APPENDIX 11-2

PREDICTED CONSTRUCTION PHASE LAEQ 1H LEVELS

Rialtas na hÉireann
Government of Ireland

Arna chomhchistiú ag an Aontas Eorpach
Co-funded by the European Union

Tionól Reigiúnach Oirthir agus Lár-Tíre
Eastern and Midland Regional Assembly

Fáilte Ireland

Comhairle Contae Ros Comáin
Roscommon County Council

Waterways Ireland

The Hodson Bay Waterfront Park Project is co-funded by the Government of Ireland and the European Union through the EU Just Transition Fund

Table A11-2-1 Predicted construction phase $L_{Aeq\ 1\,h}$ levels (dB) at receptors – Scenarios 1-6.

Receptor	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6
R001	31	32	24	<20	20	<20
R002	32	33	27	<20	20	<20
R003	32	33	28	<20	21	<20
R004	35	35	30	21	22	<20
R005	31	32	28	<20	20	<20
R006	35	36	30	22	23	<20
R007	31	32	23	19	20	<20
R008	24	27	25	<20	<20	<20
R009	31	32	28	19	20	<20
R010	20	24	21	<20	<20	<20
R011	31	32	28	<20	20	<20
R012	33	33	28	20	21	<20
R013	31	32	28	<20	20	<20
R014	<20	21	<20	<20	<20	<20
R015	32	33	28	20	21	<20
R016	31	32	28	<20	21	<20
R017	23	26	23	<20	<20	<20
R018	<20	<20	<20	<20	<20	<20
R019	20	24	21	<20	<20	<20
R020	34	35	29	22	23	<20
R021	<20	<20	<20	<20	<20	<20
R022	<20	21	<20	<20	<20	<20
R023	32	33	28	20	21	<20
R024	32	33	28	20	21	<20
R025	33	34	28	21	22	<20
R026	35	35	29	22	23	<20
R027	<20	<20	<20	<20	<20	<20
R028	34	35	28	21	22	<20
R029	<20	<20	<20	<20	<20	<20
R030	34	34	30	23	24	<20
R031	31	32	30	<20	21	<20
R032	32	33	27	20	21	<20
R033	35	36	30	22	23	<20
R034	32	33	30	20	21	<20
R035	34	35	27	21	22	<20
R036	<20	<20	<20	<20	<20	<20
R037	34	35	32	21	22	<20
R038	36	37	33	23	24	<20
R039	35	36	30	22	23	<20
R040	34	35	32	22	23	<20
R041	35	36	31	22	23	<20
R042	35	36	32	23	24	<20
R043	34	35	29	22	23	<20
R044	35	36	31	23	23	<20
R045	36	37	30	23	24	<20
R046	33	34	29	21	22	<20
R047	37	37	33	24	25	<20
R048	31	32	28	<20	<20	<20
R049	35	36	29	22	23	<20
R050	35	36	33	23	24	<20
R051	27	30	26	<20	<20	<20
R052	20	24	22	<20	<20	<20
R053	38	38	35	25	26	<20
R054	33	33	33	20	20	<20
R055	36	36	33	20	21	<20
R056	<20	23	23	<20	<20	<20
R057	37	38	34	24	25	<20
R058	37	38	34	24	25	<20
R059	25	28	26	<20	<20	<20
R060	38	38	35	25	26	<20
R061	37	38	32	24	26	<20

