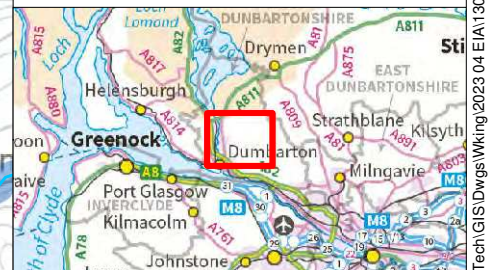


- Legend:**
- Application Boundary
  - Study Area
  - Proposed Turbine Location
  - Proposed Access Track
  - Proposed Crane Pad
  - Proposed Substation
  - Proposed Construction Compound
  - Proposed Borrow Pit
  - ★ Proposed LiDAR Unit Location
- Local Hydrology**
- Watercourse (OS OpenMap Local)
  - Waterbody (OS OpenMap Local)
  - Tidal Waterbody (OS OpenMap Local)
  - Watercourse & Waterbody 50 m Buffer
  - Site of Special Scientific Interest (SSSI)
  - Coastal Flooding (Medium Likelihood)
  - River Flooding (Medium Likelihood)
  - Surface Water Flooding (Medium Likelihood)
  - Watercourse Crossing
  - SEPA CAR Authorised Site

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



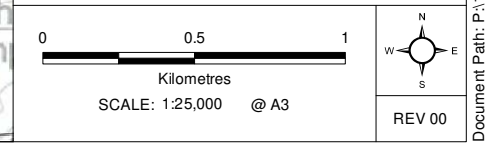
Rev	Date	Description	Drn	Chk	App
00	03/07/2023	First Draft	DL	RB	RB

**Vale of Leven Wind Farm**



TITLE: Figure 8.1:  
Local Hydrology

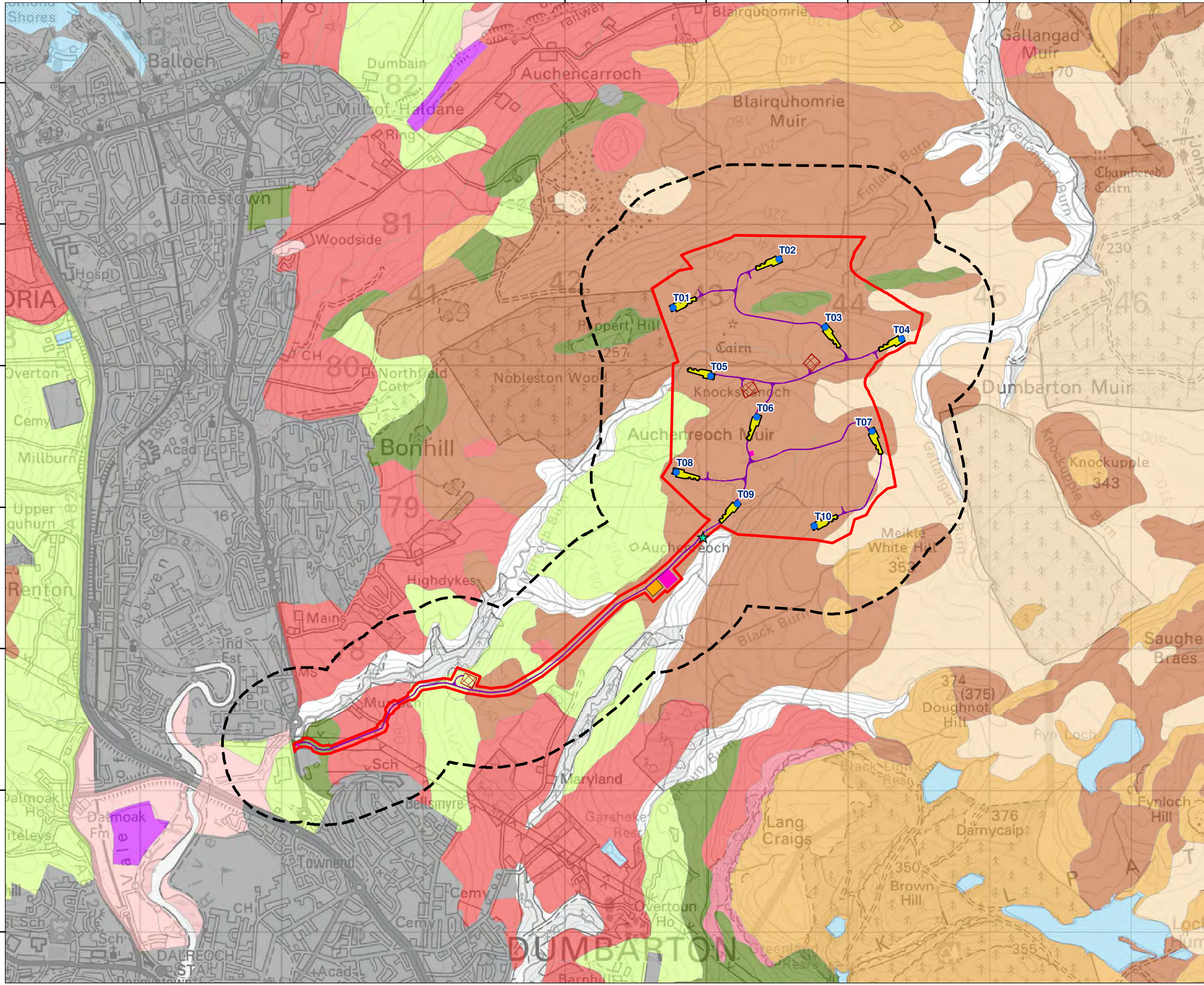
ID:P663510\_TAG000\_Layout\_A3\_L



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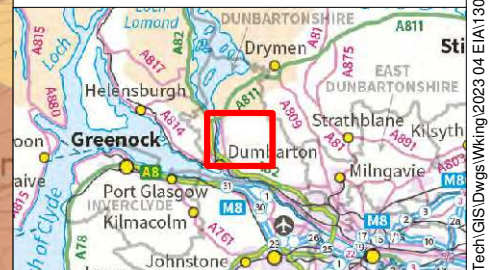
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- Legend:**
- Application Boundary
  - Study Area
  - Proposed Turbine Location
  - Proposed Access Track
  - Proposed Crane Pad
  - Proposed Substation
  - Proposed Construction Compound
  - Proposed Borrow Pit
  - ★ Proposed LiDAR Unit Location

- Soil Map of Scotland**
- Lochs
  - Alluvial Soils
  - Brown Soils
  - Immature Soils
  - Mineral Gleys
  - Mineral Podzols
  - Peat
  - Peaty Gleys
  - Peaty Podzols
  - Made Up Ground
  - Non-Soil
  - No Data

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



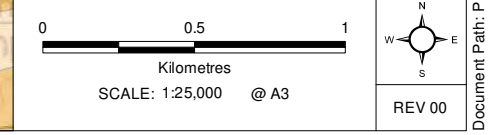
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00	03/07/2023	First Draft	DL	RB	RB

**Vale of Leven Wind Farm**



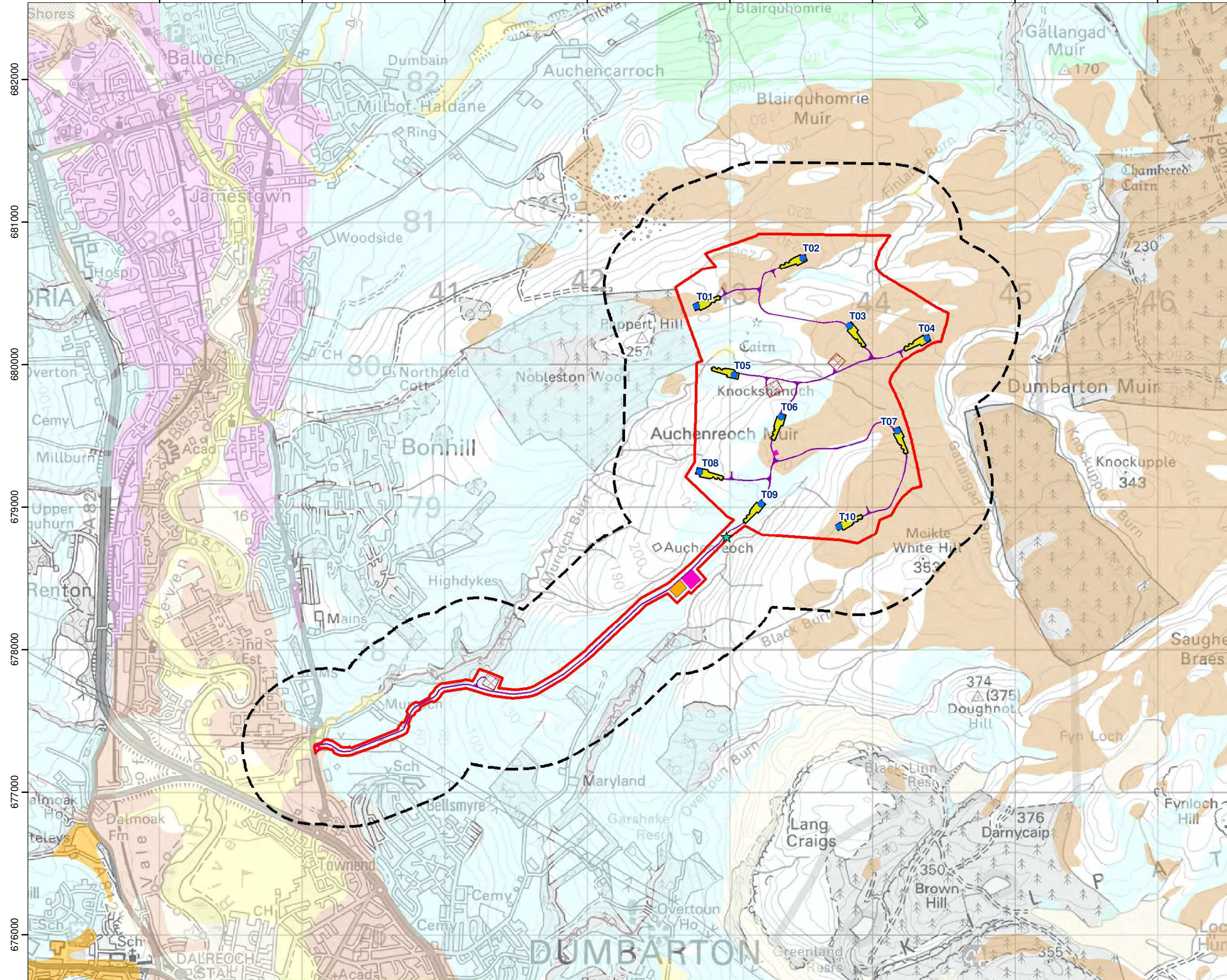
TITLE: Figure 8.2: Soils

ID:P663510\_TAG000\_Layout\_A3\_L



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 1:25,000 Soil Map of Scotland copyright and database right The James Hutton Institute 2021.  
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239000 240000 241000 242000 243000 244000 245000 246000



