



Foel Fach Wind Farm Limited.

Foel Fach Wind Farm – Environmental Statement Volume IV

Chapter 7 Land, Soils and Water Figures

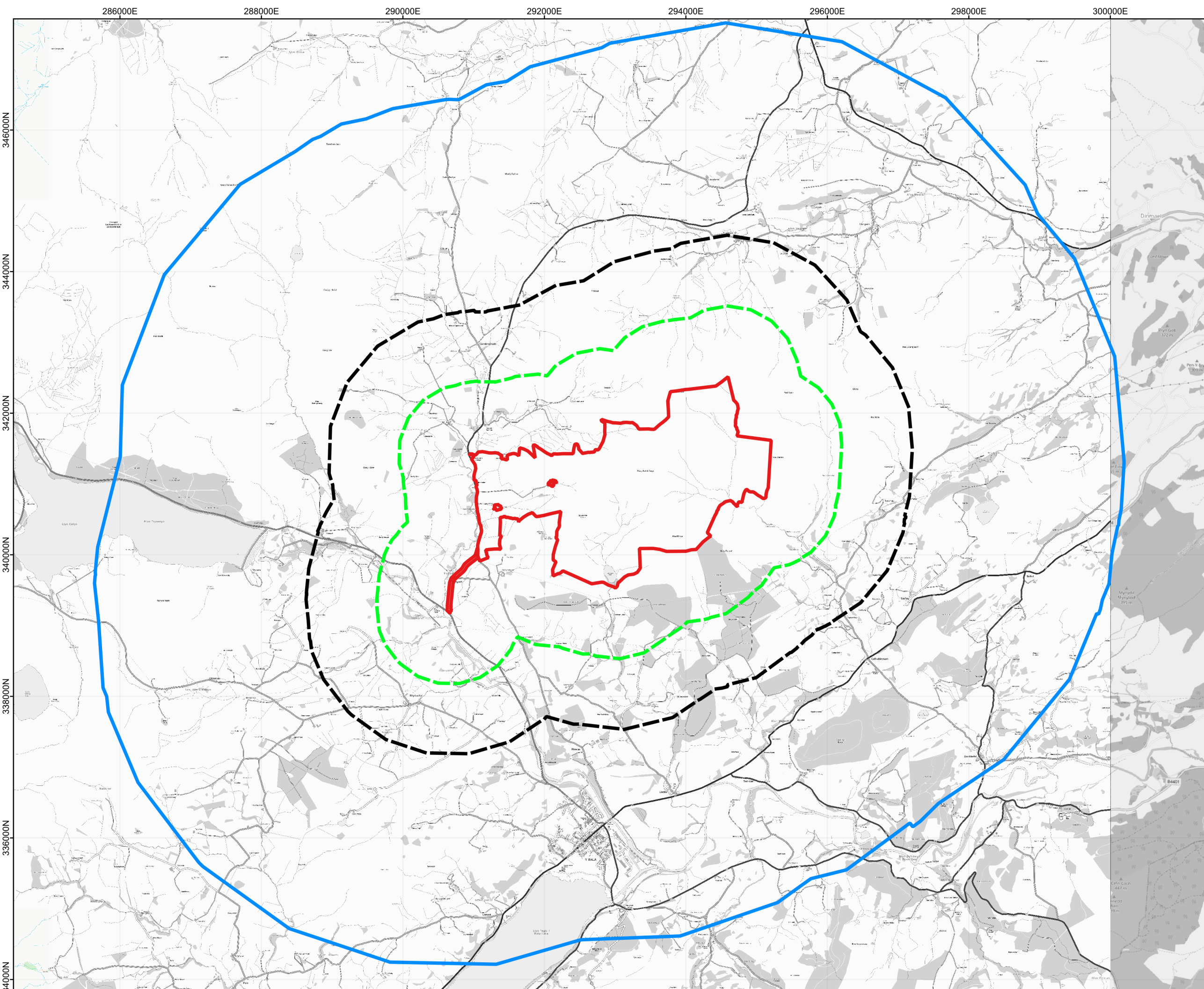
Project Reference: 664094

DECEMBER 2025



Energy for
generations

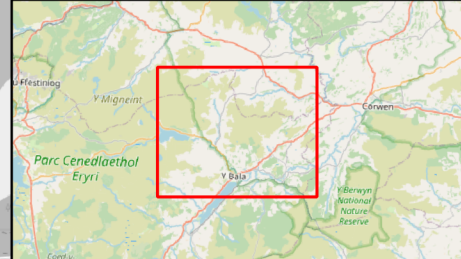




LEGEND:

- Site Boundary
- Geological Study Area - 1 km
- Site Buffer
- Study Area - 2 km Site Buffer
- Study Area - 5 km Site Buffer

CRS: EPSG:27700
Projection: Transverse Mercator
Ellipsoid: EPSG:7001
Units: meters



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1.1	05/11/2025	Second Draft	CP	GE	CI
00	24/06/2025	First Draft	CP	EA	CI

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TITLE:
Figure 7.1
Study Areas

