

Appendix 4.7.1
**Maximum Allowable SWLs of the
Planned Fixed Noise Sources**

Maximum Allowable SWLs of the Planned Fixed Noise Sources

Summary Table for Planned Fixed Sources (PFS)

PFS ID	Planned / Existing	X Coord.	Y Coord.
PFS-1	Planned (Project)	830689.2	839345.6

Summary Table for Representative NSRs

NAP	Planned / Existing	X Coord.	Y Coord.	ASR	Distance, m
					PFS-1
E01_FN01	Existing	830778.0	839450.6	B	137.5
E04_FN01	Existing	830802.5	839363.3	B	114.6
E08_FN01	Existing	830696.5	839221.9	A	123.9
EDU_FN01	Planned	830651.6	839602.1	B	259.2
EDU_FN02	Planned	830652.0	839626.0	B	282.8
EDU_FN03	Planned	830618.7	839626.6	B	289.7
SWA_FN01	Planned	830688.2	839358.9	B	13.4
SWA_FN02	Planned	830723.8	839359.9	B	37.4
B01_FN01	Planned	830666.4	839546.1	B	201.8
B02_FN01	Planned	830562.6	839536.1	B	228.7
B04_FN01	Planned	830709.8	839441.9	B	98.5
B05_FN01	Planned	830478.5	839428.1	B	226.3
B07_FN01	Planned	830443.3	839308.7	B	248.7
B08_FN01	Planned	830629.9	839339.8	B	59.7
B09_FN01	Planned	830676.6	839325.2	B	24.1
B09_FN02	Planned	830713.9	839322.9	B	33.5
B10_FN01	Planned	830462.1	839278.9	B	236.7

Back Calculations for the Maximum Allowable SWL. of PFS (Project)

PFS ID	NAP	Rationale	ASR	Distance, m	Criteria, dB(A) [1][2]		Correction, dB(A) [3]		Max. SWL, dB(A) [1]	
					D & E	N	DC	FC	D & E	N
PFS-1	SWA_FN01	Nearest NAP	B	13.4	50	41	31	-3	78	69
	E08_FN01	Stringent ASR Criteria	A	123.9	44	42	50	-3	91	89

Notes:

[1] D & E – Day and Evening Time Period (0700 – 2300 hours); N - Night Time Period (2300 – 0700 hours)

[2] Criteria for existing NSRs was determined by the measured background noise levels (with +3 dB(A) façade correction) as they are lower than ANL-5.

[3] DC - Distance Correction; TC - Tonality Correction; FC - Façade Correction