



REPORT

Acoustic Assessment Report
Durham-York Energy Centre

Submitted to:

Covanta Durham York Renewable Energy L.P.

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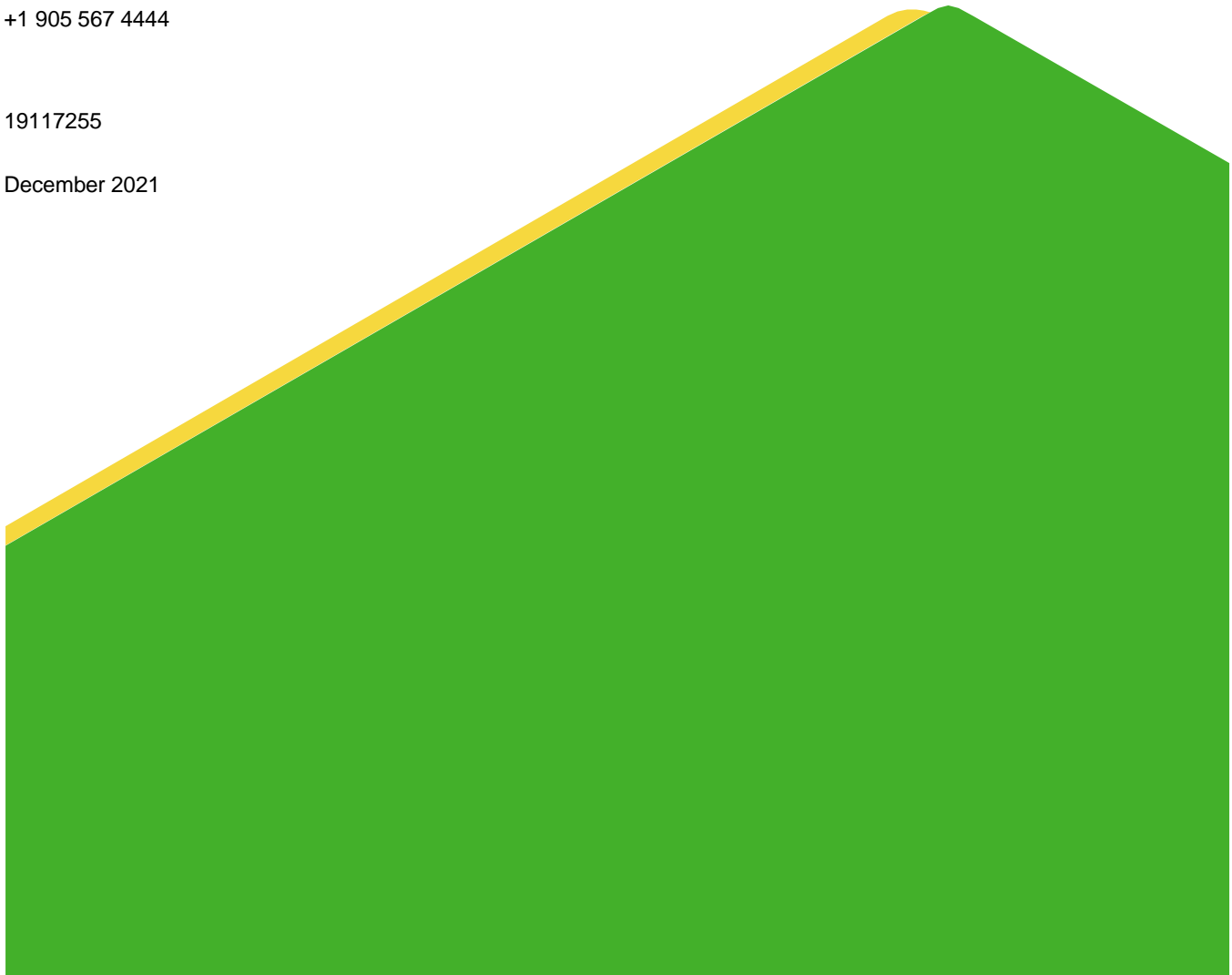
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December 2021



Distribution List

Electronic copy - Covanta Durham York Renewable Energy L.P.

Electronic copy - Golder Associates Ltd.

Version Control

This Acoustic Assessment Report (AAR) documents the operations at an Energy-from-Waste facility owned by the Regional Municipalities of Durham and York, the Durham York Energy Centre (DYEC) which is operated by Covanta Durham York Renewable Energy L.P. and has been prepared in accordance with Ontario Ministry of the Environment, Conservation and Parks (MECP) noise guidelines, NPC 233 “Information to be Submitted for Approval of Stationary Sources of Sound” (NPC 233) and NPC 300 “Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning” (NPC 300). The AAR is a living document and should be kept up-to-date at all times. Therefore, it is necessary to have appropriate version control. This version control will allow facility personnel, compliance auditors, or the MECP to track and monitor AAR changes over time.

As facility operations change and noise sources are added or removed, this AAR will need to be updated as required. When the AAR is updated, the version number should be updated accordingly.

Version	Date	Revision Description	Prepared By
1.0	March 2011	Original Acoustic Assessment Report in support of a Basic Comprehensive Certificate of Approval (Air and Noise) application.	Golder Associates Ltd.
2.0	December 2021	Updated Acoustic Assessment Report (AAR) in support of an Environmental Compliance Approval amendment application. AAR updated based on site measurements.	Golder Associates Ltd.

Executive Summary

The Regional Municipalities of Durham and York own an Energy-from-Waste facility (DYEC) located on the west side of Osborne Road located at the intersection of Osborne Road and Energy Drive, south of Highway 401 and north of a CN Rail Corridor in the Municipality of Clarington (the Facility). The Facility is a thermal treatment facility, capable of processing post-diversion residual waste and recovering materials and energy to export to the marketplace.