Receptor	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6
R062	40	41	37	27	28	<20
R063	38	38	35	25	26	<20
R064	27	30	29	<20	<20	<20
R065	38	38	32	25	26	<20
R066	36	37	31	20	22	<20
R067	30	32	27	<20	<20	<20
R068	34	35	33	22	21	<20
R069	35	36	30	23	24	<20
R070	27	29	27	<20	<20	<20
R071	38	39	32	25	26	<20
R072	35	36	32	23	24	<20
R073	35	37	31	23	24	<20
R074	38	39	31	24	25	<20
R075	25	28	30	<20	<20	<20
R076	26	29	30	<20	<20	<20
R077	37	38	31	25	26	<20
R078	39	39	36	26	28	<20
R079	36	37	31	25	27	<20
R080	<20	23	23	<20	<20	<20
R081	41	41	33	28	28	20
R082	37	37	30	24	25	<20
R083	43	43	40	30	31	22
R084	37	38	31	25	26	<20
R085	40	40	34	27	28	20
R086	40	40	36	27	29	20
R087	37	38	31	25	26	<20
R088	40	40	34	27	28	20
R089	42	42	38	29	30	21
R090	33	35	27	23	25	<20
R091	38	39	31	26	27	<20
R092	38	38	28	25	28	<20
R093	44	44	41	31	32	23
R094	40	41	34	27	29	20
R095	39	39	32	27	28	20
R096	41	41	37	28	29	21
R097	32	35	25	21	23	<20
R098	43	43	39	30	32	22
R099	42	43	33	29	30	22
R100	39	40	32	27	28	20
R101	39	39	32	27	28	<20
R102	41	41	30	28	30	21
R103	42	43	40	31	32	23
R104	41	41	30	29	30	21
R105	43	43	38	30	31	22
R106	41	41	32	29	30	22
R107	43	43	33	31	32	23
R108	43	43	35	30	31	23
R109	38	40	28	27	28	20
R110	41	42	32	29	30	22
R111	41	41	32	29	30	22
R112	43	43	33	31	32	23
R113	42	42	32	30	31	23
R114	41	41	35	23	25	20
R115	55	55	50	39	41	30
R116	54	54	53	41	42	32
R117	54	53	56	40	41	31
R118	50	50	47	36	37	27
R119	52	52	48	38	39	29
R120	49	49	49	36	37	29
R121-NE 2 m	60	59	46	51	53	45
R121-NE 5 m	60	60	48	51	53	45
R121-NE 8 m	60	60	51	53	55	46

Receptor	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6
R121-SE 2 m	55	55	44	47	48	44
R121-SE 5 m	55	56	44	47	48	44
R121-SE 8 m	58	58	45	47	48	44
R122	43	44	45	31	31	26

Table A11-2-2 Predicted construction phase $L_{Aeq\ 1\ h}$ levels (dB) at receptors – Scenarios 7-12.

Receptor	Scenario 7	Scenario 8	Scenario 9	Scenario 10	Scenario 11	Scenario 12
R001	<20	21	<20	32	27	20
R002	<20	22	<20	33	27	20
R003	<20	22	<20	33	27	20
R004	<20	24	21	35	29	22
R005	<20	21	<20	32	26	20
R006	<20	24	22	36	30	23
R007	<20	22	<20	32	27	20
R008	<20	<20	<20	21	<20	<20
R009	<20	21	<20	32	26	20
R010	<20	<20	<20	<20	<20	<20
R011	<20	22	<20	32	26	20
R012	<20	23	20	34	28	21
R013	<20	22	<20	35	27	20
R014	<20	<20	<20	<20	<20	<20
R015	<20	22	<20	33	27	21
R016	<20	22	<20	33	27	20
R017	<20	<20	<20	20	<20	<20
R018	<20	<20	<20	<20	<20	<20
R019	<20	<20	<20	20	<20	<20
R020	<20	24	22	36	30	23
R021	<20	<20	<20	<20	<20	<20
R022	<20	<20	<20	<20	<20	<20
R023	<20	22	<20	33	27	20
R024	<20	22	<20	33	27	20
R025	<20	23	20	34	28	22
R026	<20	25	22	36	30	23
R027	<20	<20	<20	<20	<20	<20
R028	<20	24	21	35	29	22
R029	<20	<20	<20	<20	<20	<20
R030	<20	26	21	37	29	24
R031	<20	22	<20	32	26	20
R032	<20	23	20	33	27	21
R033	<20	25	22	36	30	23
R034	<20	22	<20	32	27	20
R035	<20	24	21	35	29	22
R036	<20	<20	<20	<20	<20	<20
R037	<20	24	21	35	29	22
R038	<20	25	23	37	31	24
R039	<20	25	21	36	29	23
R040	<20	24	21	36	29	23
R041	<20	25	22	36	30	23
R042	<20	25	23	36	30	24
R043	<20	25	21	36	29	23
R044	<20	25	22	36	30	24
R045	<20	26	23	37	30	24
R046	<20	23	20	34	28	22
R047	<20	27	24	38	32	25
R048	<20	21	<20	32	26	20
R049	<20	25	<20	25	22	23
R050	<20	25	23	37	31	24
R051	<20	<20	<20	27	23	<20
R052	<20	<20	<20	<20	<20	<20
R053	<20	28	25	39	32	26
R054	<20	23	20	33	28	21

