Technical Appendix 3.2: Arboricultural Impact Assessment

Novar 1 Wind Farm Repowering - Access

Technical Appendix 3.2: Arboricultural Impact Assessment

September 2026

Version	Date	Author	Checked	Approved
1	28/04/2026	NMcK		

Contents

1.0 Introduction **1**
Instruction 1
Scope of Report 1
2.0 Baseline Arboricultural Resource **2**
Baseline Data Collection 2
Arboricultural Study Area and Survey Boundary 2
Desk-Based Study 2
Tree Survey 2
Tree Health 4
3.0 Summary of Assessment **5**
Potential Arboricultural Impacts 5
Root Protection Areas (RPAs) 6
Tree Protection 6
Construction exclusion zone 6
Tree protection fencing 7
4.0 References **9**

Annexes

Annex A Tree Survey Schedule

Figure 3.2.1 Arboricultural Survey Area
Figure 3.2.2 Tree Protection Plan

1.0 Introduction

Instruction

1.1 Mckayforestry have been instructed by Ramboll to provide an Arboricultural Impact Assessment prepared in accordance with the British Standard (BS) 5837:2012 *Trees in relation to design, demolition and construction-recomendations*[1], supported by a Schedule of Trees and Figures.

Scope of Report

1.2 This report has been prepared to identify trees which may be impacted by the access requirements to facilitate the delivery of components for the Novar 1 Wind Farm Repowering project. The swept path analysis (SWA) takes account of the overrun and oversail of the oversized components.

1.3 This report relates solely to the existing forest and wind farm Access Route and SWA. The Access Route leaves the B817 at Ordnance Survey (OS) grid reference NH 614 668, north east of Evanton, to where the route leaves the forest at grid reference NH 566 686 near Auchenagaul. The area within the Site boundary, as shown on **Annex: Figure 3.2.1**, is referred to in this document as the 'Site'.

1.4 Data used to describe the baseline resource has been collected by a competent and suitably experienced forestry consultant, the scope of which has been determined with reference to BS 5837:2012.

1 BSI (2012) BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations. Available at https://knowledge.bsigroup.com/products/trees-in-relation-to-design-demolition-and-construction-recommendations?version=standard Accessed on 31/03/2026

2.0 Baseline Arboricultural Resource

Baseline Data Collection

2.1 Baseline data has been obtained through the completion of a desk-based study and survey of trees.

Arboricultural Study Area and Survey Boundary

2.2 The Study Area is defined on **Figure 3.2.1 Overview** and maps 2 to 10.

Desk-Based Study

2.3 The desk study has reviewed the Ancient Woodland Inventory (AWI) open data[2], Native Woodland Survey of Scotland[3] (NWSS), Sites of Special Scientific Interest[4] (SSSI), National Forest Inventory (NFI)[5] and Scottish Forestry Map Viewer[6] and referred to in this report and figures.

2.4 The desk study also reviewed the Highland Council Open Map Data[7] for Tree Preservation Orders (TPO) within the Study Area.

Tree Survey

2.5 The walkover tree survey was undertaken on 23rd March 2026 by Craig MacDonald, BSc (Forestry Consultant).

2.6 The survey was undertaken using the Visual Tree Assessment (VTA) methodology to conduct a preliminary assessment of the above-ground portion of the tree. The aspects of the survey include:

- The survey was undertaken from ground level.
- No aerial inspection nor invasive probing or drilling has been undertaken.
- No excavations were conducted nor soil or root samples taken.
- The height of each subject tree was estimated using a handheld clinometer.
- The diameter at breast height (DBH) was measured with a forestry girth tape.
- The locations of the trees have been recorded by GPS and mapped.

2.7 The results of the tree survey are presented in **Annex A: Schedule of Trees,** and **Figure 3.2.1.**

2 NatureScot Ancient Woodland Inventory available on line at https://opendata.nature.scot/datasets/snh::ancient-woodland-inventory/explore?location=56.645470%2C-4.307542%2C7 [Accessed 28/04/2026]

3 Scottish Forestry Native Woodland Survey of Scotland Available https://www.forestry.gov.scot/native-woodland-survey-scotland-data-explorer [Accessed 28/04/2026]

4 NatureScot Sites of Special Scientific Interest Available at https://www.nature.scot/professional-advice/protected-areas-and-species/protected-areas/national-designations/sites-special-scientific-interest-sssis [Accessed 28/04/2026]

5 Forest Research National Forest Inventory. Available at https://www.forestresearch.gov.uk/tools-and-resources/national-forest-inventory/ [Accessed 28/04/2026]

6 Scottish Forestry Map Viewer available on line at https://www.forestry.gov.scot/scottish-forestry-map-viewer [Accessed 28/04/2026]

7 The Highland Council Tree Preservation Orders available on line at https://map-highland.opendata.arcgis.com/datasets/3062369fd7ba484288502c24dd112cc3_0/explore?location=57.621467%2C-5.091366%2C8 [Accessed 28/04/2026]

Setting

2.8 The Access Route is through the Novar Estate forest, a well-established primarily mixed species coniferous forest.

The Site

2.9 The Site is a current well used Access Route. The age range of the adjacent compartments is from 1900 to 2010 with a range of mainly non-native productive conifer species. AWI list areas as Long-Established (of plantation origin) LEPO1860, antiquity 2b. NWSS list areas of native woodland, upland birchwood and native pinewood. There are no TPOs within the survey area.

2.10 94 no. live trees were surveyed on Site as **Table 1** by species.

Table 1: Trees Surveyed by Species

Species	***No.***
Alder	1
Beech	1
Birch	21
Douglas Fir	20
Larch	6
Maple	3
Oak	1
Scots Pine	10
Sitka Spruce	21
Sycamore	2
Western Hemlock	4
Western Red Cedar	1
Willow	3
Total	94

2.11 The trees have been categorised according to BS 5837:2012 as **Table 2**. Of note one veteran oak category A (T24) was recorded as well as six veteran pine category B (T2 (T79, T80, T81, T84 and T86). One Larch (T1) was also category B.

Table 2: Trees Surveyed by BS 5837:2012 Category

Species	***No.***
A	1
B	7
C	79
D	7
Total	94

Tree Health

2.12 The living trees are considered to be in good condition and generally disease free.

3.0 Summary of Assessment

Potential Arboricultural Impacts

Tree retention or removals

3.1 The trees identified are within the oversail and overrun areas of the swept path analysis and are required to be felled. The summary from the Annex A is that with careful design of the Access Route no category A or B trees to be felled. The design considering oversail and overrun has enabled the retention of the ancient oak and veteran pine trees.

3.2 However, with the requirement for a small buffer beyond the oversail and overrun areas to account for unexpected constraints that could be encountered during the construction process, a further ten trees are identified within this zone which include three category B veteran pine trees.

3.3 Of the 94 trees identified along the Access Route the worse-case is that some 75 trees are to be removed and 19 to be retained.

3.4 Trees have been categorised according to the British Standard **Annex C: Baseline Data Collection to BS 5837:2012**

3.5 The trees categorised as **Category A and B** were considered to be of **significant** or **material conservation value.** The remaining **Category C** are **unremarkable trees, t**rees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value and of no significant conservation value.

3.6 The inclusion of the Category A veteran oak, and Category B veteran pine would increase the significance of the tree removal for the Access Route improvements. National Planning Framework 4 (NPF4)[8] states that development proposals should not be supported where they would result in any loss of ancient woodlands, ancient and veteran trees, or adverse impact on their ecological condition. This is also emphasised in The Highland Council's supplementary Guidance, Trees, Woodlands and Development[9] which states individual trees, especially veteran trees, may also have significant biodiversity value and make a significant contribution to landscape character and quality so should be protected from adverse impacts resulting from development.

3.7 Design has specifically enabled the retention of the Category A and B trees. Veteran pines T79 to 81 may require some branch trimming to enable the oversail safely.

[8]National Planning Framework 4 (NPF4). Available at https://www.gov.scot/publications/national-planning-framework-4/ [Accessed 17/08/2026]

[9] The Highland Council, Trees, Woodlands & Development. Available at https://www.highland.gov.uk/downloads/file/1877/trees-woodlands-and-development-supplementary-guidance. [Accessed 17/08/2026]

Novar 1 Wind Farm Repowering - Access
Arboricultural Impact Assessment
September 2026

Root Protection Areas (RPAs)

3.8 The encroachment of construction activities into the RPA of a retained tree can be damaging. Damage may occur as the result of soil compaction, soil disturbance due to excavation, a permanent loss of rooting environment, and the direct severance of tree roots.

3.9 However, in this instance where tree removal is predominantly for oversail no RPA is deemed necessary.

3.10 Where trees to be retained are in proximity to the existing Access Route extent the following Tree Protection methods are to be followed. See Figures 3.2.2.1-3.2.2.11 for the recommended Tree Protection Locations.

Tree Protection

3.11 BS 5837:2012 provides a range of potential arboricultural mitigation measures that can be used to reduce impacts. The use of these measures is specified wherever reasonably practicable and, in any instance, where measurable benefits are likely to accrue. Mitigation is likely to include appropriate standoff distances between trees and construction activities, the use of tree protection fencing in instances where construction is in proximity to trees, and the supervision of work which has the potential to damage roots, stems or branches.

3.12 The remediation of adverse arboricultural impacts can generally only be achieved through the establishment of new, or replacement trees. Remediation is specified in accordance with all relevant planning policy requirements.

Construction exclusion zone

3.13 A construction exclusion zone (CEZ) will be defined based on the RPAs of all retained trees. The CEZ shall be an area within which all construction activities are prohibited throughout the construction period.

3.14 The default method of excluding access to the CEZ shall be through the installation of tree protection fencing. However, if access within the CEZ cannot be avoided then this may be facilitated through the installation of suitable ground protection subject to approval from the Project Arboriculturist. The CEZ is an arboriculturally sensitive area within which the following activities are prohibited:

- The lowering or raising of soil levels.
- Any form of excavation (whether mechanical of using hand tools).
- The storage of plant or materials.
- The storage, handling, or disposal of any chemical (including cement washings).
- Vehicular access.
- Fires or other means of waste disposal.

Tree protection fencing

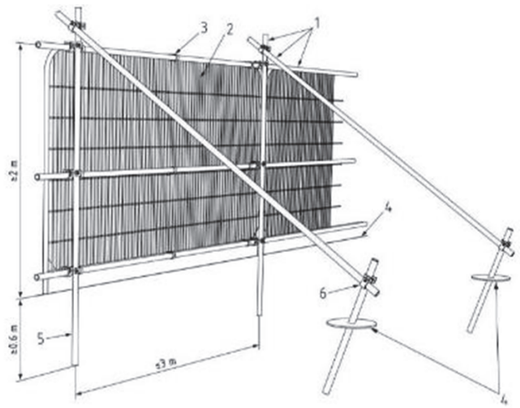
3.15 Tree protection fencing shall be erected to create a vertical barrier which prevents damage occurring to retained trees. It shall be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees.