**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Substation
- Proposed Construction Compound
- Proposed Borrow Pit
- ★ Proposed LiDAR Unit Location

**Superficial Geology**

- Alluvium - Clay, Silt, Sand and Gravel
- Glacio Fluvial Deposits - Gravbel, Sand and Silt
- Hummocky (Moundy) Glacial Deposits - Diamicton, Sand And Gravel
- Peat
- Raised Marine Deposits Of Holocene Age - Clay, Silt, Sand And Gravel
- Raised Marine Deposits, Devensian - Clay, Silt, Sand And Gravel
- Till, Devensian - Diamicton

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



Rev	Date	Description	Drn	Chk	App
00	03/07/2023	First Draft	DL	RB	RB

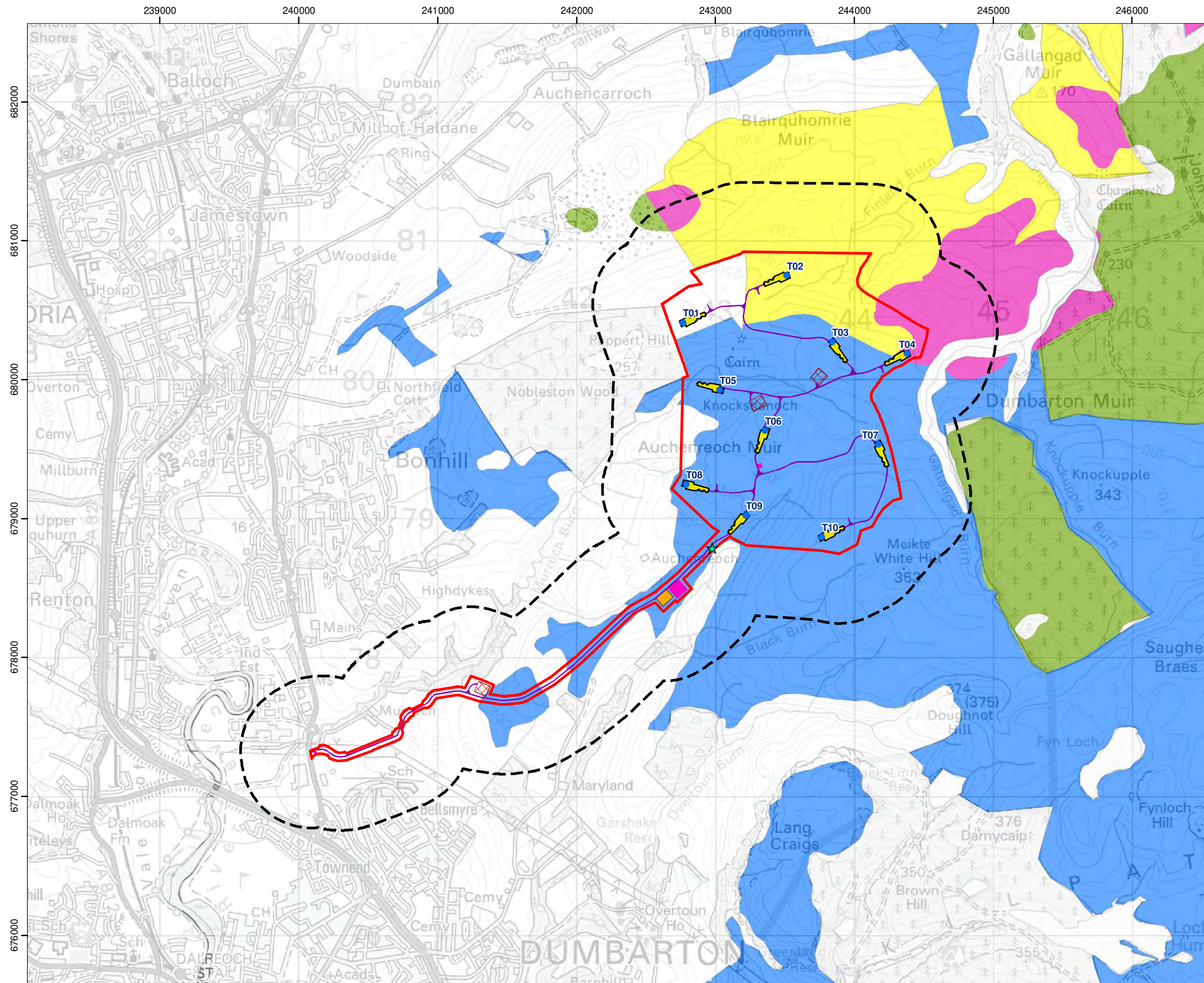
**Vale of Leven Wind Farm**

TITLE: Figure 8.3:  
Superficial Geology

ID:P663510\_TAG000\_Layout\_A3\_L

SCALE: 1:25,000 @ A3

REV 00



**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Substation
- Proposed Construction Compound
- Proposed Borrow Pit
- ★ Proposed LiDAR Unit Location

**National Importance for Carbon-Rich Soil, Deep Peat and Priority Peatland Habitat**

CLASS 1 All vegetation cover is priority peatland habitats. All soils are carbon-rich soils and deep peat

CLASS 2 The vegetation cover is dominated by priority peatland habitats. All soils are carbon-rich soil and deep peat

CLASS 3 Dominant vegetation cover is not priority peatland habitat but is associated with wet and acidic type. Occasional peatland habitats can be found. Most soils are carbon-rich soils, with some areas of deep peat

CLASS 4 Area unlikely to be associated with peatland habitats or wet and acidic type. Area unlikely to include carbon-rich soils

CLASS 5 Soil information takes precedence over vegetation data. No peatland habitat recorded. May also show bare soil. All soils are carbon-rich soil and deep peat

Coordinate System: British National Grid  
Projection: Transverse Mercator  
Datum: OSGB 1936  
Units: Meter



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00	03/07/2023	First Draft	DL	RB	RB

**Vale of Leven Wind Farm**

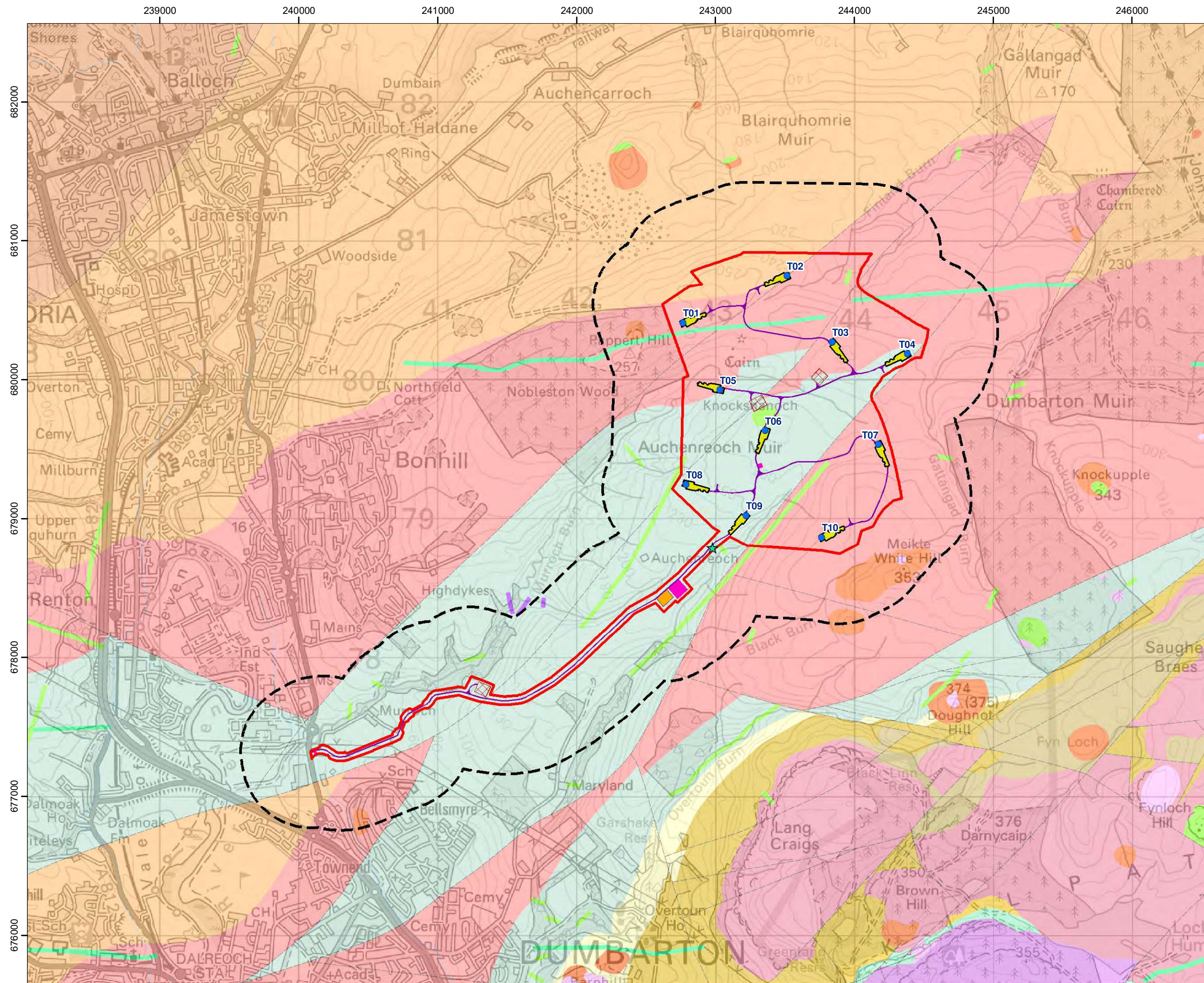
TITLE: **Figure 8.4: Carbon and Peatland**

ID:P663510\_TAG000\_Layout\_A3\_L

SCALE: 1:25,000 @ A3

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**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Substation
- Proposed Construction Compound
- Proposed Borrow Pit
- Proposed LIDAR Unit Location

**Linear Features**

- Back-Feature Marking Former Coastline, Arrowheads Denote Uphill Side
- Fault, Inferred, Crossmark On Downthrow Side, Throw In Metres

**Bedrock Geology**

- Bumcrooks Volcaniclastic Member - Tuff And Agglomerate
- Clyde Sandstone Formation - Sandstone
- Ballagan Formation - Argillaceous Rock, Dolostone And Sandstone
- Kinnesswood Formation - Limestone Nodular (Cornstone)
- Kinnesswood Formation - Sandstone
- Kinnesswood Formation - Silicate-Conglomerate - Calcite-Cemented (Calcrete)
- Stockiemuir Sandstone Formation - Sandstone

**Igneous Geology**

- Central Scotland Late Carboniferous Tholeiitic Dyke Swarm - Quartz-Microgabbro
- Clyde Plateau Subsuite - Basaltic-Rock Plagioclase-Microphyric
- Clyde Plateau Subsuite - Basalt Olivine-Macrophyric
- Clyde Plateau Subsuite - Agglomerate
- Dinantian Dykes (Within Mcpad) - Basalt and Microgabbro
- Dinantian Dykes (Within Mcpad) - Basaltic-Rock Plagioclase-Microphyric
- Dinantian Dykes (Within Mcpad) - Basaltic-Rock - Plagioclase-Olivine-Clinopyroxene-Macro...

