



APPENDIX 4-5

HARVEST MANAGEMENT PLAN

Meenbog wind Farm Harvest Management Plan

Proposed Felling & Reforestation Methods	
Thinning (incl. CCF)	☒ N/A ☐ Harvester ☐ Chainsaw ☐ Forwarder ☐ Tractor/Quad ☐ Skyline ☐ Other (specify):
Clear-felling	☐ N/A ☒ Harvester ☒ Chainsaw ☒ Forwarder ☐ Tractor/Quad ☐ Skyline ☐ Other (specify):
Reforestation	☐ N/A ☐ Windrowing ☒ Pit planting ☐ Mounding ☐ Scrap mounding ☐ Scarification ☐ Other (specify):
Site access (i.e. via forest road)	☒ Present ☐ Planned ☐ Not required ☐ Other (e.g. temporary roading/forest track):

Social & Environmental Features & Considerations		
Social	Habitat & Biodiversity	Soil & Water
☐ Recreational usage	☒ Designated area (SAC, SPA, etc.)	☒ Aquatic zone(s) on/adjoining site
☐ Adjoining dwelling(s)	☒ Broadleaves/diverse conifers	☒ Relevant watercourse(s)
☒ Right(s)-of-way present	☐ Hedgerows	☐ Water-related 'hotspots'
☐ Utilities (power lines/water main)	☐ Old/veteran trees	☐ Water abstraction point
☐ Sensitive landscape	☐ Large scale deadwood	☒ Peaty or peaty/gley
☐ Important viewpoint(s)	☐ Badger sett, rookery, etc.	☐ Steep slope(s)
☐ Archaeological site(s) & feature(s)	☐ Protected fauna	☐ Water setback(s) present & intact
☐ Cultural feature(s)	☐ Protected flora	☐ Supply of brash limited
☐ Anti-social (dumping, fire, etc.)	☒ Wetland habitat	☐ Other:
☐ Other (specify):	☐ Other (specify):	☐ Other:

Proposed Measures to Protect Social & Environmental Features & Considerations	
☐ Consult with local residents	☐ Establish excl. zones around arch. sites/features
☒ Erect safety signage	☒ Temporary bridging points (TBPs) required
☒ Onsite briefing of all operators, pre-commencement	☒ Install water setback at refor.
☒ Carefully selected refuelling/repair/storage depot	☐ Install dwelling setback at refor.
☒ Measures to protect right(s)-of-way	☐ Install public road setback at refor.
☐ Measures to protect service features	☐ Install archaeological setback at refor.
☒ Measures to protect habitats & biodiversity features	☐ Install biodiversity setback at refor.
☒ Limit operations to dry weather	☐ Install landscape setback at refor.
☒ Daily visual monitoring of ground conditions	☐ Inclusion of Refor. Objective 'CCF'
☒ Daily visual monitoring of water	☐ Inclusion of Refor. Objective 'BIO'

Proposed Measures to Protect Social & Environmental Features & Considerations (Cont..)

☒ Water sampling	☐ Forest edge planting
☒ Install silt traps/barriers	☐ Environmental setback planting
☒ Drain blocking/slow-water dams	☐ Other (specify)
☒ Utilise brush mats along extraction routes	☐ Other (specify)
☒ Exclude machinery in areas adjoining aquatic zones, water abstraction points & water-related 'hotspots'	☐ Other (specify)

Ancillary Information (include relevant information to expand on above & to detail important aspects such as the sequencing of operations, the width of environmental setbacks & contingency planning. Ensure accurate cross-referencing and consistency with maps) *

Harvesting and Extraction

Harvesting and extraction will be carried out during suitable dry weather conditions to minimise soil compaction and track rutting. All operations will be suspended during periods of prolonged or heavy rainfall to reduce the risk of sediment mobilisation and surface runoff.

Proposed machinery will comprise a harvester and a low-ground pressure forwarder with a 14-tonne bunk capacity. Prior to the commencement of felling operations, all operators will be fully briefed on the Harvest Management Plan, including operational procedures, potential hazards, environmental sensitivities, and the associated protection measures to be implemented on site. Advance notice and safety signage will be erected prior to harvesting, and harvest boundaries will be clearly marked before operations begin.

