



**APPENDIX 9.2-B**  
Permissible Sound Level Calculation

**Table B1: Permissible Sound Level Calculation at Receptors**

Basic Nighttime Sound Level				Nighttime		Daytime	
Proximity to Transportation	Dwelling Unit Density [# per ¼ Section of land]			Receptors within McNab Strata Community	Other Receptors and Criteria Boundary	Receptors within McNab Strata Community	Other Receptors and Criteria Boundary
	1 to 8 Dwellings	9 to 160 Dwellings	>160 Dwellings				
Category 1	40	43	46	43	40	43	40
Category 2	45	48	51				
Category 3	50	53	56				
<b>Basic Sound Level (BSL)</b>				<b>43</b>	<b>40</b>	<b>43</b>	<b>40</b>
Daytime Adjustment							
Reason for Adjustment			Value [dBA L <sub>eq</sub> ]				
Adjustment for nighttime hours (22:00 to 07:00)			0	0	0	n/a	n/a
Adjustment for daytime hours (07:00 to 22:00)			10	n/a	n/a	10	10
<b>Nighttime/Daytime Adjustment</b>				<b>0</b>	<b>0</b>	<b>10</b>	<b>10</b>
Class A Adjustment							
Class	Reason for Adjustment	Value [dBA L <sub>eq</sub> ]					
A1	Seasonal Adjustment (1 Nov - 31 Mar)	5		n/a	n/a	n/a	n/a
A2	Absence of Both Tonal and Impulse/Impact Components	5		n/a	n/a	n/a	n/a



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A3	Ambient Monitoring Adjustment depending on the difference between the BSL and the measured Leq.	-10 to +10			0	0	0	0
<b>Total Class A Adjustments</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Class B Adjustment</b>								
Class	Reason for Adjustment	Value [dBA Leq]						
B1	1 day	15		n/a	n/a	n/a	n/a	n/a
B2	1 week	10		n/a	n/a	n/a	n/a	n/a
B3	< or = to 2 months	5		n/a	n/a	n/a	n/a	n/a
B4	> 2 months	0		0	0	0	0	0
Class B Adjustment = one only of B1, B2, B3 or B4								
<b>Total Class B Adjustment</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Permissible Sound Level (PSL) [dBA]</b>					<b>43</b>	<b>40</b>	<b>53</b>	<b>50</b>