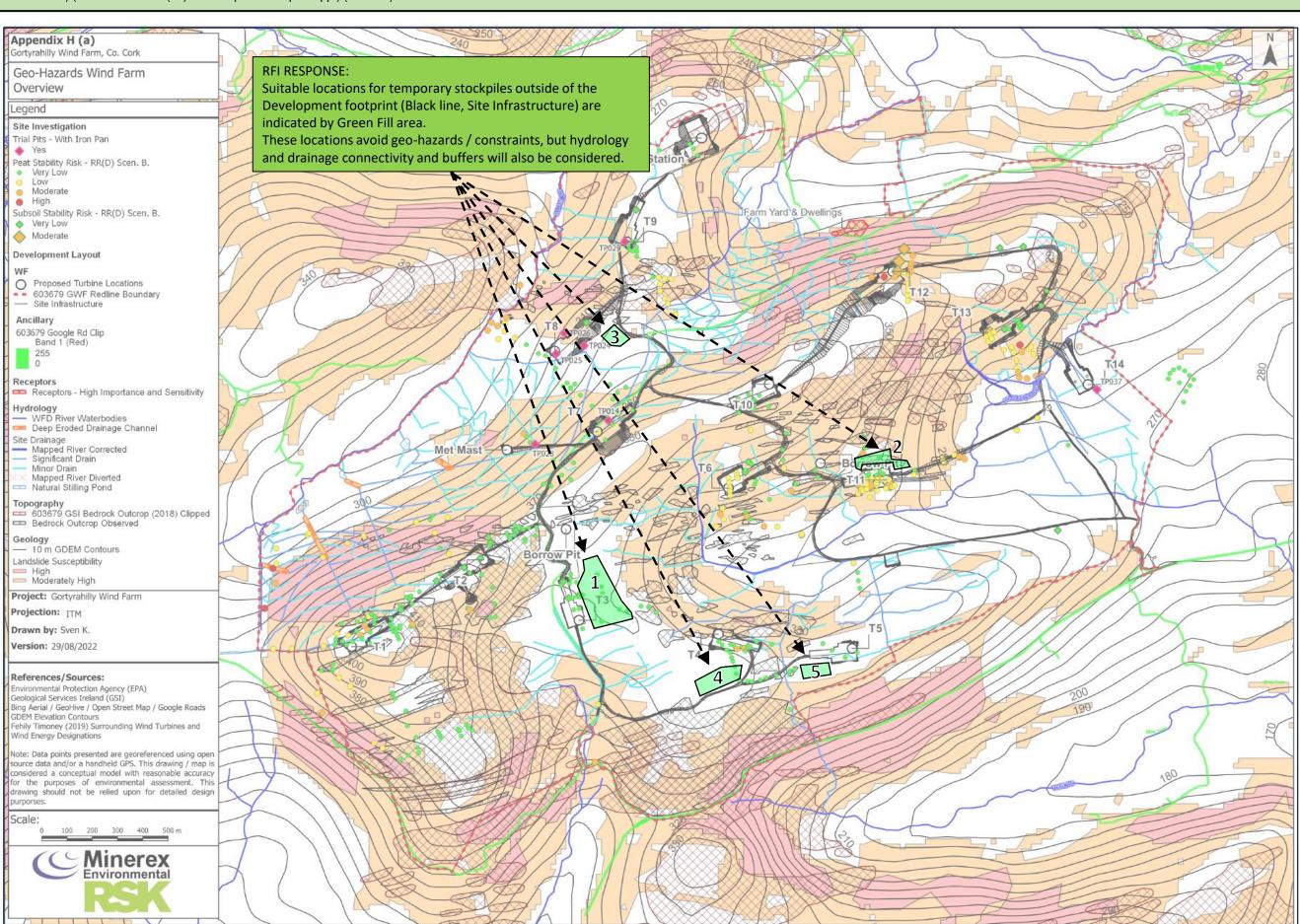
Subject: Suitable Locations for Temporary Stockpiles (Annotated, Ref. EIAR Chapter 8 – Appendix 8.1 – Appendix H (a) Geo-Hazards Wind Farm Overview)

