

APPENDIX L NOISE RESULTS

Operational - Scenario 1

Receiver	Distance from development infrastructure (m)	Distance from Invertor station (m)	Distance from BESS (m)	Predicted noise level from development infrastructure (dB (A))	Predicted noise level from invertor station (dB (A))	Predicted noise level from BESS (dB (A))	Combined predicted operational noise level (dB (A)) During standard hours	Combined predicted operational noise level (dB (A)) during evening hours
R30	654	853	3662	18	19	N/A	22	22
R31	462	653	3561	23	22	N/A	26	26
R29	279	433	3040	30	28	N/A	32	32
R28	985	1117	3196	13	15	N/A	17	17
R24	437	670	1524	24	22	40	37	37
R32	1143	1333	3540	11	13	N/A	15	15
R19	362	560	2836	26	25	18	29	29
R17	1157	1308	4106	11	13	N/A	15	15
R33	165	357	1313	37	31	42	41	41*
R34	384	593	1595	26	24	39	36	36
R14	308	486	1686	29	26	38	36	36
R09	584	706	2059	20	21	18	24	24
R08	977	1108	3692	13	15	N/A	17	17
R03	1363	1555	4569	8	10	N/A	12	12

Operational Scenario - 2

Receiver	Distance from BESS (m)	Predicted noise level from BESS (dB (A))
R30	3662	N/A
R31	3561	N/A
R29	3040	N/A
R28	3196	N/A
R24	1524	36
R32	3540	N/A
R19	2836	15
R17	4106	N/A
R33	1313	39
R34	1595	36
R14	1686	35
R09	2093	15
R08	3726	N/A
R03	4593	N/A

Operational - Scenario 3

Receiver	Distance from development infrastructure (m)	Distance from Invertor station (m)	Distance from BESS (m)	Predicted noise level from development infrastructure (dB (A))	Predicted noise level from invertor station (dB (A))	Predicted noise level from BESS (dB (A))	Combined predicted operational noise level (dB (A))
R30	654	853	3662	35	19	N/A	33
R31	462	653	3561	40	22	N/A	37
R29	279	433	3040	47	28	N/A	44
R28	985	1117	3196	30	15	N/A	27
R24	437	670	1524	24	2	46	41
R32	1143	1333	3540	28	13	N/A	25
R19	362	560	2836	43	25	18	41
R17	1157	1308	4106	28	13	N/A	25
R33	165	357	1313	54	31	45	51
R34	384	593	1595	43	24	42	42
R14	308	486	1686	46	26	41	44
R09	584	706	2059	37	21	21	34
R08	977	1108	3692	30	15	N/A	27
R03	1363	1555	4569	25	10	N/A	23

Operational - Scenario 4

Receiver	Distance from development infrastructure (m)	Distance from Invertor station (m)	Distance from BESS (m)	Predicted noise level from development infrastructure (dB (A))	Predicted noise level from invertor station (dB (A))	Predicted noise level from BESS (dB (A))	Combined predicted operational noise level (dB (A))
R30	654	853	3721	43	19	N/A	40
R31	462	653	3588	48	22	N/A	45
R29	279	433	3048	55	28	N/A	52
R28	985	1117	3240	38	15	N/A	35
R24	437	670	1533	49	22	43	47
R32	1143	1333	3554	36	13	N/A	33
R19	362	560	2858	51	25	21	48
R17	1157	1308	4092	36	13	N/A	33
R33	165	357	1329	31	62	45	59
R34	384	593	1675	51	24	42	48
R14	308	486	1721	54	26	41	51
R09	584	706	2093	45	21	21	42
R08	977	1108	3726	38	15	N/A	35
R03	1363	1555	4593	33	10	N/A	30

Operational - Scenario 5

Receiver	Distance from development infrastructure (m)	Distance from Invertor station (m)	Distance from BESS (m)	Predicted noise level from development infrastructure (dB (A))	Predicted noise level from invertor station (dB (A))	Predicted noise level from BESS (dB (A))	Combined predicted operational noise level (dB (A))
R30	654	853	3662	38	19	N/A	36
R31	462	653	3561	43	22	N/A	40
R29	279	433	3040	50	28	N/A	47
R28	985	1117	3196	33	15	N/A	30
R24	437	670	1524	44	22	43	43
R32	1143	1333	3540	31	13	N/A	28
R19	362	560	2836	46	25	21	44
R17	1157	1308	4106	31	13	N/A	28
R33	165	357	1313	56	31	45	54
R34	384	593	1595	46	42	24	44
R14	308	486	1686	49	26	41	46
R09	584	706	2059	40	21	21	37
R08	977	1108	3692	33	15	N/A	30
R03	1363	1555	4569	28	10	N/A	26

Cumulative Operational – scenario 1

Receiver	Distance from Culcairn Solar Farm infrastructure (m)	Distance (m) from Invertor station	Distance from Culcairn Solar Farm BESS (m)	Distance from Walla Walla Solar Farm Subject Land (m)	Predicted noise level from Culcairn Solar Farm infrastructure (dB (A))	Predicted noise level from Culcairn invertor station (dB (A))	Predicted noise level from Culcairn BESS (dB (A))	Predicted noise level from Walla Walla Solar Farm infrastructure (dB (A))	Combined predicted operational noise level (dB (A))
R17	1157	1308	4106	820	11	13	N/A	19	22

Cumulative Operational – scenario 2

Receiver	Distance from Culcairn Solar Farm infrastructure (m)	Distance (m) from Invertor station	Distance from Culcairn Solar Farm BESS (m)	Distance from Walla Walla Solar Farm Subject Land (m)	Predicted noise level from Culcairn Solar Farm infrastructure (dB (A))	Predicted noise level from Culcairn invertor station (dB (A))	Predicted noise level from Culcairn BESS (dB (A))	Predicted noise level from Walla Walla Solar Farm infrastructure (dB (A))	Combined predicted operational noise level (dB (A))
R17	1157	1308	4106	820	33	13	N/A	37	39