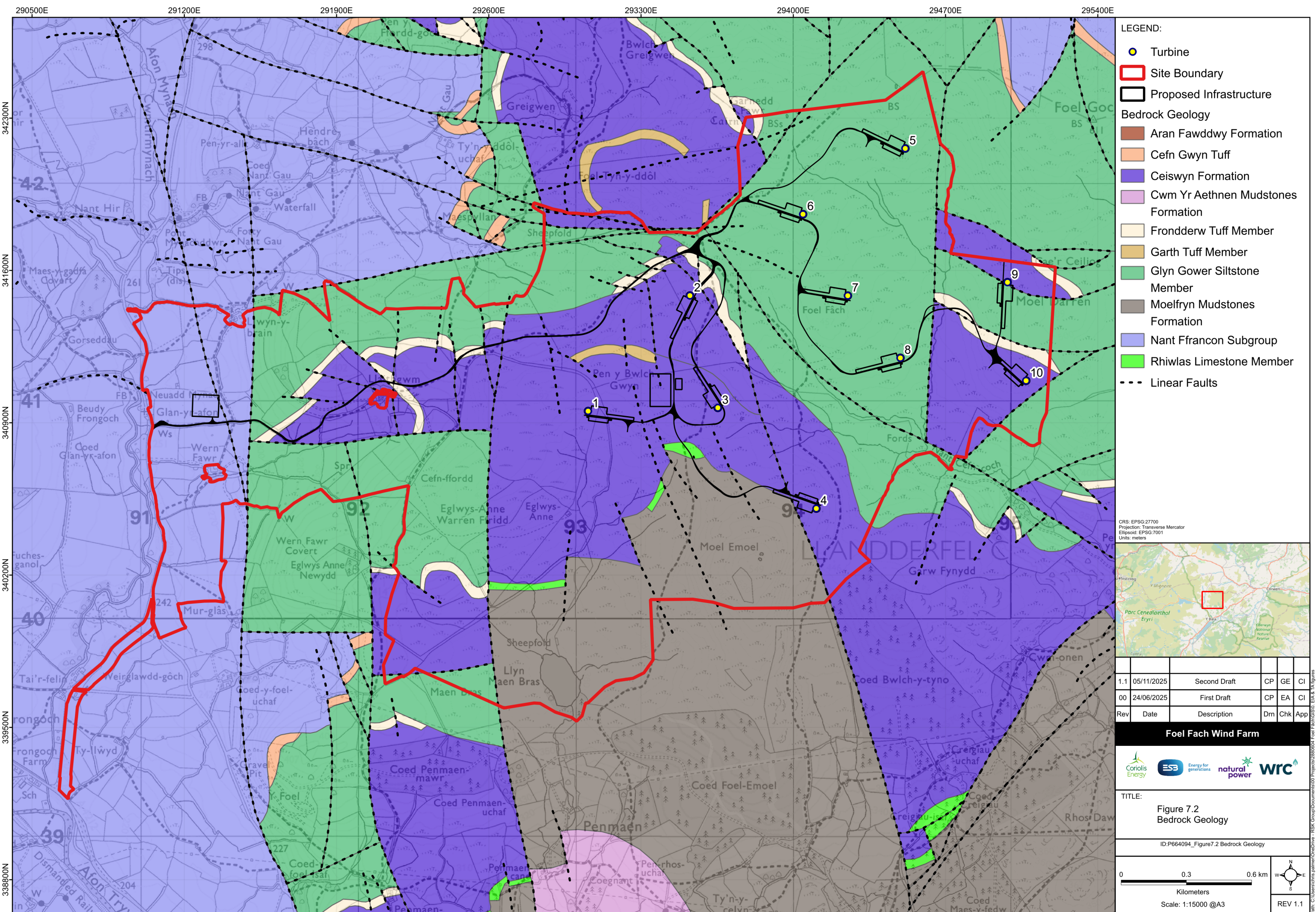
ID:P664094_Figure7.1 Study Areas

0 1 2 km

Kilometers

Scale: 1:50000 @A3

REV 1.1



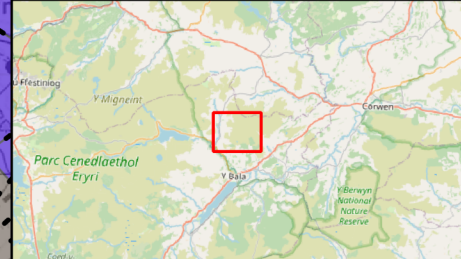
LEGEND:

- Turbine
- Site Boundary
- Proposed Infrastructure

Bedrock Geology

- Aran Fawddwy Formation
- Cefn Gwyn Tuff
- Ceiswyn Formation
- Cwm Yr Aethnen Mudstones Formation
- Frondderw Tuff Member
- Garth Tuff Member
- Glyn Gower Siltstone Member
- Moelfryn Mudstones Formation
- Nant Ffrancon Subgroup
- Rhiwlas Limestone Member
- Linear Faults

CRS: EPSG:27700
Projection: Transverse Mercator
Ellipsoid: EPSG:7001
Units: meters