3.16 Two types of protective fencing are recommended, a rigid type where earth works are close to remaining trees of importance and a linear net type where the earthworks extent is adjacent to standing timber.

3.17 Tree protection fencing shall be adequately maintained to ensure that it remains complete.

3.18 A recommended specification for the rigid tree protection fencing is provided within BS 5837, an example of which is provided in **Diagram 1**.

3.19 ***Diagram 1: Recommended specification for tree protection fencing***



3.20 ***Key to Diagram 1***

- Standard scaffold poles.
- Heavy gauge 2m tall, galvanised tube and welded mesh infill panels.
- Panels secured to uprights and cross-members with wire ties.
- Ground level.
- Uprights driven into the ground until secure (minimum depth 0.6m).
- Standard scaffold clamps.
- The lowering or raising of soil levels.
- Any form of excavation (whether mechanical of using hand tools).
- The storage of plant or materials.
- The storage, handling, or disposal of any chemical (including cement washings).
- Vehicular access.
- Fires or other means of waste disposal.

Alternative Temporary Barrier Fencing may be suitable within the forest situation



Plate 1 Example Temporary Barrier Fencing



Plate 2 Example Combination of Plastic Barriers and Heras Fencing

4.0 References

BSI (2012) BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations. BSI Standards Limited.

Arboricultural Journal. Field Guide for Visual Tree Assessment methodology (Mattheck, C., Breloer, H, 2012).

Scottish Government, National Planning Framework 4

The Highland Council; Supplementary Guidance: Trees, Woodlands and Development

Annex A: Schedule of Trees

Location; Novar 1 tree Survey **Surveyor Craig McDonald** **Date 23/03/26**

		Coordinate	Coordinate											
Tree No	**Common name**	**X**	**Y**	**Height**	**DBH**	**North - Crown Spread**	**E - Crown Spread**	**S - Crown Spread**	**W - Crown Spread**	**First Significant Branch**	**Life Stage**	**Estimated Remaining years**	**BS5837 CAT**	**Comment**
				>10. 0.5m	**mm**	**m**	**m**	**m**	**m**	**m**		**<10, 10+,20+**	**U, A, B, C, D**	
T1	Larch	57.67274O	-4.329585	20.5	570	7	7	7	7	2m _E	Mature	20+	B	Retain
T2	Scots Pine	57.672778	-4.329768	20.5	1040	2	2	2	2	2m_E	Mature	20+	B	Retain Veteran pine
T3	Alder	57.672824	-4.330056	10	260	5	5	2	2	5m_E	Young mature	20+	C	Fell
T4	Larch	57.672912	-4.330391	18.5	470	5	5	3	3	5m _E	Mature	20+	C	Fell
T5	Sitka Spruce	57.672907	-4.330403	20.5	600	4	4	6	6	2m_S	Mature	20+	C	Fell
T6	Sitka Spruce	57.672918	_4.330468	22.5	700	5	5	7	7	3m_S	Mature	20+	C	Fell
T7	Maple	57.673383	-4.336043	12	530	5	5	2	2	5m _ E	Young mature	20+	C	Fell
T8	Western Hemlock	57.673381	-4.336118	22.5	800	8	8	5	5	8m_E	Mature	20+	C	Fell
T9	Western Hemlock	57.673394	4.336362	22.5	810	8	8	5	5	8m_E	Mature	20+	C	Fell
T10	Maple	57.673406	-4.336378	14.5	530	4	4	3	3	3m_E	Semi-mature	20+	C	Fell
T11	Western Hemlock	57.673377	-4.336387	24	400	3	3	3	3	3m_E	Mature	20+	C	Fell

Location; Novar 1 tree Survey **Surveyor Craig McDonald** **Date 23/03/26**

		Coordinate	Coordinate											
Tree No	**Common name**	**X**	**Y**	**Height**	**DBH**	**North - Crown Spread**	**E - Crown Spread**	**S - Crown Spread**	**W - Crown Spread**	**First Significant Branch**	**Life Stage**	**Estimated Remaining years**	**BS5837 CAT**	**Comment**
T12	Birch	57.673379	-4.336418	11	175	1	1	1	1	6m_E	Semi-mature	20+	C	Fell
T13	Birch	57.673395	-4.336407	10	140	1.5	1.5	1	1	3m_E	Semi-mature	20+	C	Fell
T14	Birch	57.673396	-4.336542	11.5	270	4	4	2	2	2m_E	Semi-mature	20+	C	Fell
T15	Maple	57.673386	-4.336494	10	190	4	4	2	2	1.5m_E	Semi-mature	20+	C	Fell
T16	Birch With Gean	57.673432	-4.336748	11	235	4	4	1	1	4m_E	Semi-mature	20+	C	Fell
T17	Sitka Spruce	57.673397	-4.336682	25	1200	10	10	8	8	2m_E	Mature	20+	C	Fell
T18	Larch	57.673517	-4.336643	21.5	810	3	3	2	2	10m_E	Mature	20+	C	Fell
T19	Larch	57.673555	-4.336883	22	570	6	6	6	6	12m_W	Mature	20+	C	Fell
T20	Sitka Spruce	57.673634	-4.337049	25	820	8	8	10	10	2m_W	Mature	20+	C	Fell
T21	Sitka Spruce	57.673687	-4.337188	25	830	6	6	8	8	0.5m_W	Mature	20+	C	Fell
T22	Douglas Fir	57.676785	-4.341738	24	940	5	5	5	5	12.5m_W	Mature	20+	C	Retain
T23	Douglas Fir	57.676829	-4.341772	12	150	2	2	2	2	0.5m_W	Young mature	20+	C	Retain
T24	Oak	57.676863	-4.341775	12.5	460	4	4	2	2	2.5m_W	Mature	20+	A	Retain Veteran oak
T25	Douglas Fir	57.676953	-4.341879	30	900	3	3	4	4	2m_W	Mature	20+	C	Retain
T26	Western Hemlock	57.676961	-4.34189	24	500	3	3	3	3	0.5m_W	Mature	20+	C	Retain

Location; Novar 1 tree Survey **Surveyor Craig McDonald** **Date 23/03/26**

		Coordinate	Coordinate											
Tree No	**Common name**	**X**	**Y**	**Height**	**DBH**	**North - Crown Spread**	**E - Crown Spread**	**S - Crown Spread**	**W - Crown Spread**	**First Significant Branch**	**Life Stage**	**Estimated Remaining years**	**BS5837 CAT**	**Comment**
T27	Douglas Fir	57.676995	-4.342071	32	1150	10	10	8	8	10m_E	Mature	20+	C	Fell
T28	Douglas Fir	57.677682	-4.343099	30	810	6	6	9	9	3m_W	Mature	20+	C	Fell
T29	Douglas Fir	57.677744	-4.343162	30	830	5	5	6	6	3.5m_W	Mature	20+	C	Fell
T30	Douglas Fir	57.677791	-4.343213	32	1100	6	6	6	6	2.5m_W	Mature	20+	C	Fell
T31	Douglas Fir	57.677855	-4.343281	32	1550	2	2	9	9	4m_W	Mature	20+	C	Fell
T32	Douglas Fir	57.678037	-4.34348	32	1110	2	2	5	5	5m_W	Mature	20+	C	Fell
T33	Sycamore	57.678026	-4.343508	12	200	2	2	2	2	1.8m_W	Semi-Mature	10+	C	Fell
T34	Douglas Fir	57.678052	-4.343526	32	810	2	2	6	6	5m_W	Mature	20+	C	Fell
T35	Birch	57.678059	-4.343541	12	420	1	1	3	3	2m_W	Semi-Mature	10+	C	Fell
T36	Beech	57.678082	-4.343853	12	250	6	6	1	1	0.5m_E	Semi-Mature	10+	C	Fell
T37	Sycamore	57.678106	-4.34393	12	150	3	3	1	1	1m_N	Semi-Mature	10+	C	Fell
T38	Willow	57.678496	-4.345765	5	75	3	3	3	3	1.8m_E	Semi-Mature	10+	D	Fell
T39	Birch	57.678492	-4.345769	12.5	350	1	1	1	1	1m_N	Mature	20+	C	Fell
T40	Birch	57.678503	-4.345784	12	170	1	1	1	1	1m_N	Semi-mature	10+	C	Fell
T41	Birch	57.678509	-4.345821	11	210	4	4	4	4	3m_N	Semi-mature	10+	C	Fell

Location; Novar 1 tree Survey **Surveyor Craig McDonald** **Date 23/03/26**

Tree No	Common name	Coordinate X	Coordinate Y	Height	DBH	North - Crown Spread	E - Crown Spread	S - Crown Spread	W - Crown Spread	First Significant Branch	Life Stage	Estimated Remaining years	BS5837 CAT	Comment
T42	Birch	57.678515	-4.345802	12.5	375	4	4	1	1	4m_N/E	Mature	20+	C	Fell
T43	Birch	57.678513	-4.345855	12.5	300	4	4	1	1	4m_N/E	Mature	20+	C	Fell
T44	Birch	57.678536	-4.345972	13.5	510	4	4	1	1	8m_E	Mature	20+	C	Fell
T45	Birch	57.678561	-4.346012	13	515	4	4	1	1	2m_E	Mature	20+	C	Fell
T46	Birch	57.678576	-4.346004	13	300	2	2	1	1	4m_E	Mature	20+	C	Fell
T47	Birch	57.678595	-4.346042	12.5	170	4	4	4	4	10_E	Mature	20+	D	Fell
T48	Birch	57.6786oo	-4.346079	8	120	1	1	1	1	1m_N	Semi-Mature	10+	D	Fell
T49	Birch	57.67858o	-4.346125	14	210	3	3	3	3	1m_N	Semi-Mature	10+	D	Fell
T50	Birch	57.678605	-4.346237	14	600	4	4	4	4	2m_E	Mature	20+	D	Fell
T51	Willow	57.678618	-4.346271	4	<70	6	6	6	6	6m_E	Semi-mature	10+	D	Fell
T52	Willow	57.67885o	-4.346709	5	80	6	6	6	6	6m_E	Semi-mature	10+	D	Fell
T53	Scots Pine	57.678875	-4.346758	18	300	3	3	3	3	3m_E	Mature	20+	C	Fell
T54	Birch	57.678901	-4.346781	14	250	2	2	2	2	5m_E	Mature	20+	C	Fell
T55	Birch	57.678964	-4.346803	12	360	6	6	6	6	3m_N	Mature	20+	C	Fell
T56	Birch	57.679035	-4.346854	13	270	2	2	2	2	2m_N	Mature	20+	C	Fell
T57	Birch	57.679097	-4.346849	13	360	4	4	4	4	2.5m_W	Mature	20+	C	Fell
T58	Sitka Spruce	57.680727	-4.347282	10.5	120	1	1	1	1	1m_N	Young	<10	C	Fell