Felling will be undertaken from existing access where possible using the reach of the harvester to avoid crossings. If crossing of a watercourse is required to safely complete operations, temporary bridging or other appropriate crossing measures will be installed. Brush mats will be used along all extraction routes to minimise ground disturbance, with corduroy rafts deployed where required to reinforce short sections of soft ground subject to higher traffic levels. Extraction routes are illustrated by red arrows on the Harvest Plan Maps. Felled timber will be stacked in a controlled manner to prevent contamination of watercourses with organic-rich leachate from cut material. Refuelling and maintenance of machinery will take place on dry, stable ground at least 50 m from aquatic zones and at least 20 m from relevant watercourses.

Sediment traps will be installed at strategic locations before harvesting commences and will be monitored and maintained throughout felling, extraction, and periodically thereafter until the site stabilises. Existing drains will be incorporated and enhanced where necessary and will integrate with the wind farm drainage system. Where unmapped drains are identified during harvesting operations, particularly those that connect directly or indirectly to aquatic zones or watercourses, appropriate mitigation measures will be implemented immediately. This will include the installation of temporary sediment traps, silt fencing, or equivalent control measures at or downstream of the point of discovery, to prevent sediment mobilisation and transport to aquatic receptors. Protective buffers will be maintained around aquatic zones (20 m, 10 m either side) and relevant watercourses (10 m, 5 m either side). Machine traffic and timber stacking will be avoided within these areas wherever possible. Trees within reach of the harvester will be felled and processed outside the buffer, while trees beyond reach will be felled manually or removed safely using the extended harvester arm. All such operations will be undertaken with particular care to minimise disturbance to soil surfaces and to prevent brush, timber, or debris from entering aquatic zones or watercourses, including those

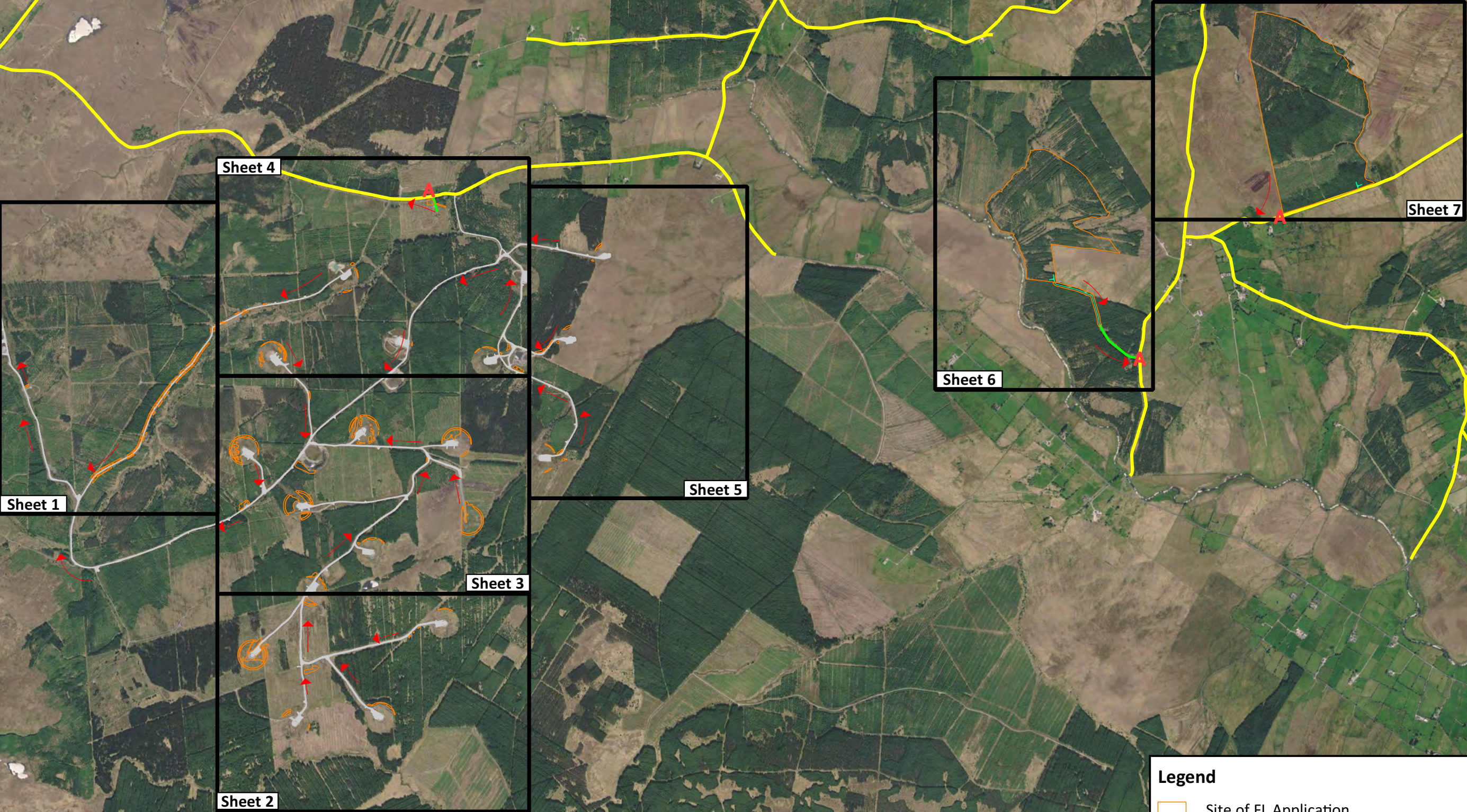
associated with the adjacent designated conservation site. Any accidental deposition of material within these areas will be removed promptly.