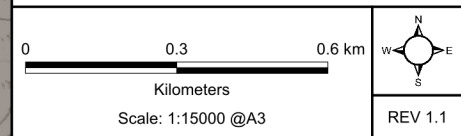
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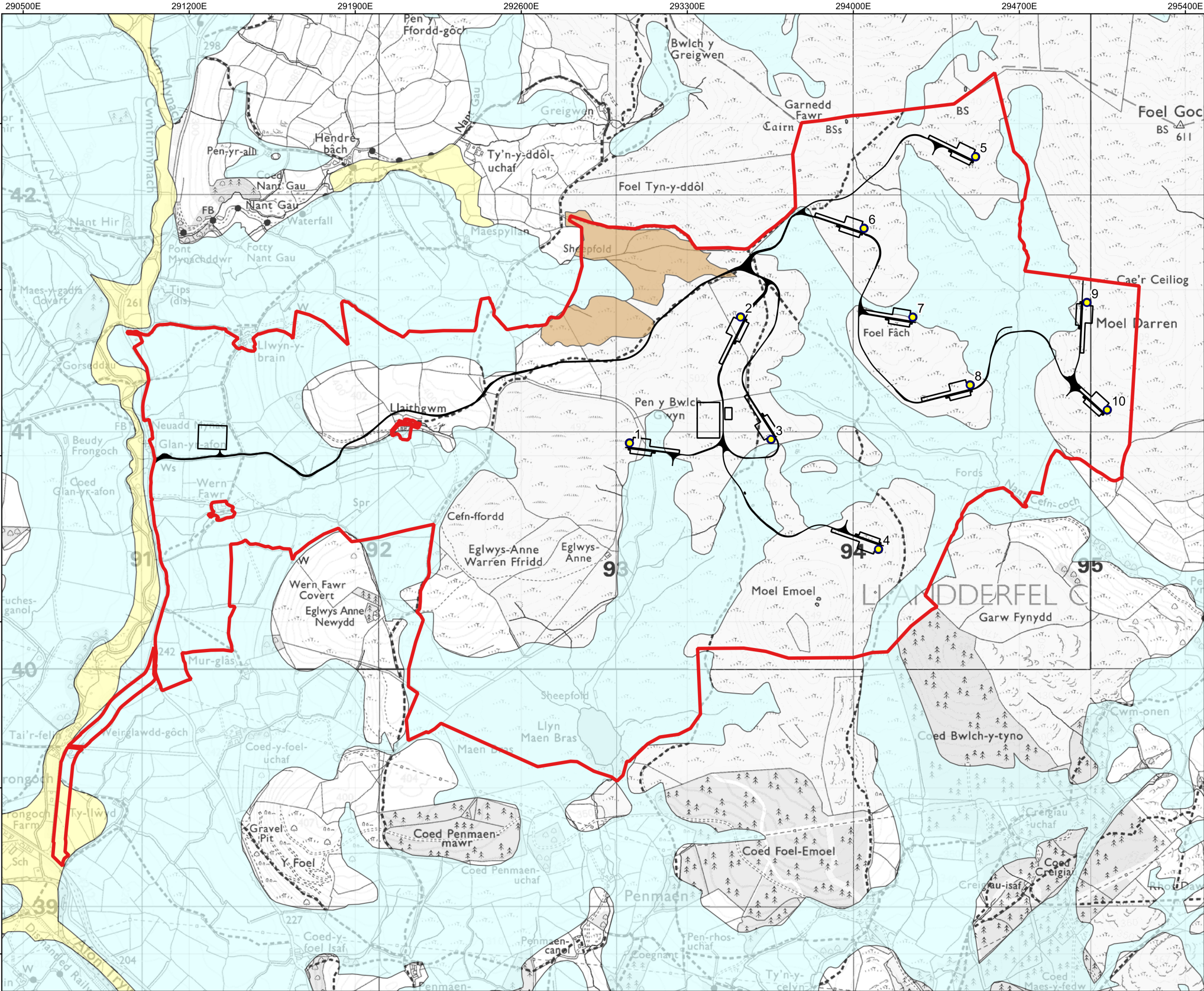
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TITLE:
Figure 7.2
Bedrock Geology

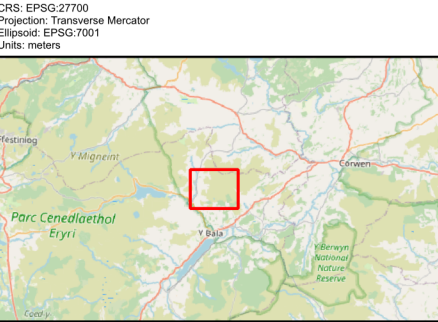
ID:P664094_Figure 7.2 Bedrock Geology





LEGEND:

- Turbine
- Site Boundary
- Proposed Infrastructure
- Superficial Geology
 - Alluvium
 - Peat
 - Devensian Till



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TITLE: Figure 7.3 Superficial Geology

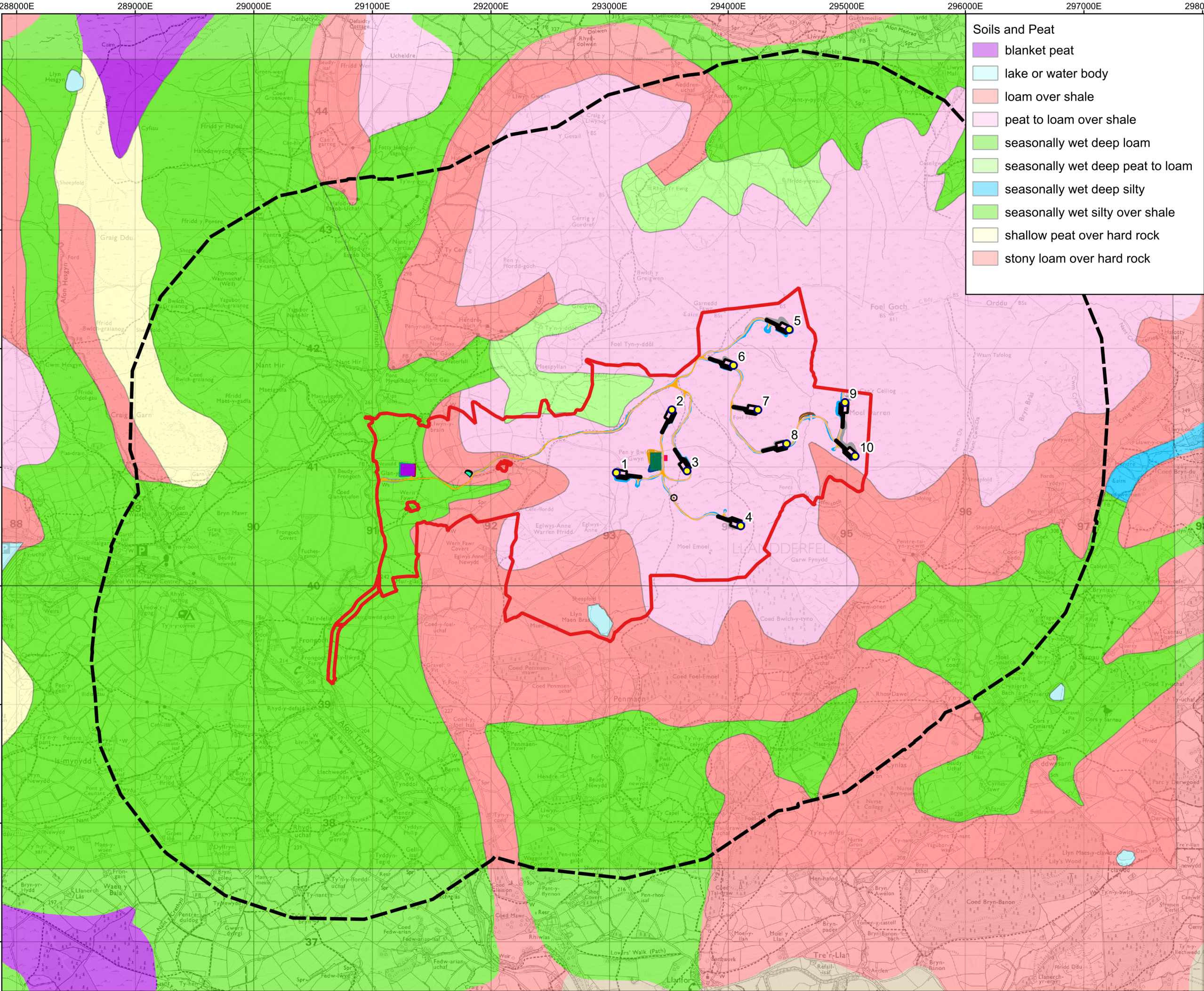
ID:P664094_Figure7.3 Superficial Geology

