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APPENDIX 12-6

Tables of Results



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Tabulated Turbine Noise Prediction Results

Project Title: Taurbeg Wind Farm

CLIENT
MKO

DOCUMENT REFERENCE
Appendix 12-6

DATE
18 June 2025

DOCUMENT CONTROL SHEET

RECEIVED: 02/09/2025

Document Control Sheet		
Our Reference	Appendix 12-6	
Original Issue Date	18 June 2025	
Client:	MKO	
Client Address:		
Revision	Revision Date	Description

Details	Written by	Approved by
Signature		
Name	Miguel Cartuyvels	Dermot Blunnie
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Date	18 June 2025	

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1. TABULATED NOISE PREDICTION RESULTS FOR HIGHER NOISE EMISSION SCENARIO (OMNI-DIRECTIONAL)

Table 1-1 Predicted Turbine Noise Levels Cumulative (higher noise emission scenario)

Location Ref	Predicted Noise Level dB LA90 at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H01	34.4	35.6	36.1	36.7	37.1
H02	31.6	33	33.7	35	35.9
H03	33.3	34.7	35.4	36.8	37.7
H04	39	40.1	40.6	41.3	41.8
H05	32.6	33.9	34.5	35.7	36.5
H06	43.9	44.9	45.4	45.5	45.6
H07	33.4	34.5	35.1	35.8	36.4
H08	35.9	37	37.6	38.3	38.8
H09	39	40.1	40.7	41.4	41.8
H10	38.3	39.5	40.3	41.7	42.6
H11	42.4	43.4	43.9	44.2	44.4
H12	33.5	34.6	35.2	35.8	36.3
H13	31.4	32.8	33.5	34.7	35.6
H14	32.4	33.8	34.5	35.9	36.8
H15	31.4	32.7	33.3	34.4	35.2
H16	38.4	39.6	40.2	41.1	41.8
H17	38.9	40	40.6	41.3	41.8
H18	38.9	40	40.6	41.3	41.8
H19	36	37.2	37.9	39.3	40.2
H20	34.6	35.7	36.3	36.9	37.3
H21	37.9	38.9	39.5	39.8	40.1
H22	43.2	44.3	44.8	44.9	45
H23	43.9	44.9	45.4	45.4	45.5
H24	33.8	35	35.6	36.3	36.9
H25	34.5	35.7	36.3	37.1	37.7
H26	34.8	35.9	36.5	37.3	37.8
H27	35	36	36.6	37.2	37.6
H28	37.9	39	39.7	40.6	41.3
H29	36.4	37.5	38	38.4	38.7
H30	32.7	33.8	34.4	34.9	35.2
H31	33.3	34.4	34.9	35.4	35.7
H32	42	43	43.5	43.7	43.9
H33	37.9	39.1	39.8	41.1	42
H34	34.8	36	36.7	38.1	38.9
H35	32.4	33.5	34.1	34.7	35.2
H36	33.4	34.6	35.2	35.8	36.4
H37	36.7	37.8	38.3	38.7	39
H38	36.3	37.4	38	38.7	39.3
H39	35.2	36.3	36.9	37.5	37.9
H40	35	36.2	36.8	37.6	38.2

Location Ref	Predicted Noise Level dB L _{A90} at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H41	33.4	34.6	35.2	35.9	36.4
H42	32.7	33.8	34.4	34.9	35.3
H43	33.3	34.5	35.2	36.2	36.9
H44	33.5	34.6	35.2	36	36.5
H45	33.5	34.6	35.2	35.9	36.4
H46	34.3	35.6	36.3	37.7	38.6
H47	31.4	32.6	33.3	34.4	35.1
H48	31.5	32.8	33.5	34.7	35.5
H49	31.3	32.6	33.2	34.3	35
H50	31.2	32.4	33.1	34.2	34.9
H51	30.9	32.2	32.9	34.1	34.9
H52	30.9	32.2	32.9	34.1	34.9
H53	45.4	46.4	46.9	47	47
H54	34.4	35.5	36.1	36.7	37.1
H55	33.8	35	35.6	36.3	36.8
H56	39.2	40.3	40.9	41.5	41.9
H57	37.1	38.4	39	40.2	41
H58	33.1	34.3	34.9	35.5	36
H59	34.2	35.4	36	36.8	37.3
H60	34.1	35.3	35.9	36.7	37.3
H61	39.3	40.5	41.1	41.8	42.4
H62	38.4	39.5	40.1	40.9	41.4
H63	32.8	34	34.6	35.1	35.6
H64	35.2	36.4	37	37.6	38.2
H65	31.4	32.7	33.4	34.6	35.4
H66	31.6	32.9	33.5	34.5	35.2
H67	31.5	32.7	33.4	34.4	35.1
H68	39.5	40.5	41.1	41.4	41.6
H69	33.5	34.7	35.3	36	36.5
H70	37.3	38.4	39	39.8	40.3