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter

Rev	Date	Description	Drn	Chk	App
00	03/07/2023	First Draft	DL	RB	RB

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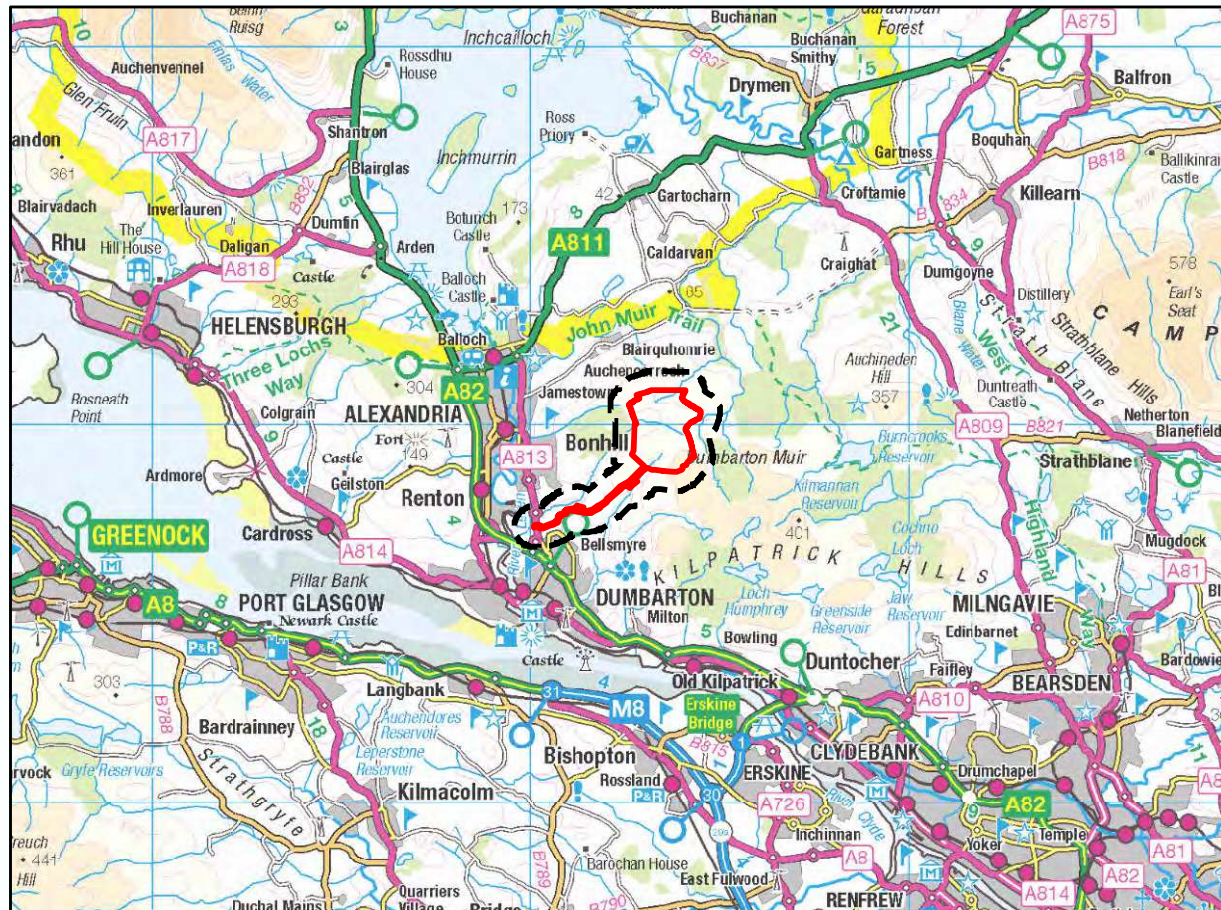
**RSK** **Coriolis Energy**

TITLE: **Figure 8.5: Bedrock Geology**

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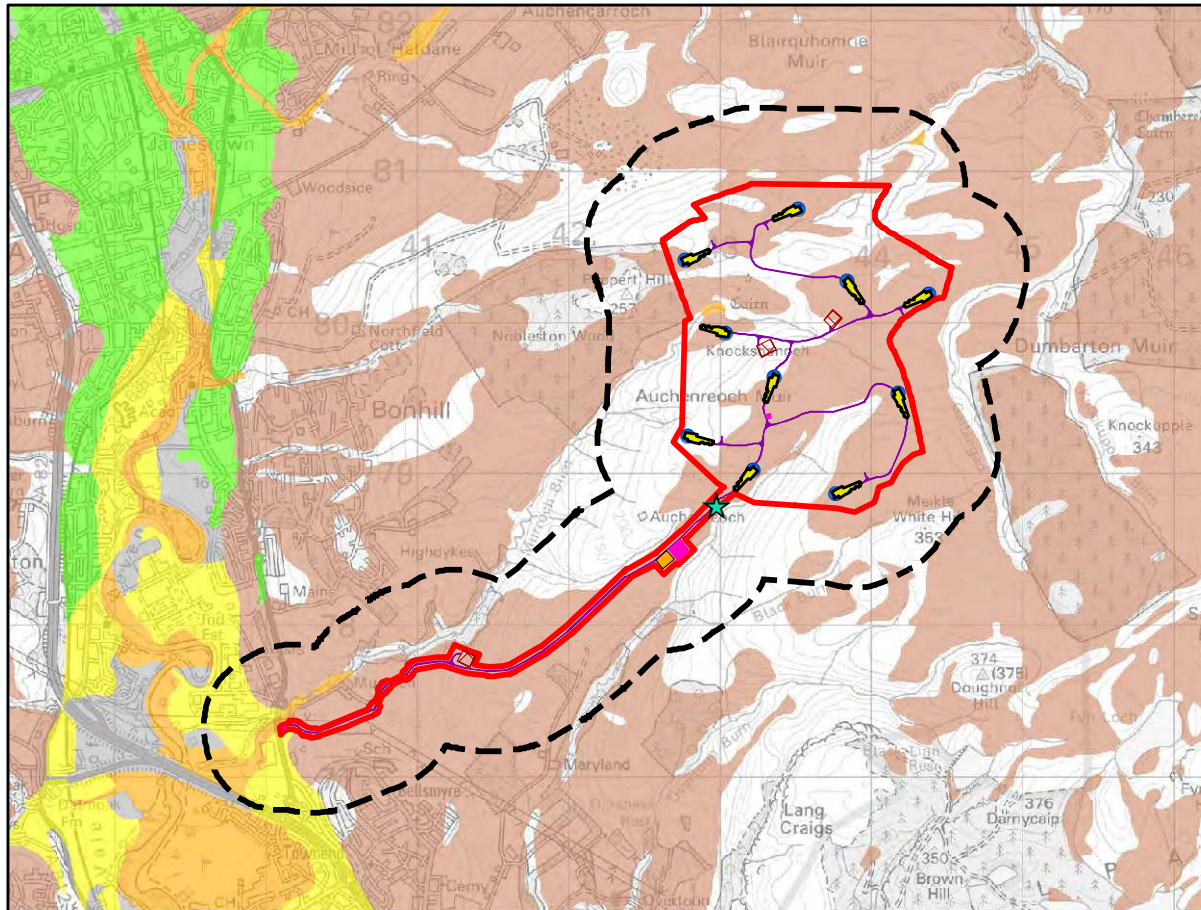
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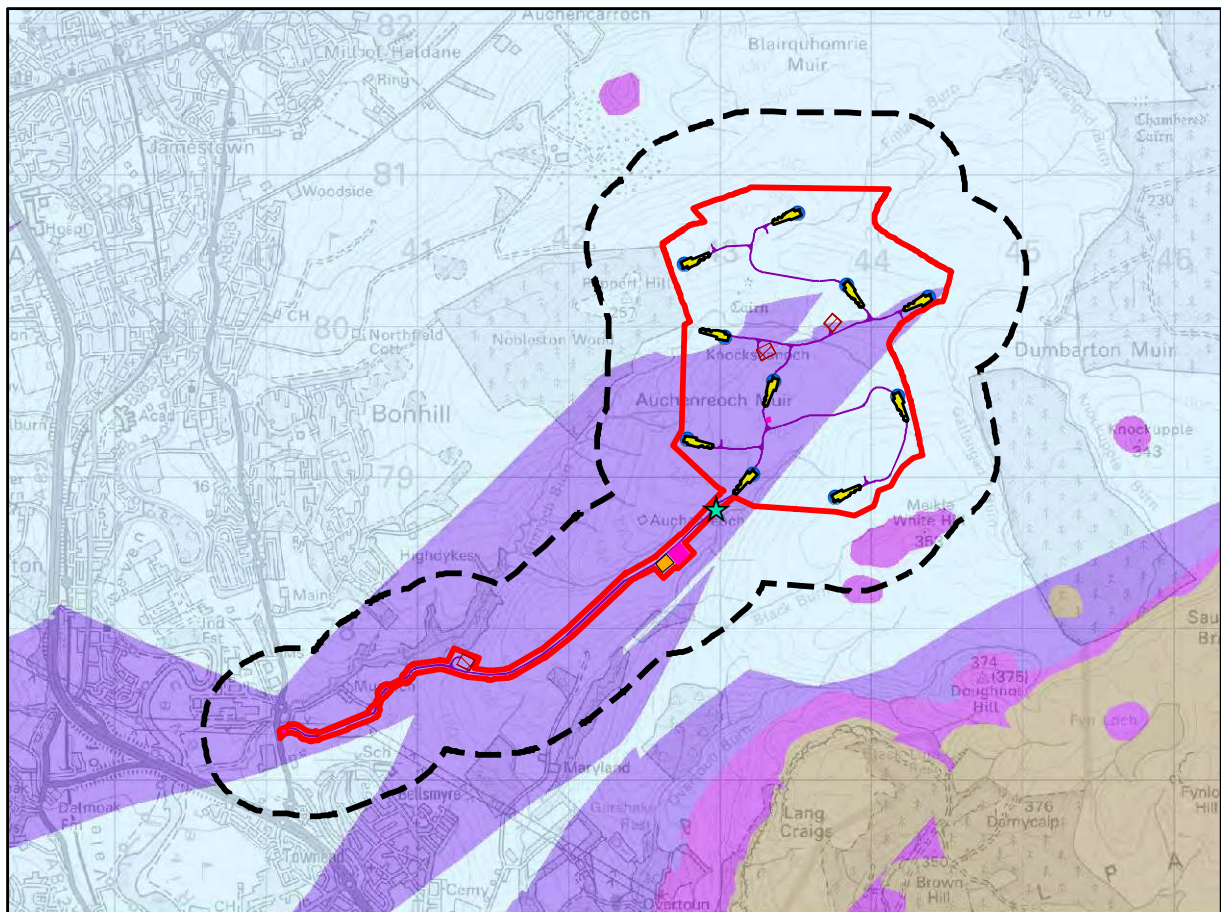
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Scale - 1:200,000 @ A3