00.30.6

Kilometers

Scale: 1:15000 @A3

REV 1.1



Soils and Peat

- blanket peat
- lake or water body
- loam over shale
- peat to loam over shale
- seasonally wet deep loam
- seasonally wet deep peat to loam
- seasonally wet deep silty
- seasonally wet silty over shale
- shallow peat over hard rock
- stony loam over hard rock

LEGEND:

- Turbine
- Site Boundary
- Study Area - 2 km Site Buffer
- Hardstands
- Tracks
- Verges
- Substation
- Batching Compound
- Construction Compound
- Bridge Temporary Working Area
- Batching Earthworks Cut
- Batching Earthworks Fill
- LiDAR Compound
- Borrow Pit
- Cut
- Compound Earthworks Cut
- Compound Earthworks Fill
- LiDAR Earthworks Cut
- Substation Earthworks Cut
- Substation Earthworks Fill

CRS: EPSG:27700
Projection: Transverse Mercator
Ellipsoid: EPSG:7001
Units: meters



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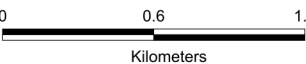
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TITLE:

Figure 7.4
Soils and Peat

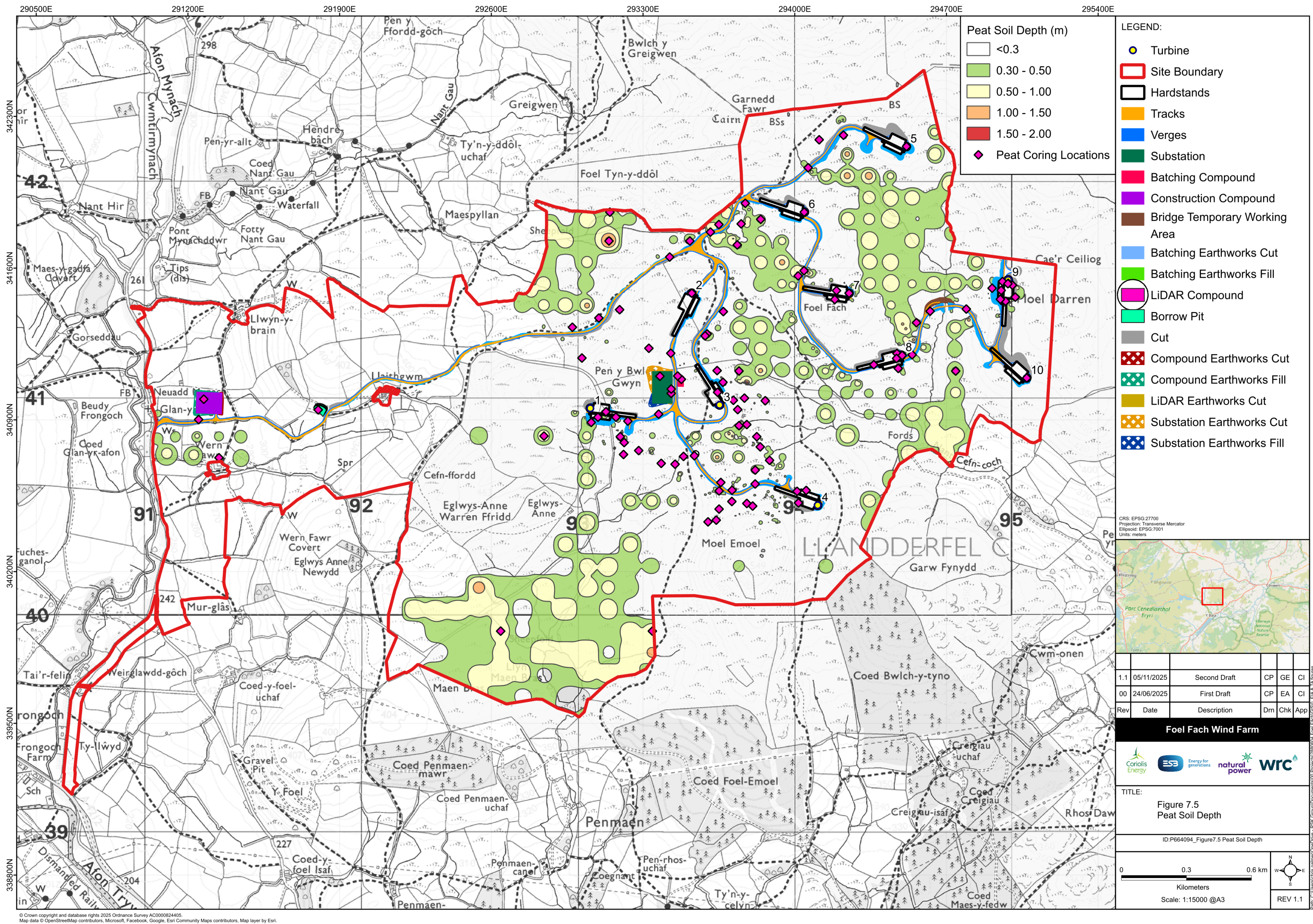
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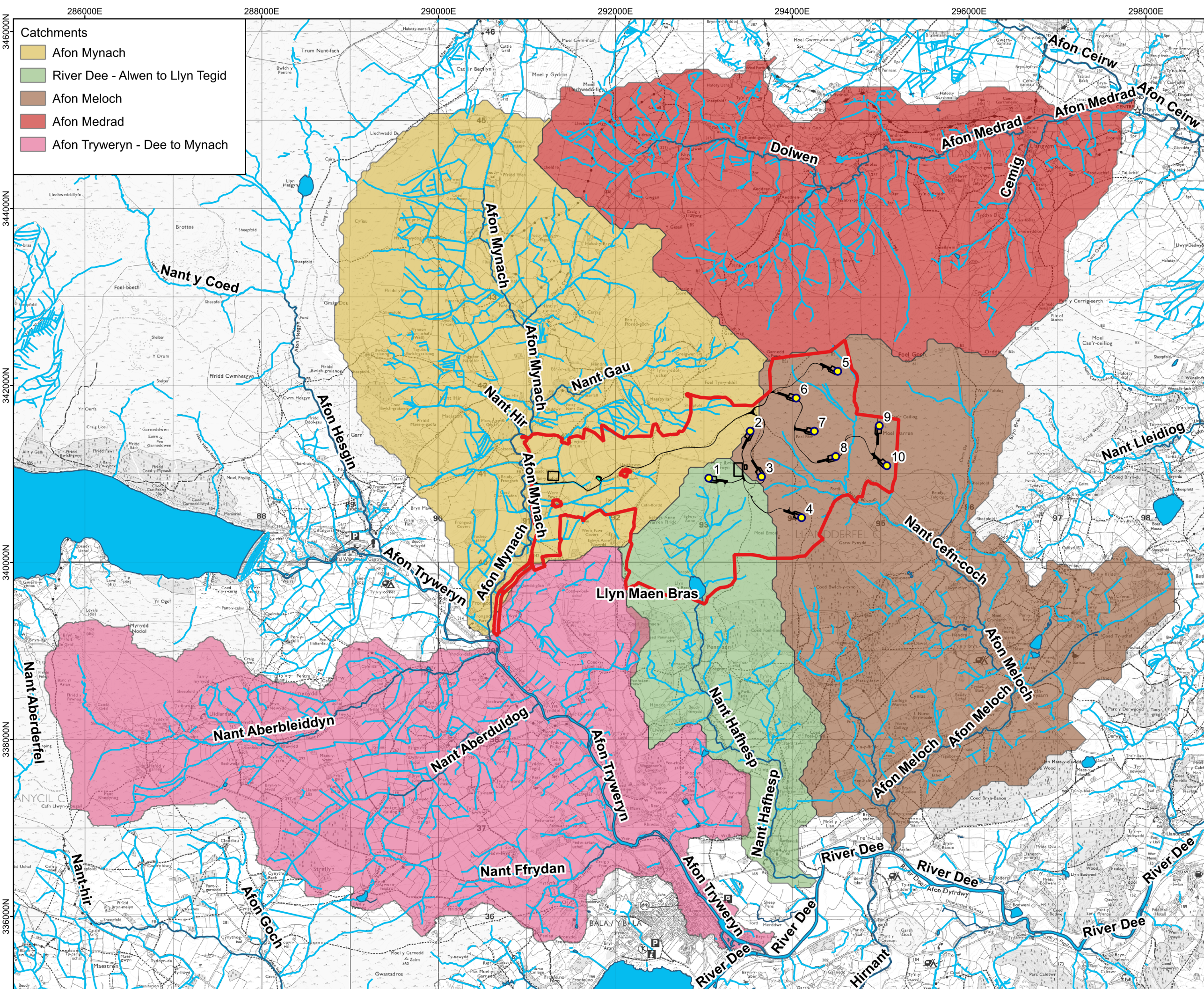