The Facility is operated by Covanta Durham York Renewable Energy L.P. (Covanta). The Regions are currently undertaking a streamlined Environmental Assessment (EA) to increase the maximum annual processing rate at the DYEC from 140,000 to 160,000 tonnes per year (TPY). The streamlined EA is being completed in accordance with the Environmental Screening Process as defined in Ontario Regulation 101/07. If approved, the Facility will process approximately 160,000 TPY of municipal solid waste (MSW) and capture its energy content in the form of superheated steam used to generate electricity. The Facility operates year-round, typically 24 hours per day, seven (7) days per week with reduced operations during the evening and nighttime periods (i.e., 19:00 to 07:00 hours). Operation of equipment that are limited to the daytime period (i.e., 07:00 to 19:00 hours) include the MSW trucking, transfer of Residual Waste, and periodic testing of standby diesel generator and diesel fire pumps.

Golder Associates Ltd. (Golder) was retained by Covanta to prepare an Acoustic Assessment Report (AAR) in support of the streamlined Environmental Assessment as well as an amendment application for the Facility's ECA. The purpose of this AAR is to evaluate the overall noise emissions of the Facility with respect to the Ontario Ministry of the Environment, Conservation and Parks (MECP) noise guidelines.

Significant noise sources associated with Facility operations include: HVAC units, roof ventilation units, closed-loop cooling water cooler, transformer, silo filling using truck mounted blower, silo vent dust collector, main exhaust stack, on-site truck traffic, front end loader traffic, air cooled condensers, various building openings (louvers, bay doors etc.), an emergency diesel generator and two emergency diesel fire pumps. Testing of the Facility's emergency diesel generator and emergency fire pumps is limited to daytime hours only (i.e., 07:00 to 19:00 hours).

All relevant sound levels for sources were obtained from onsite measurements which were used as inputs to a predictive acoustical model to quantify outdoor noise emissions associated with the Facility. The acoustical criteria was established in accordance with MECP publications NPC 233 (October, 1995) and NPC 300 (August, 2013).

Three (3) locations have been identified as being representative of the most sensitive Point(s) of Reception (POR(s)) in the vicinity of the Facility.

Golder predicted sound levels from the Facility at the identified PORs are below the applicable sound level limits during the predictable worst-case hour of the Facility during normal operation and during the periodic testing of the emergency diesel generator and emergency diesel fire pumps. Therefore, the Facility can operate in compliance with MECP noise guidelines as specified in NPC 300.

Site operations are not expected to be a significant source of vibration as defined by the MECP in NPC 207, and therefore a vibration assessment was not carried out.

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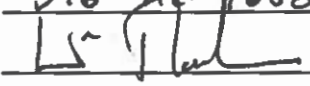
ACOUSTIC ASSESSMENT REPORT CHECKLIST

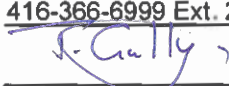
Company Name: Covanta Durham York Renewable Energy L.P.

Company Address: Durham York Energy Centre, 1835 Energy Dr Lot 27, Concession Broken Front, Part 1
Clarington Municipality, Regional Municipality of Durham, L1E 2R2

Location of Facility: Durham York Energy Centre, 1835 Energy Dr Lot 27, Concession Broken Front, Part 1
Clarington Municipality, Regional Municipality of Durham, L1E 2R2

The attached Acoustic Assessment Report was prepared in accordance with the guidance in the ministry document "Information to be Submitted for Approval of Stationary Sources of Sound" (NPC 233) dated October 1995 and the minimum required information identified in the check-list on the reverse of this sheet has been submitted.

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ACOUSTIC ASSESSMENT REPORT CHECKLIST

Required Information		Submitted	Explanation/Reference
1.0	Introduction (Project Background and Overview)	<input checked="" type="checkbox"/> Yes	Section 1.0
2.0	Facility Description		
	2.1 Operating hours of facility and significant Noise Sources	<input checked="" type="checkbox"/> Yes	Sections 2.0 and 3.0
	2.2 Site Plan identifying all significant Noise Sources	<input checked="" type="checkbox"/> Yes	Figures 2
3.0	Noise Source Summary		
	3.1 Noise Source Summary Table	<input checked="" type="checkbox"/> Yes	Table A1
	3.2 Source noise emissions specifications	<input type="checkbox"/> Yes	N/A
	3.3 Source power/capacity ratings	<input checked="" type="checkbox"/> Yes	Table A1
	3.4 Noise control equipment description and acoustical specifications	<input checked="" type="checkbox"/> Yes	Section 3.0
4.0	Point of Reception Noise Impact Calculations		
	4.1 Point of Reception Noise Impact Table	<input checked="" type="checkbox"/> Yes	Table SS1, EG1, FP11 and FP21
	4.2 Point(s) of Reception (POR) list and description	<input checked="" type="checkbox"/> Yes	Section 4.0
	4.3 Land-use Zoning Plan	<input checked="" type="checkbox"/> Yes	Appendix A
	4.4 Scaled Area Location Plan	<input checked="" type="checkbox"/> Yes	Figure 1
	4.5 Procedure used to assess noise impacts at each POR	<input checked="" type="checkbox"/> Yes	Sections 6.0
	4.6 List of parameters/assumptions used in calculations	<input checked="" type="checkbox"/> Yes	Section 6.0
5.0	Acoustics Assessment Summary		
	5.1 Acoustic Assessment Summary Table	<input checked="" type="checkbox"/> Yes	Table SS2, EG2, FP12 and FP22
	5.2 Rationale for selecting applicable noise guideline limits	<input checked="" type="checkbox"/> Yes	Section 5.0
	5.3 Predictable Worst Case Impacts Operating Scenario	<input checked="" type="checkbox"/> Yes	Sections 2.0 and 3.0
6.0	Conclusions		
	Statement of compliance with the selected noise performance limits	<input checked="" type="checkbox"/> Yes	Section 7.0
7.0	Appendices (Provide details such as)	<input type="checkbox"/> Yes	
	Listing of Insignificant Noise Sources	<input checked="" type="checkbox"/> Yes	Appendix D
	Manufacturer's Noise Specifications	<input type="checkbox"/> Yes	N/A
	Calculations	<input checked="" type="checkbox"/> Yes	Appendix G
	Instrumentation	<input checked="" type="checkbox"/> Yes	Appendix F
	Meteorology during Sound Level Measurements	<input checked="" type="checkbox"/> Yes	Appendix E
	Raw Data from Measurements	<input type="checkbox"/> Yes	N/A
	Drawings (Facility / Equipment)	<input type="checkbox"/> Yes	N/A

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1.0 INTRODUCTION

The Regional Municipalities of Durham and York own an Energy-from-Waste facility (DYEC) located on the west side of Osborne Road located at the intersection of Osborne Road and Energy Drive, south of Highway 401 and north of a CN Rail Corridor in the Municipality of Clarington (the Facility). The Facility is a thermal treatment facility, capable of processing post-diversion residual waste and recovering materials and energy to export to the marketplace.