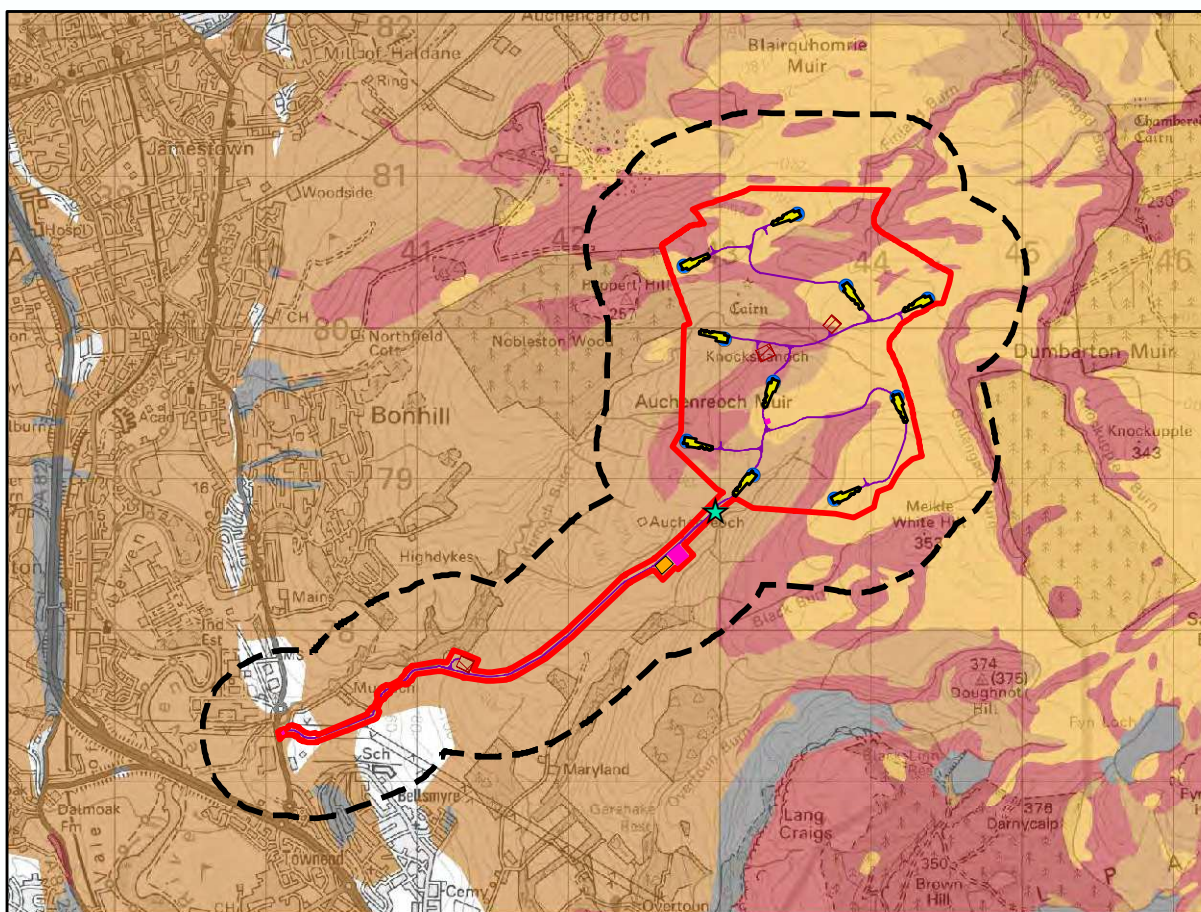
SUPERFICIAL AQUIFERS

Scale - 1:50,000 @ A3



BEDROCK AQUIFERS

Scale - 1:50,000 @ A3



GROUNDWATER VULNERABILITY IN THE UPPERMOST AQUIFER

Scale - 1:50,000 @ A3

**Legend:**

- Application Boundary
  - Study Area
  - Proposed Turbine Location
  - Proposed Access Track
  - Proposed Crane Pad
  - Proposed Substation
  - Proposed Construction Compound
  - Proposed Borrow Pit
  - Proposed LiDAR Unit Location
- Superficial Aquifers**
- Intergranular Flow; High Productivity
  - Intergranular Flow; Moderate to High Productivity
  - Intergranular Flow; Low to Moderate Productivity
  - Not a Significant Aquifer
  - Unknown Geology
- Bedrock Aquifers**
- Fracture Flow; Low Productivity
  - Fracture Flow; Very Low Productivity
  - Intergranular & Fracture Flow; High Productivity
  - Intergranular & Fracture Flow; Moderate Productivity
  - Intergranular & Fracture Flow; Low Productivity
- Groundwater Vulnerability in the Uppermost Aquifer Vulnerability Class**
- 5 - Vulnerable to Most Pollutants, With Rapid Impact in Many Scenarios).
  - 4a - Vulnerable to Those Pollutants not Readily Adsorbed or Transformed. Less Likely to Have Clay Present in Superficial Deposits (Therefore Generally Higher Vulnerability Than 4b).
  - 4b - Vulnerable to Those Pollutants not Readily Adsorbed or Transformed. More Likely to Have Clay Present in Superficial Deposits (Therefore Generally Lower Vulnerability Than 4a).
  - 0 - Not Sufficient Data to Classify Vulnerability: e.g. Below Lochs; in Urban Areas Where Geological and/or Soils Data are Missing; or Where Superficial Deposits are Mapped but not Classified.

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter

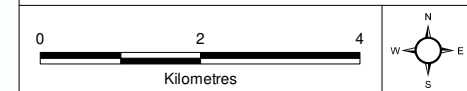
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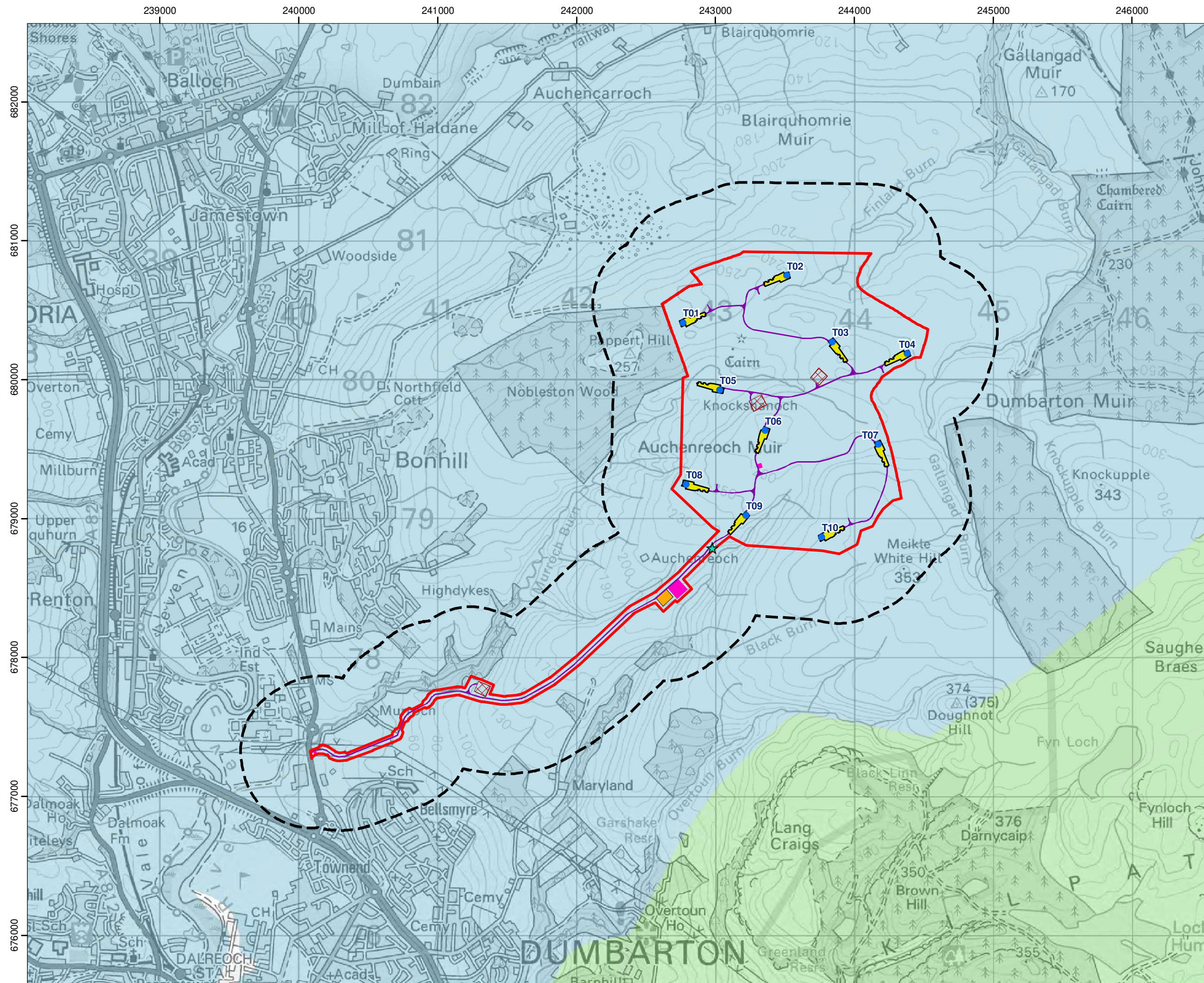


TITLE: Figure 8.6:  
Groundwater Vulnerability

ID:P663510\_TAG000\_Layout\_A3\_L



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**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Substation
- Proposed Construction Compound
- Proposed Borrow Pit
- ★ Proposed LiDAR Unit Location