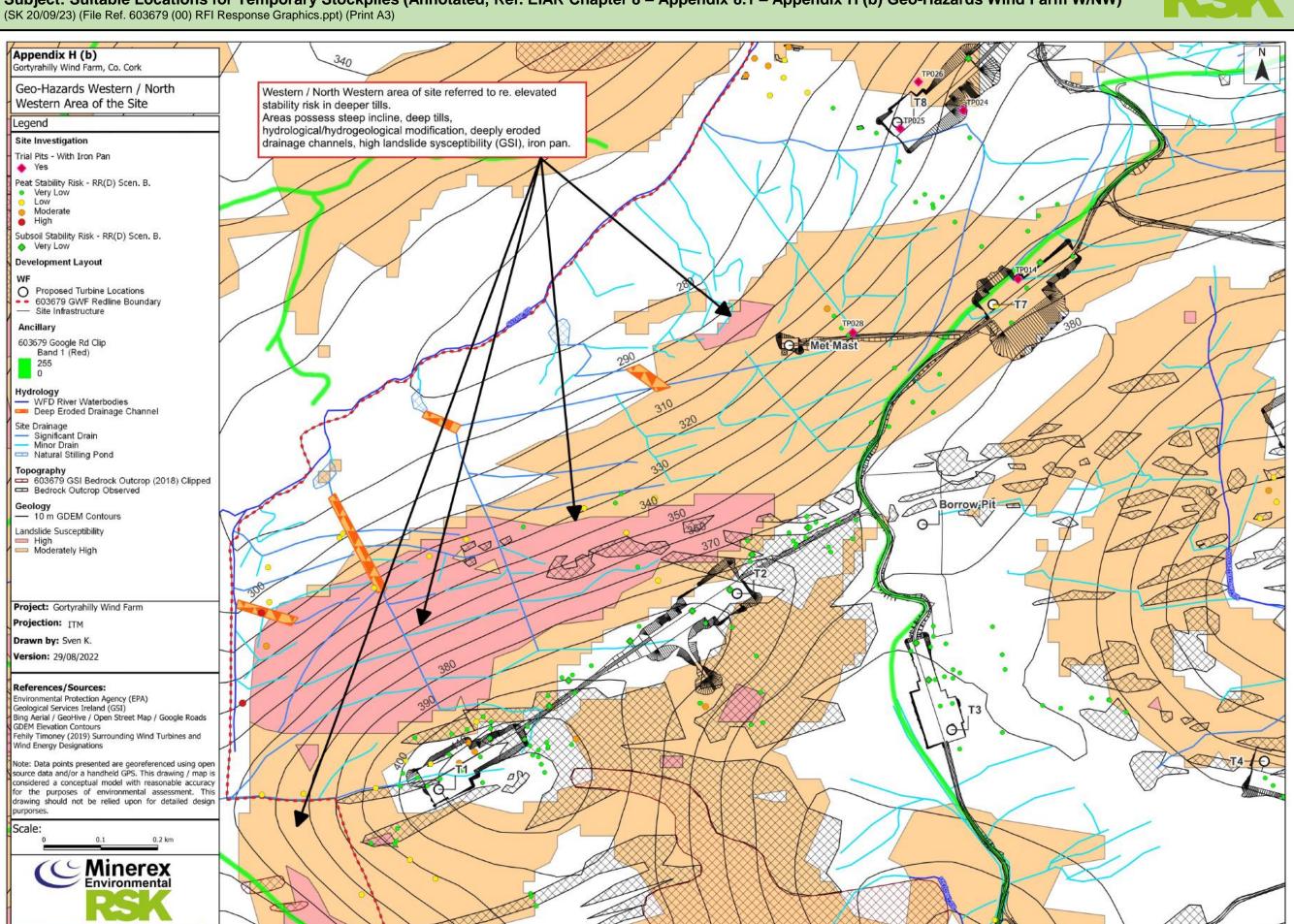
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Subject: Suitable Locations for Temporary Stockpiles (Annotated, Ref. EIAR Chapter 8 – Appendix 8.1 – Appendix H (b) Geo-Hazards Wind Farm W/NW)

