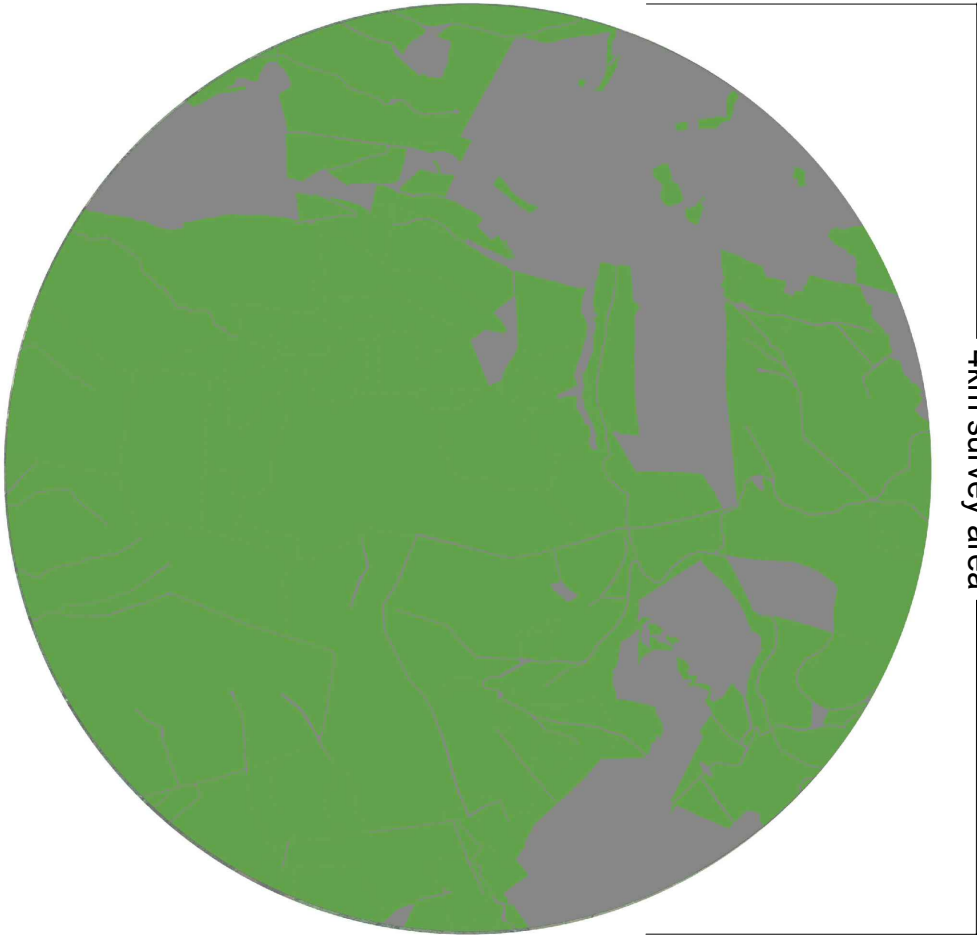
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Nest J: Breeding Habitat Suitability within the Core Foraging Range

Breeding Habitat Suitability

Suitable Habitat

Not Suitable Habitat



AA Figure 10

Habitat Suitability within the Core Foraging Range of Hen Harrier Nests

Nest J

Nest Site J

Distance 110kV UGC: 2.6km

Last active: 2017

Nest J: Foraging Habitat Suitability within the Core Foraging Range

Foraging Habitat Suitability

Suitable Habitat

Not Suitable Habitat



Project:

UWF Grid Connection (2019)

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Hen Harrier Breeding Habitat Suitability within 2km of UWF Grid Connection

