

EXECUTIVE SUMMARY

HGC Engineering was retained by Union Gas Limited to undertake an updated Acoustic Assessment for the Airport Pool Station in St. Clair Township, Ontario. Previously, HGC Engineering prepared an Acoustic Assessment Report (“AAR”) in 2008 [1], which was entirely predictive, given that the facility had not yet been constructed. This updated AAR includes acoustic measurements of the as-built facility and serves to satisfy condition 5.1(2) of Environmental Compliance Approval 1949-7KRMC5, dated November 28, 2008, which requires that a current AAR be maintained.

Source sound level measurements of existing sources were conducted at the facility on September 12, 2012. The measured source sound levels were used as input to a predictive acoustical model to quantify the environmental sound emissions associated with the facility. Acoustic assessment criteria were established in accordance with the sound level limits in MOE guideline NPC-205.

The measurements and analysis indicate that the sound levels of the Airport Pool Station are within the sound level criteria of MOE publication NPC-205.

Table A3: Acoustic Assessment Summary Table

Point of Reception	Point of Reception Description	Sound Level at Point of Reception, L_{EQ} [dBA]	Verified by Acoustic Audit	Performance Limit, L_{EQ} [dBA]	Compliance with Performance Limit
R1	Upper storey window of two storey home approx. 600 metres S of station	38	Yes	45	Yes



ACOUSTICS



NOISE



VIBRATION