The Facility is operated by Covanta Durham York Renewable Energy L.P. (Covanta). The Regions are currently undertaking a streamlined Environmental Assessment (EA) to increase the maximum annual processing rate at the DYEC from 140,000 to 160,000 tonnes per year (TPY). The streamlined EA is being completed in accordance with the Environmental Screening Process as defined in Ontario Regulation 101/07. The Facility thermally treats approximately 140,000 TPY of municipal solid waste and captures its energy content in the form of superheated steam used to generate electricity and potentially provide district heating to the neighbouring Courtice Waste Pollution Control Plant and Clarington Energy Park. The Facility incorporates a steam-turbine generator with a nameplate rating of approximately 20MW. The Facility is to be in full operation year-round and typically operates 24 hours per day, seven (7) days per week with reduced operations during the evening and nighttime periods (i.e. 19:00 to 07:00 hours). Operation of equipment that are limited to the daytime period (i.e., 07:00 to 19:00 hours) include the MSW trucking, transfer of Residual Waste, and periodic testing of standby diesel generator and diesel fire pumps.

Golder Associates Ltd. (Golder) was retained by Covanta to prepare an Acoustic Assessment Report (AAR) in support of an ECA amendment application for the Facility. The purpose of this AAR is to evaluate the overall noise emissions of the Facility with respect to the Ontario Ministry of Environment, Conservation and Parks (MECP) noise guidelines.

A site location plan showing the location of the Facility and the Points of Reception (PORs) is provided in Figure 1. Three (3) locations have been identified as being representative of the most sensitive receptor locations in the vicinity of the Facility in accordance with NPC 300 guidelines and are labelled as POR001 through POR003 in Figure 1. A site layout plan, showing the locations of the significant noise sources, is provided in Figure 2. A zoning map for the property and surrounding areas is provided in Appendix A.

Sound level limits for the Facility operations on neighbouring PORs were established in accordance with MECP noise guidelines. All relevant sound levels for sources were obtained from onsite measurements completed on November 29, 2019. Noise level predictions of the Facility's operations onto the neighbouring PORs were completed using this data to determine the potential noise impacts. For a description of technical terminology used in this report refer to Appendix B.

Site operations are not expected to be a significant source of vibration as defined by the MECP in NPC 207, and therefore a vibration assessment was not carried out.

2.0 FACILITY DESCRIPTION

The Facility provides a method of waste disposal through thermal waste treatment and generates electrical power via a steam-turbine generator. The Facility has provisions to extract steam from the process to supply heat to a future hot water district heating loop that could service the neighbouring Courtice Water Pollution Control Plant and the surrounding Energy Park. Additionally, the Facility recovers ferrous and non-ferrous metals from the ash residue stream for recycling.

The Facility consists of two (2) identical combustion trains, each designed to process a nominal 218 tonnes/day of MSW referenced at 13MJ/kg. Each train has identical boilers/furnaces and air pollution control equipment including carbon injection, dry scrubbers and fabric filters. The treated exhaust gases are vented to a common 87.6 m stack and released into the atmosphere. Although listed as a significant noise source later in the report in Section 3.0, the main exhaust stack was not audible over ambient background noise levels at any time or location during the November 2019 site visit.

Solid waste delivered to the facility is received within an enclosed tipping building. Refuse mixing and handling is carried out in the refuse pit and refuse feeding into the boilers is handled by one of two overhead grapple cranes.

After being charged into the feed chute hopper, the refuse is metered onto the fuel bed in a manner which continually mixes the combusting refuse, resulting in thorough burnout of combustible matter.

Natural gas is supplied by one (1) auxiliary burner in each furnace during start-up conditions to raise the temperature in the furnace to above 1000°C. This process takes about six (6) hours prior to solid waste being fed into the system. The residue from the combustion process that remains on the grate, referred to as bottom ash, is removed from the grate and quenched with water in an ash discharger. Bottom ash is removed from the ash discharger by a hydraulic ram that moves the bottom ash up an inclined surface onto a vibrating conveyor that promotes dewatering of the bottom ash.

The vibrating conveyor transports the material to the ferrous and non-ferrous metals recovery systems for separation, with the remaining residue discharged to dedicated bunks within the residue storage building. Fly ash and reaction products from the scrubber and baghouse hoppers are transported to the fly ash conditioners by a dedicated enclosed screw conveyor system. The fly ash conditioners thoroughly mix and stabilize the ash and deposit the conditioned material in a dedicated bunker in the residue building. All residue is loaded into vehicles for transport to a licensed disposal site.

In addition to the two (2) mass burn thermal treatment units (i.e., the combustion trains), the Facility also operates one (1) steam turbine generator with a maximum gross output of approximately 20 MW. The turbine generator set is designed to accept 72,000 kg/hr of steam.

The turbine exhausts directly to the air-cooled condenser. The air-cooled condenser is designed to accept full turbine bypass flow and can be isolated from the turbine under this mode of operation.

All major equipment not requiring direct contact with the environment is enclosed in buildings providing a controlled working environment and process isolation from the environment.

The Facility operates year-round, typically 24 hours per day, seven (7) days per week with waste deliveries only occurring during the daytime periods (i.e., 07:00 to 19:00 hours) from Monday to Saturday.

On site vehicles

Refuse is delivered to the Facility in fully enclosed transfer trailers. There is one (1) access route to the site. Vehicles enter the site from Darlington Park Road. All deliveries go through the gate and scale-house.