Location; Novar 1 tree Survey **Surveyor Craig McDonald** **Date 23/03/26**

Tree No	Common name	Coordinate X	Coordinate Y	Height	DBH	North - Crown Spread	E - Crown Spread	S - Crown Spread	W - Crown Spread	First Significant Branch	Life Stage	Estimated Remaining years	BS5837 CAT	Comment
T59	Sitka Spruce	57.68088	-4.347382	12.5	125	1	1	1	1	1m_N	Young	<10	C	Fell
T60	Douglas Fir	57.681021	-4.347694	11.5	160	1	1	1	1	1m_N	Young	<10	C	Fell
T61	Sitka Spruce	57.680899	-4.347943	1m-11m	<70	1	1	1	1	1m_N	Young	<10	C	Fell
T62	Douglas Fir	57.680908	-4.348051	12	190	1	1	1	1	1m_N	Semi-Mature	10+	C	Fell
T63	Sitka Spruce	57.68092	-4.348174	<10	110	1	1	1	1	1m_N	Young	<10	C	Fell
T64	Douglas Fir	57.679834	-4.355322	30	560	1	1	1	1	0.5m_S	Mature	20+	C	Fell
T65	Western Red Cedar	57.679822	-4.355369	10	130	1	1	1	1	1m_S	Young	10+	C	Fell
T66	Douglas Fir	57.679816	-4.355428	30	895	0	0	6	1	8m_S	Mature	20+	C	Fell
T67	Douglas Fir	57.679782	-4.355536	30	510	0	0	6	1	6m_S	Mature	20+	C	Fell
T68	Douglas Fir	57.679737	-4.355676	30	880	0	0	7	1	6m_S	Mature	20+	C	Fell
T69	Douglas Fir	57.679748	-4.355782	30	640	0	0	3	1	6m_S	Mature	20+	C	Fell
T70	Douglas Fir	57.679633	-4.356025	30	740	0	0	5	1	5m_S	Mature	20+	C	Fell
T71	Sitka Spruce	57.672085	-4.375103	13	130	1	1	1	1	0.5m_S	Young	<10	C	Fell
T72	Scots Pine	57.671162	-4.376329	11	120	1	1	1	1	1m_S	Young	<10	C	Fell
T73	Douglas Fir	57.671119	-4.376395	11.5	230	1.5	1.5	1.5	1.5	0.5m_S	Young	<10	C	Fell

Location; Novar 1 tree Survey

Surveyor Craig McDonald

Date 23/03/26

Tree No	Common name	Coordinate X	Coordinate Y	Height	DBH	North - Crown Spread	E - Crown Spread	S - Crown Spread	W - Crown Spread	First Significant Branch	Life Stage	Estimated Remaining years	BS5837 CAT	Comment
T74	Larch	57.671032	-4.376532	9	160	1	1	1	1	1m_S	Young	<10	C	Fell
T75	Sitka Spruce	57.671032	-4.381347	21.5	430	3	3	3	3	1.4m_N	Mature	20+	C	Retain
T76	Sitka Spruce	57.671046	-4.381445	20.5	275	3	1	1	1	1m_N	Mature	20+	C	Retain
T77	Sitka Spruce	57.671047	-4.38149	22.5	280	3	1	1	1	1m_N	Mature	20+	C	Retain
T78	Douglas Fir	57.671051	-4.381529	12	165	3	1	1	1	1m_N	Semi-mature	10+	C	Retain
T79	Scots Pine	57.67108o	-4.381712	17.5	690	1	5	1	1	5m_W	Mature	20+	B	Retain Veteran pine
T80	Scots Pine	57.671159	-4.382023	19.5	670	1	5	1	1	5m_E	Mature	20+	B	Retain Veteran pine
T81	Scots Pine	57.671206	-4.382129	17	710	1	4	1	1	11m_E	Mature	20+	B	Retain Veteran pine
T82	Sitka Spruce	57.671787	-4.382871	20	520	1	1	3	1	4m_S	Mature	20+	C	Retain
T83	Scots Pine	57.671924	-4.383027	13	160	1	1	1	1	1m_S	Semi-mature	10+	C	Retain
T84	Scots Pine	57.672014	-4.383122	20	535	2	2	2	2	12m_S	Mature	20+	B	Retain Veteran pine
T85	Larch	57.672183	-4.383502	15.5	275	1	1	2	1	3m_S	Mature	20+	C	Retain
T86	Scots Pine	57.672194	-4.383566	24.5	560	1	3	1	1	3m_E	Mature	20+	B	Retain Veteran pine
T87	Sitka Spruce	57.672003	-4.383377	17.5	275	3	1	1	1	1.4m_N	Mature	20+	C	Fell
T88	Sitka Spruce	57.672025	-4.383424	18	440	2	1	1	1	1m_N	Mature	20+	C	Fell

Location; Novar 1 tree Survey **Surveyor Craig McDonald** **Date 23/03/26**

Tree No	Common name	Coordinate X	Coordinate Y	Height	DBH	North - Crown Spread	E - Crown Spread	S - Crown Spread	W - Crown Spread	First Significant Branch	Life Stage	Estimated Remaining years	BS5837 CAT	Comment
T89	Scots Pine	57.672228	-4.384226	16	245	2	1	1	1	2m_N	Mature	20+	C	Fell
T90	Sitka Spruce	57.672223	-4.384346	12	180	3	1	1	1	1m_N	Semi-mature	10+	C	Fell
T91	Sitka Spruce	57.672215	-4.384376	13	260	3	1	1	1	1m_N	Mature	20+	C	Fell
T92	Sitka Spruce	57.673052	-4.392136	13.5	250	3	1	1	1	1m_N	Mature	20+	C	Fell
T93	Sitka Spruce	57.673074	-4.3922189	13	205	1.2	1	1	1	1.8m_N	Mature	20+	C	Fell
T94	Sitka Spruce	57.673252	-4.392428	12.5	195	1	2	1	1	2m_E	Mature	20+	C	Fell

Annex B: Baseline Data Collection to BS 5837:2012

Tree survey

Methodology

The tree survey was undertaken in accordance with recommendations contained within BS 5837:2012 and the following methodology.

- The tree survey was undertaken with reference to any site layout proposals. Tree quality assessments account for health, condition and an estimated remaining contribution based on site conditions at the time of the survey.
- Arboricultural features have been recorded as tree groups where this has been deemed appropriate. Tree groups have been recorded on the basis that they form distinct arboricultural features either aerodynamically, visually or because they contain trees of similar cultural and biodiversity value.
- Arboricultural features have been recorded as wooded areas where this has been deemed appropriate. Wooded areas are recorded where larger expanses of trees exist and included features which may otherwise be referred to as corpses, spinneys or shelterbelts.
- The trees have been inspected using the Visual Tree Assessment methodology (Mattheck, C., Breloer, H, 2012).
- The tree survey was conducted from ground level only.
- No tissue samples were taken nor was any internal investigation of the subject trees undertaken.
- Tree heights and crown spreads have been estimated to the nearest 1m.
- Notes have been recorded where they relate to the quality of the arboricultural feature. Management recommendations have been provided where work is necessary for the abatement of a hazard which presents an unacceptable or intolerable level of risk to persons or property.
- Stem diameters have been measured in accordance with Annex C of BS 5837:2012. Diameters of single stem trees on level ground have been measured at 1.3m above ground level. The combined stem diameters for multi-stemmed trees have been calculated in accordance with BS 5837:2012 paragraph 4.6.1.
- By default, RPAs are calculated as an area equivalent to a circle with a radius 12 times the stem diameter and are capped at a distance of 15 metres. For ancient and veteran trees, the RPA uses a ratio of 15 times stem diameter or 5m beyond the spread of the crown, whichever is greater. The RPA radii for ancient and veteran trees are uncapped.

Novar 1 Wind Farm Repowering - Access
Arboricultural Impact Assessment
September 2026

Limitations to the tree survey

The tree survey is subject to the following limitations:

- All survey work was undertaken from a position of safety. In instances where safe access could not be achieved (i.e. due to dense vegetation or extreme topography) then survey data was estimated to the best of the surveyor's ability and nearest suitable publicly accessible vantage point or location where access had been agreed with the landowner.

Tree quality assessment

The quality of arboricultural features has been determined in accordance with BS 5837:2012 Table 1. The purpose of the quality assessment is to enable informed decisions to be made regarding site layout, land use and design. The quality assigned to each survey item is recorded within **Annex A: Schedule of Trees**.

BS 5837:2012 recognises the value of trees, tree groups and woodland of significant conservation or historical value by identifying them as high-quality features. This includes ancient woodland and ancient or veteran trees.

Summary of BS 5837:2012 Table 1 – cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)		
Trees unsuitable for retention			
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g., where the loss of companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low-quality trees suppressing adjacent trees of better quality		
	1 Mainly arboricultural quality	**2 Mainly landscape qualities**	**3 Mainly cultural values, including conservation**
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g., the dominant and/or principal trees within an avenue)	Trees, groups, or woodlands of visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 40 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated to make little visual contribution to the wider locality	Trees with material conservation or other cultural value

	1 Mainly arboricultural quality	2 Mainly landscape qualities	3 Mainly cultural values, including conservation
Category C Trees of low quality with an estimated remaining life expectancy of at least 40 years	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value

Figures:

Figure 3.2.1 Arboricultural Survey Area

Figure 3.2.2 Tree Protection Plan

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Legend

- Application Boundary
- Overrun Area
- Oversail Area
- Ancient Woodland
- Tree Survey Category B
- Tree Survey Category C

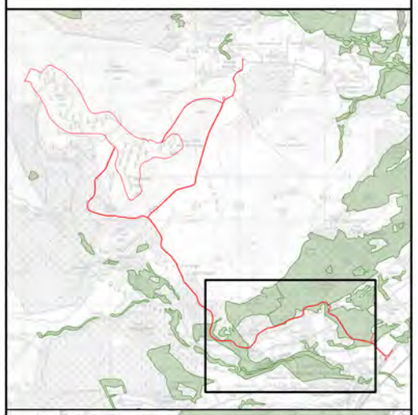




Figure Title
Tree Survey
Sheet 1 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.1.1	1.0

Prepared By	Scale
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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