Table 1-2 Predicted Turbine Noise Taurbeg Turbines Only (higher noise emission scenario)

Location Ref	Predicted Noise Level dB L _{A90} at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H01	26.6	28.3	29.2	31.4	32.8
H02	28.2	30.0	30.9	33.2	34.4
H03	30.3	32.0	32.9	35.1	36.4
H04	32.0	33.6	34.5	36.7	38.0
H05	28.6	30.2	31.1	33.4	34.7
H06	27.7	29.4	30.3	32.6	33.8
H07	26.7	28.4	29.3	31.5	32.8
H08	28.6	30.3	31.3	33.6	34.8
H09	32.0	33.5	34.4	36.7	38.0
H10	35.4	36.9	37.8	40.1	41.4
H11	30.9	32.5	33.4	35.7	37.0
H12	26.3	28.0	28.9	31.2	32.5
H13	27.7	29.4	30.4	32.6	33.9
H14	29.3	31.0	31.9	34.2	35.4
H15	26.9	28.6	29.5	31.7	33.0
H16	33.1	34.6	35.5	37.8	39.0
H17	32.1	33.7	34.6	36.8	38.1
H18	32.0	33.5	34.4	36.7	38.0
H19	33.0	34.5	35.4	37.6	38.9
H20	26.8	28.5	29.4	31.6	32.9
H21	27.7	29.4	30.3	32.5	33.8
H22	28.3	29.9	30.8	33.1	34.4
H23	25.8	27.6	28.5	30.7	32.0
H24	27.5	29.1	30.0	32.3	33.6
H25	28.5	30.2	31.1	33.4	34.7
H26	28.3	29.9	30.8	33.1	34.4
H27	27.1	28.7	29.6	31.9	33.2
H28	32.7	34.2	35.1	37.4	38.7
H29	26.3	28.0	28.9	31.2	32.5
H30	24.1	25.9	26.8	29.1	30.4
H31	23.9	25.7	26.6	28.9	30.2
H32	28.8	30.5	31.4	33.7	35.0
H33	34.4	35.9	36.8	39.1	40.4
H34	31.5	33.0	33.9	36.2	37.5
H35	24.7	26.5	27.4	29.7	31.0
H36	26.4	28.1	29.0	31.3	32.6
H37	26.7	28.4	29.4	31.6	32.9
H38	29.7	31.3	32.2	34.4	35.7
H39	27.7	29.3	30.2	32.5	33.8
H40	29.0	30.6	31.5	33.8	35.1
H41	26.5	28.2	29.1	31.3	32.6
H42	24.5	26.3	27.2	29.5	30.8
H43	28.4	30.1	31.0	33.2	34.5
H44	26.8	28.5	29.4	31.7	33.0

Location Ref	Predicted Noise Level dB LA90 at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H45	26.4	28.0	29.0	31.2	32.5
H46	31.1	32.7	33.6	35.9	37.2
H47	26.9	28.6	29.5	31.7	33.0
H48	27.5	29.2	30.1	32.4	33.7
H49	26.8	28.4	29.3	31.6	32.9
H50	26.6	28.3	29.2	31.5	32.8
H51	26.8	28.6	29.5	31.7	33.0
H52	27.0	28.7	29.6	31.9	33.2
H53	27.2	28.9	29.8	32.1	33.4
H54	26.6	28.3	29.2	31.5	32.8
H55	27.2	28.9	29.8	32.0	33.3
H56	31.6	33.2	34.1	36.4	37.7
H57	33.3	34.8	35.7	38.0	39.3
H58	26.0	27.7	28.6	30.9	32.2
H59	28.0	29.6	30.5	32.8	34.1
H60	28.1	29.8	30.6	32.9	34.2
H61	33.1	34.6	35.5	37.8	39.1
H62	32.1	33.6	34.5	36.8	38.1
H63	24.9	26.7	27.6	29.9	31.2
H64	28.5	30.1	31.0	33.3	34.6
H65	27.5	29.2	30.1	32.4	33.7
H66	26.6	28.3	29.2	31.5	32.8
H67	26.4	28.2	29.1	31.4	32.6
H68	28.7	30.3	31.2	33.5	34.8
H69	26.7	28.4	29.2	31.5	32.8
H70	30.7	32.3	33.2	35.4	36.7