On-site supervision will be present during operations to ensure that felling and extraction are carried out appropriately and that water protection measures are adequate and remain effective throughout, and to trigger contingency measures, if necessary (e.g., to cease operations if rainfall creates a risk of sediment mobilisation and runoff). All staff must always wear high-visibility jackets and hard hats. All personnel on site must have appropriate Health and Safety training. All felling and harvesting operations to comply with the Forest Harvesting and the Environment Guidelines and Forestry and Water Quality Guidelines.

Site Access

Timber from the harvesting areas will be extracted using existing wind farm roads, forest roads, and adjacent public roads, connecting to the N15, L-6554, L-2974, and L-65242, respectively. All timber haulage will then continue along the established public road network to designated timber destinations.

Harvest Management Plan Overview
Meenbog Wind Farm



Sheet:Overview
Scale: 26,000@A3

Source: Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, Aerogrid, IGN, IGP, and the GIS User Community

Legend

Site of FL Application

Public Road

Wind Farm Access Road & Hardstands

Existing Forestry Track

Proposed New Forestry Track

Timber Extraction Direction

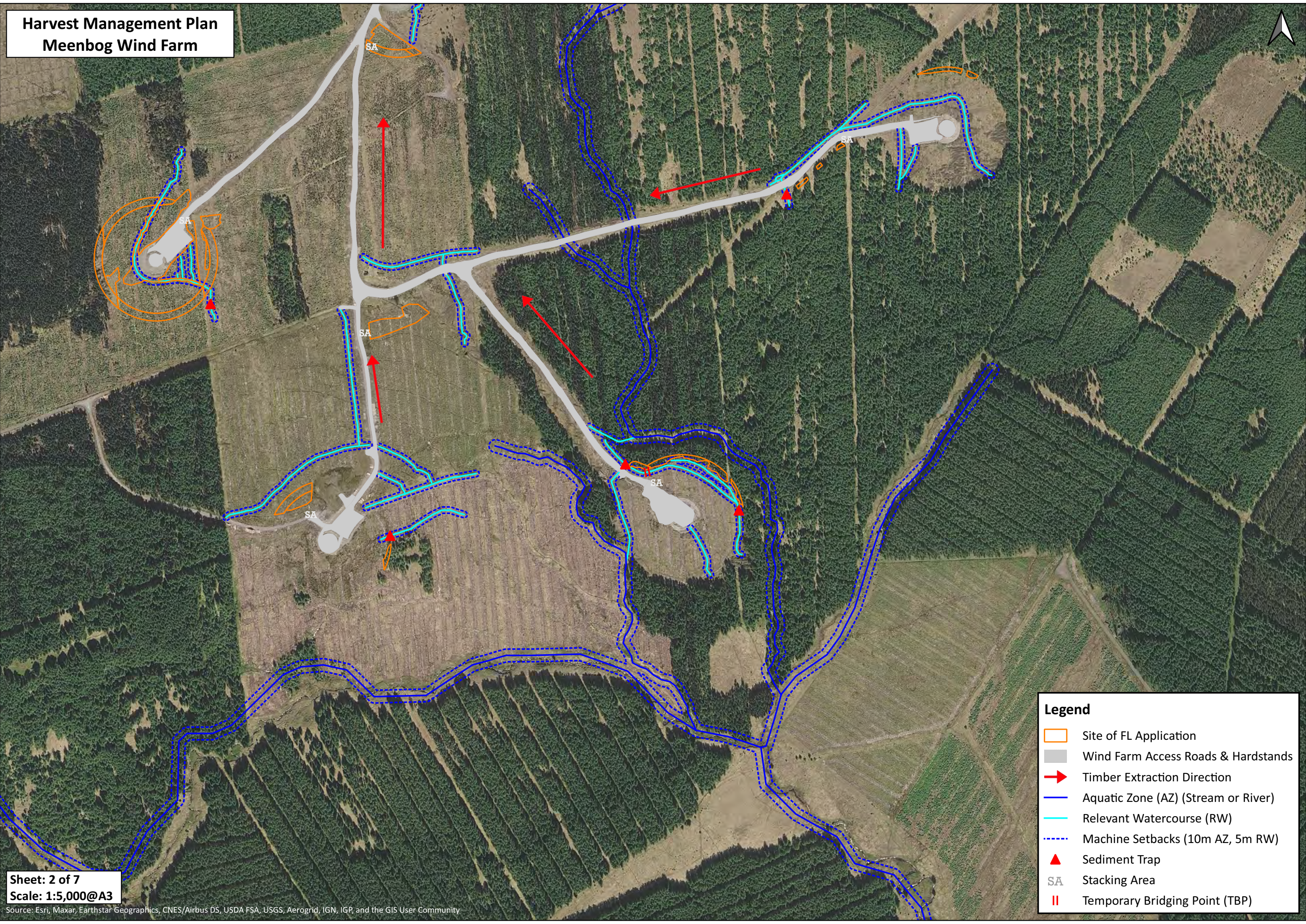
Site Access Point

Harvest Management Plan
Meenbog Wind Farm

Legend

- Site of FL Application
- Wind Farm Access Roads & Hardstands
- Timber Extraction Direction
- Aquatic Zone (AZ) (Stream or River)
- Relevant Watercourse (RW)
- Machine Setbacks (10m AZ, 5m RW)
- Sediment Trap
- SA Stacking Area

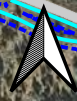
Harvest Management Plan
Meenbog Wind Farm



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- Sediment Trap
- Stacking Area
- Temporary Bridging Point (TBP)