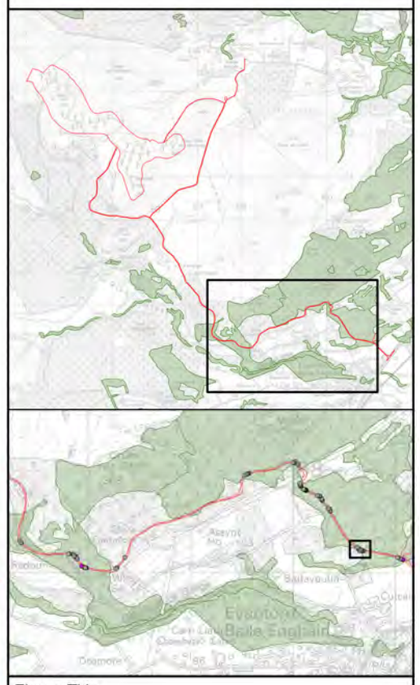


Figure Title
Tree Survey
Sheet 2 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

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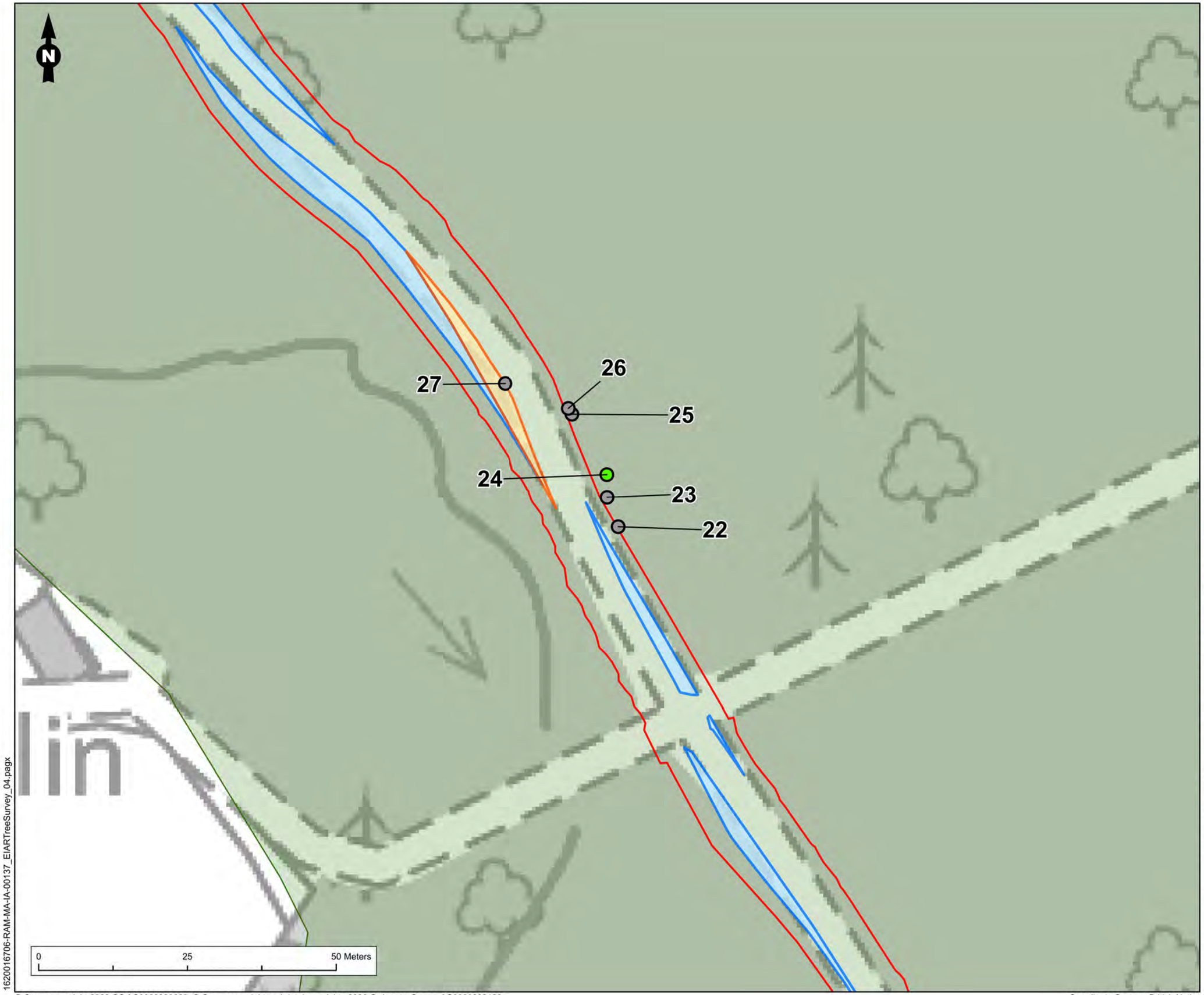
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- Oversail Area
- Ancient Woodland
- Tree Survey Category A
- Tree Survey Category C

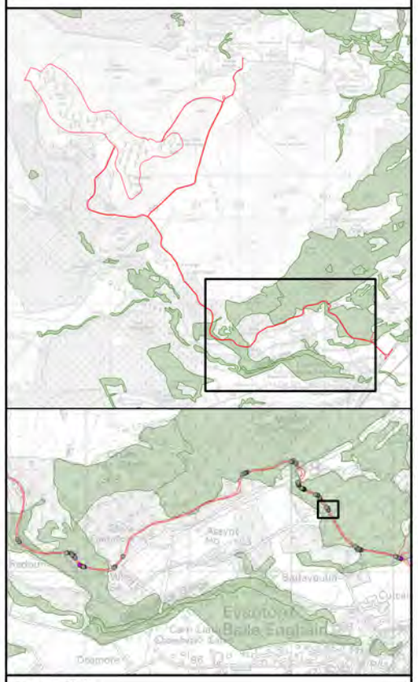


Figure Title
Tree Survey
Sheet 3 of 11

Project Name
Novar 1 Wind Farm Repowering

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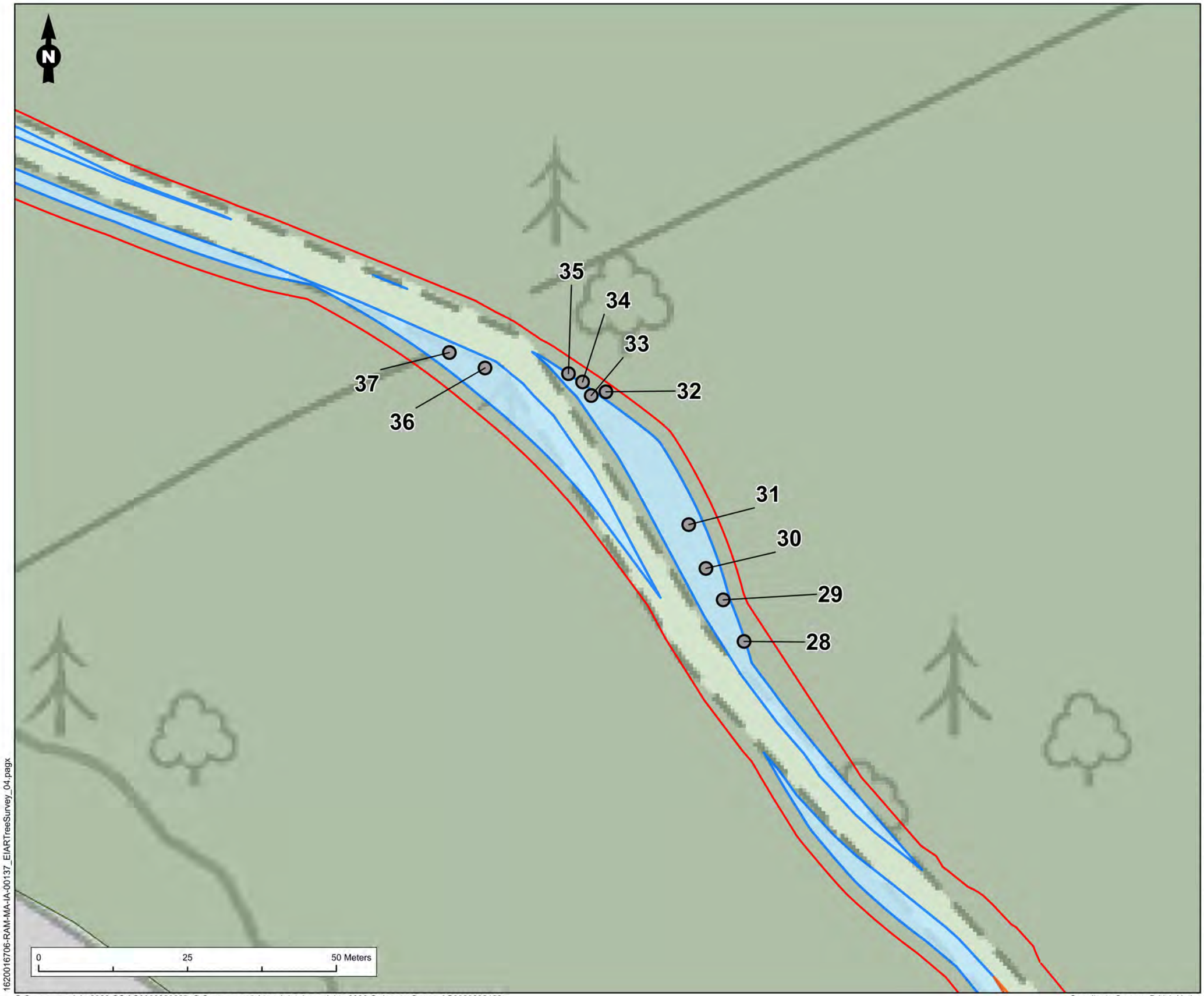
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Legend

- Application Boundary
- Overrun Area
- Oversail Area
- Ancient Woodland
- Tree Survey Category C





Figure Title
Tree Survey
Sheet 4 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

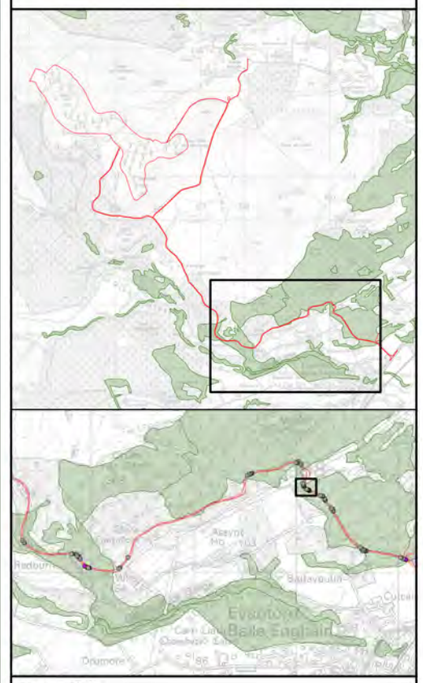


Figure Title
Tree Survey
Sheet 5 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