Based on the annual processing capacity and trucking, there could potentially be up to 27 trucks per day arriving at the site to drop off waste, and nine (9) trucks per day taking residual materials from the site, and reagent delivery, resulting in a conservative approximation of 36 trucks per day, excluding delivery trucks. For the purposes of this assessment, it was conservatively assumed that there could be up to ten (10) trucks on site during the predictable worst-case hour of operation.

In addition to on-site truck movements, the assessments consider up to three (3) reagent silo loading truck blowers operating simultaneously for the full hour under assessment.

The Facility operates two (2) front-end loaders which predominantly operate inside the tipping floor and residue building. The loaders are occasionally required to move between buildings to transfer materials. As such, Golder has conservatively assumed ten (10) loader trips, outside, during the predictable worst-case hour of operation.

3.0 NOISE SOURCE SUMMARY

The primary noise sources of concern include roof ventilation units, silo filling, air cooled condensers, a closed-loop cooling water cooler, silo dust collectors, HVAC units, transformers, louvers and bay doors, an emergency diesel generator, emergency diesel fire pumps, front-end loaders, on-site vehicle movements and idling and the main exhaust stack.

The overall sound power levels of the sources at the Facility are provided in Table A1 in the Tables Section, and their locations are illustrated in Figure 2. The octave band sound power levels for the primary noise sources used in this assessment are provided in Appendix C.

3.1 Insignificant Noise Sources

Insignificant noise sources are presented in Appendix D.

3.2 Predictable Worst Cast Operation Scenarios

3.2.1 Facility Normal Operations (Stationary Sources)

The Facility's normal operations can operate 24 hour per day, 7 days per week. The MSW and residual waste is limited from Monday to Saturday 07:00-19:00. Reagents and deliveries can arrive 24 hour per day, 7 days per week. Operation of equipment that is limited to the daytime period (i.e., 07:00 to 19:00 hours) include the MSW trucking and transfer of Residual Waste. The operation of all significant noise sources is identified in the sample calculation in Appendix G.

3.2.2 Scheduled Emergency Diesel Generator Testing

The Facility's emergency diesel generator is tested weekly and is assumed to operate for the full hour under assessment. Testing is limited to the daytime period (i.e. 07:00 to 19:00 hours). The Facility emergency diesel generator is tested independently from the other emergency equipment (i.e., emergency diesel fire pumps).

3.2.3 Scheduled Emergency Diesel Fire Pump Testing

The Facility's emergency fire pumps are each independently tested weekly and are assumed to operate for the full hour under assessment. Testing is limited to the daytime period (i.e. 07:00 to 19:00 hours). The Facility emergency fire pumps are tested independently from the other emergency equipment (i.e., emergency diesel generator).

4.0 POINT(S) OF RECEPTION

Three (3) PORs were identified in the AAR, as being representative of the most sensitive PORs in the vicinity of the Facility. These PORs are shown on the site location plan in Figure 1 and described below:

- POR001 – a former two-storey single family dwelling located approximately 480 metres from the property line west of the Facility, the dwelling is currently demolished, however, Golder has assumed a new dwelling could potentially be developed on these lands and has therefore conservatively included in the assessment;
- POR002 – two-storey single family dwelling approximately 690 metres from the property line east of the Facility;
- POR003 – one-storey single family dwelling approximately 870 metres from the property line north of the Facility.

Vacant Lots

Golder has reviewed the vacant lots surrounding the Facility to determine whether any of the zoning designations permit a noise sensitive land use. As can be seen from the zoning designation plan provided in Appendix A, the site location and surrounding lands have an industrial designation. Golder has also included pages from a land use official plan provided by the Municipality of Clarington showing the site location and surrounding lands are zoned as a business park with an industrial designation.

Furthermore, the lands located to the east and northeast of the Facility are owned and currently being developed by the Ontario Power Generation Inc. (OPG) as a new headquarters. The land to the north is a proposed battery storage facility. Based on the zoning designations, proposed future and existing non-noise sensitive land uses surrounding the Facility, vacant lots surrounding the Facility are not expected to include a noise sensitive development and therefore have not been included in the assessment.

5.0 ASSESSMENT CRITERIA

5.1 Stationary Sources

The PORs located in the vicinity of the Facility are in an area defined as Class 2 per MECP publication NPC 300. A Class 2 area means an area with an acoustical environment that has qualities representative of both Class 1 and Class 3 areas. Sound level characteristics of Class 1 during daytime (07:00 to 19:00 or to 23:00); and low evening and night background sound level defined by natural environment and infrequent human activity starting as early as 19:00 hours (19:00 or 23:00 to 07:00 hours).

In assessing stationary noise sources, the MECP has established exclusionary sound level limits for Class 2 areas for both; Plane of Window (POW) and Outdoor areas.

The One Hour Equivalent Sound Level (L_{eq}) MECP exclusionary sound level limits for a POR in Class 2 area are summarized below in Table 1 and were used to assess compliance of the Facility.

Table 1: Stationary Sources Sound Level Limits for Class 2

Time Period	Class 2 POW MECP Exclusionary Sound Level Limit (dBA)	Class 2 Outdoor MECP Exclusionary Sound Level Limit (dBA)
Day time (07:00 to 19:00)	50	50
Evening (19:00 to 23:00)	50	45
Nighttime (23:00 to 07:00)	45	N/A ¹

Note:

1. In accordance with NPC-300, in general, the Outdoor POR will be protected during the nighttime as a result of meeting the sound levels at the adjacent POW.

5.2 Emergency Equipment

Sound level limits do not apply to emergency equipment operating in emergency situations. In assessing noise sources associated with emergency equipment, Section B7.3 of the NPC 300 guideline outlines the emergency equipment sound level limits as follows:

The sound level limits for noise produced by emergency equipment operating in non-emergency situations, such as testing or maintenance of such equipment, are 5 dB greater than the sound level limits otherwise applicable to stationary sources.

The noise produced by emergency equipment operating in non-emergency situations should be assessed independently of all other stationary sources of noise. Specifically, the emissions are not required to be included with the overall noise assessment of a stationary source facility.

