

7 April 2011

Judge Laurie Newhook
Chairman, Board of Inquiry for Waterview Project
c/- Specialist Courts and Tribunals Centre
Level 2
41 Federal Street (Cnr. Wyndham Street)
Auckland 1010

Dear Judge Newhook

**WATERVIEW CONNECTION PROJECT - ADDENDUM TO APPENDIX F TECHNICAL REPORT G.12:
ASSESSMENT OF OPERATIONAL NOISE EFFECTS**

Option 4 for Sector 9 South

We refer to the email from the Environmental Protection Authority (EPA) on Monday 4 April 2011, written on behalf of the Board of Inquiry (Board), querying the absence of the detailed modelling results for the Option 4 mitigation option for Sector 9 South from Appendix F of Technical Report G.12: *Assessment of Operational Noise (the Report)*. We **enclose** an updated copy of the modelling results now incorporating Option 4 for Sector 9 South and apologise for any confusion that may have resulted. We have checked with the Report's author (Ms Siiri Wilkening) who confirms that the results were inadvertently omitted from the final Report.

We note that despite this omission, the Option 4 modelling results were nonetheless provided in the Report as lodged, albeit in a different format. The results were visually depicted in Figure F(iv) *Sector 9 South Mitigation Option 4 (2026)*, of Appendix F to that Report. That Figure maps all of the dwellings listed in the omitted modelling results and classifies which noise Category those dwellings are expected to be within for mitigation Option 4¹. The updated table enclosed with this letter provides the same information, but identifies properties by street address and name (rather than on a map), and provides the modelling results for Option 4 in dB L_{Aeq(24h)}².

Confirmation of BPO option for Sector 9 North

The Board has also identified that the Sector 9 North material in Appendix F to the Report does not state the preferred BPO option.

We apologise for this further omission, but confirm that, as identified by the Board, the Sector 9 preferred options drawing in Appendix E to the Report shows that Option 4 is the BPO. The Report also confirms that Option 4 is the Project team's preferred option in terms of the BPO requirements in:

¹ In summary, the Figure shows in Green 'Category A' dwellings, where the predicted noise is less than 64 dB L_{Aeq(24h)}, Category B dwellings, where the predicted noise is higher than 64 dB L_{Aeq(24h)} and including 67 dB L_{Aeq(24h)} and Category C, where the predicted noise is above 67 dB L_{Aeq(24h)} (although there are no such dwellings in this category for Option 4).

² It is noted that in the lodged version of Technical Report G.12, Appendix F did include the Table data but this was only for the Existing Noise, Do Minimum and Options 1, 2 and 3. It appears that Option 4 has inadvertently been omitted from the Table.

- Section 8.9.2 where the options for Sector 9 North are discussed, with the conclusion that Option 4 is preferred (section 8.9.2.4, page 71), and
- Section 8.9.4 (page 74) which summarises the preferred mitigation options in Sector 9.

We hope that the above information responds sufficiently to the Board's concerns and again apologise for any inconvenience caused.

As requested, we will serve a copy of this letter and the attached information on those parties wishing to be heard in the Waterview Connection Project.

Yours sincerely



Sarah Cronwright
Project Consenting Planner
Waterview Connection

Cc Kim Morgan Environmental Protection Authority
Todd Webb Environmental Protection Authority
Submitters who indicated a wish to be heard.

Encl.