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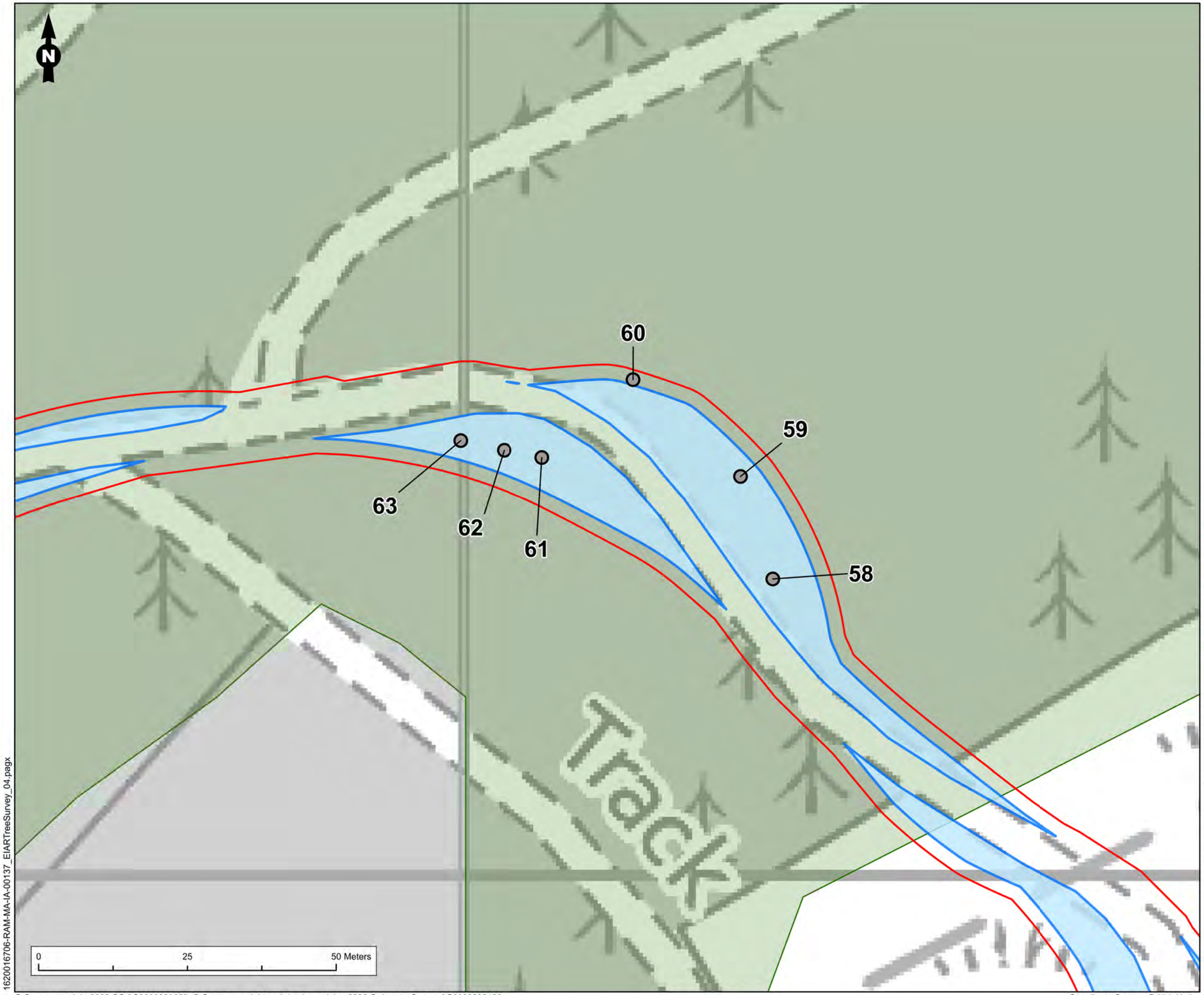
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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

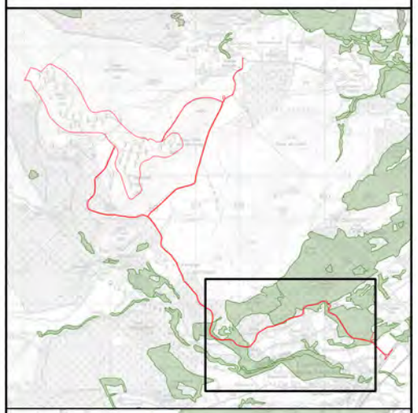




Figure Title
Tree Survey
Sheet 6 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

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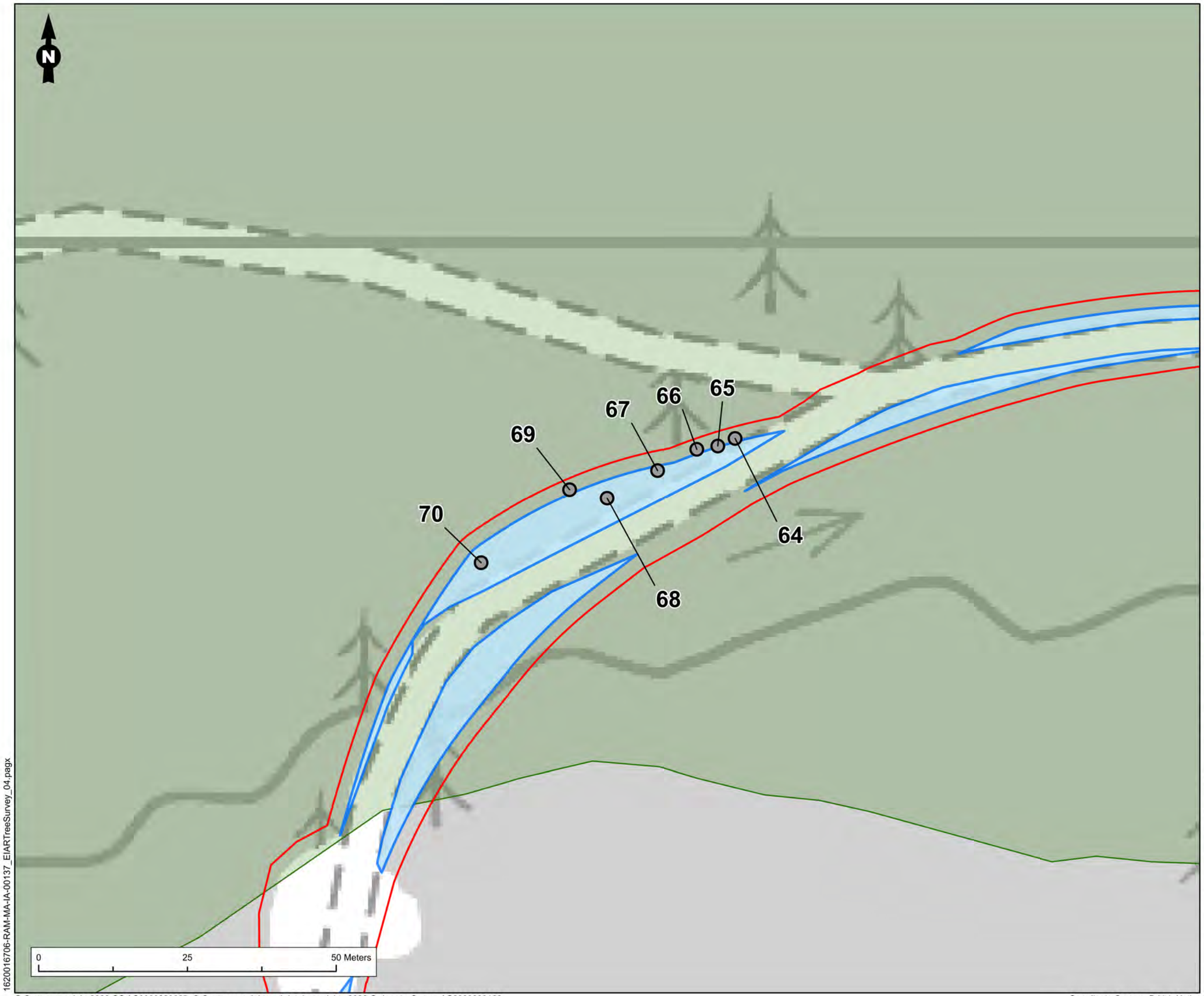
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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C





Figure Title
Tree Survey
Sheet 7 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.1.7	1.0

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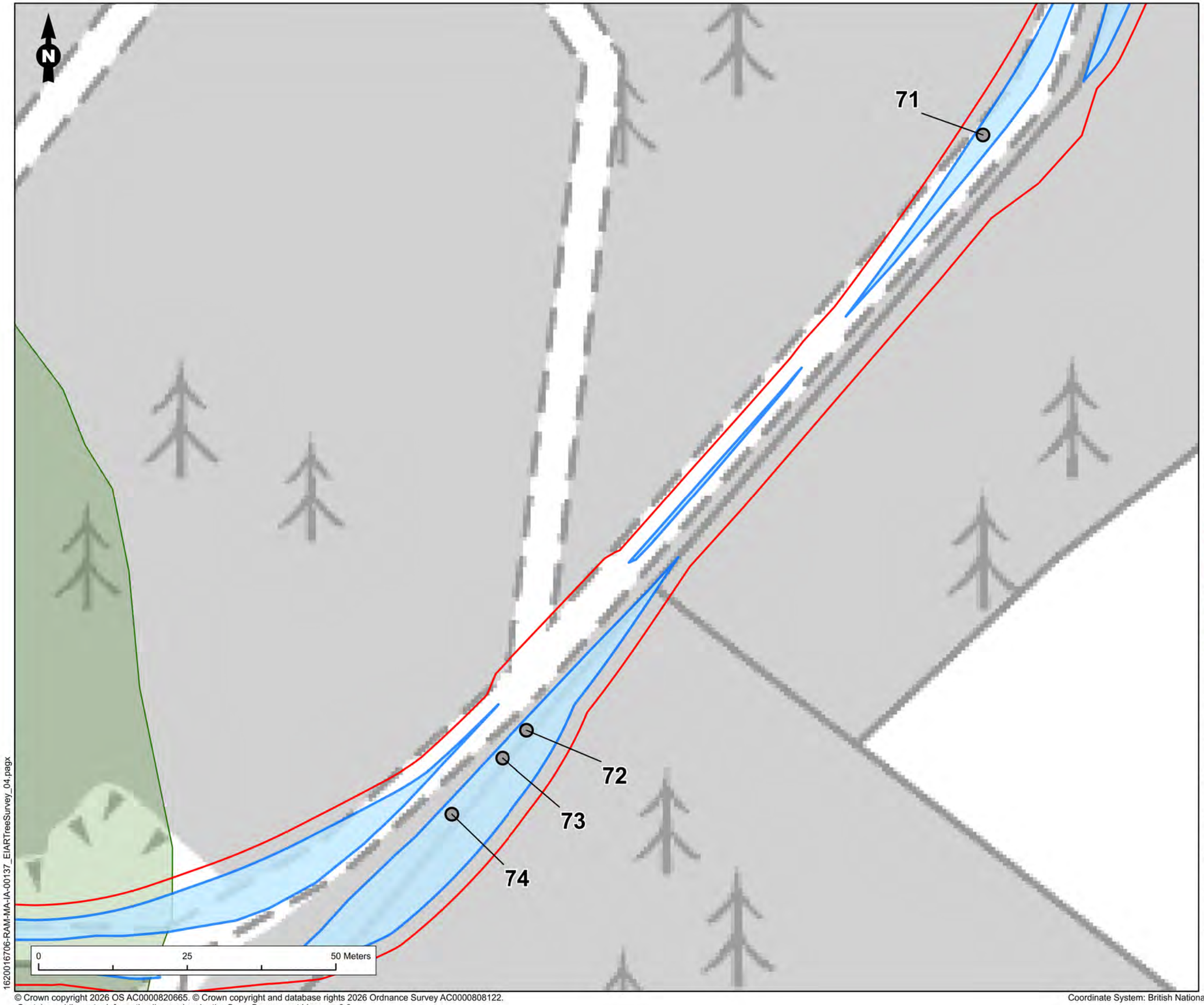
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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

