

EXECUTIVE SUMMARY

HGC Engineering was retained by Union Gas Limited to undertake an Acoustic Assessment of the Waubuno Pool Station in Moore Township, Ontario. Previously, HGC Engineering prepared an Acoustic Assessment Report (“AAR”) in 2008 [1]. This updated AAR includes upgrades that have occurred at the station since the 2008 AAR. This report serves to satisfy condition 5.1(2) of Environmental Compliance Approval 1949-7KRM5, 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 August 14, 2007. Sound emissions from upgraded equipment as well as the benefit of noise control measures installed since that time have been included herein based on manufacturer’s specifications. 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-232.

The measurements and analysis indicate that the predicted sound levels of the Waubuno Compressor Station meet the sound level criteria of MOE publication NPC-232 during a predictable worst case hour of operation at the station.



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. 280 metres NW of station	38	N	40	Y
R2	30 metres from single storey dwelling (in direction of station) approximately 280 metres N of station	37	N	40	Y
R3	30 metres from single storey dwelling (in direction of station) approximately 310 metres S of station	37	N	40	Y
R4	Upper storey window of two storey home approx. 460 metres NE of station	33	N	40	Y



ACOUSTICS



NOISE



VIBRATION