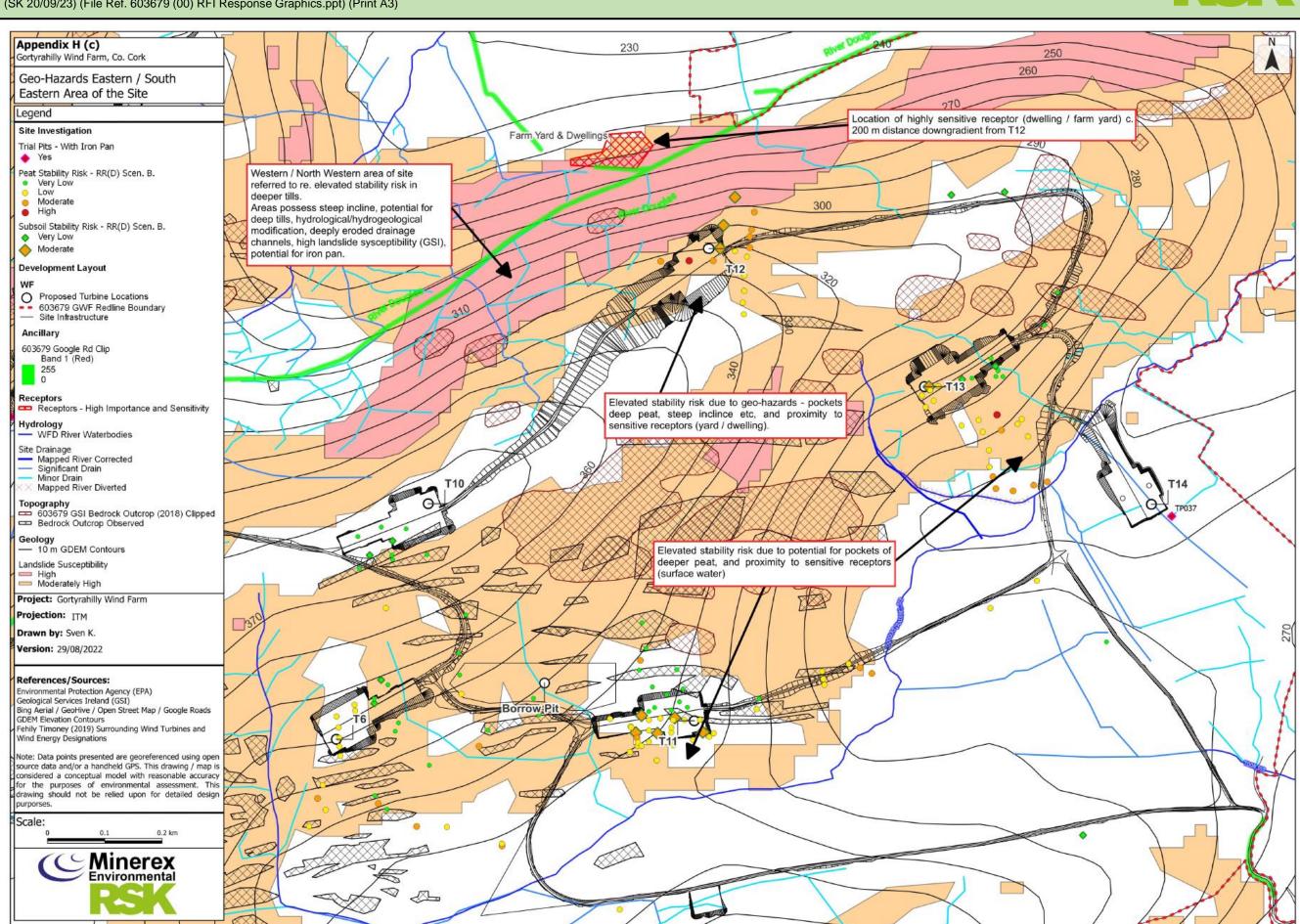




Subject: Suitable Locations for Temporary Stockpiles (Annotated, Ref. EIAR Chapter 8 – Appendix 8.1 – Appendix H (c) Geo-Hazards Wind Farm E/SE)

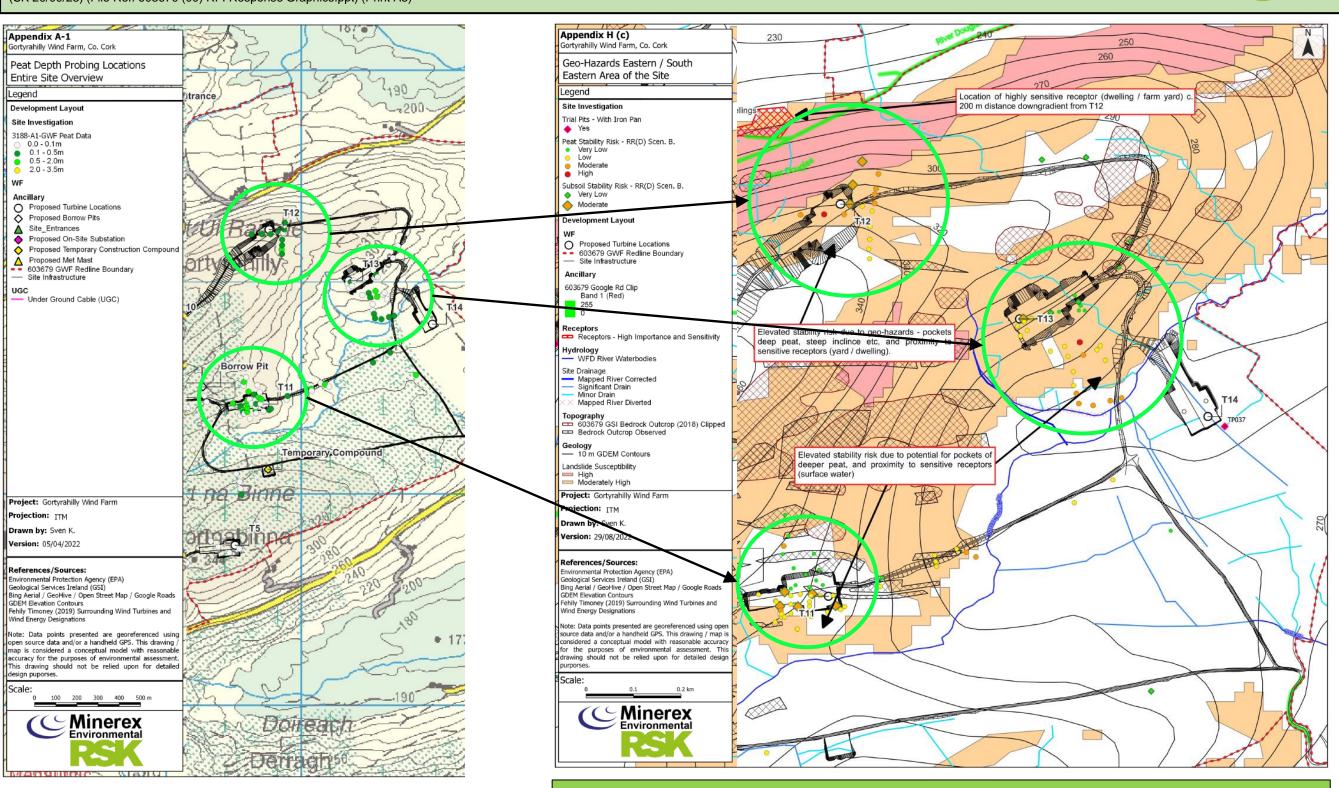
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Subject: Clarifying Stability Risk Assessment Results and Interpretation (Ref. EIAR Chapter 8 – Appendix 8.1 – Appendix A-1 and Appendix H(c)). (SK 20/09/23) (File Ref. 603679 (00) RFI Response Graphics.ppt) (Print A3)