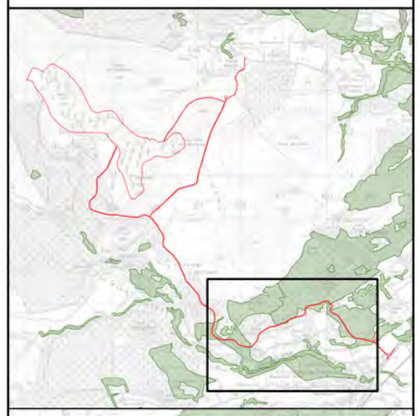




Figure Title
Tree Survey
Sheet 8 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.1.8	1.0

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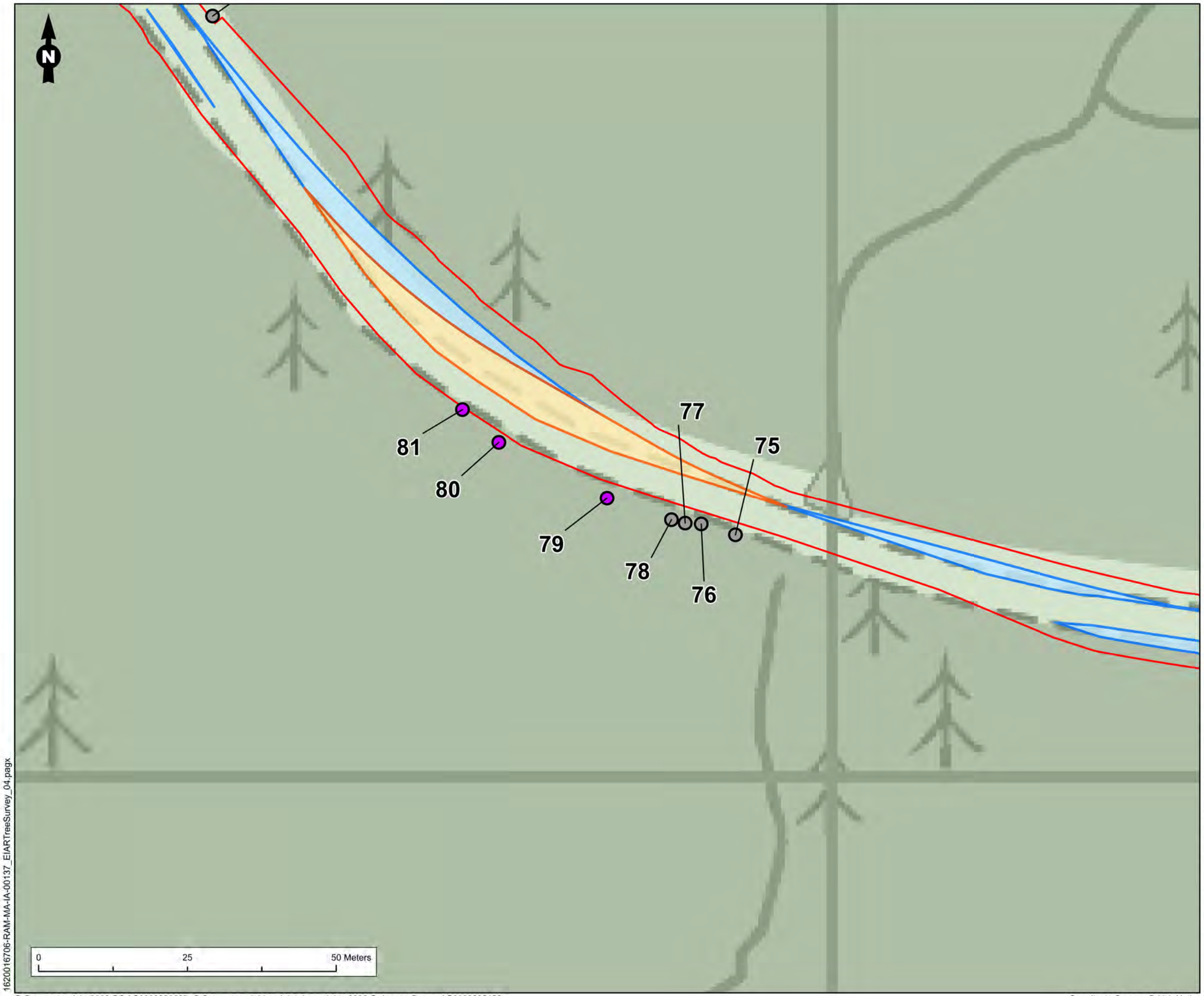
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Legend

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- Oversail Area
- Ancient Woodland
- Tree Survey Category B
- Tree Survey Category C

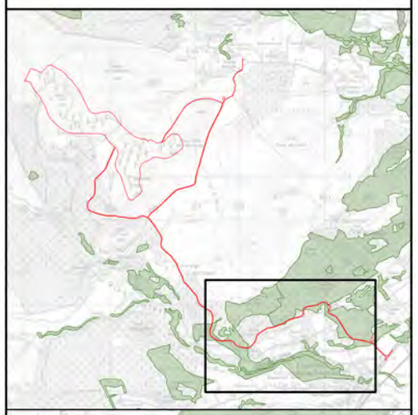




Figure Title
Tree Survey
Sheet 9 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.1.9	1.0

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- Oversail Area
- Ancient Woodland
- Tree Survey Category B
- Tree Survey Category C

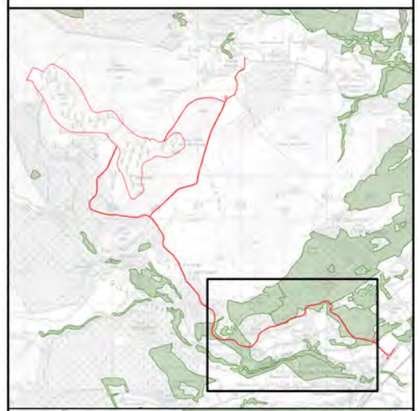




Figure Title
Tree Survey
Sheet 10 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.1.10	1.0

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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

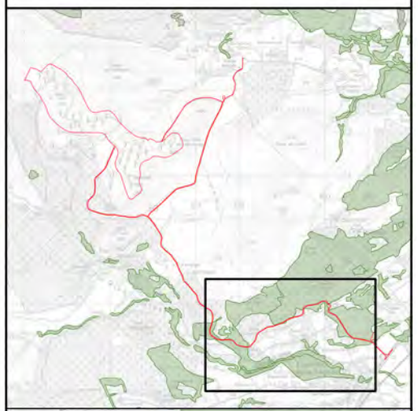




Figure Title
Tree Survey
Sheet 11 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.1.11	1.0

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Legend

- Application Boundary
- Overrun Area
- Oversail Area
- Ancient Woodland
- Tree Survey Category B
- Tree Survey Category C
- Tree Protection
- Linear Net Tree Protection





Figure Title
Tree Protection Plan
Sheet 1 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.1	1.0

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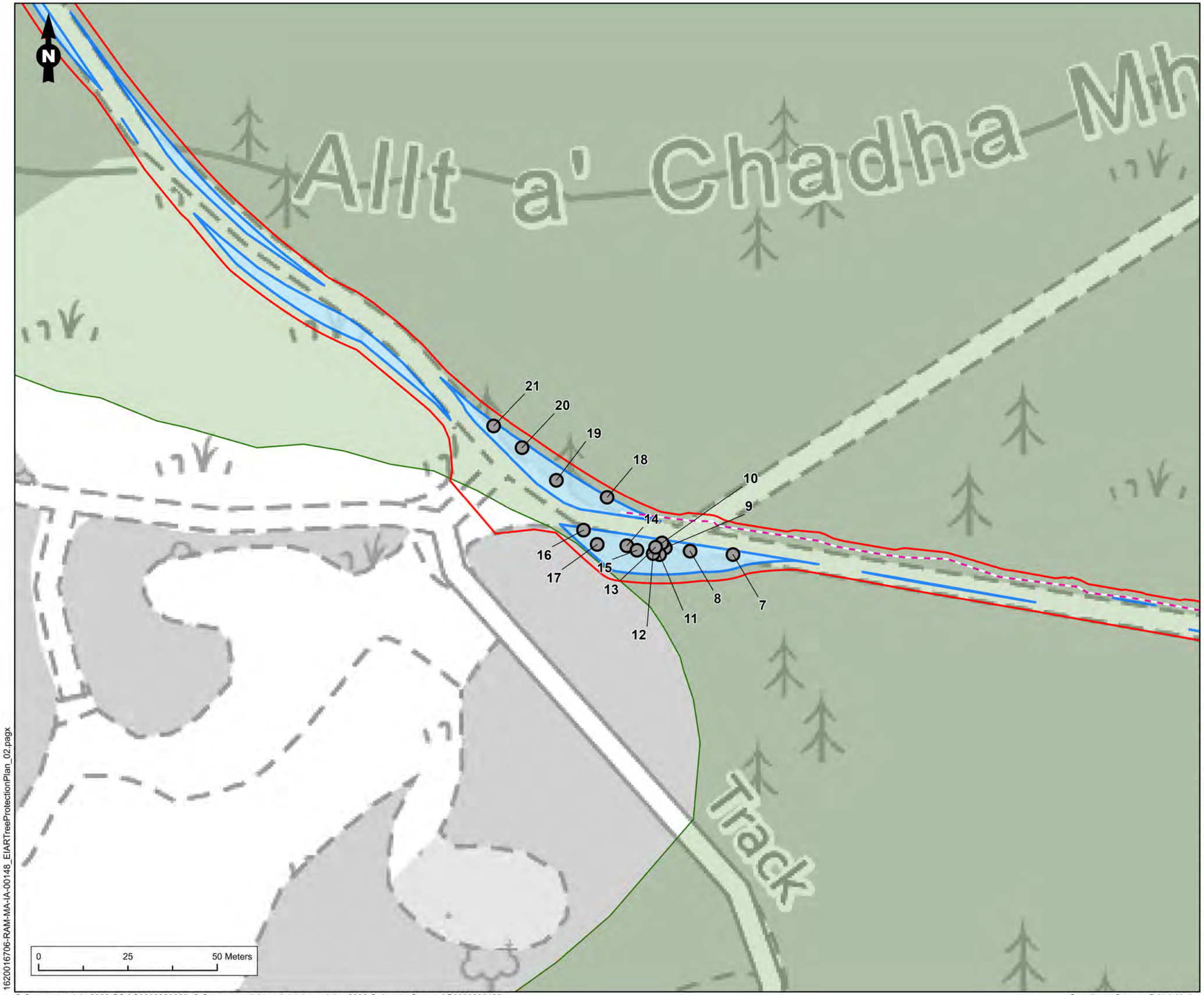
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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C
- Linear Net Tree Protection