Receptor	Scenario 7	Scenario 8	Scenario 9	Scenario 10	Scenario 11	Scenario 12
R055	<20	26	21	36	30	24
R056	<20	<20	<20	<20	<20	<20
R057	<20	27	23	38	32	25
R058	<20	27	25	39	32	25
R059	<20	<20	<20	24	<20	<20
R060	<20	27	25	39	33	25
R061	<20	25	25	39	32	24
R062	<20	30	27	42	35	28
R063	<20	27	25	39	33	26
R064	<20	<20	<20	30	27	22
R065	<20	28	25	39	33	26
R066	<20	26	23	37	31	25
R067	<20	<20	<20	30	25	21
R068	<20	25	22	35	29	23
R069	<20	26	22	36	30	24
R070	<20	<20	<20	29	22	<20
R071	<20	27	24	37	31	26
R072	<20	26	22	36	30	24
R073	<20	25	22	35	30	24
R074	<20	26	25	40	33	24
R075	<20	<20	<20	28	24	<20
R076	<20	<20	<20	29	25	<20
R077	<20	27	24	37	32	26
R078	20	30	27	41	34	28
R079	<20	27	24	38	31	25
R080	<20	<20	<20	<20	<20	<20
R081	21	30	28	44	37	29
R082	<20	27	23	38	32	26
R083	23	31	30	45	38	31
R084	<20	28	24	38	32	26
R085	21	31	28	42	35	28
R086	21	30	28	42	35	29
R087	<20	28	25	39	33	26
R088	21	30	28	44	36	28
R089	22	32	29	44	37	30
R090	<20	24	23	36	31	22
R091	20	29	24	37	31	27
R092	<20	28	24	39	33	26
R093	24	34	32	46	39	32
R094	22	31	29	43	36	29
R095	21	30	27	41	34	28
R096	22	32	30	43	37	29
R097	<20	24	<20	32	28	22
R098	24	33	32	45	38	32
R099	23	33	29	45	38	30
R100	21	31	28	41	35	29
R101	20	30	25	41	34	28
R102	22	32	30	43	37	30
R103	24	35	30	45	38	33
R104	23	32	28	42	36	30
R105	23	34	31	45	39	31
R106	23	33	29	43	37	31
R107	24	35	29	44	38	33
R108	24	34	31	46	40	32
R109	22	29	25	37	33	28
R110	23	33	26	40	36	31
R111	23	33	28	43	37	31
R112	25	35	31	46	39	33
R113	24	34	30	45	38	32
R114	21	33	30	43	36	31
R115	32	36	32	48	42	37
R116	34	35	32	48	42	37

Receptor	Scenario 7	Scenario 8	Scenario 9	Scenario 10	Scenario 11	Scenario 12
R117	33	35	32	48	41	37
R118	29	33	30	45	39	34
R119	31	35	29	45	39	36
R120	30	33	30	46	39	34
R121-NE 2 m	46	50	43	58	52	61
R121-NE 5 m	46	50	44	58	53	61
R121-NE 8 m	46	50	44	58	53	61
R121-SE 2 m	44	54	44	57	51	52
R121-SE 5 m	44	54	45	57	51	52
R121-SE 8 m	44	54	45	57	53	54
R122	27	40	34	48	41	33

Table A11-2-3 Predicted construction phase $L_{Aeq\ 1\ h}$ levels (dB) at receptors – Scenarios 13-18.

Receptor	Scenario 13	Scenario 14	Scenario 15	Scenario 16	Scenario 17	Scenario 18
R001	20	20	22	22	<20	<20
R002	21	21	23	22	<20	<20
R003	21	21	23	23	<20	<20
R004	23	23	25	25	<20	<20
R005	20	20	22	22	<20	<20
R006	23	23	25	25	<20	<20
R007	21	21	23	22	<20	<20
R008	<20	<20	<20	<20	<20	<20
R009	20	20	22	22	<20	<20
R010	<20	<20	<20	<20	<20	<20
R011	20	21	23	22	<20	<20
R012	21	22	24	23	<20	<20
R013	21	21	23	23	<20	<20
R014	<20	<20	<20	<20	<20	<20
R015	21	22	25	25	<20	<20
R016	21	21	23	23	<20	<20
R017	<20	<20	<20	<20	<20	<20
R018	<20	<20	<20	<20	<20	<20
R019	<20	<20	<20	<20	<20	<20
R020	23	23	25	25	<20	<20
R021	<20	<20	<20	<20	<20	<20
R022	<20	<20	<20	<20	<20	<20
R023	21	21	23	23	<20	<20
R024	21	21	23	23	<20	<20
R025	22	22	24	24	<20	<20
R026	24	24	25	25	<20	<20
R027	<20	<20	<20	<20	<20	<20
R028	22	23	25	24	<20	<20
R029	<20	<20	<20	<20	<20	<20
R030	24	25	26	26	<20	<20
R031	21	21	23	23	<20	<20
R032	21	22	24	23	<20	<20
R033	24	24	26	25	<20	<20
R034	21	21	23	23	<20	<20
R035	23	23	25	24	<20	<20
R036	<20	<20	<20	<20	<20	<20
R037	23	23	25	25	<20	<20
R038	24	24	26	26	<20	<20
R039	24	24	26	27	<20	<20
R040	23	23	25	25	<20	<20
R041	24	24	26	26	<20	<20
R042	24	25	26	26	<20	<20
R043	23	24	25	25	<20	<20
R044	24	24	26	26	<20	<20
R045	25	25	27	26	<20	<20
R046	22	22	24	24	<20	<20
R047	25	26	27	27	<20	<20