Harvest Management Plan
Meenbog Wind Farm



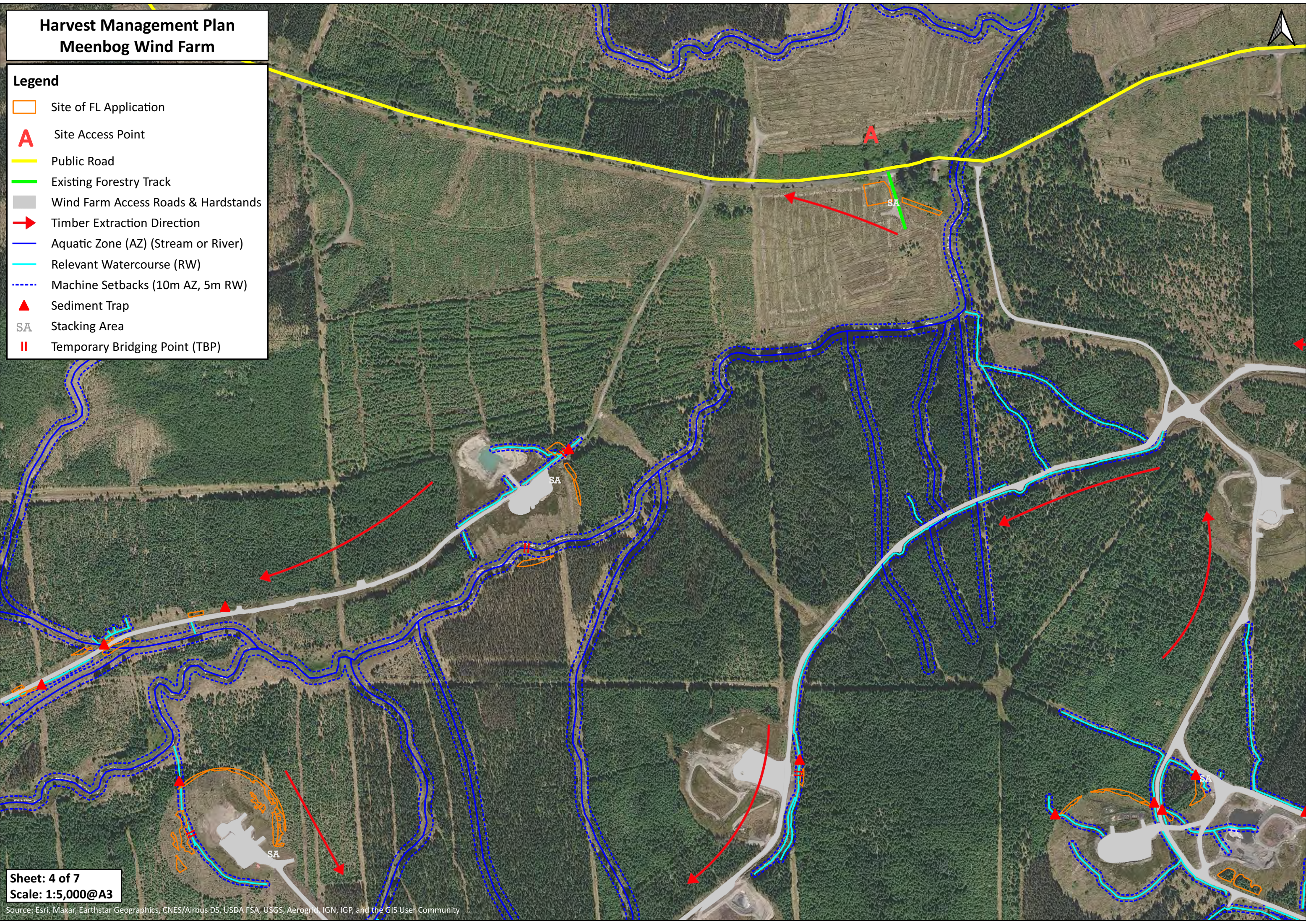
Legend

- Site of FL Application
- Wind Farm Access Roads & Hardstands
- Timber Extraction Direction
- Aquatic Zone (AZ) (Stream or River)
- Relevant Watercourse (RW)
- Machine Setbacks (10m AZ, 5m RW)
- Sediment Trap
- SA Stacking Area
- Site Compound/ Fuel Storage
- Temporary Bridging Point (TBP)