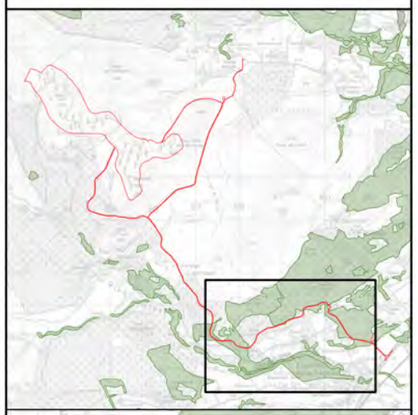




Figure Title
Tree Protection Plan
Sheet 2 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

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Legend

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- Oversail Area
- Ancient Woodland
- Tree Survey Category A
- Tree Survey Category C
- Tree Protection
- Linear Net Tree Protection

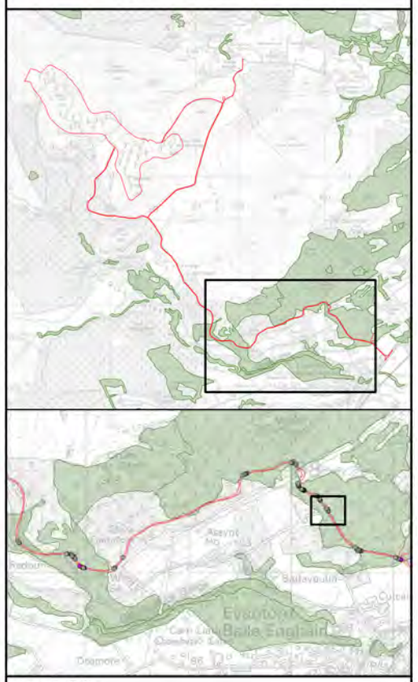


Figure Title
Tree Protection Plan
Sheet 3 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
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N

49 48 46 44 41 42 38 47 45 43 40 39

35 34 33 32 37 36

31 30 29 28

27 26 25 24 23 22

0 25 50 Meters

Legend

- Application Boundary
- Overrun Area
- Oversail Area
- Ancient Woodland
- Tree Survey Category A
- Tree Survey Category C
- Tree Protection
- Linear Net Tree Protection





Figure Title
Tree Protection Plan
Sheet 4 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.4	1.0

Prepared By	Scale
RS	1:1,000 @A3

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N

57
56
55
54
53
52
49
48
46
44
41
42
38
51
50
47
45
43
40
39
35
37
36

0 25 50 Meters

Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

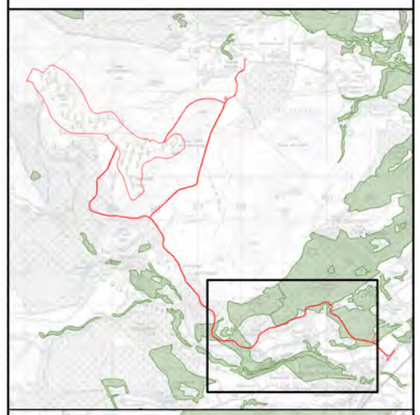




Figure Title
Tree Protection Plan
Sheet 5 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.5	1.0

Prepared By	Scale
RS	1:1,000 @A3

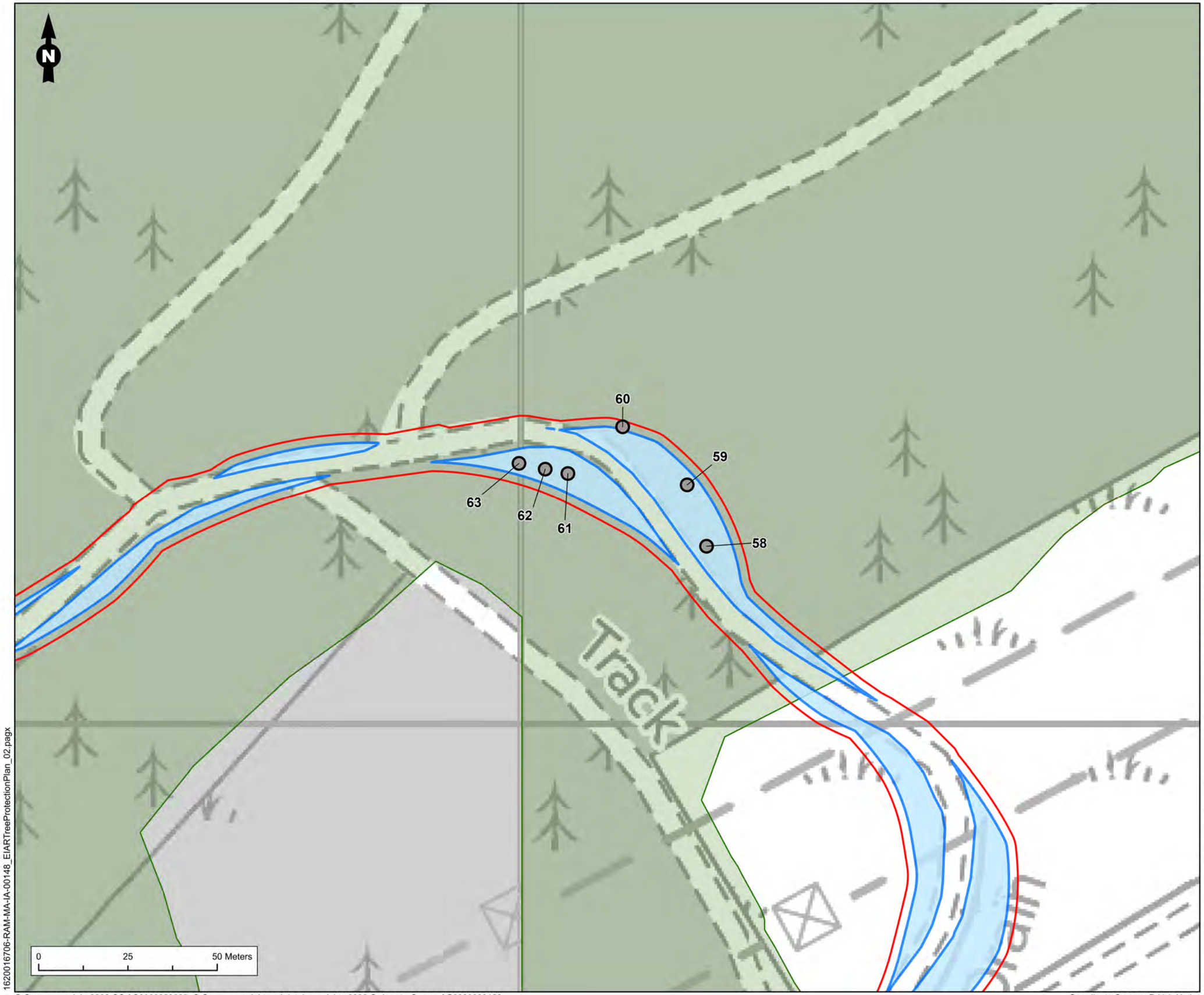
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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

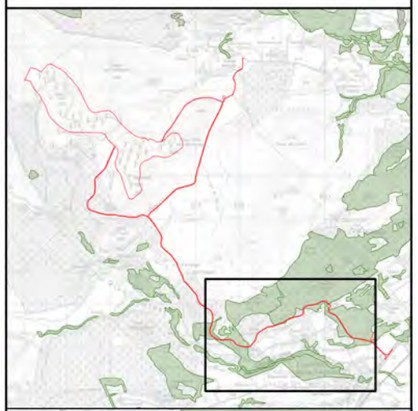




Figure Title
Tree Protection Plan
Sheet 6 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.6	1.0

Prepared By	Scale
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N

69
67
66
65
70
64
68

176m
Cnoc Breac

0 25 50 Meters

Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

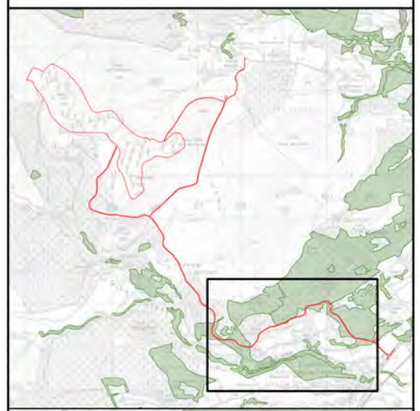




Figure Title
Tree Protection Plan
Sheet 7 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.7	1.0

Prepared By	Scale
RS	1:1,000 @A3

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N

71

72

73

74

0 25 50 Meters

Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

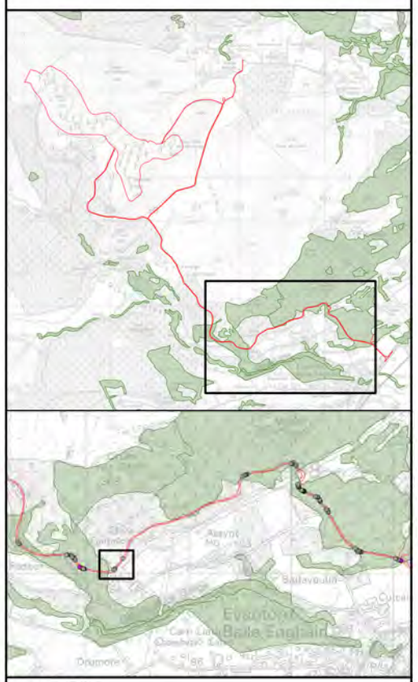


Figure Title
Tree Protection Plan
Sheet 8 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.8	1.0