Therefore, the stationary source sound level limits presented in Table 1 above were increased by 5 dB during the daytime period when assessing periodic testing (i.e., non-emergency situations) of the emergency diesel generator and emergency diesel fire pumps.

6.0 IMPACT ASSESSMENT

6.1 Analysis Methodology

The predictive analysis was carried out using the commercially available software package Cadna/A V 2019 MR 1. Geometrical spreading, attenuation from barriers, ground effect and air absorption were included in the analysis as determined from ISO 9613 (part 2), which is the current MECP accepted standard used for outdoor sound propagation predictions. It should be noted this standard makes provisions to include a correction to address for downwind or ground based temperature inversion conditions. Noise predictions have been made assuming a downwind or moderate temperature inversion conditions for all PORs, a design condition consistent with MECP accepted practice.

As described in ISO 9613 (part 2), ground factor values that represent the ground effect on sound levels range between 0 for acoustically reflective or hard surfaces and 1 for acoustically absorbing or soft surfaces. For this assessment, a factor of 0 was applied to all roads and a factor of 1 was applied to all other ground surfaces.

All relevant sound levels for sources were obtained from Golder's onsite sound measurements carried out on November 29, 2019 using an NTI sound level meter/real-time analyzer. The instrument was calibrated before and after the sound level measurements and the calibration verified. Sound levels have been documented in octave band level format and are summarized in Appendix C. Noise impact predictions were generated using this data. The instrument provided the spectral (i.e. frequency) content of the noise source(s) under review and is a valuable tool for identifying, quantifying and ranking noise source emissions from equipment at a given POR. Measuring equipment used in this study meets the MECP requirements, and calibration certificates are provided in Appendix F. Weather data for the November 29, 2019 site visit is presented in Appendix E.

6.2 Results

The Facility's operations, as described in Section 3.0, were modelled to determine the predictable worst-case sound levels at the identified PORs. Sound levels were predicted at each POR location for both POW and Outdoor PORs. Outdoor POR sound levels (at a height of 1.5 m) were predicted by calculating sound levels using a 2 m by 2 m grid resolution within the POR property boundaries and within 30 m of the POW POR as per NPC 300. Sample calculations are provided in Appendix G.

6.2.1 Noise Impact Assessment – Facility Normal Operations (Stationary Sources)

Table SS1 in the Tables Section summarizes the predicted partial noise levels at the identified PORs due to the Facility operations. Table SS2 in the Tables Section provides a summary of the predictable worst-case overall sound levels for the identified PORs. The predicted overall sound levels from the Facility's normal operations at the identified PORs are below the applicable sound level limits.

6.2.2 Noise Impact Assessment – Back-up Diesel Generator Testing

Table EG1 summarizes the predicted partial noise levels for the periodic testing of the emergency diesel generator at the identified PORs. Table EG2 provides a summary of the overall noise levels for the emergency diesel generator at the identified PORs.

The predicted noise levels for all PORs, based on the daytime emergency diesel generator testing, comply with the applicable sound level limits. The equipment can be tested in compliance with MECP noise guidelines.

6.2.3 Noise Impact Assessment –Emergency Fire Pump Testing

Table FP11 and FP21 summarizes the predicted partial noise levels for the periodic testing of the emergency diesel fire pumps at the identified PORs. Table FP12 and FP22 provides a summary of the overall noise levels for the emergency diesel fire pumps at the identified PORs.

The predicted noise levels for all PORs, based on the daytime emergency diesel fire pump testing, comply with the applicable sound level limits. The equipment can be tested in compliance with MECP noise guidelines.

7.0 CONCLUSION

Golder Associates Ltd. was retained by Covanta to provide an Acoustic Assessment Report in support of an Environmental Compliance Approval amendment application for the Durham York Energy Centre facility located in Clarington, Ontario.

Using onsite noise measurements Golder predicted the noise levels on the identified Point(s) of Reception during the Facility's predictable worst-case hours of operation for both normal operations and testing of the Facility's emergency equipment.

Based on the results of this assessment, the noise emissions associated with Facility operations are below the applicable sound level limits at the identified PORs. Therefore, the Facility is expected to operate in compliance with MECP noise guidelines as specified in NPC 300.

Signature Page

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TABLES

Table A1: Facility Source Summary

Source ID	Source Description	Overall Daytime Sound Power Level (dBA)	Overall Night-time Sound Power Level (dBA)	Source Location	Sound Characteristics	Noise Control Measures
S001	Admin HVAC 1	93	93	O	S	U
S002	Admin HVAC 2	93	93	O	S	U
S003	Roof ventilation unit 1	100	100	O	S	U
S004	Roof ventilation unit 2	100	100	O	S	U
S005	Roof ventilation unit 3	100	100	O	S	U
S006	Roof ventilation unit 4	100	100	O	S	U
S007	Roof ventilation unit 5	100	100	O	S	U
S008	Roof ventilation unit 6	100	100	O	S	U
S009	Roof ventilation unit 7	100	100	O	S	U
S010	Roof ventilation unit 8	100	100	O	S	U
S011	Roof ventilation unit 9	100	100	O	S	U
S012	Roof ventilation unit 10	100	100	O	S	U
S013	Roof ventilation unit 11	100	100	O	S	U
S014	Roof ventilation unit 12	100	100	O	S	U
S015	Roof ventilation unit 13	100	100	O	S	U
S016	GSU Transformer	100	100	O	T	U
S017	Truck silo filling	109	109	O	T	U
S018	Carbon silo dust collector	100	100	O	S	U
S019	Main stack exhaust	110	110	O	S	U
S020	Cement silo dust collector	100	100	O	S	U
S021	Truck silo filling	109	—	O	T	U
S022	Truck silo filling	109	—	O	T	U
S023	Truck Idling	94	94	O	S	U
S024	Truck Idling	94	94	O	S	U
S025	Truck Idling	94	94	O	S	U
S026	Truck Idling	94	94	O	S	U
S027	Truck Idling	94	94	O	S	U
S028	Conveyor	94	94	O	S	U
S032	Standby diesel generator	104	—	O	S	U
S033	Diesel fire pump 1	108	—	O	S	U
S034	Diesel fire pump 2	108	—	O	S	U
S035	On-site truck traffic - truck entrance	105	105	O	S	U
S036	On-site truck traffic - truck exit	105	105	O	S	U
S037	Loader 1	105	105	O	S	U
S038	Loader 2	105	105	O	S	U
S039	Air Cooled Condenser - Bottom	107	107	O	S	U
S040	Closed cooling water cooler top	97	97	O	S	U
S041	Tipping Floor Roof Top opening	95	95	I	S	U
S042	Tipping floor bay door - entrance	95	95	I	S	U
S043	Tipping floor bay door - exit	99	99	I	S	U
S044	Grizzly bay door	88	88	I	S	U
S045	Residue building bay door 1	93	93	I	S	U
S046	Residue building bay door 2	93	93	I	S	U
S047	Boiler building louver 1	87	87	I	S	U
S048	Boiler building louver 2	91	91	I	S	U
S049	APC Building Louver 1	86	86	I	S	U
S050	APC Building Louver 2	82	82	I	S	U
S051	APC Building Louver 3	84	84	I	S	U
S052	APC Building Louver 4	84	84	I	S	U
S053	APC Building Louver 5	84	84	I	S	U
S054	APC Building Louver 6	84	84	I	S	U
S055	Turbine building louver	98	98	I	S	U
S056	Standby diesel generator discharge	110	—	O	S	U
S057	Diesel fire pump 1 intake	97	—	I	S	U
S058	Diesel fire pump 1 discharge a	102	—	I	S	U
S059	Diesel fire pump 1 discharge b	102	—	I	S	U
S060	Diesel fire pump 2 intake	97	—	I	S	U
S061	Diesel fire pump 2 discharge a	102	—	I	S	U
S062	Diesel fire pump 2 discharge b	102	—	I	S	U