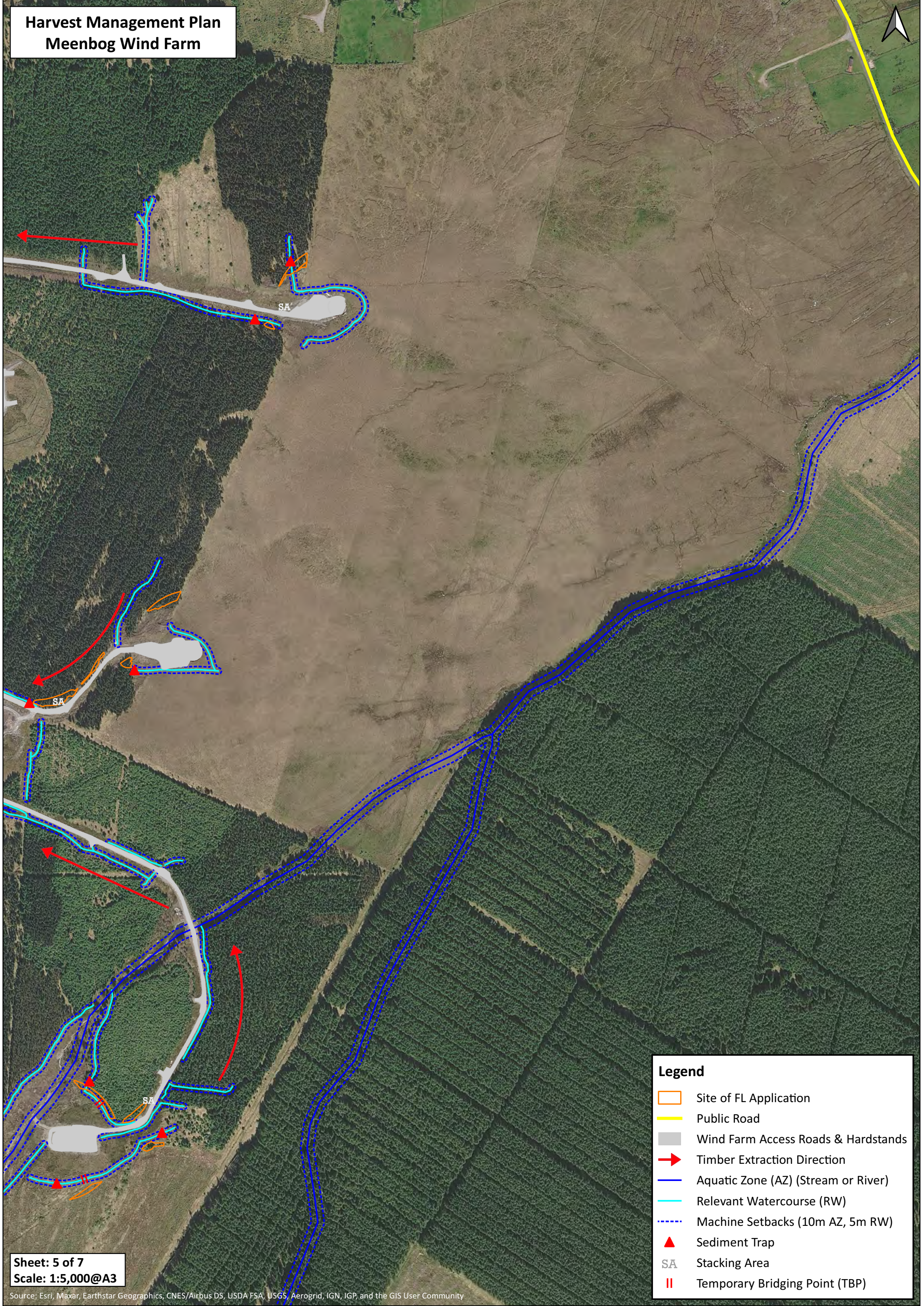
**Harvest Management Plan
Meenbog Wind Farm**

Legend

- Site of FL Application
- Site Access Point
- Public Road
- Existing Forestry Track
- Wind Farm Access Roads & Hardstands
- Timber Extraction Direction
- Aquatic Zone (AZ) (Stream or River)
- Relevant Watercourse (RW)
- Machine Setbacks (10m AZ, 5m RW)
- Sediment Trap
- SA Stacking Area
- Temporary Bridging Point (TBP)