Scale: 1:30000 @A3



REV 1.1





Catchments

- Afon Mynach
- River Dee - Alwen to Llyn Tegid
- Afon Meloch
- Afon Medrad
- Afon Tryweryn - Dee to Mynach

LEGEND:

- Turbine
- Site Boundary
- Proposed Infrastructure
- Borrow Pit
- Watercourses
- Waterbodies



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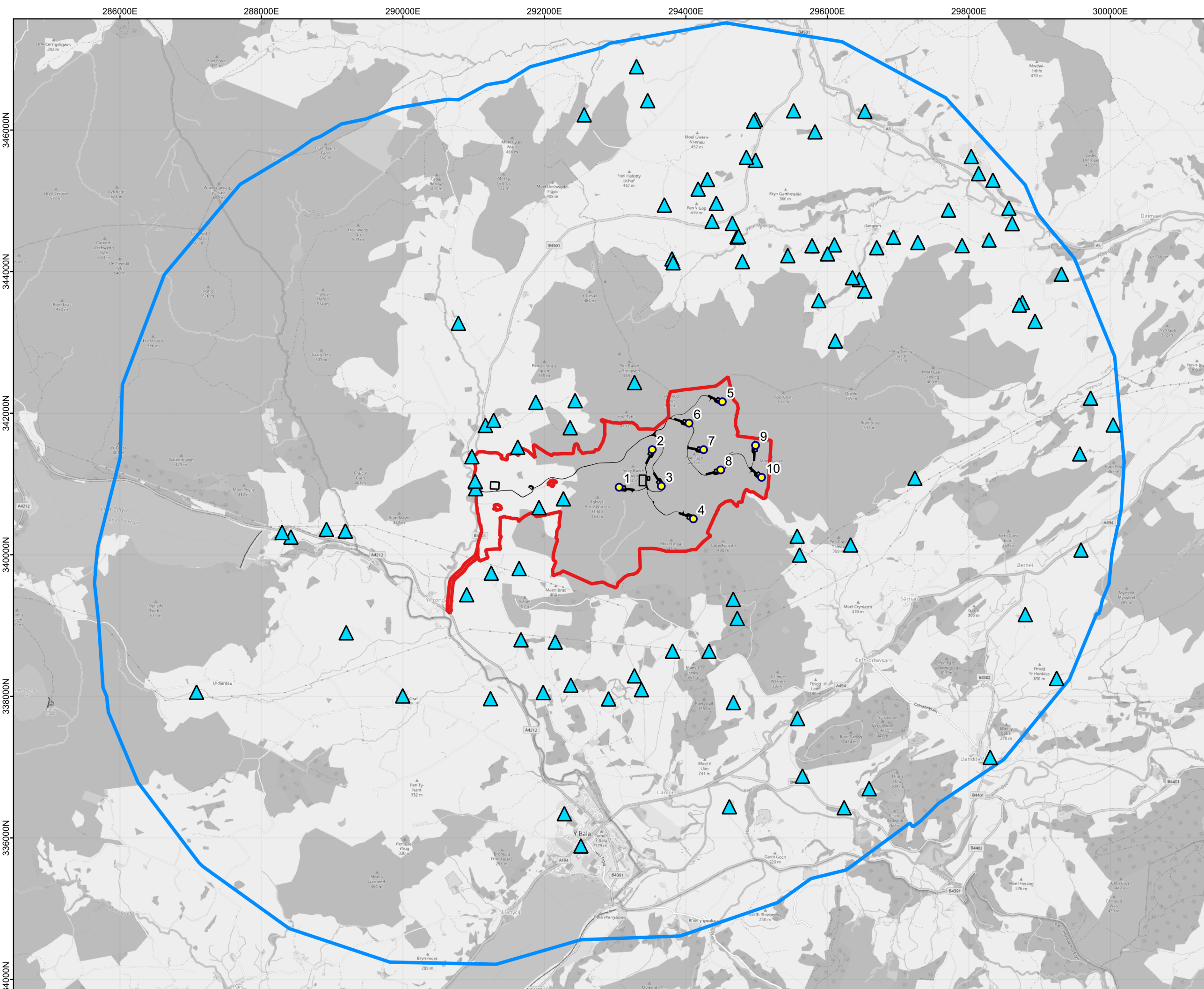
Coriolis Energy ESB Energy for generations natural power WRC

TITLE: Figure 7.6 Hydrological Catchments and Watercourses

ID:P664094_Figure7.6 Hydrological Catchments and Watercourses