2. TABULATED NOISE PREDICTION RESULTS FOR LOWER NOISE EMISSION SCENARIO (OMNI-DIRECTIONAL)

Table 2-1 Predicted Turbine Noise Levels Cumulative (lower noise emission scenario)

Location Ref	Predicted Noise Level dB LA90 at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H01	27.5	31.3	34.7	35.8	36.2
H02	23.6	28.3	32.3	33.4	33.8
H03	25.2	30	34.1	35.3	35.6
H04	31.9	35.8	39.3	40.4	40.8
H05	24.9	29.4	33.2	34.4	34.8
H06	37.3	40.9	43.9	44.9	45.4
H07	26.2	30.2	33.7	34.8	35.2
H08	28.8	32.8	36.2	37.3	37.7
H09	31.9	35.9	39.3	40.4	40.9
H10	30.1	35	39.1	40.4	40.8
H11	35.6	39.3	42.5	43.5	44
H12	26.4	30.3	33.8	34.8	35.3
H13	23.6	28.2	32.1	33.2	33.6
H14	24.4	29.1	33.2	34.4	34.7
H15	23.8	28.2	32	33.1	33.5
H16	31.1	35.3	38.9	40.1	40.5
H17	31.8	35.8	39.2	40.4	40.8
H18	31.9	35.8	39.3	40.4	40.8
H19	27.8	32.7	36.7	38	38.4
H20	27.6	31.5	34.9	35.9	36.4
H21	31.1	34.8	38	39.1	39.5
H22	36.7	40.2	43.3	44.3	44.8
H23	37.3	40.8	43.9	44.9	45.4
H24	26.6	30.7	34.2	35.3	35.7
H25	27.3	31.4	34.9	36	36.4
H26	27.6	31.7	35.1	36.3	36.7
H27	28	31.8	35.2	36.3	36.8
H28	30.5	34.7	38.4	39.6	40
H29	29.6	33.4	36.6	37.6	38.1
H30	25.8	29.6	32.9	33.9	34.4
H31	26.4	30.2	33.4	34.5	35
H32	35.3	38.9	42	43.1	43.6
H33	30	34.6	38.6	39.9	40.3
H34	26.8	31.5	35.5	36.7	37.1
H35	25.4	29.3	32.6	33.7	34.2
H36	26.4	30.3	33.7	34.8	35.3
H37	29.9	33.6	36.8	37.9	38.4
H38	29.2	33.2	36.6	37.8	38.2
H39	28.2	32.1	35.4	36.6	37
H40	27.8	31.9	35.4	36.6	37

Location Ref	Predicted Noise Level dB LA90 at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H41	26.4	30.3	33.8	34.9	35.3
H42	25.7	29.6	32.9	34	34.4
H43	25.8	30.1	33.8	35	35.4
H44	26.4	30.4	33.8	34.9	35.4
H45	26.4	30.4	33.8	34.9	35.3
H46	26.3	31.1	35.1	36.4	36.7
H47	23.8	28.2	31.9	33.1	33.5
H48	23.8	28.3	32.1	33.3	33.7
H49	23.7	28.1	31.8	33	33.4
H50	23.6	28	31.7	32.8	33.3
H51	23.2	27.6	31.5	32.6	33
H52	23.1	27.6	31.5	32.6	33
H53	38.9	42.4	45.4	46.4	46.9
H54	27.4	31.3	34.6	35.7	36.2
H55	26.7	30.7	34.1	35.2	35.7
H56	32.2	36.1	39.5	40.6	41
H57	29.3	33.9	37.8	39	39.4
H58	26.1	30	33.4	34.5	35
H59	27	31.1	34.6	35.7	36.1
H60	26.9	31	34.5	35.7	36.1
H61	32.1	36.2	39.7	40.9	41.3
H62	31.2	35.3	38.8	39.9	40.4
H63	25.9	29.7	33.1	34.2	34.6
H64	28.1	32.1	35.5	36.6	37.1
H65	23.6	28.1	32	33.1	33.5
H66	24.2	28.5	32.1	33.2	33.7
H67	24	28.3	31.9	33	33.5
H68	32.7	36.4	39.6	40.6	41.1
H69	26.4	30.4	33.9	35	35.4
H70	30.2	34.2	37.7	38.8	39.2