Harvest Management Plan
Meenbog Wind Farm



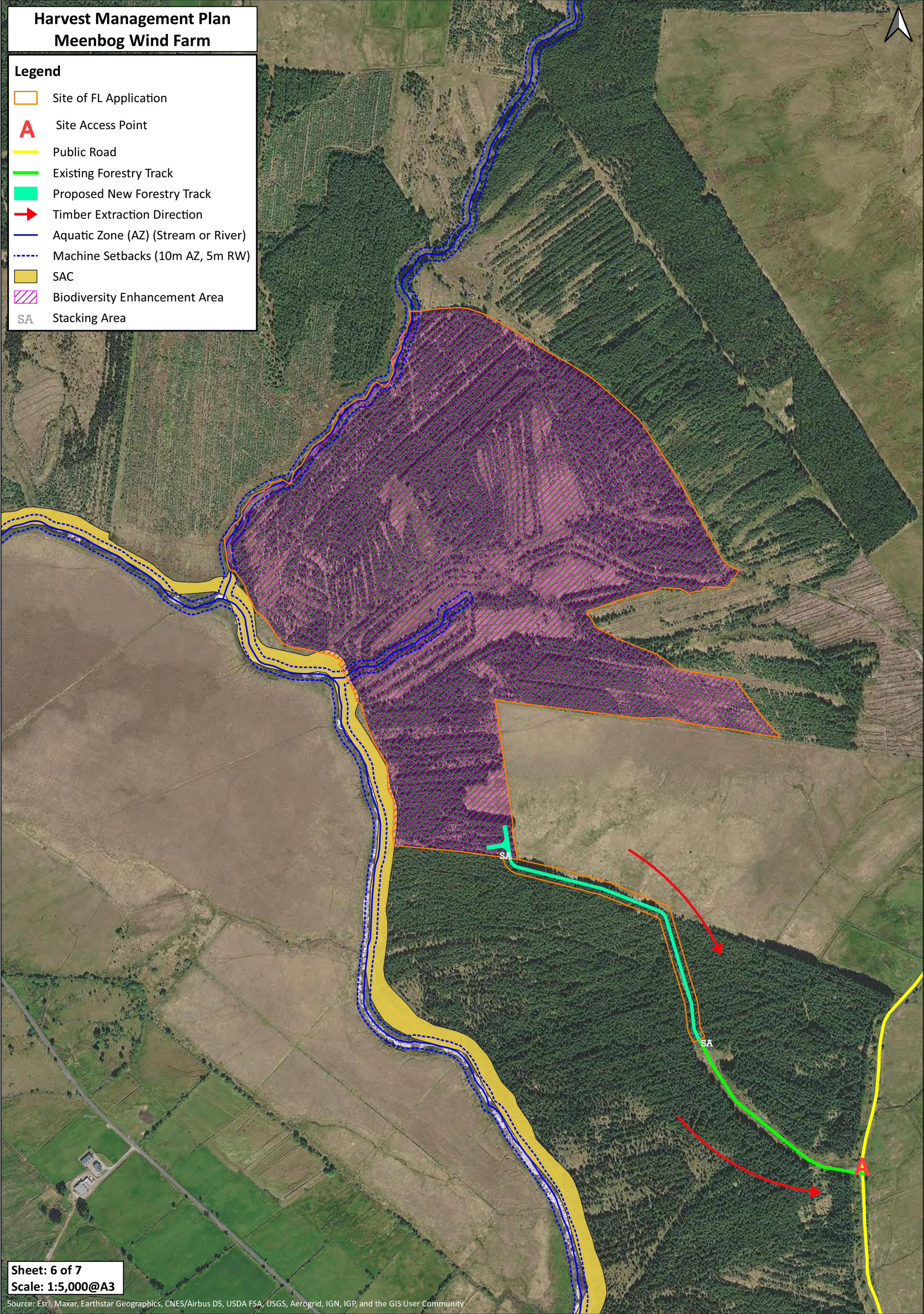
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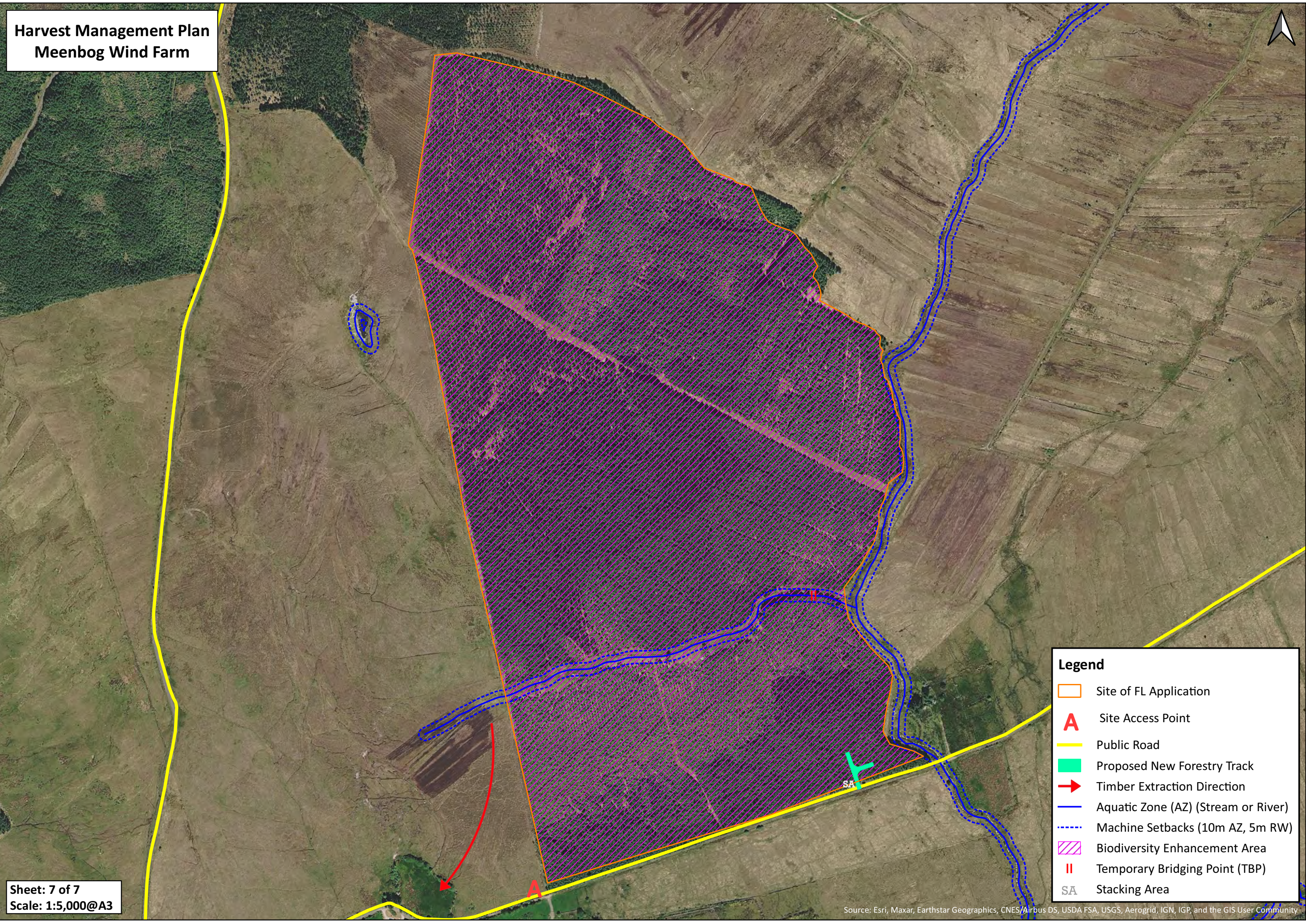
Harvest Management Plan
Meenbog Wind Farm

Legend

- Site of FL Application
- Site Access Point
- Public Road
- Existing Forestry Track
- Proposed New Forestry Track
- Timber Extraction Direction
- Aquatic Zone (AZ) (Stream or River)
- Machine Setbacks (10m AZ, 5m RW)
- SAC
- Biodiversity Enhancement Area
- SA Stacking Area



Harvest Management Plan
Meenbog Wind Farm



Legend

- Site of FL Application
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- Public Road
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- Timber Extraction Direction
- Aquatic Zone (AZ) (Stream or River)
- Machine Setbacks (10m AZ, 5m RW)
- Biodiversity Enhancement Area
- Temporary Bridging Point (TBP)
- Stacking Area

Source: Esri, Maxar, Earthstar Geographics, CNES/Airbus DS, USDA FSA, USGS, Aerogrid, IGN, IGP, and the GIS User Community.