Receptor	Scenario 13	Scenario 14	Scenario 15	Scenario 16	Scenario 17	Scenario 18
R048	21	20	21	21	<20	<20
R049	24	24	26	26	<20	<20
R050	24	24	26	26	<20	<20
R051	<20	<20	<20	<20	<20	<20
R052	<20	<20	<20	<20	<20	<20
R053	26	27	28	28	<20	<20
R054	22	22	24	24	<20	<20
R055	24	25	26	26	<20	<20
R056	<20	<20	<20	<20	<20	<20
R057	25	26	27	27	<20	<20
R058	26	26	28	27	<20	<20
R059	<20	<20	<20	<20	<20	<20
R060	26	26	28	27	<20	<20
R061	24	24	26	26	<20	<20
R062	28	28	30	30	<20	<20
R063	26	26	28	28	<20	<20
R064	<20	20	22	22	<20	<20
R065	27	27	29	29	<20	<20
R066	25	25	27	27	<20	<20
R067	20	19	21	20	<20	<20
R068	23	24	26	25	<20	<20
R069	25	25	27	27	<20	<20
R070	<20	<20	20	<20	<20	<20
R071	26	26	28	27	<20	<20
R072	24	25	27	26	<20	<20
R073	24	24	26	26	<20	<20
R074	25	26	27	27	<20	<20
R075	<20	<20	20	<20	<20	<20
R076	<20	<20	20	<20	<20	<20
R077	26	26	28	28	<20	<20
R078	28	29	30	30	<20	<20
R079	26	26	28	28	<20	<20
R080	<20	<20	<20	<20	<20	<20
R081	29	29	30	29	<20	<20
R082	26	27	28	28	<20	<20
R083	31	29	30	30	29	22
R084	26	27	29	29	<20	<20
R085	28	30	31	31	<20	<20
R086	29	29	30	30	<20	<20
R087	27	28	29	29	<20	<20
R088	29	29	31	31	<20	<20
R089	30	30	31	31	28	21
R090	22	23	25	24	<20	<20
R091	27	28	30	30	<20	<20
R092	27	27	29	29	<20	<20
R093	32	33	34	34	22	22
R094	29	30	32	32	<20	20
R095	28	29	31	31	<20	<20
R096	30	31	32	32	20	20
R097	23	23	25	25	<20	<20
R098	32	31	32	32	21	21
R099	31	32	33	33	21	21
R100	29	30	32	31	<20	<20
R101	28	29	31	31	<20	<20
R102	30	31	33	33	<20	<20
R103	33	34	35	35	22	22
R104	30	31	33	33	<20	<20
R105	31	33	34	34	21	22
R106	31	32	34	35	20	20
R107	33	34	35	35	21	21
R108	32	33	35	34	21	22
R109	28	29	31	30	<20	<20

Receptor	Scenario 13	Scenario 14	Scenario 15	Scenario 16	Scenario 17	Scenario 18
R110	31	32	34	34	<20	20
R111	31	32	34	34	<20	20
R112	32	34	36	36	21	22
R113	32	34	35	35	21	21
R114	31	32	34	33	<20	20
R115	37	35	36	35	38	36
R116	38	34	36	35	41	40
R117	37	34	35	35	40	41
R118	35	32	33	33	34	35
R119	36	34	35	35	38	38
R120	35	32	33	33	38	37
R121-NE 2 m	60	51	53	51	45	45
R121-NE 5 m	60	51	53	52	45	45
R121-NE 8 m	60	52	53	52	45	46
R121-SE 2 m	50	58	60	60	44	44
R121-SE 5 m	50	58	60	61	44	44
R121-SE 8 m	52	58	60	61	44	44
R122	34	40	43	43	27	28

Table A11-2-4 Predicted construction phase $L_{Aeq\ 1\ h}$ levels (dB) at receptors – Scenarios 19-22.