Breeding Habitat Suitability
■ Suitable Habitat
■ Not Suitable Habitat

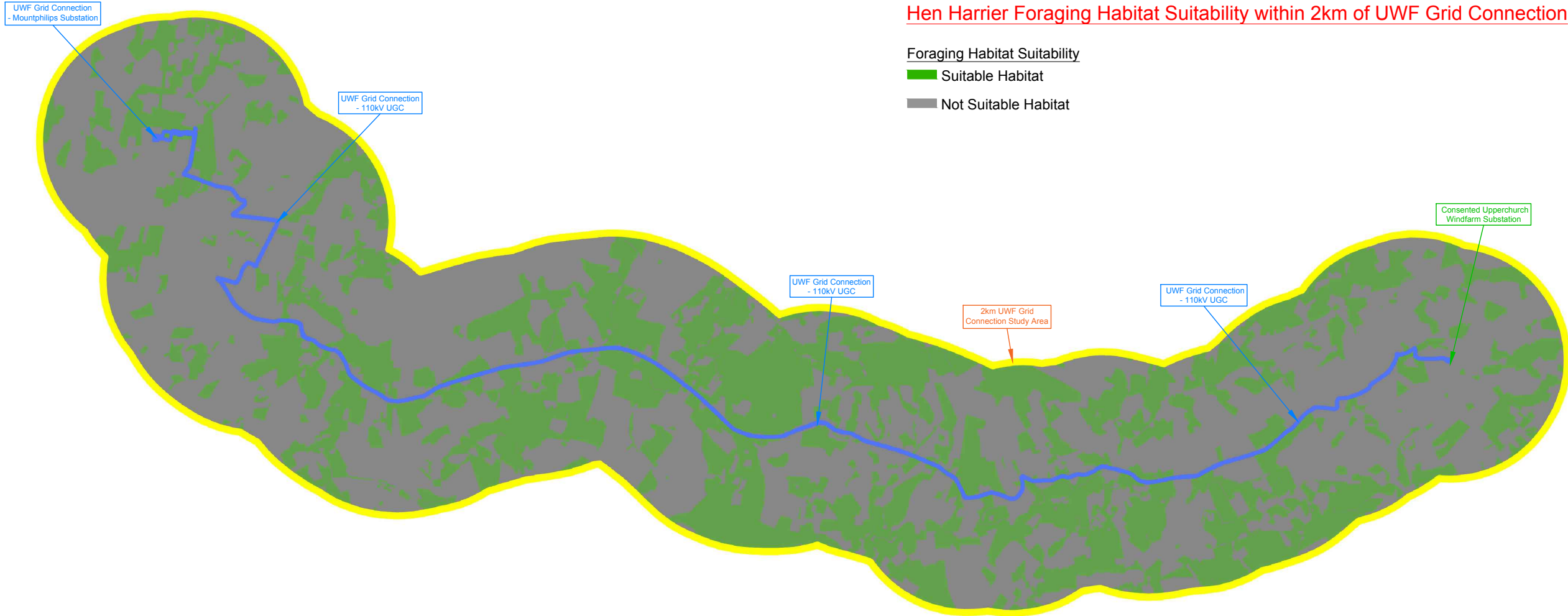
AA Figure 11
Hen Harrier Habitat Suitability
within 2km of UWF Grid Connection

Map Number:
Map 1 of 1

Legend:
Subject Development:
■ UWF Grid Connection
Construction Works Area

Study Area Extents :
■ 2kmm Study Area
- UWF Grid Connection
Construction Works Area