No.	Name	Road Layout Year Mitigation	Existing 2010 no	Noise Performance Criteria		Existing higher than		Do-Minimum			Mitigation Option 1			Mitigation Option 2			
				Cat A	Cat B	Category A	Category B	Widening 2026 no mitigation	Exceeds Cat A	Exceeds Cat B	Change to Do-Nothing	Project 2026 Barriers up to 5m	Compliance Category	Structural Mitigation	Project 2026 Barriers up to 4m	Compliance Category	Structural Mitigation
No.	Name	Floor	dB LAeq(24h)	dB LAeq(24h)	dB LAeq(24h)	dB	dB	dB LAeq(24h)	dB	dB	dB	dB LAeq(24h)		dB	dB LAeq(24h)		dB
1	Methuen 088	1. Floor	48	64	67			47			-1	47	A	0	47	A	0
2		2. Floor	50	64	67			50			0	50	A	0	50	A	0
3	Methuen 096	1. Floor	49	64	67			49			1	49	A	0	49	A	0
4		2. Floor	51	64	67			52			1	52	A	0	52	A	0
5	Methuen 098	1. Floor	49	64	67			60			11	60	A	0	60	A	0
6		2. Floor	52	64	67			61			9	61	A	0	61	A	0
7	Methuen 100	1. Floor	51	64	67			55			4	55	A	0	55	A	0
8	Methuen 102	1. Floor	50	64	67			55			5	55	A	0	55	A	0
9		2. Floor	52	64	67			60			8	61	A	0	60	A	0
10	Methuen 104	1. Floor	52	64	67			56			4	56	A	0	56	A	0
11	Methuen 106	1. Floor	52	64	67			62			11	62	A	0	62	A	0
12	Methuen 110	1. Floor	52	64	67			63			11	62	A	0	62	A	0
13	Methuen 112	1. Floor	50	64	67			63			13	62	A	1	62	A	1
14		2. Floor	52	64	67			63			12	63	A	0	63	A	0
15	Methuen 114	1. Floor	51	64	67			58			8	58	A	0	58	A	0
16	Methuen 116	1. Floor	50	64	67			61			11	60	A	1	60	A	1
17		2. Floor	52	64	67			62			11	62	A	0	62	A	0
18	Methuen 156	1. Floor	48	64	67			53			6	52	A	2	52	A	1
19	Methuen 158	1. Floor	45	64	67			52			7	51	A	1	51	A	1
20		2. Floor	49	64	67			56			7	53	A	3	54	A	2
21	Methuen 160	1. Floor	46	64	67			54			8	52	A	2	52	A	2
22		2. Floor	50	64	67			56			6	54	A	2	54	A	2
23	Methuen 162	1. Floor	47	64	67			55			8	53	A	2	53	A	2
24		2. Floor	50	64	67			57			6	54	A	3	55	A	2
25	Methuen 164	1. Floor	46	64	67			55			9	53	A	2	53	A	2
26		2. Floor	50	64	67			57			7	55	A	2	55	A	2
27	Methuen 166	1. Floor	49	64	67			55			5	53	A	1	54	A	1
28	Methuen 168	1. Floor	46	64	67			56			10	54	A	3	54	A	2
29		2. Floor	50	64	67			59			9	56	A	3	57	A	3
30	Methuen 170	1. Floor	49	64	67			60			11	56	A	4	57	A	3
31		2. Floor	51	64	67			62			11	57	A	4	58	A	3
32	Methuen 172	1. Floor	49	64	67			61			12	57	A	4	58	A	3
33		2. Floor	51	64	67			63			12	59	A	5	60	A	4
34	Methuen 176	1. Floor	48	64	67			62			14	57	A	5	58	A	4
35		2. Floor	51	64	67			65	1		13	60	A	5	61	A	4
36	Methuen 178	1. Floor	50	64	67			66	2		15	60	A	6	62	A	4
37		2. Floor	52	64	67			67	3		15	62	A	5	64	A	3
38	Methuen 180	1. Floor	51	64	67			68	4	1	17	61	A	6	63	A	5
39		2. Floor	52	64	67			69	5	2	16	64	A	5	65	B	4
40	Methuen 182	1. Floor	51	64	67			68	4	1	18	62	A	6	64	A	5
41		2. Floor	53	64	67			69	5	2	17	64	A	5	66	B	4
42	Methuen 184	1. Floor	51	64	67			69	5	2	18	62	A	6	64	A	5
43		2. Floor	53	64	67			70	6	3	17	64	A	5	66	B	4
44	Methuen 186	1. Floor	50	64	67			68	4	1	18	61	A	7	62	A	6
45		2. Floor	52	64	67			69	5	2	17	63	A	6	64	A	5
46	Methuen 188	1. Floor	49	64	67			68	4	1	19	60	A	8	61	A	7
47		2. Floor	52	64	67			70	6	3	18	63	A	7	64	A	6
48	Methuen 190	1. Floor	49	64	67			68	4	1	19	60	A	9	61	A	7
49		2. Floor	52	64	67			70	6	3	18	63	A	7	64	A	6
50	Methuen 192	1. Floor	49	64	67			65	1		15	59	A	5	60	A	5
51		2. Floor	52	64	67			68	4	1	16	63	A	5	63	A	5
52	Methuen 194	1. Floor	49	64	67			68	4	1	19	62	A	6	61	A	8
53		2. Floor	51	64	67			69	5	2	18	64	A	5	63	A	6
54	Methuen 194A	1. Floor	49	64	67			70	6	3	21	62	A	8	62	A	8
55		2. Floor	51	64	67			72	8	5	20	64	A	7	65	B	7
56	Methuen 196	1. Floor	49	64	67			65	1		17	61	A	4	60	A	6
57		2. Floor	51	64	67			67	3		15	63	A	4	61	A	5
58	Methuen 200	1. Floor	50	64	67			65	1		15	61	A	4	60	A	5
59	Richardson 249/1	1. Floor	59	64	67			62	3		3	62	A	0	62	A	1
60	Richardson 249/2	1. Floor	54	64	67			62	8		8	61	A	1	60	A	1
61		2. Floor	57	64	67			63	6		6	62	A	1	62	A	1
62	Richardson 249/3	1. Floor	62	64	67			58	-4		-4	58	A	0	58	A	0
63		2. Floor	64	64	67			61	-3		-3	61	A	0	61	A	0
64	Valonia 08	1. Floor	58	64	67			63	4		4	63	A	0	61	A	2
65		2. Floor	59	64	67			64	5		5	64	A	0	63	A	1
66	Valonia 17	1. Floor	50	64	67			66	2		15	65	B	1	65	B	1
67	Valonia 19	1. Floor	48	64	67			64			16	64	A	0	64	A	0
68	Valonia 21	1. Floor	47	64	67			64			17	64	A	0	63	A	1
69	Valonia 23	1. Floor	46	64	67			63			17	62	A	0	61	A	1
Average Structural Mitigation											Cat A	99%	4	Cat A	93%	4	
											Cat B	1%		Cat B	7%		
											Cat C	0%		Cat C	0%		
											Cat A	68		Cat A	64		
											Cat B	1		Cat B	5		
											Cat C	0		Cat C	0		