Note 1: If a source has tonal characteristics, the tonal penalty is not included in the Sound Power Level

Note 2: Sound Power Levels do not include time weighting

NOISE SOURCE SUMMARY TABLE NOMENCLATURE

Source Location

O - located/installed outside the building, including on the roof
 I - located/installed inside the building

Sound Characteristics

S - Steady
 Q - Quasi Steady Impulsive
 I - Impulsive
 B - Buzzing
 T - Tonal
 C - Cyclic

Noise Control Measures

S - Silencer, Acoustic Louver, Muffler
 A - Acoustic Lining, Plenum
 B - Barrier, Berm, Screening
 L - Lagging
 E - Acoustic Enclosure
 O - Other
 U - Uncontrolled

Table SS1: Point of Reception Predicted Partial Sound Levels - Normal Operations (Stationary Source)

Source ID	POR001			OLA001			POR002			OLA002			POR003			OLA003		
	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)
S001	723	0	0	703	0	0	844	20	20	823	19	19	965	16	16	943	18	18
S002	721	0	0	701	0	0	841	19	19	819	18	18	973	16	16	950	18	18
S003	683	30	30	664	29	29	869	25	25	849	24	24	973	24	24	949	25	25
S004	678	30	30	659	29	29	860	28	28	839	26	26	998	23	23	974	23	23
S005	680	30	30	662	29	29	853	28	28	833	26	26	1007	22	22	983	23	23
S006	679	30	30	661	29	29	849	28	28	829	26	26	1018	22	22	994	23	23
S007	693	27	27	674	27	27	856	28	28	835	26	26	982	24	24	959	23	23
S008	707	26	26	688	26	26	846	28	28	825	26	26	980	24	24	957	25	25
S009	702	28	28	684	27	27	836	29	29	816	26	26	1006	22	22	982	23	23
S010	694	30	30	675	29	29	840	28	28	820	26	26	1011	22	22	987	23	23
S011	692	30	30	674	29	29	836	29	29	816	26	26	1022	22	22	998	22	22
S012	691	27	27	673	27	27	852	28	28	831	26	26	993	23	23	969	23	23
S013	719	11	11	699	11	11	832	31	31	811	28	28	991	22	22	968	23	23
S014	717	11	11	698	11	11	829	31	31	808	28	28	998	22	22	975	22	22
S015	715	11	11	697	11	11	825	31	31	805	28	28	1008	22	22	985	23	23
S016	775	12	12	757	12	12	771	38	38	750	35	35	1027	9	9	1005	10	10
S017	699	38	—	682	37	—	820	41	—	801	40	—	1044	14	—	1020	14	—
S018	697	30	30	680	29	29	824	30	30	805	28	28	1039	2	2	1016	2	2
S019	682	40	40	665	40	40	832	38	38	813	38	38	1050	35	35	1026	35	35
S020	653	31	31	636	30	30	857	27	27	839	25	25	1048	21	21	1023	21	21
S021	658	42	—	641	39	—	855	36	—	836	34	—	1044	31	—	1019	33	—
S022	668	21	—	652	20	—	832	44	—	814	43	—	1085	17	—	1060	19	—
S023	729	1	1	708	1	1	857	19	19	835	19	19	939	18	18	916	20	20
S024	745	3	3	725	3	3	840	23	23	817	22	22	948	18	18	926	19	19
S025	757	0	0	737	0	0	822	20	20	800	22	22	963	16	16	941	17	17
S026	594	25	25	576	24	24	925	16	16	907	16	16	1006	18	18	981	17	17
S027	590	26	26	573	25	25	916	17	17	898	12	12	1038	18	18	1012	14	14
S028	667	18	18	651	17	17	843	23	23	824	21	21	1054	15	15	1030	17	17
S035	520 / 765	26	26	505 / 745	22	22	734 / 969	26	26	717 / 953	25	25	934 / 1203	18	18	911 / 1179	18	18
S036	521 / 752	30	30	507 / 739	27	27	734 / 968	25	25	718 / 952	23	23	913 / 1212	21	21	888 / 1188	21	21
S037	588 / 638	28	28	572 / 618	27	27	866 / 940	18	18	849 / 920	16	16	962 / 1082	20	20	937 / 1057	19	19
S038	659 / 714	16	16	644 / 695	13	13	792 / 838	24	24	774 / 821	23	23	1016 / 1102	5	5	992 / 1079	7	7
S039	731 / 754	11	11	712 / 735	11	11	795 / 821	37	37	774 / 800	35	35	989 / 1015	27	27	966 / 993	27	27
S040	737 / 744	9	9	719 / 726	6	6	790 / 801	31	31	770 / 781	27	27	1017 / 1037	18	18	994 / 1014	18	18
S041	690 / 715	19	19	669 / 694	19	19	872 / 895	18	18	850 / 874	17	17	923 / 931	18	18	899 / 908	21	21
S042	713 / 715	1	1	693 / 694	1	1	869 / 872	16	16	847 / 850	15	15	932 / 938	8	8	909 / 915	9	9
S043	687 / 690	25	25	666 / 669	25	25	890 / 895	2	2	869 / 874	1	1	922 / 934	22	22	899 / 911	26	26
S044	641 / 642	18	18	622 / 622	17	17	902 / 903	0	0	882 / 883	0	0	971 / 974	11	11	946 / 949	13	13
S045	633 / 633	21	21	617 / 617	19	19	863 / 864	0	0	846 / 846	0	0	1082 / 1085	12	12	1057 / 1060	12	12
S046	658 / 658	0	0	642 / 642	0	0	839 / 840	18	18	821 / 823	16	16	1086 / 1092	0	0	1061 / 1067	0	0
S047	676 / 677	16	16	657 / 658	12	12	865 / 867	0	0	845 / 846	0	0	987 / 990	7	7	963 / 966	9	9
S048	675 / 675	20	20	656 / 656	16	16	862 / 863	0	0	842 / 843	0	0	996 / 999	12	12	972 / 975	13	13
S049	672 / 673	14	14	654 / 655	11	11	856 / 858	0	0	837 / 839	0	0	1008 / 1014	6	6	984 / 990	9	9
S050	670 / 671	10	10	653 / 653	7	7	852 / 853	0	0	833 / 834	0	0	1023 / 1026	1	1	999 / 1002	3	3
S051	700 / 701	0	0	682 / 682	0	0	833 / 834	15	15	813 / 814	12	12	1013 / 1016	0	0	989 / 992	0	0
S052	699 / 700	0	0	681 / 682	0	0	831 / 832	13	13	811 / 812	10	10	1018 / 1021	0	0	995 / 998	0	0
S053	699 / 699	0	0	681 / 681	0	0	828 / 830	13	13	809 / 810	10	10	1024 / 1027	0	0	1001 / 1004	0	0
S054	698 / 698	0	0	680 / 680	0	0	826 / 827	13	13	807 / 808	10	10	1030 / 1033	0	0	1007 / 1010	0	0
S055	727 / 729	0	0	709 / 710	0	0	819 / 821	21	21	798 / 800	20	20	997 / 1003	0	0	974 / 980	0	0