RFI RESPONSE:

Note general shallow peat depth. Generally ranging to 0m (rock at surface) to 0.5m depth, with some isolated pockets ranging up to 2.0m.

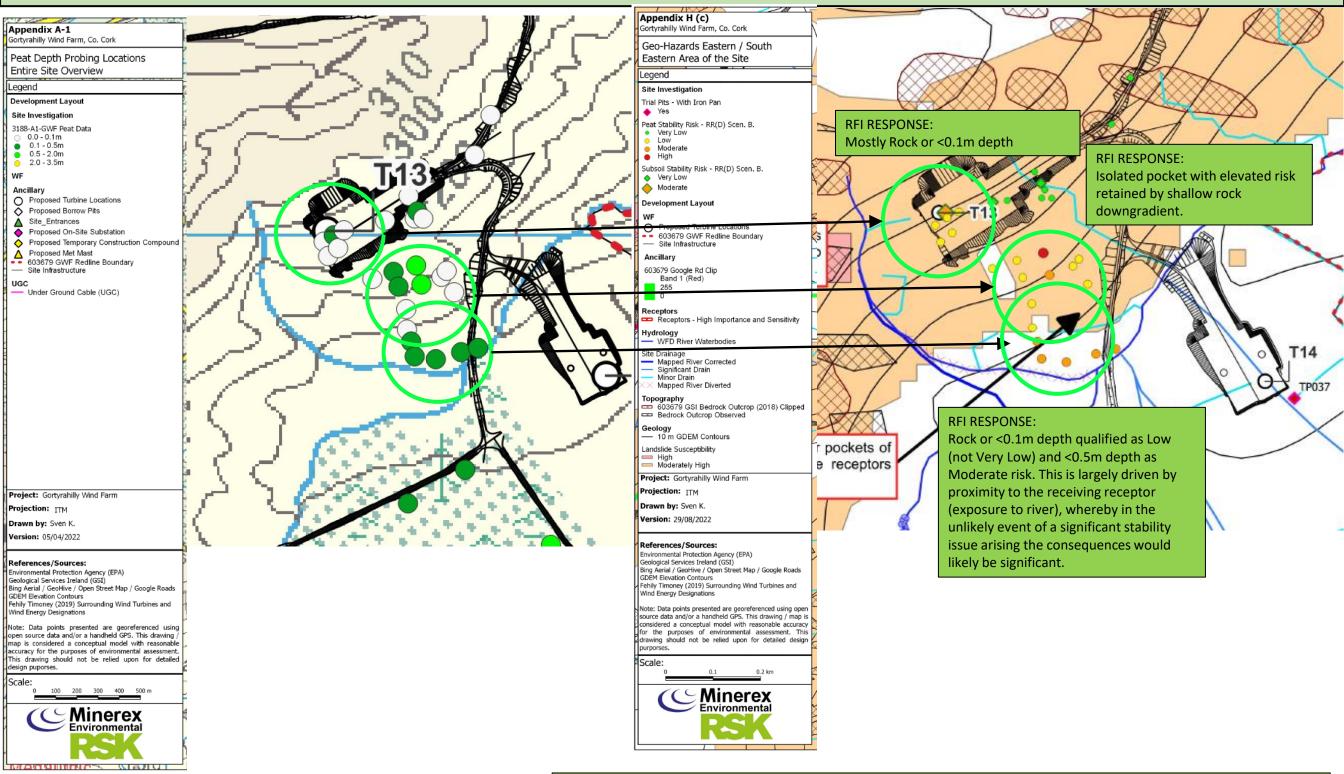
RFI RESPONSE:

Note corresponding Risk Ranking Results (RR(D)). Despite peat depths being generally shallow and with numerous rocky outcrops (0.0m) points recorded, the sampling points present as having Low to High risk. The elevated RR(D) is driven by a range of factors including slope incline and proximity to receptor, and therefore, the overall risk of a significant landslide event occurring is low, and residual localized risk will be mitigated through a broad suite of measures.

Subject: Clarifying Stability Risk Assessment Results and Interpretation – T13 (Ref. EIAR Chapter 8 – Appendix 8.1 – Appendix A-1 and Appendix H(c)).

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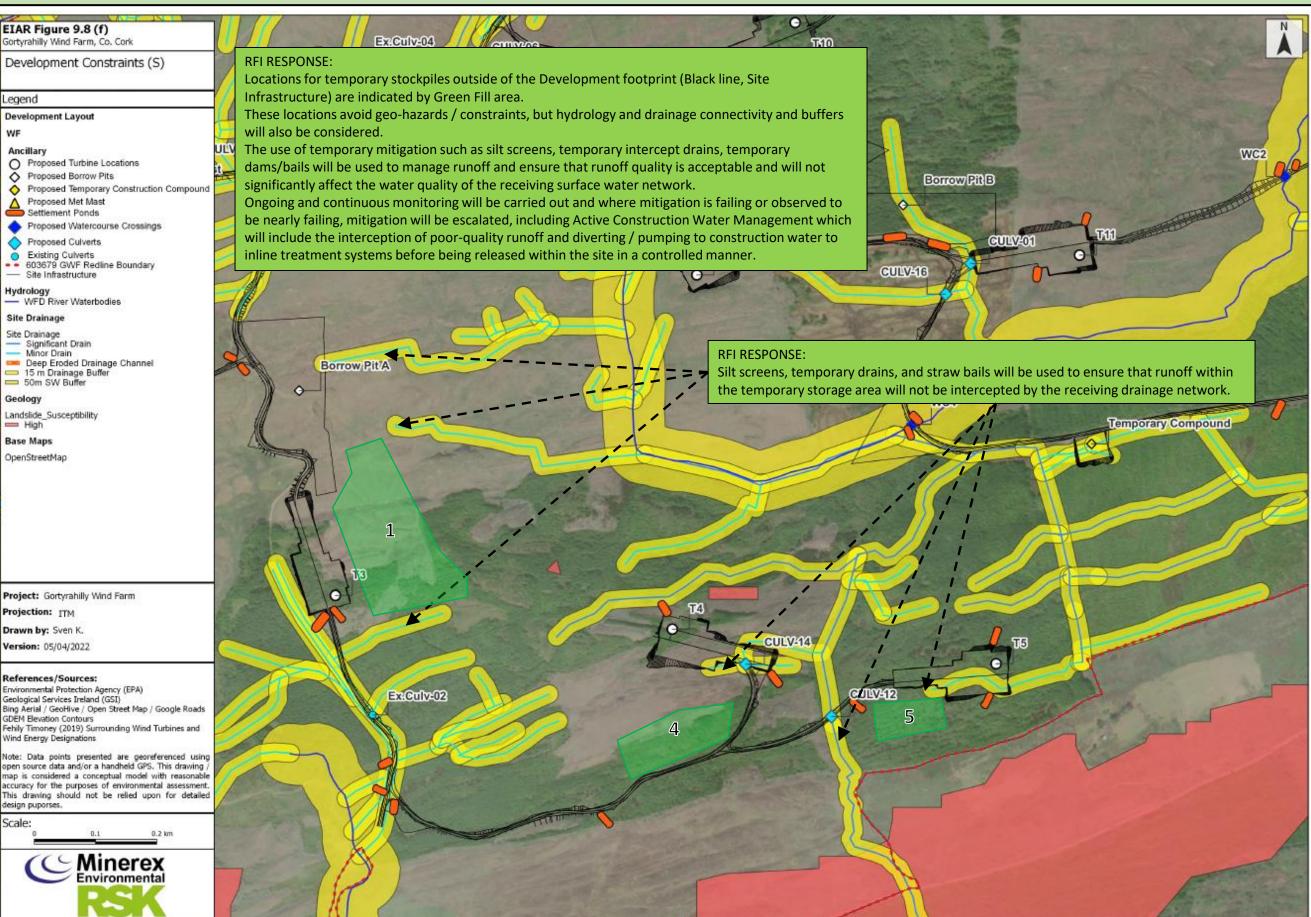
RFI RESPONSE:

Note corresponding Risk Ranking Results (RR(D)). Despite peat depths being generally shallow and with numerous rocky outcrops (0.0m) points recorded, the sampling points present as having Low to High risk. The elevated RR(D) is driven by a range of factors including slope incline and proximity to receptor, and therefore; although site conditions are challenging and localized stability issues will arise during construction works, the overall risk of a significant landslide event occurring is generally low, and residual localized risk will be mitigated through a broad suite of measures.