**Aquifer In Which Flow Is Virtually All Though Fractures And Other Discontinuities**

- Moderately Productive Aquifer
- Low Productivity Aquifer

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



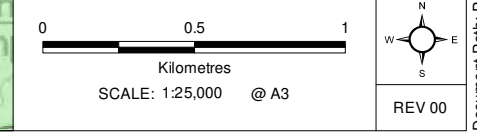
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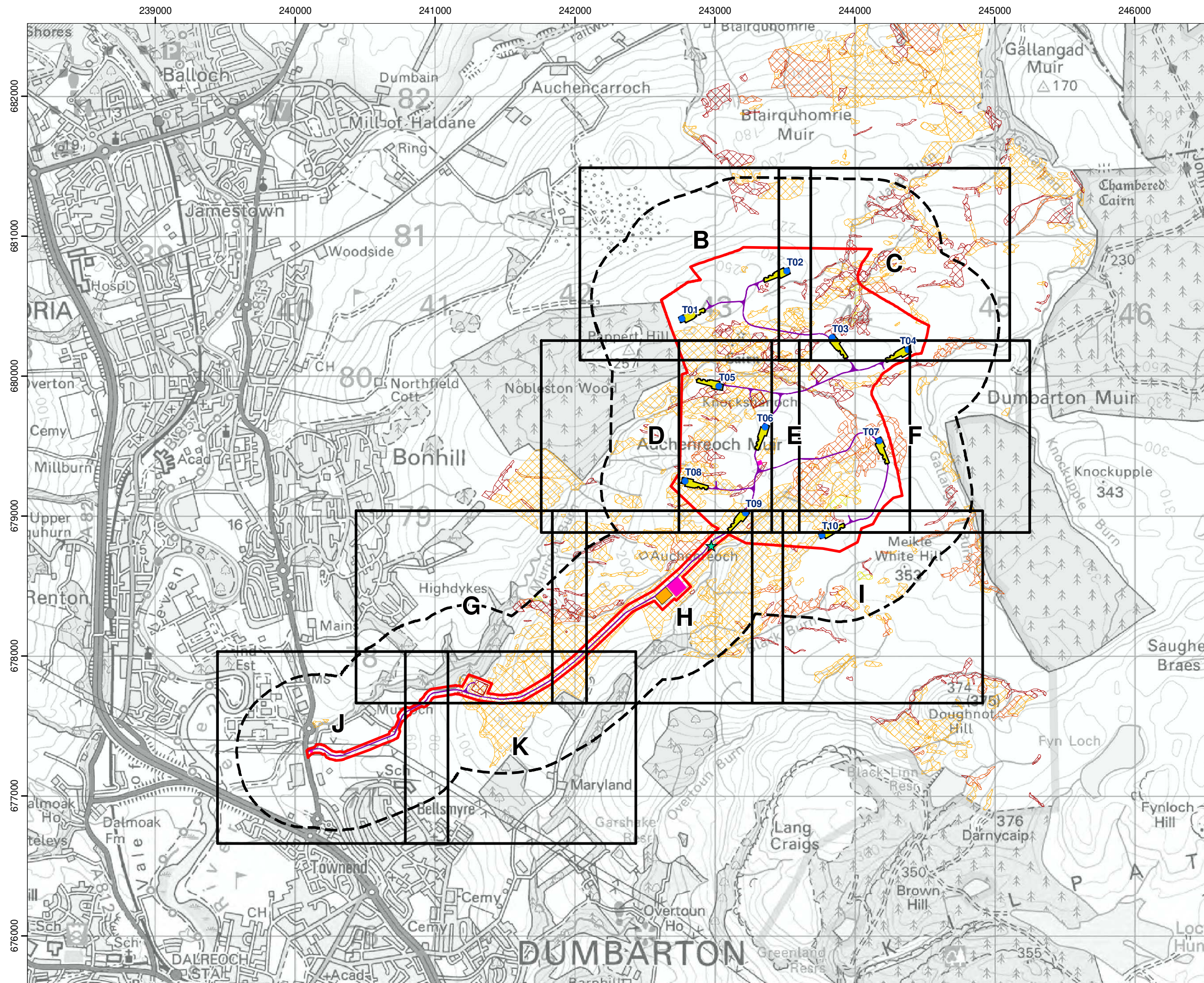
**Vale of Leven Wind Farm**



TITLE: Figure 8.7:  
Regional Hydrogeology

ID:P663510\_TAG000\_Layout\_A3\_L





**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Substation
- Proposed Construction Compound
- Proposed Borrow Pit
- Proposed LiDAR Unit Location

**Groundwater Dependent Terrestrial Ecosystems (GWDE)**

- Highly Dominant
- Highly Sub-Dominant
- Moderately Dominant
- Moderately Sub-Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



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**Vale of Leven Wind Farm**

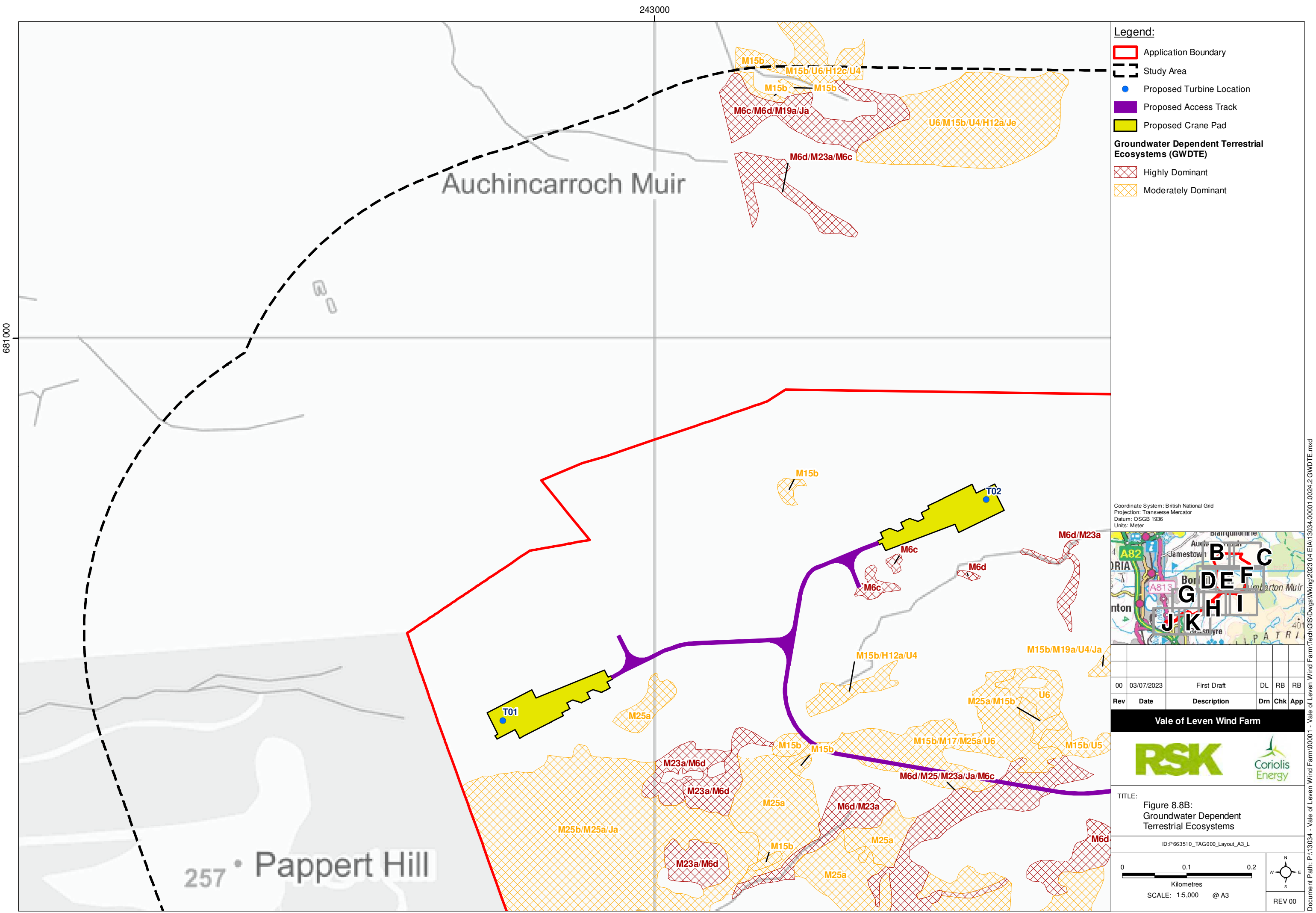
TITLE: Figure 8.8A:  
 Groundwater Dependent  
 Terrestrial Ecosystems

ID:P663510\_TAG000\_Layout\_A3\_L

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- Legend:**
- Application Boundary
  - Study Area
  - Proposed Turbine Location
  - Proposed Access Track
  - Proposed Crane Pad
- Groundwater Dependent Terrestrial Ecosystems (GWDE)**
- Highly Dominant
  - Moderately Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



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**Vale of Leven Wind Farm**



TITLE: Figure 8.8B:  
Groundwater Dependent  
Terrestrial Ecosystems

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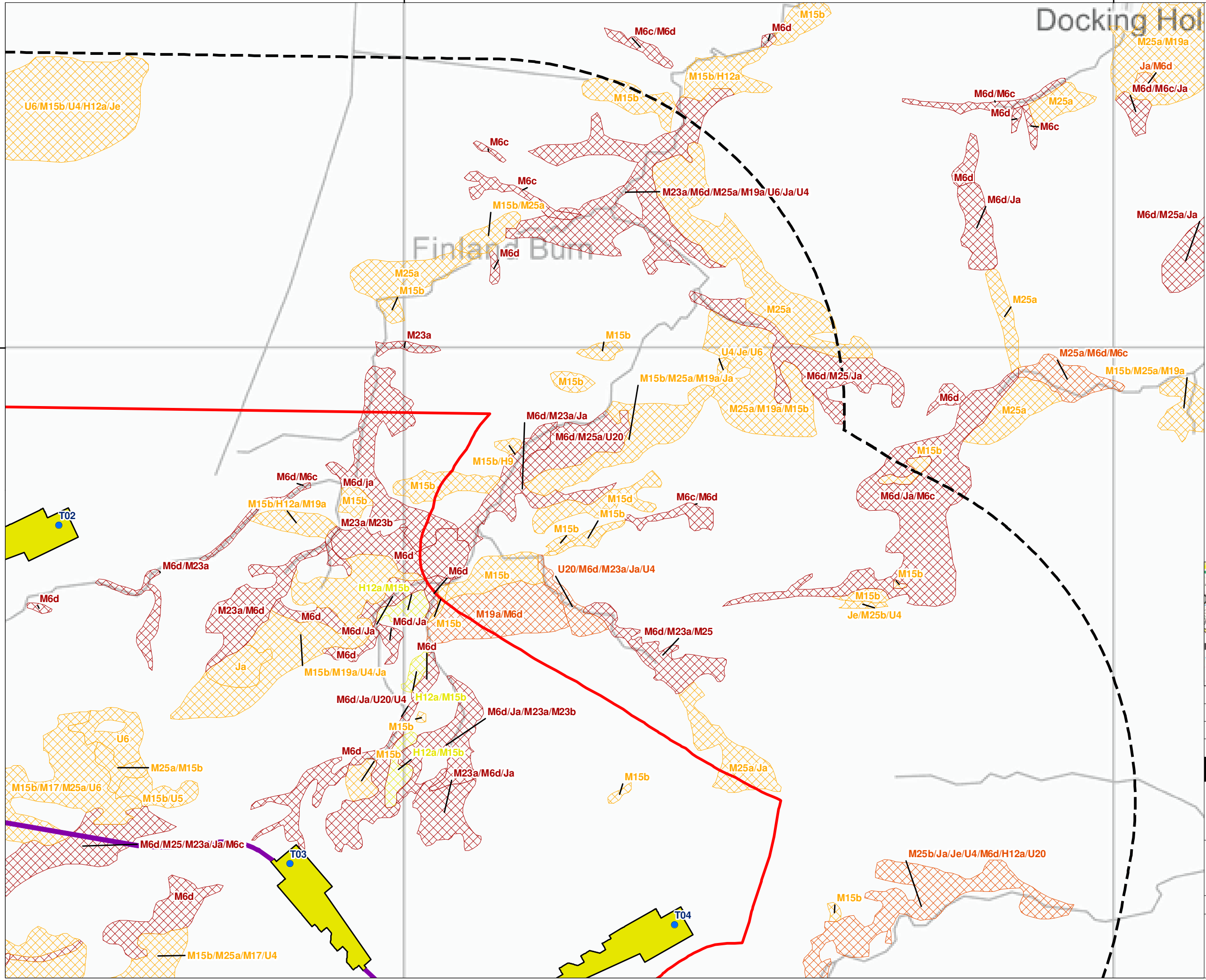
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**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad

**Groundwater Dependent Terrestrial Ecosystems (GWDTE)**

- Highly Dominant
- Highly Sub-Dominant
- Moderately Dominant
- Moderately Sub-Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



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00	03/07/2023	First Draft	DL	RB	RB

**Vale of Leven Wind Farm**

TITLE: Figure 8.8C:  
Groundwater Dependent  
Terrestrial Ecosystems

ID:P663510\_TAG000\_Layout\_A3\_L

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Kilometres

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# 257 Pappert Hill

## Nobleston Wood




## Hazel Glen

## Auchenroch Muir

### Legend:

-  Application Boundary
-  Study Area
-  Proposed Turbine Location
-  Proposed Access Track
-  Proposed Crane Pad
-  Proposed Construction Compound
-  Proposed Borrow Pit

### Groundwater Dependent Terrestrial Ecosystems (GWDE)

-  Highly Dominant
-  Highly Sub-Dominant
-  Moderately Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



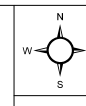
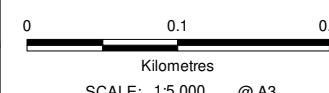
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### Vale of Leven Wind Farm

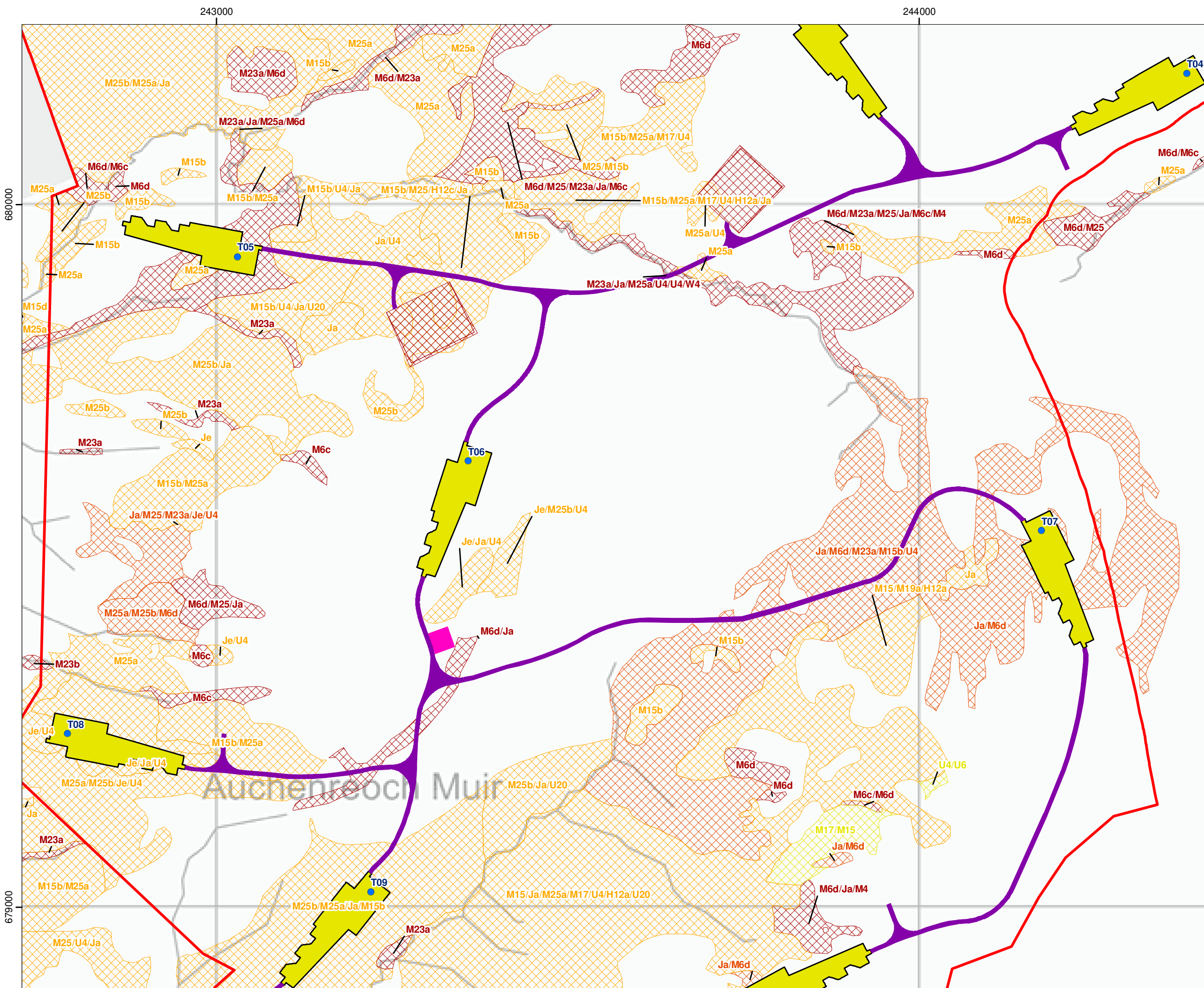


TITLE: Figure 8.8D:  
 Groundwater Dependent  
 Terrestrial Ecosystems

ID:P663510\_TAG000\_Layout\_A3\_L



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**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Construction Compound
- Proposed Borrow Pit

**Groundwater Dependent Terrestrial Ecosystems (GWDE)**

- Highly Dominant
- Highly Sub-Dominant
- Moderately Dominant
- Moderately Sub-Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



Rev	Date	Description	Drn	Chk	App
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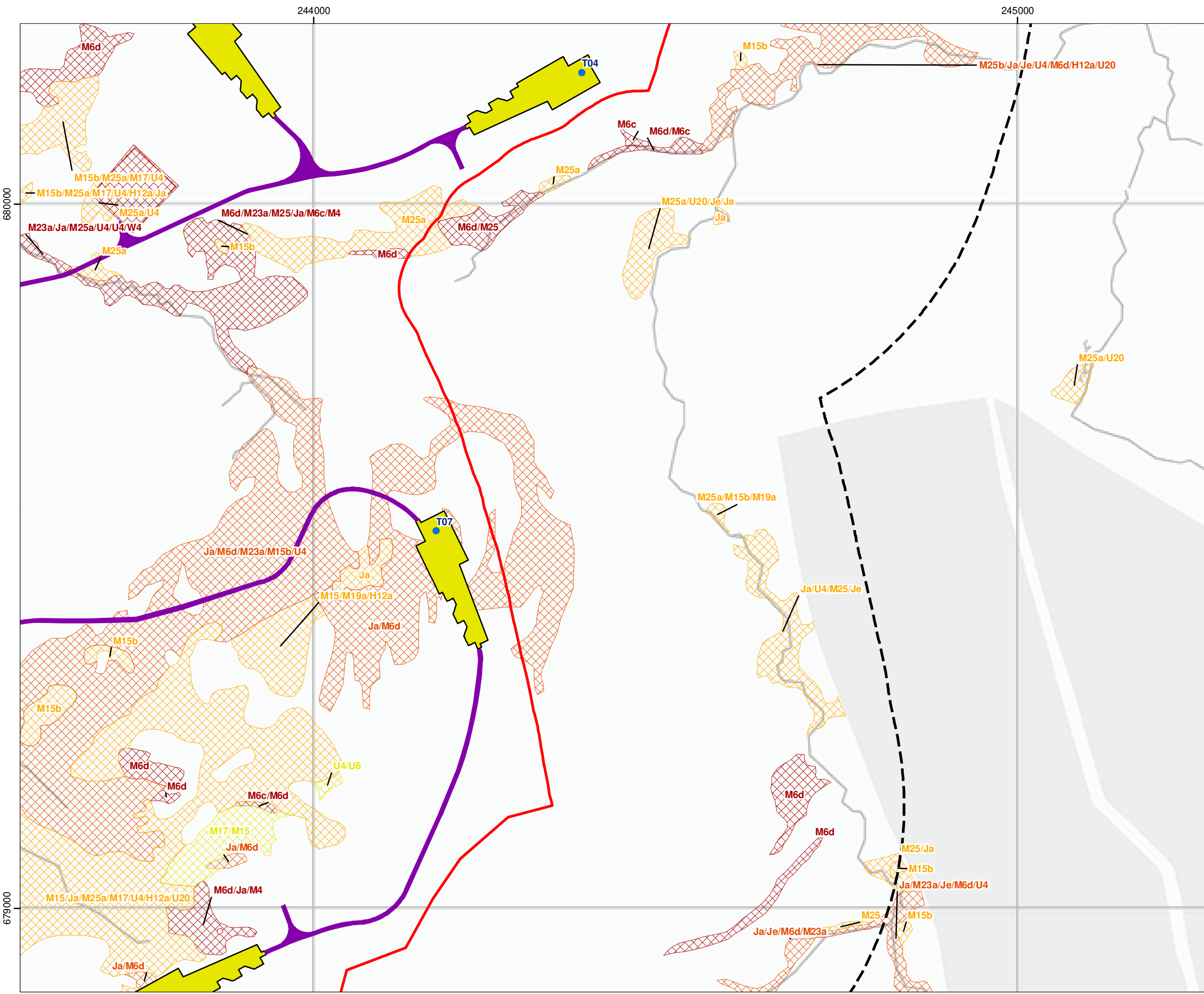
**Vale of Leven Wind Farm**



TITLE: Figure 8.8E: Groundwater Dependent Terrestrial Ecosystems

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**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Borrow Pit

**Groundwater Dependent Terrestrial Ecosystems (GWDTE)**

- Highly Dominant
- Highly Sub-Dominant
- Moderately Dominant
- Moderately Sub-Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter

Rev	Date	Description	Drn	Chk	App
00	03/07/2023	First Draft	DL	RB	RB

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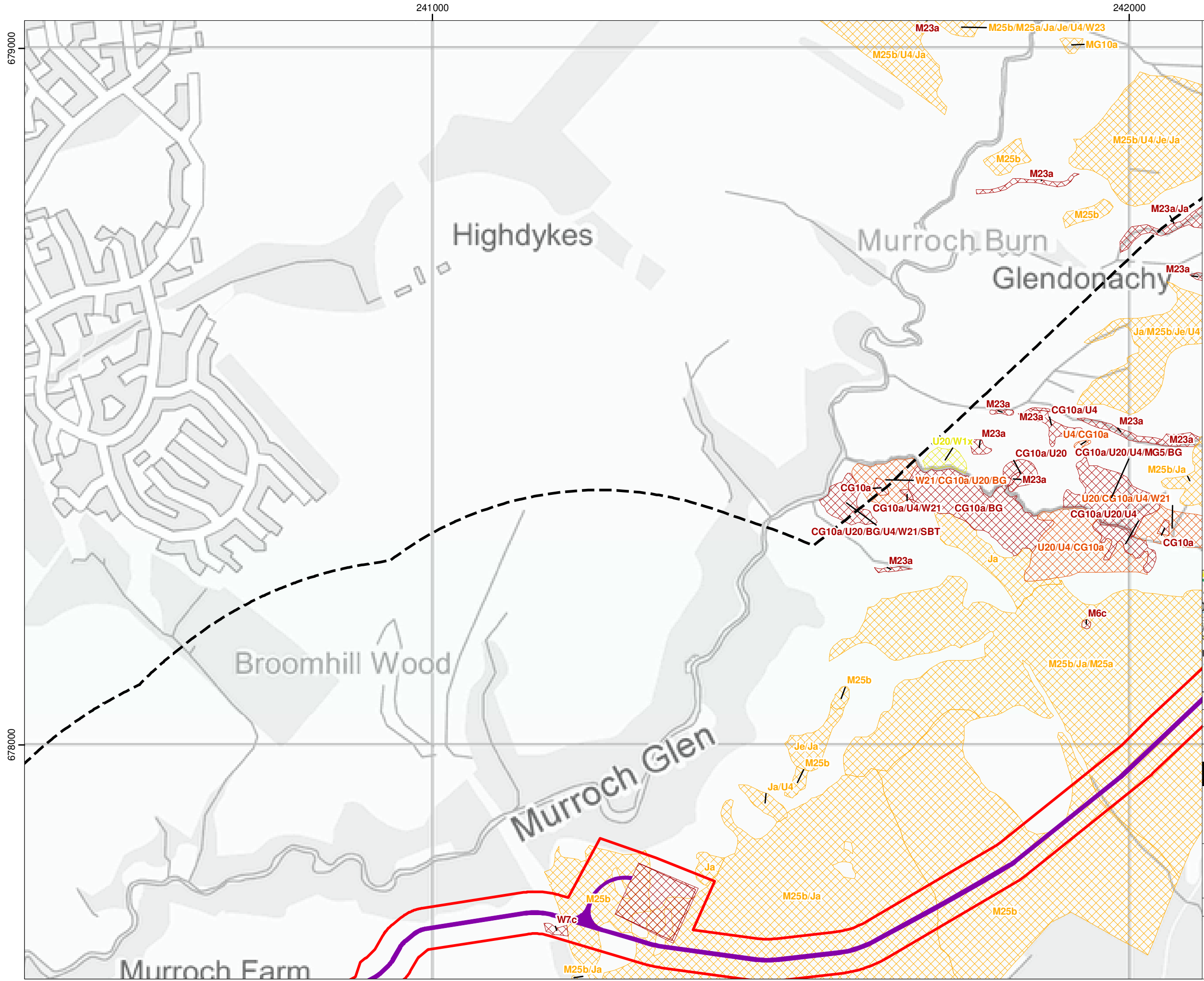
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**Legend:**

- Application Boundary
- Study Area
- Proposed Access Track
- Proposed Borrow Pit

**Groundwater Dependent Terrestrial Ecosystems (GWDE)**

- Highly Dominant
- Highly Sub-Dominant
- Moderately Dominant
- Moderately Sub-Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



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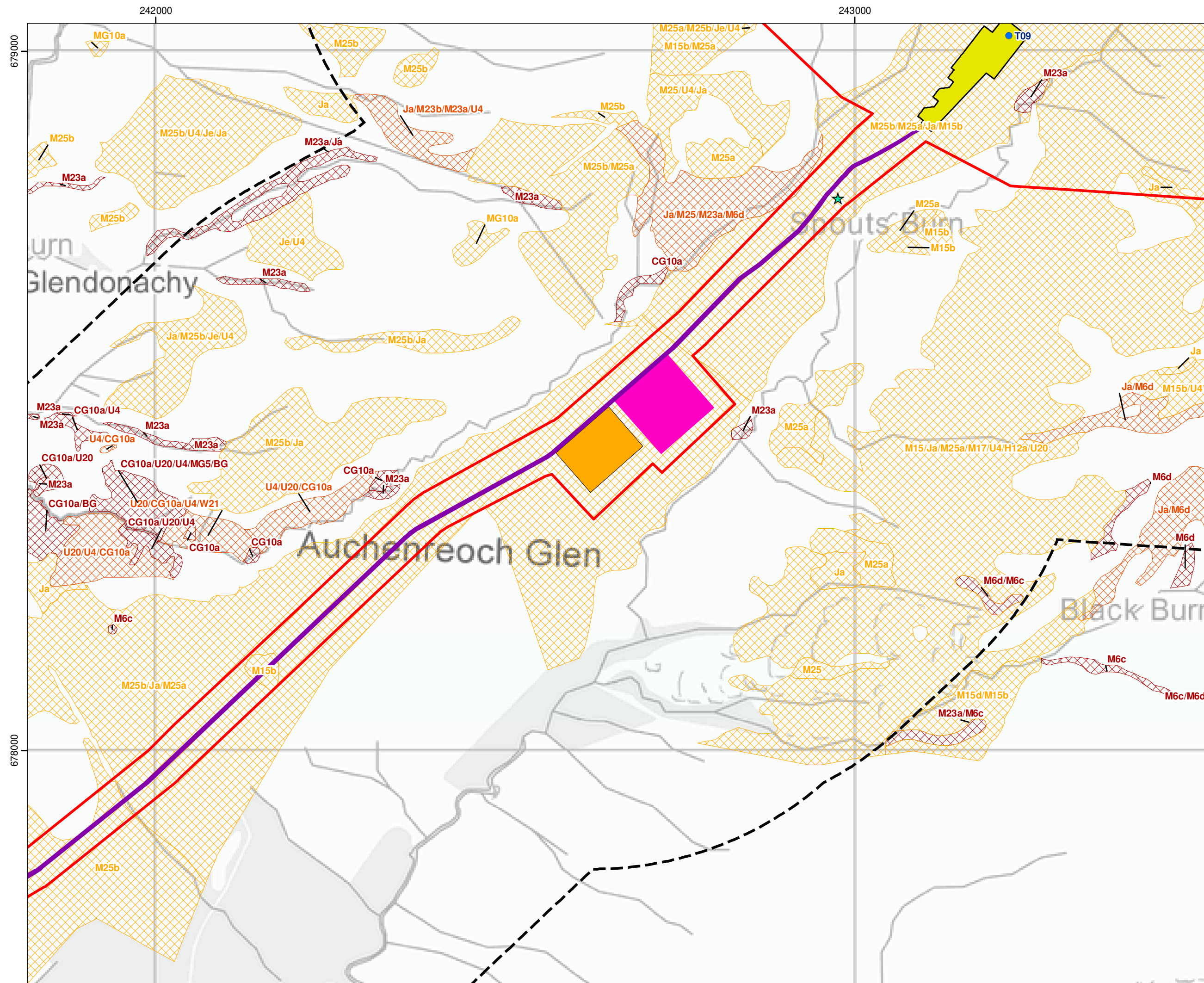


TITLE: Figure 8.8G:  
 Groundwater Dependent  
 Terrestrial Ecosystems

ID:P663510\_TAG000\_Layout\_A3\_L

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**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad
- Proposed Substation
- Proposed Construction Compound
- Proposed LiDAR Unit Location

**Groundwater Dependent Terrestrial Ecosystems (GWDTE)**

- Highly Dominant
- Highly Sub-Dominant
- Moderately Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



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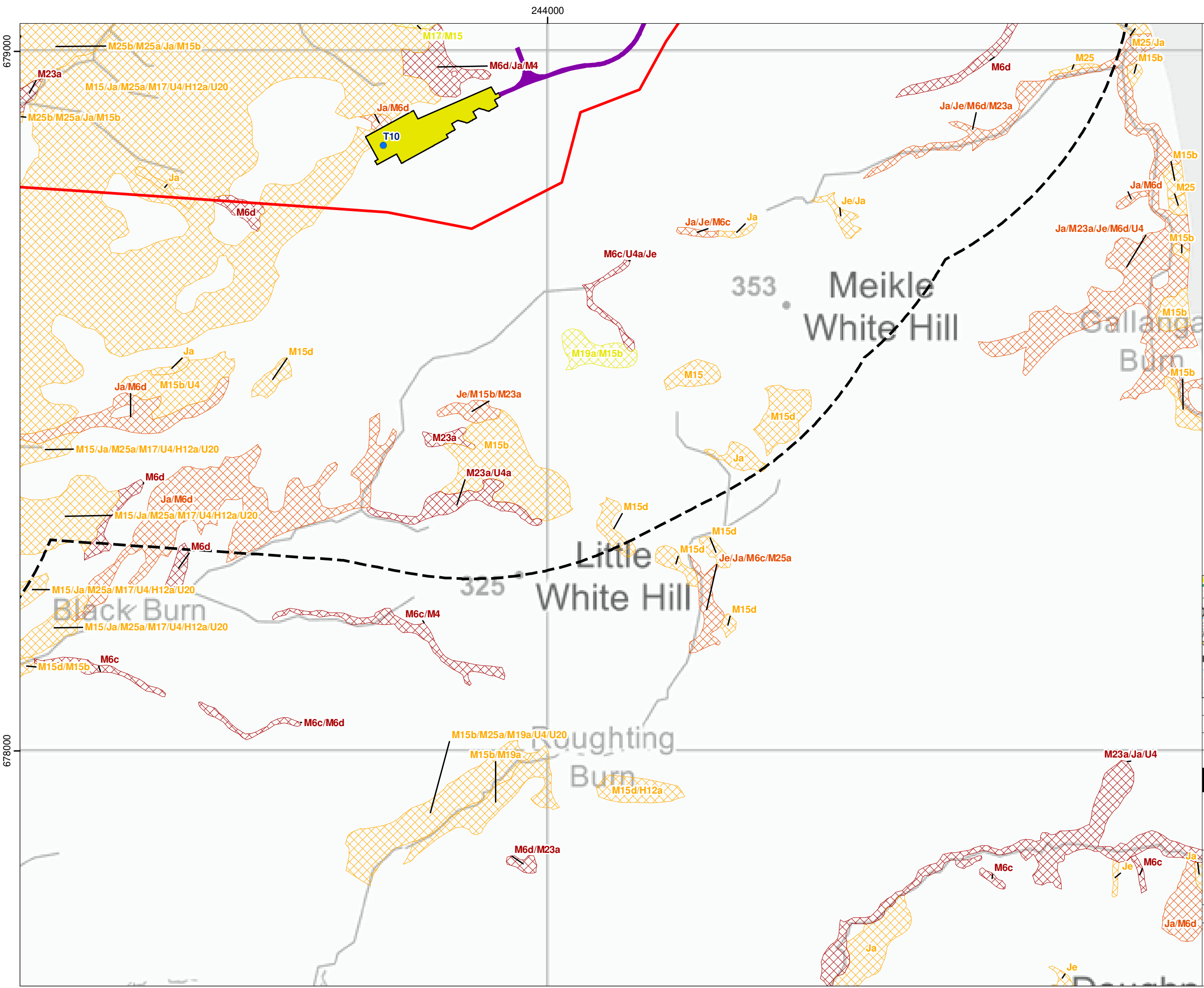