Note 1: ### / ### refers to minimum and maximum distance of the source to the respective POR

Table SS2: Acoustic Assessment Summary - Overall Sound Levels - Normal Operations (Stationary Source)

POR ID	POR Description	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit	Daytime Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit (Yes/No)
POR001	Commercial Farmer - two storey	47	44	No	50	45	Yes
OLA001	OLA001	45	43	No	50	45	Yes
POR002	Residential - two storey	49	45	No	50	45	Yes
OLA002	OLA002	47	43	No	50	45	Yes
POR003	Residential - one storey	40	39	No	50	45	Yes
OLA003	OLA003	40	39	No	50	45	Yes

Table EG1: Point of Reception Predicted Partial Sound Levels - Emergency Generators

Source ID	POR001			OLA001			POR002			OLA002			POR003			OLA003		
	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)
S032	661	39	—	641	38	—	897	16	—	877	17	—	954	32	—	930	34	—
S056	664 / 665	30	—	644 / 644	30	—	894 / 895	14	—	873 / 874	13	—	953 / 956	15	—	929 / 932	28	—

Note 1: ### / ### refers to minimum and maximum distance of the source to the respective POR

Table EG2: Acoustic Assessment Summary - Overall Sound Levels - Emergency Generators

POR ID	POR Description	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit	Daytime Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit (Yes/No)
POR001	Commercial Farmer - two storey	39	-	No	55	50	Yes
OLA001	OLA001	39	-	No	55	50	Yes
POR002	Residential - two storey	18	-	No	55	50	Yes
OLA002	OLA002	18	-	No	55	50	Yes
POR003	Residential - one storey	32	-	No	55	50	Yes
OLA003	OLA003	35	-	No	55	50	Yes

Table FP11: Point of Reception Predicted Partial Sound Levels - Emergency Fire Pump 1

Source ID	POR001			OLA001			POR002			OLA002			POR003			OLA003		
	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)
S033	721	35	—	705	36	—	786	40	—	767	39	—	1085	26	—	1061	26	—
S057	717 / 717	4	—	701 / 701	3	—	789 / 790	18	—	770 / 771	14	—	1082 / 1085	0	—	1058 / 1061	0	—
S058	725 / 725	0	—	709 / 709	0	—	782 / 782	4	—	763 / 763	3	—	1086 / 1086	0	—	1063 / 1063	0	—
S059	725 / 725	5	—	709 / 709	5	—	782 / 783	6	—	763 / 764	6	—	1083 / 1086	0	—	1060 / 1063	0	—

Note 1: ### / ### refers to minimum and maximum distance of the source to the respective POR

Table FP12: Acoustic Assessment Summary - Overall Sound Levels - Emergency Fire Pump 1

POR ID	POR Description	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit	Daytime Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit (Yes/No)
POR001	Commercial Farmer - two storey	35	-	No	55	50	Yes
OLA001	OLA001	36	-	No	55	50	Yes
POR002	Residential - two storey	40	-	No	55	50	Yes
OLA002	OLA002	39	-	No	55	50	Yes
POR003	Residential - one storey	26	-	No	55	50	Yes
OLA003	OLA003	26	-	No	55	50	Yes

Table FP21: Point of Reception Predicted Partial Sound Levels - Emergency Fire Pump 2