Receptor	Scenario 19	Scenario 20	Scenario 21	Scenario 22
R001	<20	<20	20	20
R002	<20	<20	21	20
R003	<20	<20	21	21
R004	<20	20	22	22
R005	<20	<20	20	20
R006	<20	20	22	22
R007	<20	<20	21	21
R008	<20	<20	<20	<20
R009	<20	<20	20	20
R010	<20	<20	<20	<20
R011	<20	<20	21	20
R012	<20	<20	21	21
R013	<20	<20	21	20
R014	<20	<20	<20	<20
R015	<20	<20	21	21
R016	<20	<20	21	21
R017	<20	<20	<20	<20
R018	<20	<20	<20	<20
R019	<20	<20	<20	<20
R020	<20	<20	22	22
R021	<20	<20	<20	<20
R022	<20	<20	<20	<20
R023	<20	<20	21	21
R024	<20	<20	21	21
R025	<20	<20	22	21
R026	<20	<20	22	22
R027	<20	<20	<20	<20
R028	<20	<20	22	22
R029	<20	<20	<20	<20
R030	<20	21	23	23
R031	<20	<20	21	21
R032	<20	<20	21	21
R033	<20	20	23	23
R034	<20	<20	21	21
R035	<20	<20	22	22
R036	<20	<20	<20	<20
R037	<20	<20	22	22
R038	<20	21	23	23
R039	<20	20	23	23
R040	<20	<20	22	22

Receptor	Scenario 19	Scenario 20	Scenario 21	Scenario 22
R041	<20	20	23	23
R042	<20	20	23	23
R043	<20	20	23	22
R044	<20	20	23	23
R045	<20	22	24	24
R046	<20	<20	22	22
R047	<20	22	24	24
R048	<20	<20	21	21
R049	<20	20	23	23
R050	<20	20	23	23
R051	<20	<20	21	20
R052	<20	<20	<20	<20
R053	<20	22	25	25
R054	<20	20	23	23
R055	<20	21	23	23
R056	<20	<20	<20	<20
R057	<20	22	24	24
R058	<20	22	25	25
R059	<20	<20	21	21
R060	<20	22	25	25
R061	<20	22	24	24
R062	<20	25	27	27
R063	<20	22	25	25
R064	<20	<20	<20	<20
R065	<20	23	25	25
R066	<20	<20	23	22
R067	<20	<20	21	21
R068	<20	20	23	23
R069	<20	21	24	23
R070	<20	20	22	22
R071	<20	23	25	25
R072	<20	21	24	23
R073	<20	22	24	24
R074	<20	22	25	25
R075	<20	<20	22	22
R076	<20	<20	22	22
R077	<20	23	25	25
R078	<20	23	26	26
R079	<20	24	26	26
R080	<20	<20	<20	<20
R081	<20	25	27	27
R082	<20	22	25	24
R083	22	27	29	29
R084	<20	22	25	25
R085	<20	24	26	26
R086	<20	24	27	27
R087	<20	23	25	25
R088	<20	24	27	26
R089	21	26	28	28
R090	<20	20	23	23
R091	<20	23	26	26
R092	<20	23	24	24
R093	22	28	30	30
R094	20	24	27	27
R095	<20	23	26	26
R096	21	25	27	27
R097	<20	<20	21	20
R098	22	27	29	29
R099	21	26	29	29
R100	<20	24	27	27
R101	<20	24	26	26
R102	20	25	27	27

Receptor	Scenario 19	Scenario 20	Scenario 21	Scenario 22
R103	23	26	29	28
R104	20	25	28	28
R105	22	26	29	28
R106	20	25	28	28
R107	22	27	30	30
R108	22	26	29	29
R109	<20	25	28	28
R110	20	26	28	28
R111	20	26	28	28
R112	23	27	29	29
R113	21	26	28	28
R114	20	26	28	28
R115	38	38	42	42
R116	40	49	50	49
R117	39	39	48	47
R118	35	40	41	40
R119	38	43	44	43
R120	37	42	41	39
R121-NE 2 m	45	45	45	45
R121-NE 5 m	45	45	46	46
R121-NE 8 m	47	46	46	47
R121-SE 2 m	44	44	44	44
R121-SE 5 m	44	44	44	44
R121-SE 8 m	44	44	44	44
R122	27	31	33	33