Table 2-2 Predicted Turbine Noise Taurbeg Turbines Only (lower noise emission scenario)

Location Ref	Predicted Noise Level dB LA90 at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H01	15.8	23	28	29.3	29.6
H02	17.5	24.6	29.6	30.9	31.2
H03	19.5	26.6	31.6	33	33.3
H04	21.4	28.5	33.5	34.9	35.2
H05	17.9	25	30	31.4	31.7
H06	17	24.1	29.1	30.4	30.8
H07	16	23.1	28.1	29.4	29.7
H08	17.9	25	30	31.4	31.7
H09	21.3	28.4	33.4	34.8	35.2
H10	24.8	31.9	36.9	38.4	38.7
H11	20.2	27.3	32.3	33.8	34.1
H12	15.6	22.7	27.7	29	29.3
H13	17	24.1	29.1	30.4	30.7
H14	18.6	25.7	30.7	32	32.3
H15	16.2	23.2	28.2	29.6	29.9
H16	22.4	29.5	34.5	36	36.3
H17	21.5	28.6	33.6	35	35.3
H18	21.3	28.4	33.4	34.9	35.2
H19	22.3	29.4	34.4	35.9	36.2
H20	16.1	23.2	28.2	29.5	29.8
H21	16.9	24	29	30.4	30.7
H22	17.6	24.6	29.6	31	31.3
H23	15.1	22.2	27.2	28.5	28.8
H24	16.8	23.9	28.9	30.3	30.6
H25	17.7	24.8	29.8	31.2	31.5
H26	17.6	24.7	29.7	31.1	31.4
H27	16.4	23.5	28.5	29.9	30.2
H28	22	29.2	34.2	35.6	35.9
H29	15.5	22.6	27.6	28.9	29.2
H30	13.4	20.4	25.4	26.7	27
H31	13.1	20.2	25.2	26.5	26.8
H32	18	25.1	30.1	31.5	31.8
H33	23.8	30.9	35.9	37.4	37.7
H34	20.8	27.9	32.9	34.4	34.7
H35	13.9	21	26	27.3	27.6
H36	15.7	22.8	27.8	29.2	29.5
H37	16	23	28	29.4	29.7
H38	19	26.1	31.1	32.5	32.8
H39	17	24.1	29.1	30.5	30.8
H40	18.2	25.4	30.4	31.8	32.1
H41	15.7	22.8	27.8	29.2	29.5
H42	13.7	20.8	25.8	27.1	27.4
H43	17.7	24.8	29.8	31.2	31.5
H44	16.1	23.2	28.2	29.6	29.9

Location Ref	Predicted Noise Level dB LA90 at Standardised Wind Speed at 10m				
	6m/s	7m/s	8m/s	9m/s	10m/s
H45	15.6	22.7	27.7	29	29.4
H46	20.5	27.6	32.6	34	34.3
H47	16.1	23.2	28.2	29.6	29.9
H48	16.8	23.9	28.9	30.2	30.5
H49	16	23.1	28.1	29.4	29.8
H50	15.9	23	28	29.3	29.6
H51	16.1	23.2	28.2	29.5	29.8
H52	16.2	23.3	28.3	29.6	29.9
H53	16.5	23.6	28.6	29.9	30.2
H54	15.9	23	28	29.4	29.6
H55	16.5	23.6	28.6	30	30.3
H56	20.9	28	33	34.4	34.6
H57	22.6	29.7	34.7	36.2	36.5
H58	15.3	22.4	27.4	28.7	29
H59	17.3	24.4	29.4	30.8	31.1
H60	17.4	24.5	29.5	30.9	31.2
H61	22.5	29.6	34.6	36	36.4
H62	21.4	28.5	33.5	35	35.3
H63	14.2	21.2	26.2	27.6	27.9
H64	17.8	24.9	29.9	31.3	31.6
H65	16.7	23.8	28.8	30.2	30.5
H66	15.8	22.9	27.9	29.2	29.5
H67	15.6	22.7	27.7	29	29.3
H68	18	25.1	30.1	31.5	31.8
H69	15.9	23	28	29.4	29.7
H70	20.1	27.2	32.2	33.6	33.9