



Beaufort Wind Limited

Beinn Ghlas Wind Farm Repowering

Environmental Impact Assessment Report (Volume 4)

Technical Appendix 13.2: Timber Volume Assessment

663547

FELLING AND TIMBER VOLUMES TO BE REMOVED FOR ACCESS TRACK

Compartment (Sub-compartment) No.	Area Lost (includes back to windfirm edge) Ha	Species	Planting Year	Age	Yield Class	Volume per Ha (m3)	Approx Volume removed (m3)	Vol/Wt ratio	Approx Tonnage removed (T)	Brash removed (Based upon 25% of timber volume)	Roadside Branch Trimming and removal (Based upon 5% of timber volume)
2603 (D)	0.005249	JL	1989	36	14	427	2.241	1.2	1.86777	0.56033	0.11207
2630 (B)	0.015856		0		0						
2630 (D)	0.007484										
2619 (B)	0.032842	SS	1962	63	10	561	18.424	1.08	17.05959	4.60609	0.92122
2615 (I)	0.008879		0		0						
2604 (D)	0.000409	JL	1991	34	14	401	0.164	1.2	0.13667	0.04100	0.00820
2605 (C)	0.063031	BI	1987	38	2	126	7.942	1.07	7.42234	1.98548	0.39710
2619 (E)	0.03277		0								
2619 (C)	0.155311		0								
2630 (C)	0.012812		0								
2631 (E)	0.021041		0								
2604 (A)	0.006212	SS	1991	34	20	518	3.218	1.08	2.97946	0.80445	0.16089
2613 (I)	0.001069										

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2618 (I)	0.010441	JL	1998	27	14	304	3.174	1.2	2.64505	0.79352	0.15870
2630 (A)	0.000032	SS	2009	16	16	43	0.001	1.08	0.00127	0.00034	0.00007
2619 (A)	0.031674	SS	1993	32	24	588	18.624	1.08	17.24473	4.65608	0.93122
2613 (D)	0.028365	SS	1991	34	20	518	14.693	1.08	13.60469	3.67327	0.73465
2614 (A)	0.012865	SS									
2614 (C)	0.063863	MB	1991	34	2	93	5.939	1.07	5.55071	1.48481	0.29696
2613 (B)	0.005788	SS	1991	34	18	454	2.628	1.08	2.43310	0.65694	0.13139
2615 (M)	0.003852		0								
2615 (K)	0.195401	SS	1993	32	14	268	52.367	1.08	48.48840	13.09187	2.61837
2615 (G)	0.003346	SS	1988	37	18	523	1.750	1.08	1.62033	0.43749	0.08750
2615 (E)	0.00043	HL	1993	32	14	388	0.167	1.2	0.13903	0.04171	0.00834
2615 (F)	0.001124	MB	1988	37	2	126	0.142	1.07	0.13236	0.03541	0.00708
2618 (A)	0.004308	MB	1996	29	2	57	0.246	1.07	0.22949	0.06139	0.01228
2603 (B)	0.006414	SS	1989	36	20	568	3.643	1.08	3.37329	0.91079	0.18216
2632 (A)	0.000002	SS	1972	53	14	645	0.001	1.08	0.00119	0.00032	0.00006
2613 (A)	0.00647										

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2603 (A)	0.341407	MB	1940	85	2	274	93.546	1.07	87.42572	23.38638	4.67728
2615 (A)	0.003595	SS									
2629 (D)	0.031665		0								
2602 (E)	0.073487	SOK	1989	36	2	79	5.805	0.94	6.17604	1.45137	0.29027
2602 (F)	0.022471	BI	1970	55	2	218	4.899	1.07	4.57820	1.22467	0.24493
2602 (C)	0.118714	SS	1987	38	18	546	64.818	1.08	60.01652	16.20446	3.24089
2602 (G)	0.027475	BI	1987	38	2	126	3.462	1.07	3.23537	0.86546	0.17309
2602 (D)	0.011433		0								
2603 (C)	0.006548	SOK	2020	5	8	2	0.013	0.94	0.01393	0.00327	0.00065
location 36	0.0355	Ash				10	0.355	1.28	0.27734	0.08875	0.01775
Plantation at existing site access	0.0756	SS		36	18	512	38.707	1.08	35.84000	9.67680	1.93536
SUBTOTALS	1.49						346.97		322.49	86.74	17.35

**Volume per Hectare (ha) based upon minimum spacing of 2 m and no thin regime*

The timber loss calculations above were based on a GIS spatial analysis conducted by RSK. This was sent to Forestry Land Scotland (FLS) for review. FLS estimates predicted that there would be 1.61 ha of felling. The difference may be spread over all the compartments assessed in the table above. Therefore, RSK have multiplied this additional area by the average yield across the compartments assessed. The average yield per ha was 339m3/ha, therefore the additional timber loss would be 67.8m3. Total timber volume to be felled is estimated to be 393.27 m3 which equates to 323.91 tonnes.

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