Subject: Suitable Locations for Temporary Stockpiles (Annotated, Ref. EIAR Chapter 9 – Figure 9.8(f) Development Constraints (S))

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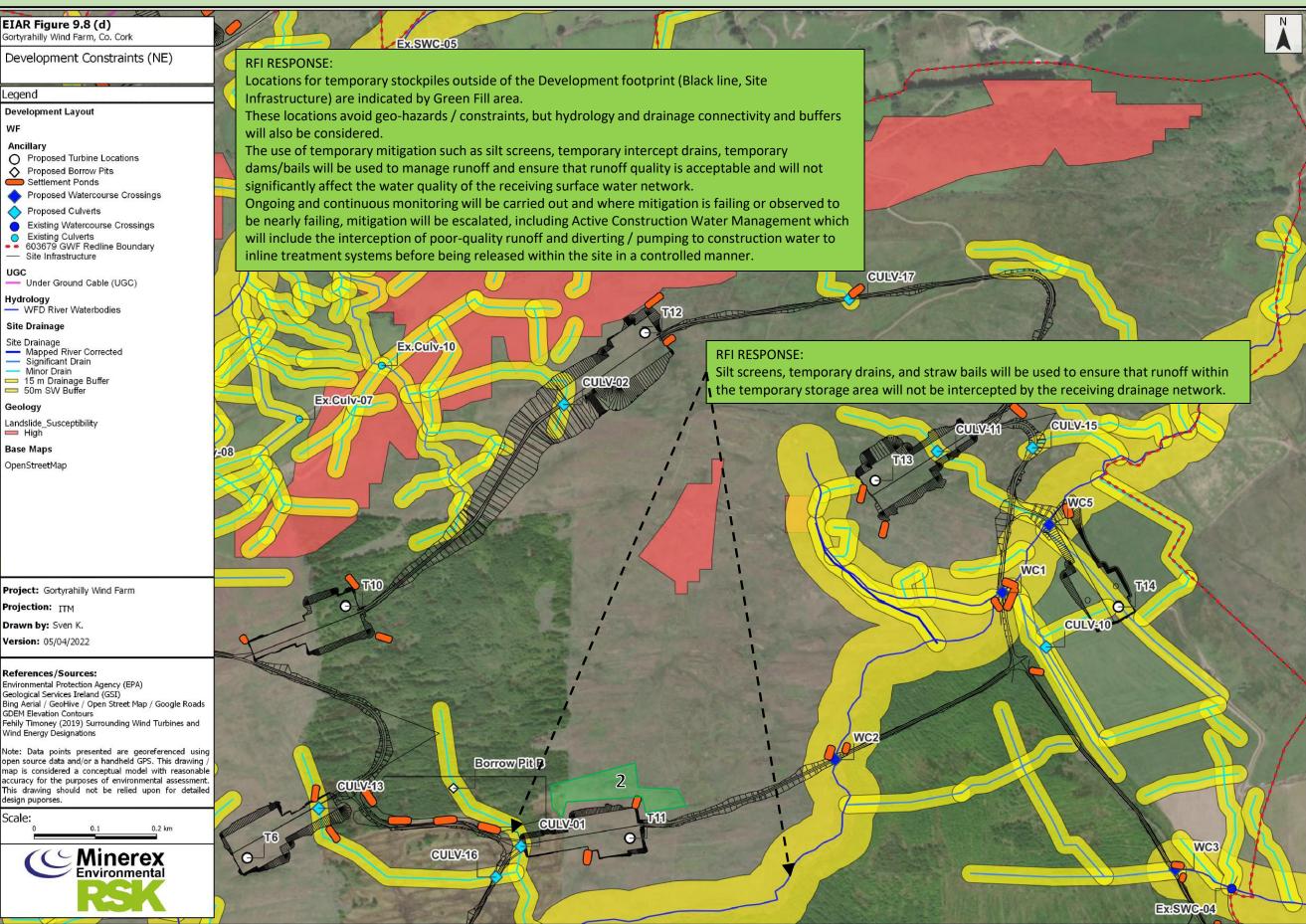