No.	Name	Road Layout Year Mitigation	Mitigation Option 3			Mitigation Option 4		
			Project 2026 Barriers up to 6m	Compliance Category	Structural Mitigation	Project 2026 Barriers up to 5m	Compliance Category	Structural Mitigation
No.	Name	Floor	dB LAeq(24h)		dB	dB LAeq(24h)		dB
1	Methuen 088	1. Floor	47	A	0	47	A	0
2		2. Floor	50	A	0	50	A	0
3	Methuen 096	1. Floor	49	A	0	49	A	0
4		2. Floor	52	A	0	52	A	0
5	Methuen 098	1. Floor	59	A	1	60	A	0
6		2. Floor	60	A	0	61	A	0
7	Methuen 100	1. Floor	54	A	1	55	A	0
8	Methuen 102	1. Floor	55	A	0	55	A	0
9		2. Floor	60	A	0	61	A	0
10	Methuen 104	1. Floor	55	A	0	56	A	0
11	Methuen 106	1. Floor	61	A	2	62	A	0
12	Methuen 110	1. Floor	61	A	2	62	A	0
13	Methuen 112	1. Floor	60	A	2	62	A	1
14		2. Floor	62	A	2	63	A	0
15	Methuen 114	1. Floor	57	A	1	58	A	0
16	Methuen 116	1. Floor	57	A	3	60	A	1
17		2. Floor	60	A	2	62	A	0
18	Methuen 156	1. Floor	51	A	3	52	A	1
19	Methuen 158	1. Floor	50	A	2	51	A	1
20		2. Floor	52	A	4	54	A	2
21	Methuen 160	1. Floor	51	A	4	52	A	2
22		2. Floor	52	A	4	54	A	2
23	Methuen 162	1. Floor	51	A	4	53	A	2
24		2. Floor	53	A	4	55	A	2
25	Methuen 164	1. Floor	52	A	3	53	A	2
26		2. Floor	53	A	4	55	A	2
27	Methuen 166	1. Floor	52	A	2	54	A	1
28	Methuen 168	1. Floor	52	A	4	54	A	2
29		2. Floor	55	A	5	57	A	3
30	Methuen 170	1. Floor	54	A	5	57	A	3
31		2. Floor	56	A	6	58	A	3
32	Methuen 172	1. Floor	56	A	6	58	A	3
33		2. Floor	57	A	6	60	A	4
34	Methuen 176	1. Floor	56	A	6	58	A	4
35		2. Floor	58	A	6	61	A	4
36	Methuen 178	1. Floor	58	A	8	62	A	4
37		2. Floor	60	A	7	64	A	3
38	Methuen 180	1. Floor	60	A	8	63	A	4
39		2. Floor	62	A	7	65	B	4
40	Methuen 182	1. Floor	61	A	8	64	A	5
41		2. Floor	62	A	7	66	B	4
42	Methuen 184	1. Floor	61	A	8	64	A	5
43		2. Floor	62	A	7	66	B	4
44	Methuen 186	1. Floor	59	A	9	62	A	6
45		2. Floor	61	A	8	64	A	5
46	Methuen 188	1. Floor	59	A	10	61	A	7
47		2. Floor	61	A	9	64	A	6
48	Methuen 190	1. Floor	59	A	10	61	A	7
49		2. Floor	61	A	9	64	A	6
50	Methuen 192	1. Floor	58	A	7	60	A	5
51		2. Floor	61	A	6	63	A	5
52	Methuen 194	1. Floor	61	A	8	60	A	8
53		2. Floor	62	A	7	63	A	6
54	Methuen 194A	1. Floor	61	A	9	62	A	9
55		2. Floor	63	A	9	64	A	7
56	Methuen 196	1. Floor	60	A	5	60	A	6
57		2. Floor	61	A	5	62	A	5
58	Methuen 200	1. Floor	60	A	5	59	A	5
59	Richardson 249/1	1. Floor	61	A	1	63	A	0
60	Richardson 249/2	1. Floor	60	A	2	62	A	0
61		2. Floor	61	A	1	63	A	0
62	Richardson 249/3	1. Floor	58	A	0	58	A	0
63		2. Floor	61	A	0	61	A	0
64	Valonia 08	1. Floor	60	A	2	61	A	1
65		2. Floor	62	A	2	63	A	1
66	Valonia 17	1. Floor	63	A	3	63	A	3
67	Valonia 19	1. Floor	61	A	3	60	A	4
68	Valonia 21	1. Floor	62	A	2	60	A	4
69	Valonia 23	1. Floor	60	A	2	58	A	4
Average Structural Mitigation			Cat A	100%	6	Cat A	96%	4
			Cat B	0%		Cat B	4%	
			Cat C	0%		Cat C	0%	
			Cat A	69		Cat A	66	
			Cat B	0		Cat B	3	
			Cat C	0		Cat C	0	