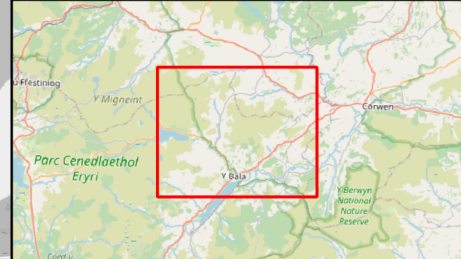
0 0.8 1.6 km
Kilometers
Scale: 1:40000 @A3

REV 1.1



- LEGEND:
- Turbine
 - Site Boundary
 - Study Area - 5 km Site Buffer
 - Proposed Infrastructure
 - Private Water Supplies

CRS: EPSG:27700
Projection: Transverse Mercator
Ellipsoid: EPSG:7001
Units: meters



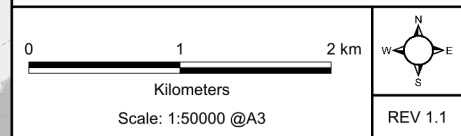
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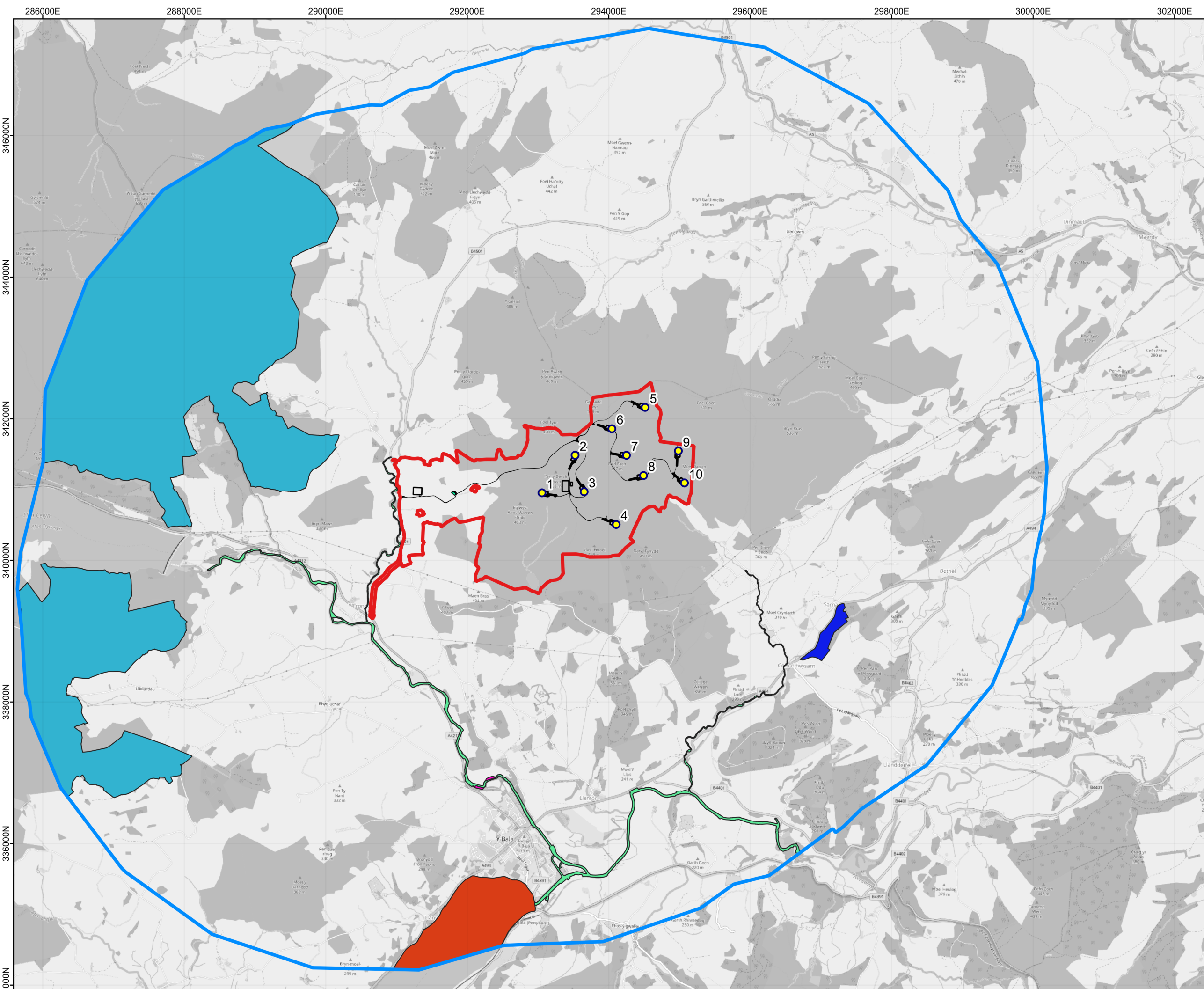
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TITLE:
Figure 7.7
Private Water Supplies