Subject: Suitable Locations for Temporary Stockpiles (Annotated, Ref. EIAR Chapter 9 – Figure 9.8(d) Development Constraints (NE))

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Subject: Suitable Locations for Temporary Stockpiles (Annotated, Ref. EIAR Chapter 9 - Figure 9.8(c) Development Constraints (NW))

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EIAR Figure 9.8 (c)

Gortyrahilly Wind Farm, Co. Cork

Development Constraints (NW)

Development Layout

WF

Ancillary

Proposed Turbine Locations

Proposed Borrow Pits

Site Entrances

Proposed On-Site Substation

Proposed Met Mast Settlement Ponds

Proposed Culverts

Existing Watercourse Crossings **Existing Culverts**

603679 GWF Redline Boundary Site Infrastructure

UGC

Under Ground Cable (UGC)

Hydrology

WFD River Waterbodies

Site Drainage

Site Drainage
— Significant Drain

Minor Drain Deep Eroded Drainage Channel 15 m Drainage Buffer
 50m SW Buffer

Landslide_Susceptibility High

Base Maps

OpenStreetMap

Project: Gortyrahilly Wind Farm

Projection: ITM Drawn by: Sven K. Version: 05/04/2022

References/Sources:

Environmental Protection Agency (EPA)

Geological Services Ireland (GSI) Bing Aerial / GeoHive / Open Street Map / Google Roads

GDEM Elevation Contours

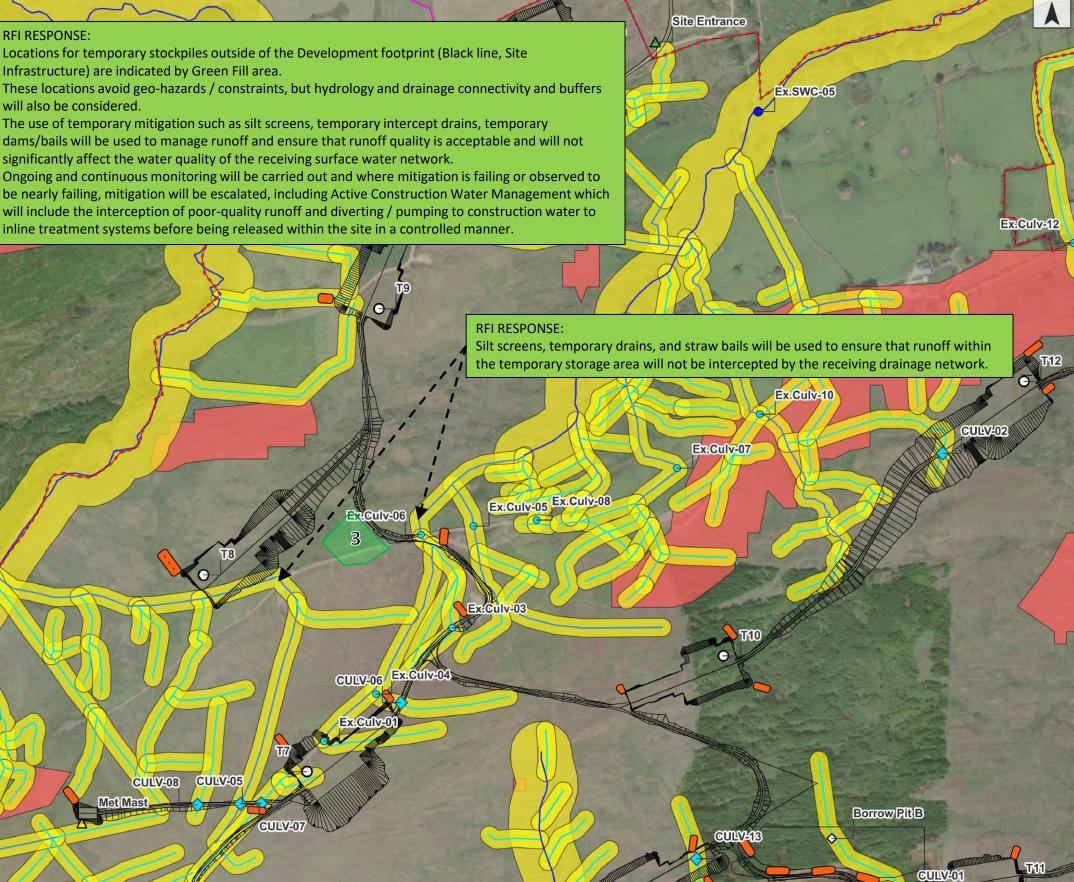
Fehily Timoney (2019) Surrounding Wind Turbines and Wind Energy Designations

Note: Data points presented are georeferenced using open source data and/or a handheld GPS. This drawing nap is considered a conceptual model with reasonable accuracy for the purposes of environmental assessment. This drawing should not be relied upon for detailed

design puporses.