Prepared By	Scale
RS	1:1,000 @A3

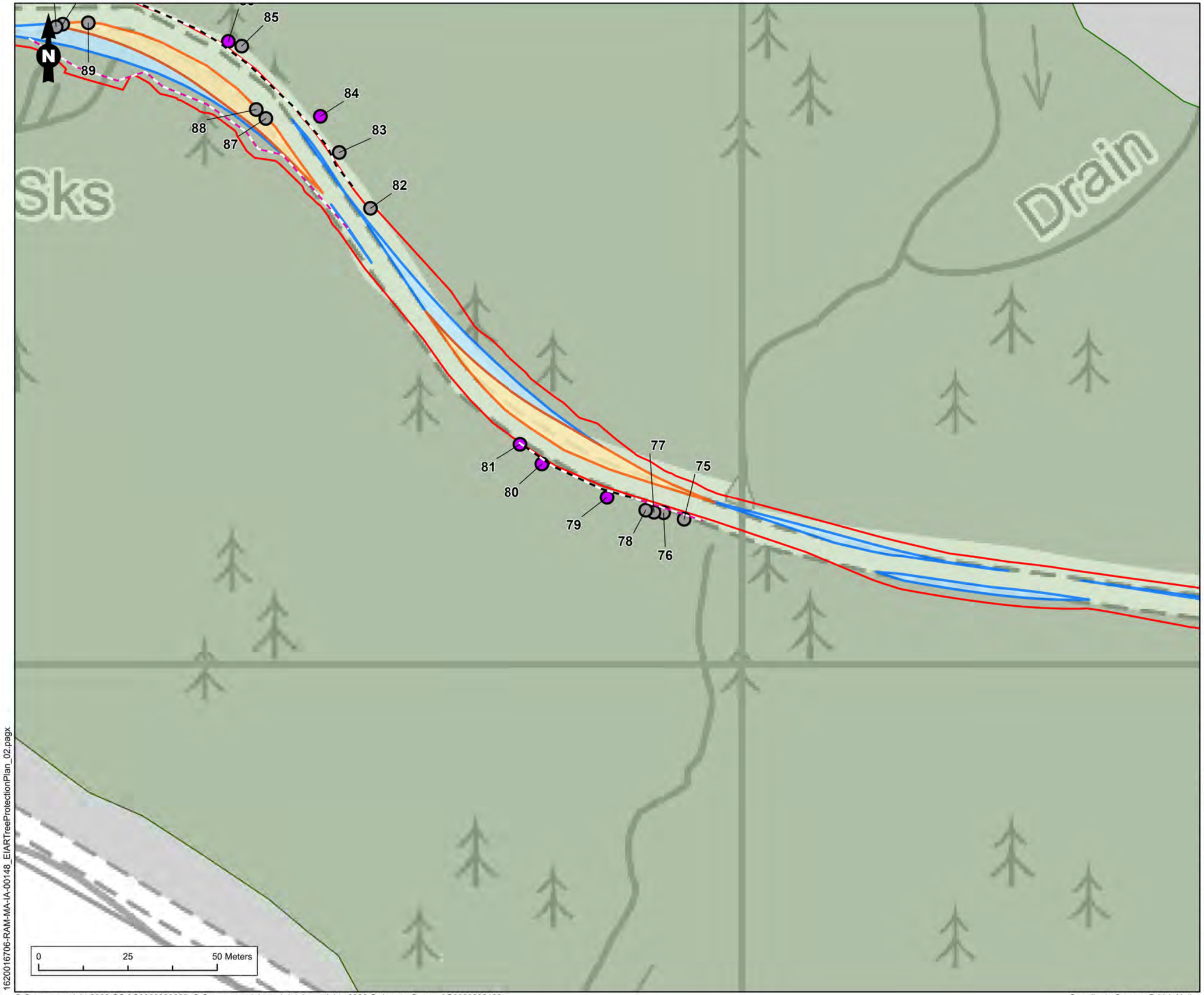
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Legend

- Application Boundary
- Overrun Area
- Oversail Area
- Ancient Woodland
- Tree Survey Category B
- Tree Survey Category C
- Tree Protection
- Linear Net Tree Protection

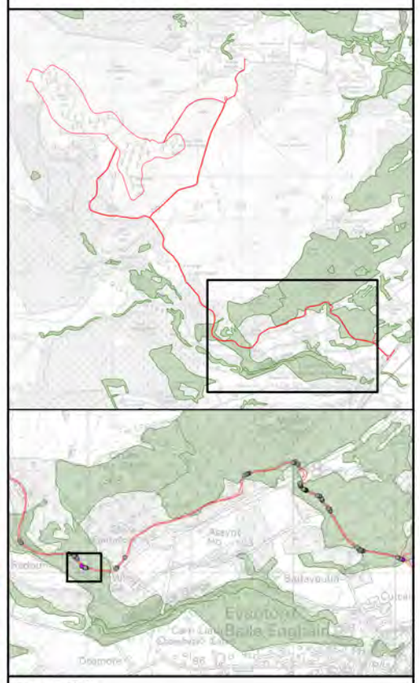


Figure Title
Tree Protection Plan
Sheet 9 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.9	1.0

Prepared By	Scale
RS	1:1,000 @A3

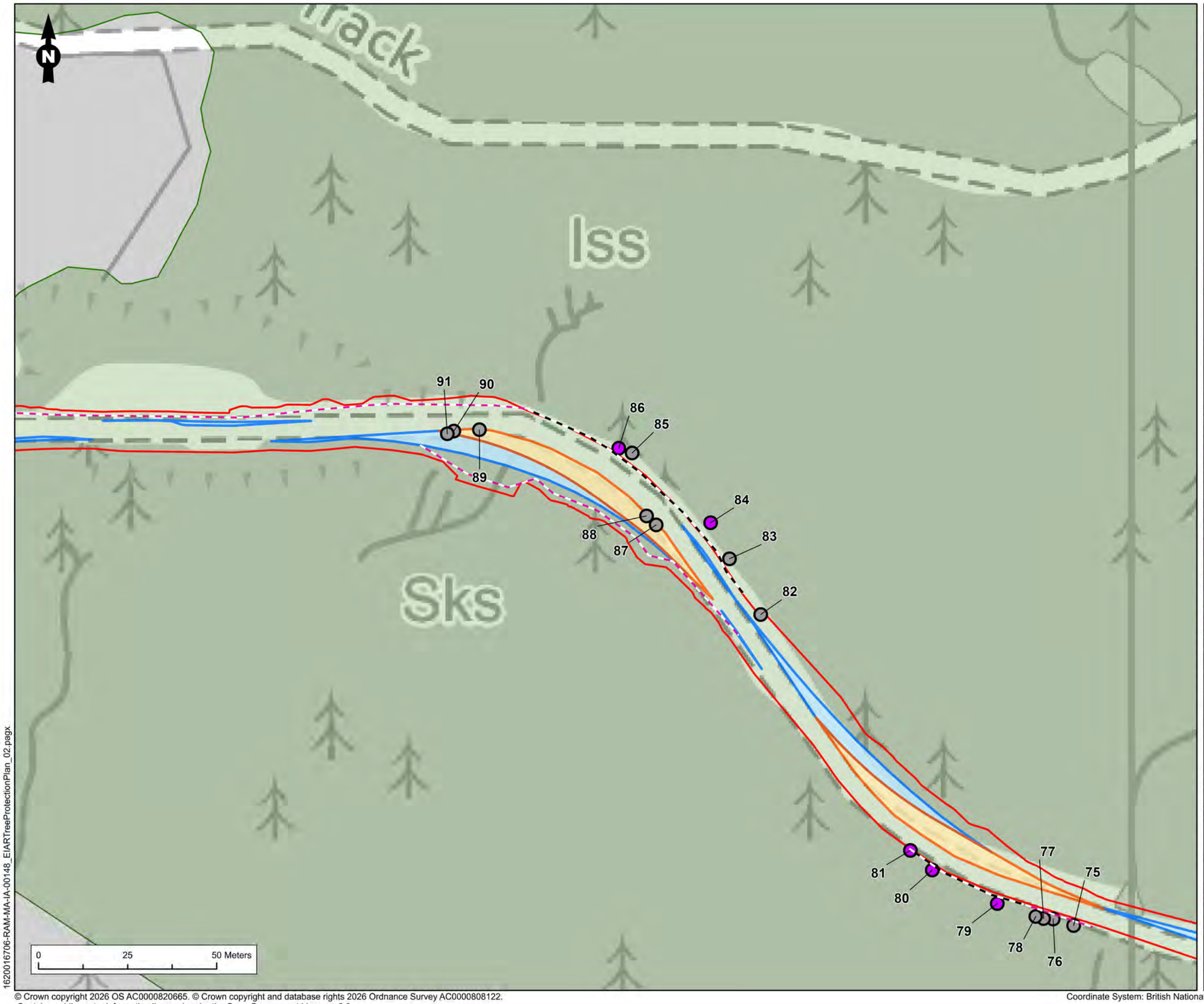
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Legend

- Application Boundary
- Overrun Area
- Oversail Area
- Ancient Woodland
- Tree Survey Category B
- Tree Survey Category C
- Tree Protection
- Linear Net Tree Protection

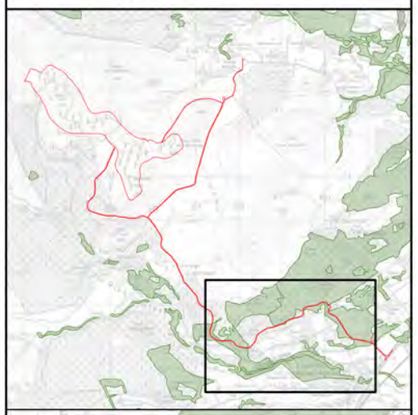




Figure Title
Tree Protection Plan
Sheet 10 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.10	1.0

Prepared By	Scale
RS	1:1,000 @A3

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Legend

- Application Boundary
- Oversail Area
- Ancient Woodland
- Tree Survey Category C

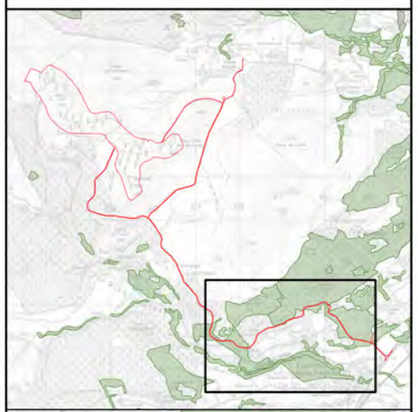




Figure Title
Tree Protection Plan
Sheet 11 of 11

Project Name
Novar 1 Wind Farm Repowering

Project No./Filery ID
1620016706 / REH2023N04156

Date	Figure No.	Revision
September 2026	3.2.2.11	1.0

Prepared By	Scale
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