TITLE:  
 Figure 8.8H:  
 Groundwater Dependent  
 Terrestrial Ecosystems

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 SCALE: 1:5,000 @ A3

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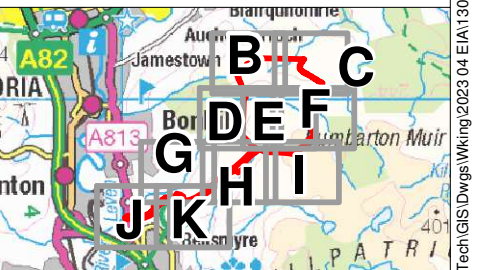
**Legend:**

- Application Boundary
- Study Area
- Proposed Turbine Location
- Proposed Access Track
- Proposed Crane Pad

**Groundwater Dependent Terrestrial Ecosystems (GWDTE)**

- Highly Dominant
- Highly Sub-Dominant
- Moderately Dominant
- Moderately Sub-Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



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**Vale of Leven Wind Farm**



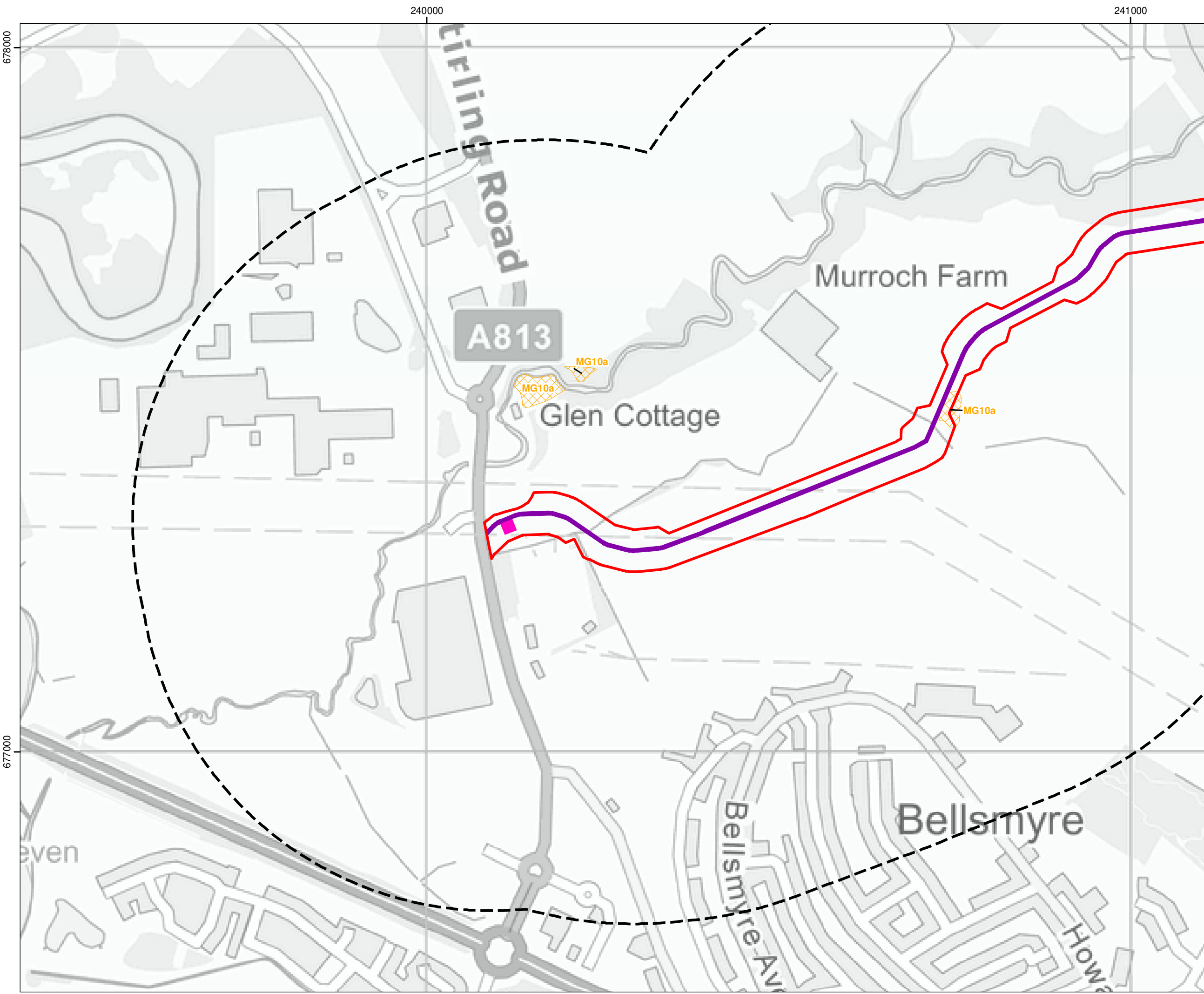
TITLE: Figure 8.81: Groundwater Dependent Terrestrial Ecosystems

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**Legend:**

- Application Boundary
- Study Area
- Proposed Access Track
- Proposed Construction Compound

**Groundwater Dependent Terrestrial Ecosystems (GWDTE)**

- Moderately Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



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TITLE: Figure 8.8J:  
 Groundwater Dependent  
 Terrestrial Ecosystems

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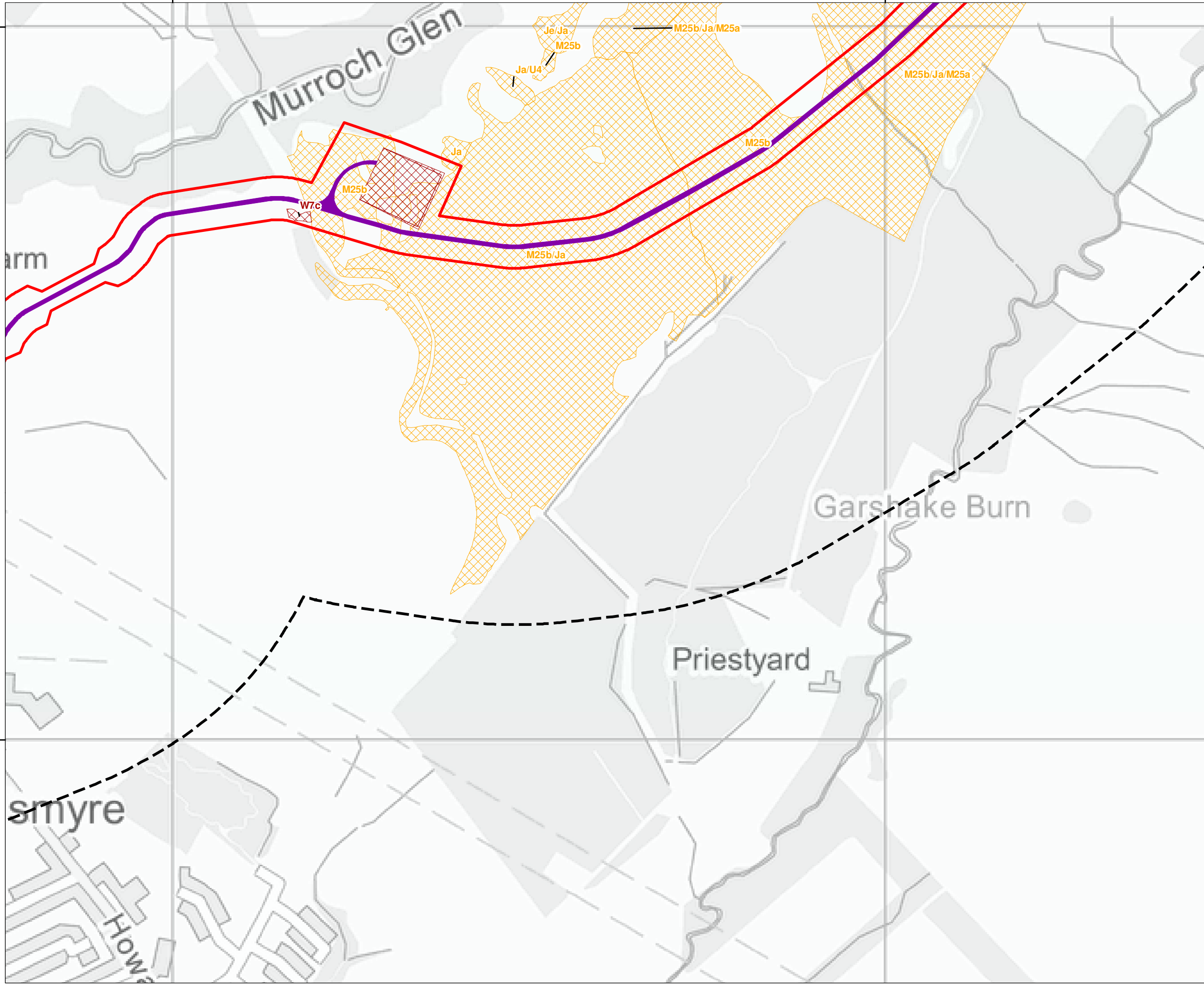
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- Legend:**
- Application Boundary
  - Study Area
  - Proposed Access Track
  - Proposed Borrow Pit
- Groundwater Dependent Terrestrial Ecosystems (GWDTE)**
- Highly Dominant
  - Moderately Dominant

Coordinate System: British National Grid  
 Projection: Transverse Mercator  
 Datum: OSGB 1936  
 Units: Meter



Rev	Date	Description	Drn	Chk	App
00	03/07/2023	First Draft	DL	RB	RB

**Vale of Leven Wind Farm**



TITLE:  
 Figure 8.8K:  
 Groundwater Dependent  
 Terrestrial Ecosystems

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