Ongoing and continuous monitoring will be carried out and where mitigation is failing or observed to be nearly failing, mitigation will be escalated, including Active Construction Water Management which will include the interception of poor-quality runoff and diverting / pumping to construction water to



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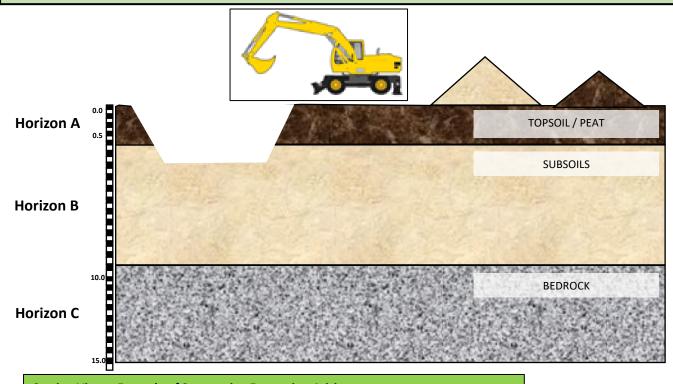


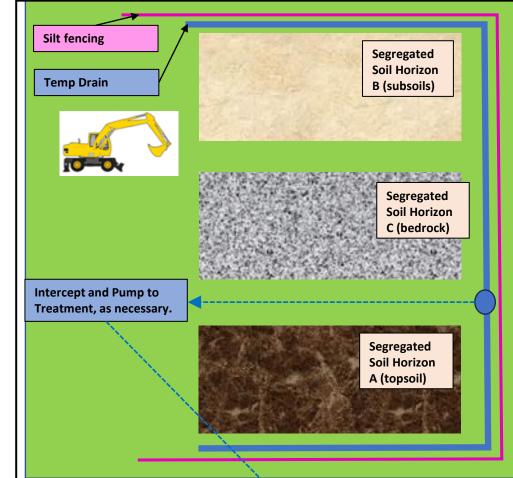
Surface

Water or Drainage

Buffer Zone

Surface Water or Drain





Section View – Example of Segregating Excavation Arisings

- The three principal materials excavated in order of depth will include topsoil at the surface, subsoils, and weathered and broken bedrock (Horizons A-C, respectfully).
- On receipt of consent, a geotechnical site investigation will be undertaken, including trial pitting to obtain higher resolution data on soil stratigraphy and soil types.
- A suitably qualified geotechnical / soil scientist will supervise all excavation and the principal material types (topsoil, subsoil and bedrock) will be segregated as they arise.
- Temporary storage locations and stockpiled arisings will be managed in such a way that as to not mix induvial soils types which will, in turn will facilitate reuse on Site. Some measures which will be taken include;
 - Designated areas for each type of material which will be adequately sized based on Material Balance Assessment calculations and planned storage height.
 - Incorporating the planned movement of materials for example; Topsoil will be the first material to be excavated and the last to be used in reinstatement.
 - Adequate space between stockpiles to reduce the potential of mixing when material is being deposited or removed, or if localized stability issues arise for example; stockpile collapse.
 - It is also important to mitigate against the entrainment of solids in runoff (EIAR Chapter 9 Hydrology & hydrogeology).
- In order to reduce the amount of arisings to be managed or stored at any one time
 during the construction phase, a Materials Balance Assessment and Materials
 Management Plan will be developed with a view to identifying suitable locations for
 permanent reinstatement as early as possible, for example; as the construction phase
 progresses, opportunities to move arisings to a permanent reinstatement area in one
 movement will be taken as often as possible.
- Backfilling in layers will be carried out at the designated reinstatement locations, this will include; use of material as fill under infrastructure, backfill around newly installed infrastructure e.g. foundations, and potentially in improvement areas.
- Infilling with material in identified soil horizons to revert these areas to baseline levels.

Plan View – Example of Mitigating Temp Storage Area

- All stockpiles will be covered with high-grade polythene sheeting to prevent run-off of rainwater and leaching of potential contaminants from the stockpiled material generation and/or the generation of dust.
- Recovered material destined for reuse off site will comply with Article 27 or Article 28 of the EPA to be classified as a byproduct or as end-of-life waste, or Certificate of Registration for topsoil.
- Excess soils which cannot be reused will be tested and classified as a waste and disposed of appropriately. This is not envisaged on this site i.e. all arisings will be reused.
- Temporary stockpiles will avoid areas on Site near artificial drainage channels(outside designated surface water buffer zones and will adhere to mitigation measures outline in EIAR Chapter 9 Hydrology and Hydrogeology, in particular in dealing with entrainment of soils in surface water runoff.



Example of Treatment Tank.

See EIAR Appendix 9.5 for further detail on

Construction Water Management including treatment train and considerations for controlled release.

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