ID:P664094_Figure7.7 Private Water Supplies





LEGEND:

- Turbine
- Site Boundary
- 5 km Site Buffer
- Proposed Infrastructure
- Designated Sites
 - Afon Dyfrdwy (SAC, SSSI)
 - Cors y Sarnau (SSSI)
 - Llyn Tegid (SSSI, Ramsar, SAC)
 - Migneint-Arenig-Dduallt (SSSI, SAC)
 - Tryweryn River Sections (SSSI)

CRS: EPSG:27700
Projection: Transverse Mercator
Ellipsoid: EPSG:7001
Units: meters



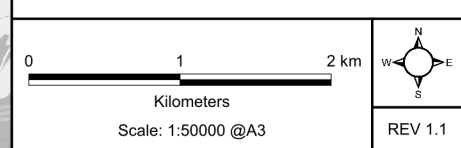
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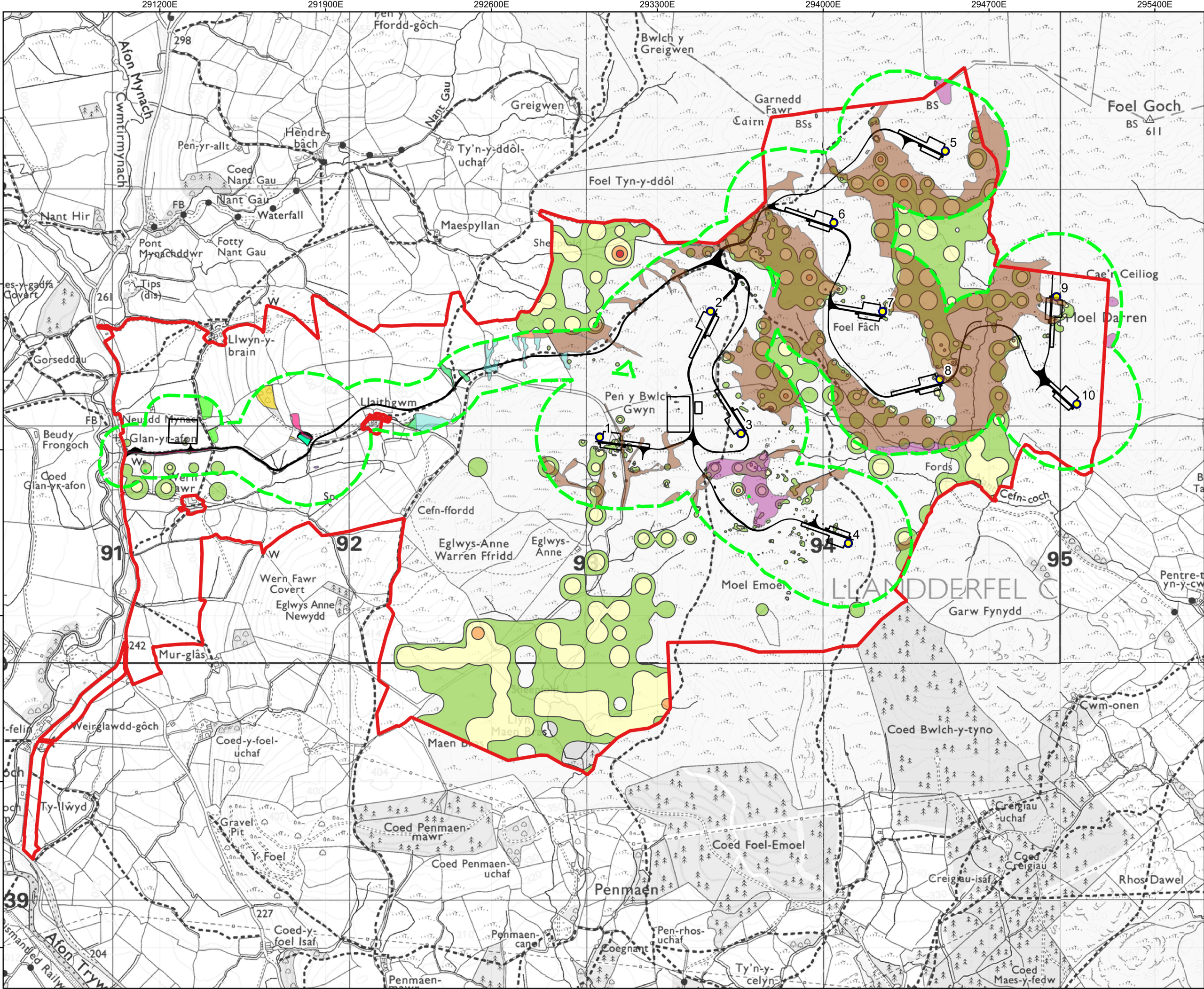
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TITLE:
Figure 7.8
Designated Sites

ID:P664094_Figure7.8 Designated Sites





LEGEND:

- Turbine
- Site Boundary
- 100 m Track Buffer
- 250 m Infrastructure Buffer
- Proposed Infrastructure
- Borrow Pit

Potential GWDTE

- M19
- M23
- M6

Habitats

- A1.1.1 - Broadleaved Woodland
- A2.1 - Dense/continuous Scrub
- A2.2 - Scattered Scrub
- B5 - Marshy Grassland

Peat Soil Depth (m)

- 0.30 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00



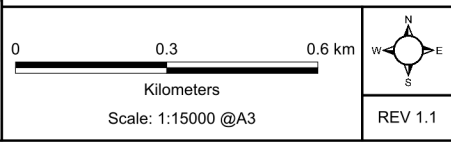
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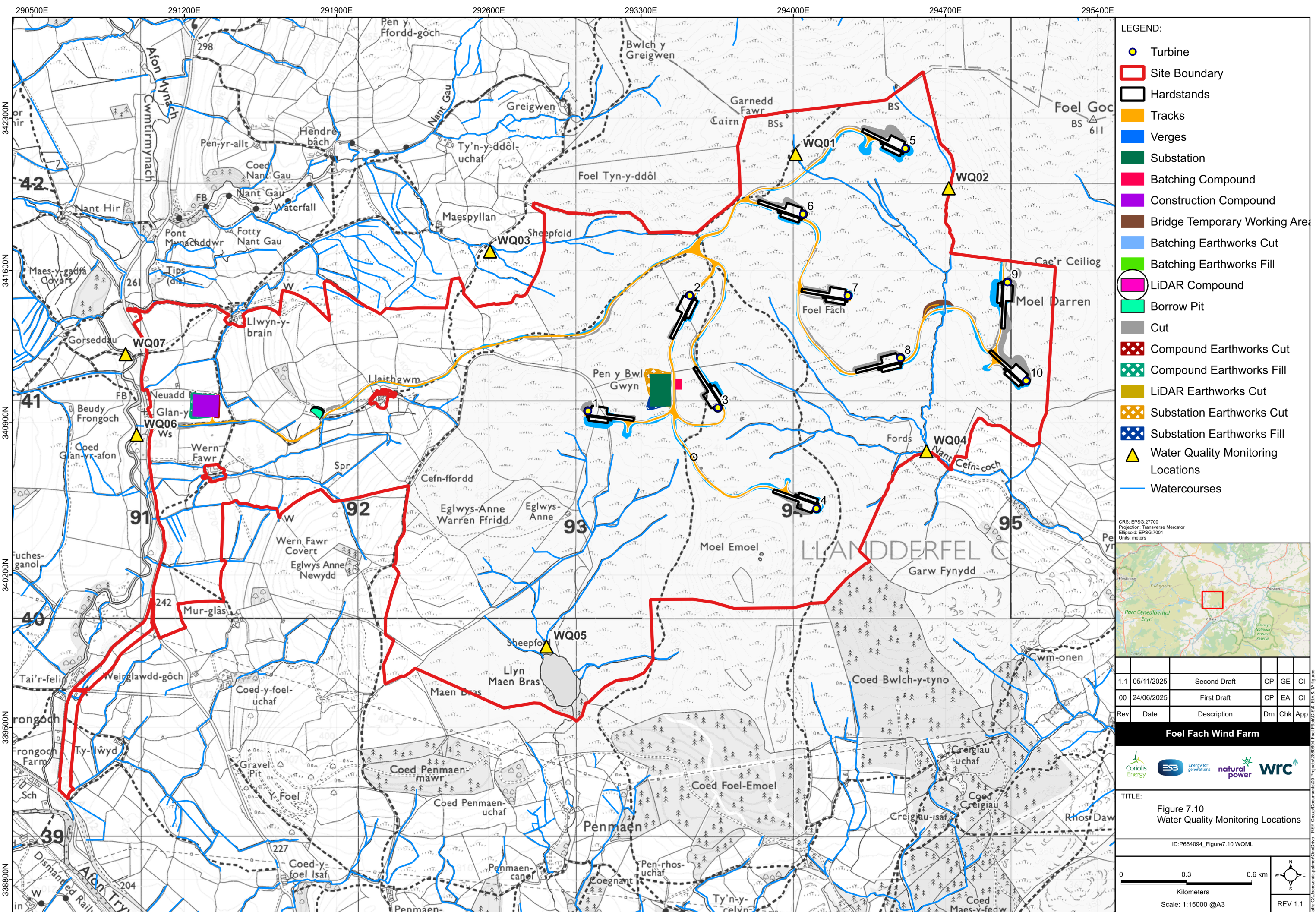
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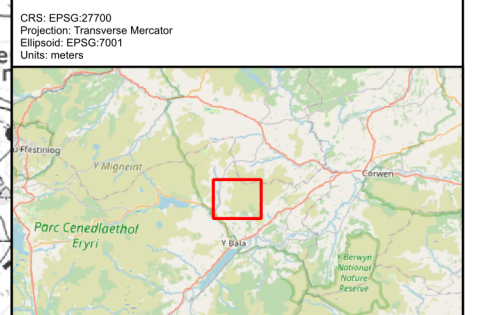
TITLE: Figure 7.9
Potential Groundwater-Dependent
Terrestrial Ecosystem Habitats and
Peat Soil Depth

ID:P664094_Figure7.9 NVC Habitats and Peat Soil Depth





- LEGEND:
- Turbine
 - Site Boundary
 - Hardstands
 - Tracks
 - Verges
 - Substation
 - Batching Compound
 - Construction Compound
 - Bridge Temporary Working Area
 - Batching Earthworks Cut
 - Batching Earthworks Fill
 - LiDAR Compound
 - Borrow Pit
 - Cut
 - Compound Earthworks Cut
 - Compound Earthworks Fill
 - LiDAR Earthworks Cut
 - Substation Earthworks Cut
 - Substation Earthworks Fill
 - Water Quality Monitoring Locations
 - Watercourses



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TITLE: Figure 7.10
Water Quality Monitoring Locations