Survey Results:
■ Suitable Habitat
■ Not Suitable Habitat



Hen Harrier Foraging Habitat Suitability within 2km of UWF Grid Connection

Foraging Habitat Suitability
■ Suitable Habitat
■ Not Suitable Habitat



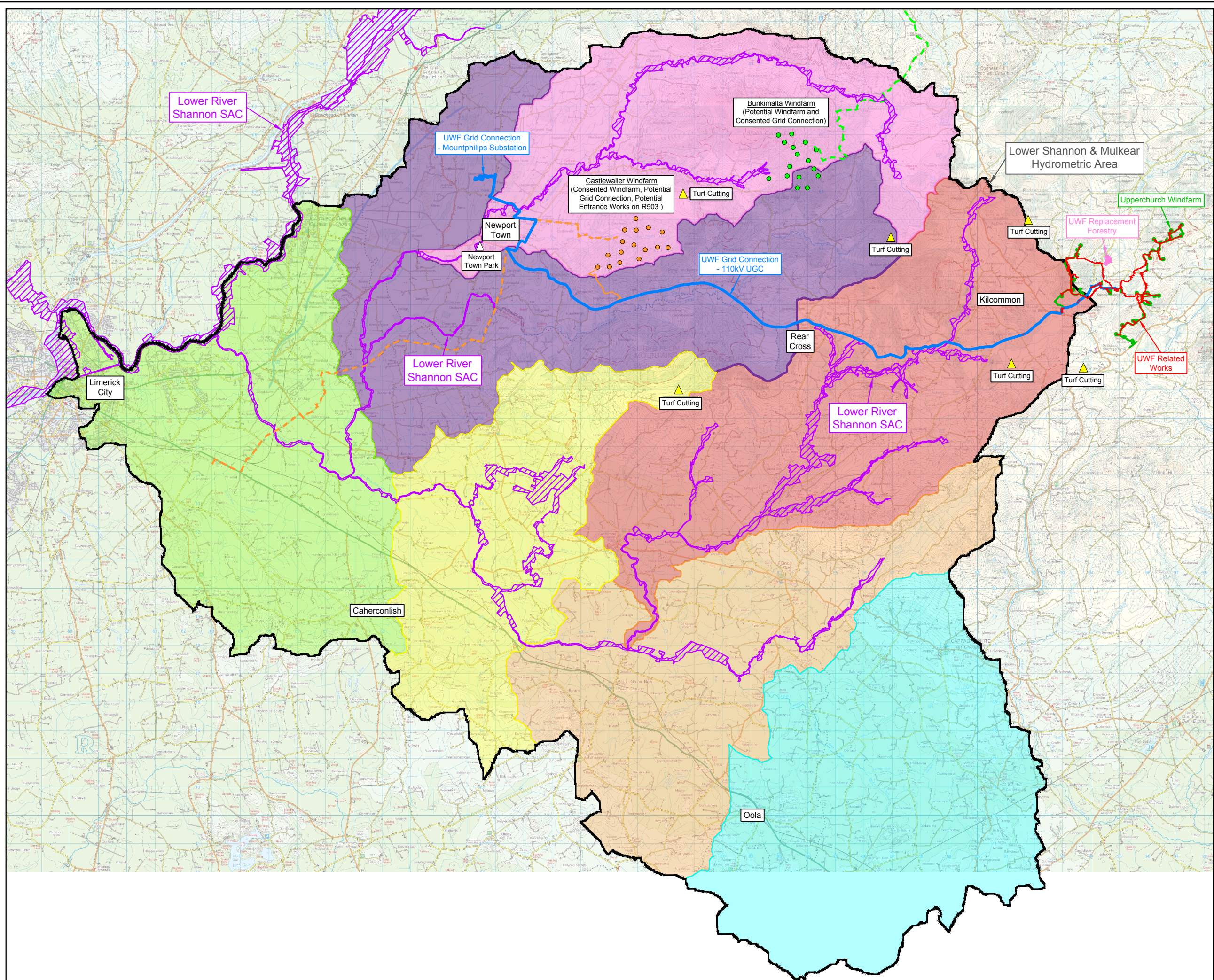
Project:
UWF Grid Connection (2019)

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AA Figure 12

Location of UWF Grid Connection and other projects in relation to Lower River Shannon SAC

Map Number:

Map 1 of 1

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

▲ Turf Cutting

Forestry and Agriculture Activity

Please see terrestrial habitats, figures 8.5, on aerial photography for reference purposes with respect to the extent of Forestry and Agricultural lands.

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)

Drawn by:

AB

Checked by:

PK

Date:

October
19

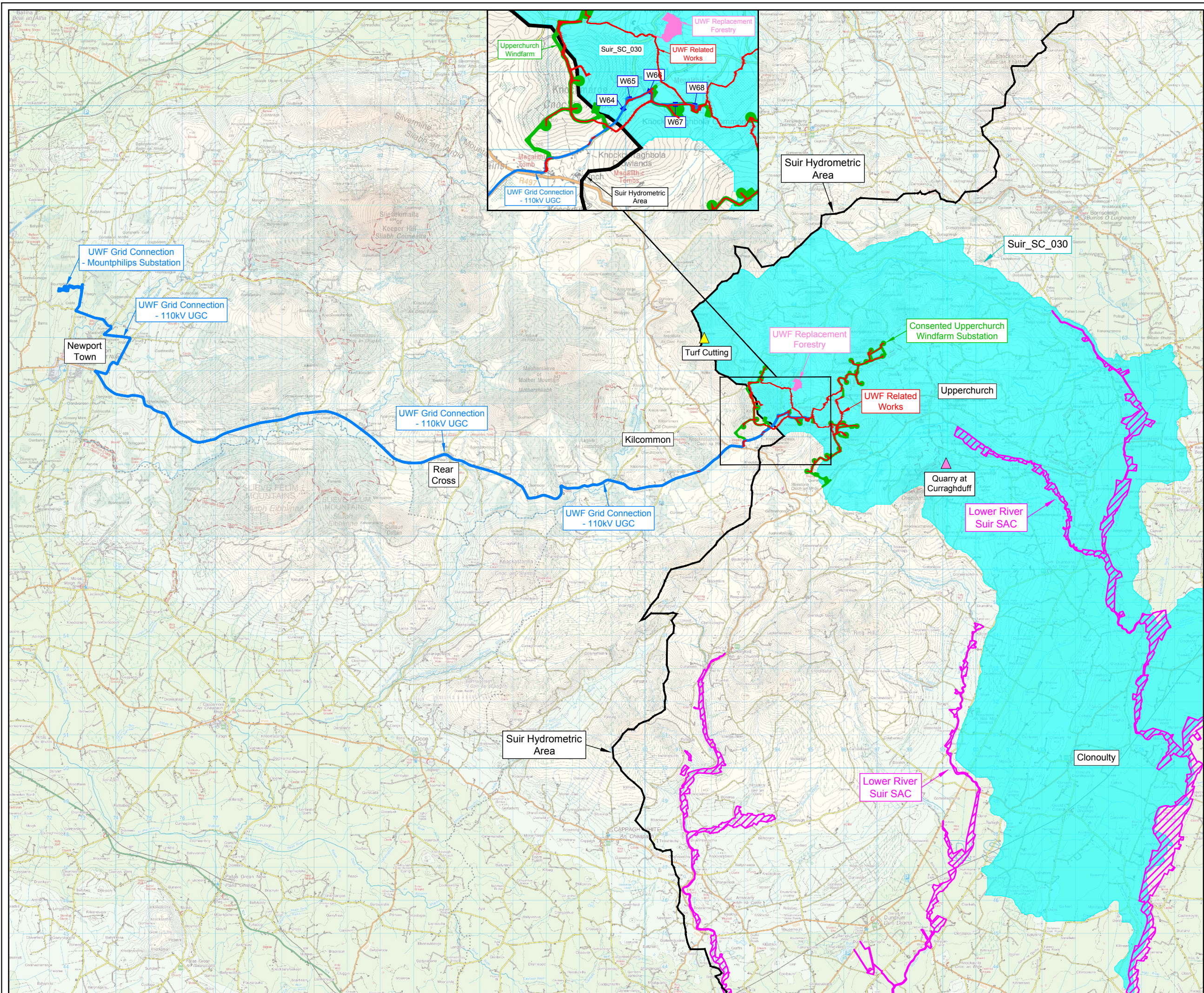
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AA Figure 13
Location of UWF Grid Connection and other projects in relation to River Suir SAC

Map Number:
Map 1 of 1

Legend:

Study Area Extents :

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

Turf Cutting

Curraghduff Quarry

Forestry and Agriculture Activity
Please see terrestrial habitats, figures 8.5, on aerial photography for reference purposes with respect to the extent of Forestry and Agricultural lands.

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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AA Figure 14
Location of UWF Grid Connection
and other projects in relation to
Clare Glen SAC

Map Number:
Map 1 of 1

Legend:

Study Area Extents:

- UWF Grid Connection
- Construction Works Area

EPA Local Surface Water Bodies:

- Annagh (Tipperary)_030
- Annagh (Tipperary)_020
- Annagh (Tipperary)_010

Cumulative Evaluation Projects :

- Castlewaller Windfarm
- Consented Windfarm
- Potential Grid Connection
- Potential Entrance Works on R503
- Bunkimalta Windfarm
- Potential Windfarm
- Consented Grid Connection
- Turf Cutting

Forestry and Agriculture Activity
Please see terrestrial habitats, figures 8.5, on aerial
photography for reference purposes with respect to
the extent of Forestry and Agricultural lands.

Survey Results:

- Clare Glen SAC

Map Information:

- Watercourse
- Potential Culvert Replacement
- Watercourse Crossing Locations



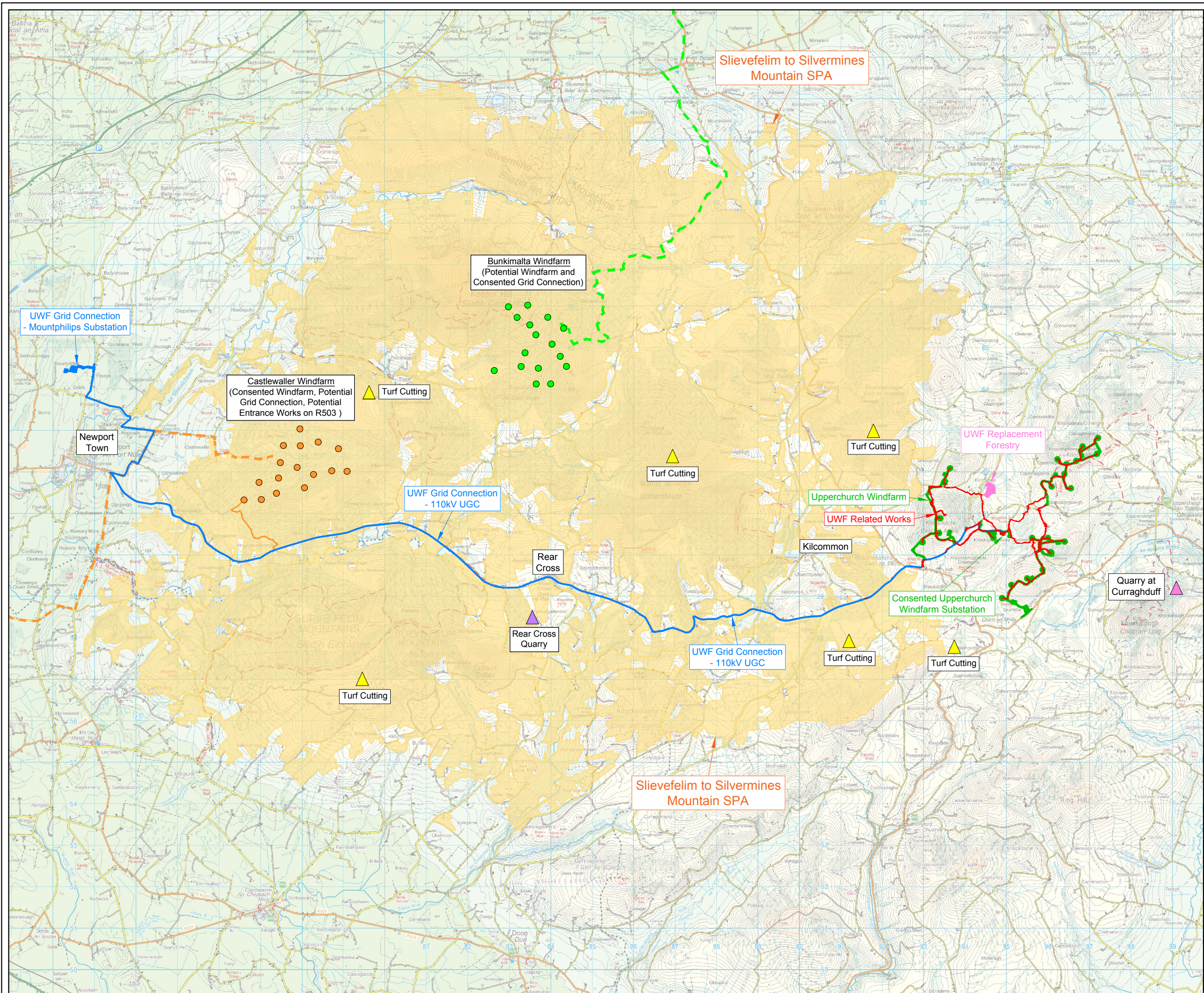
Project:
UWF Grid Connection (2019)

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AA Figure 15
Location of UWF Grid Connection and other projects in relation to Slievefelim to Silvermines Mountain SPA

Map Number:
Map 1 of 1

Legend:

Study Area Extents:

UWF Grid Connection
Construction Works Area

Cumulative Evaluation Projects :

UWF Related Works
Construction Works Area

Upprchurch Windfarm
Construction Works Area

UWF Replacement Forestry
Construction Works Area

Turf Cutting

Curraghduff Quarry

Rear Cross Quarry

Castlewaller Windfarm

Consented Windfarm

Potential Grid Connection

Potential Entrance Works on R503

Bunkimalta Windfarm

Potential Windfarm

Consented Grid Connection

Forestry and Agriculture Activity

Please see terrestrial habitats, figures 8.5, on aerial photography for reference purposes with respect to the extent of Forestry and Agricultural lands.

Survey Results:

Slievefelim to Silvermines
Mountains SPA



Project:
UWF Grid Connection (2019)

| | | | |
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