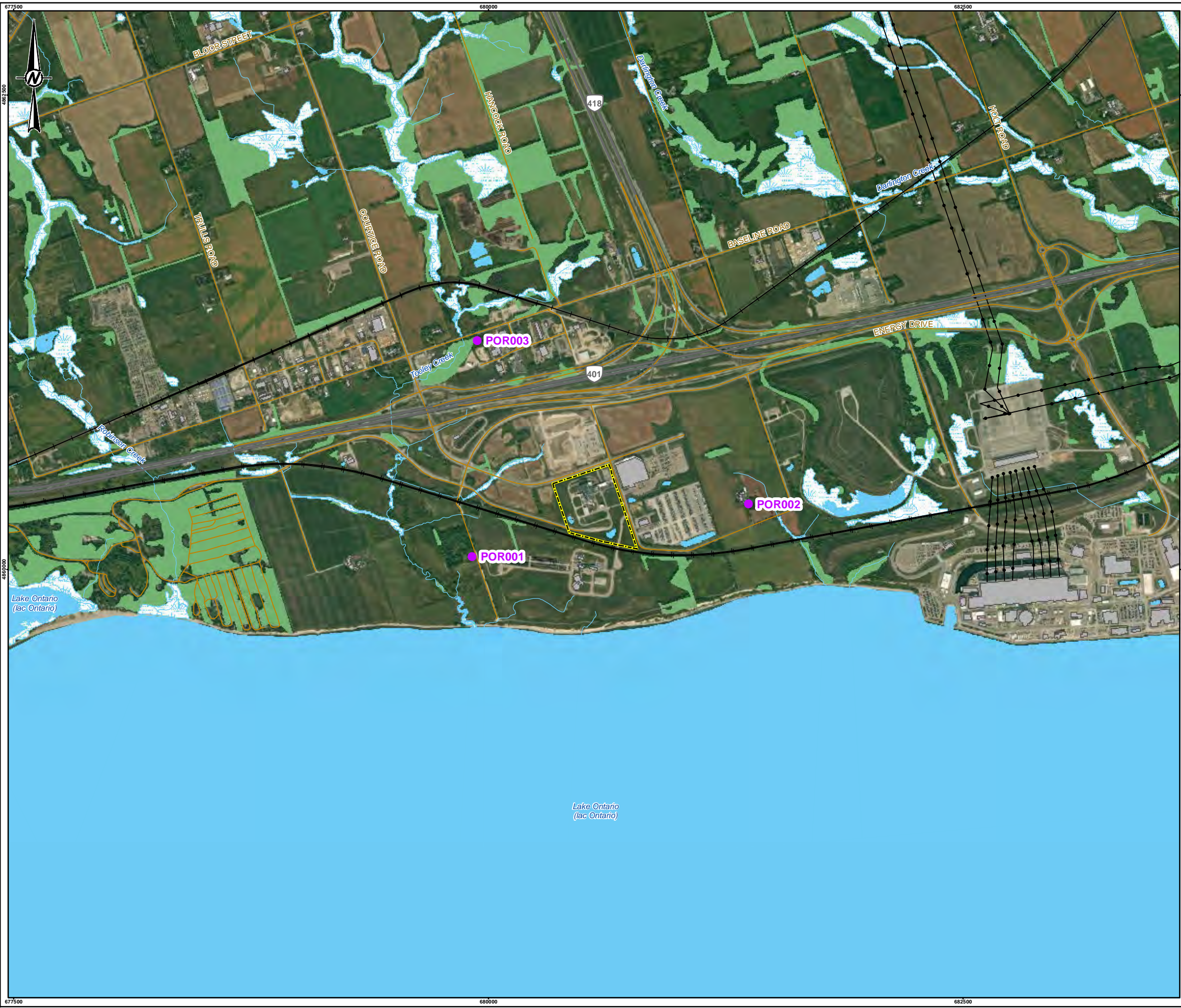
Source ID	POR001			OLA001			POR002			OLA002			POR003			OLA003		
	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Distance (m)	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)
S034	721	35	—	705	36	—	784	40	—	766	39	—	1089	26	—	1066	26	—
S060	717 / 717	4	—	701 / 701	3	—	788 / 788	19	—	770 / 770	18	—	1088 / 1088	0	—	1064 / 1064	0	—
S061	725 / 725	5	—	709 / 709	5	—	781 / 781	13	—	762 / 762	11	—	1089 / 1089	0	—	1066 / 1066	0	—
S062	725 / 725	5	—	709 / 709	5	—	780 / 781	19	—	762 / 762	17	—	1089 / 1092	0	—	1066 / 1069	0	—

Note 1: ### / ### refers to minimum and maximum distance of the source to the respective POR

Table FP22: Acoustic Assessment Summary - Overall Sound Levels - Emergency Fire Pump 2

POR ID	POR Description	Overall Daytime Sound Pressure Level (dBA)	Overall Night-time Sound Pressure Level (dBA)	Verified by Acoustic Audit	Daytime Performance Limit (dBA)	Night-time Performance Limit (dBA)	Compliance with Performance Limit (Yes/No)
POR001	Commercial Farmer - two storey	35	-	No	55	50	Yes
OLA001	OLA001	36	-	No	55	50	Yes
POR002	Residential - two storey	40	-	No	55	50	Yes
OLA002	OLA002	39	-	No	55	50	Yes
POR003	Residential - one storey	26	-	No	55	50	Yes
OLA003	OLA003	26	-	No	55	50	Yes

FIGURES



- LEGEND**
- POINT OF RECEPTION
 - LOCAL ROAD
 - PRIMARY HIGHWAY
 - RAILROAD
 - TRANSMISSION LINE
 - WATERCOURSE
 - APPROXIMATE PROJECT BOUNDARY
 - Building To Scale
 - WATERBODY
 - WETLAND
 - WOODED AREA



REFERENCE(S)
 BASE DATA COURTESY OF MNRF LIO.
 PROJECTION: UTM ZONE 17N DATUM: NAD83

CLIENT
 COVANTA DURHAM YORK RENEWABLE ENERGY LP

PROJECT
 NOISE MODELLING, CLARINGTON ONTARIO

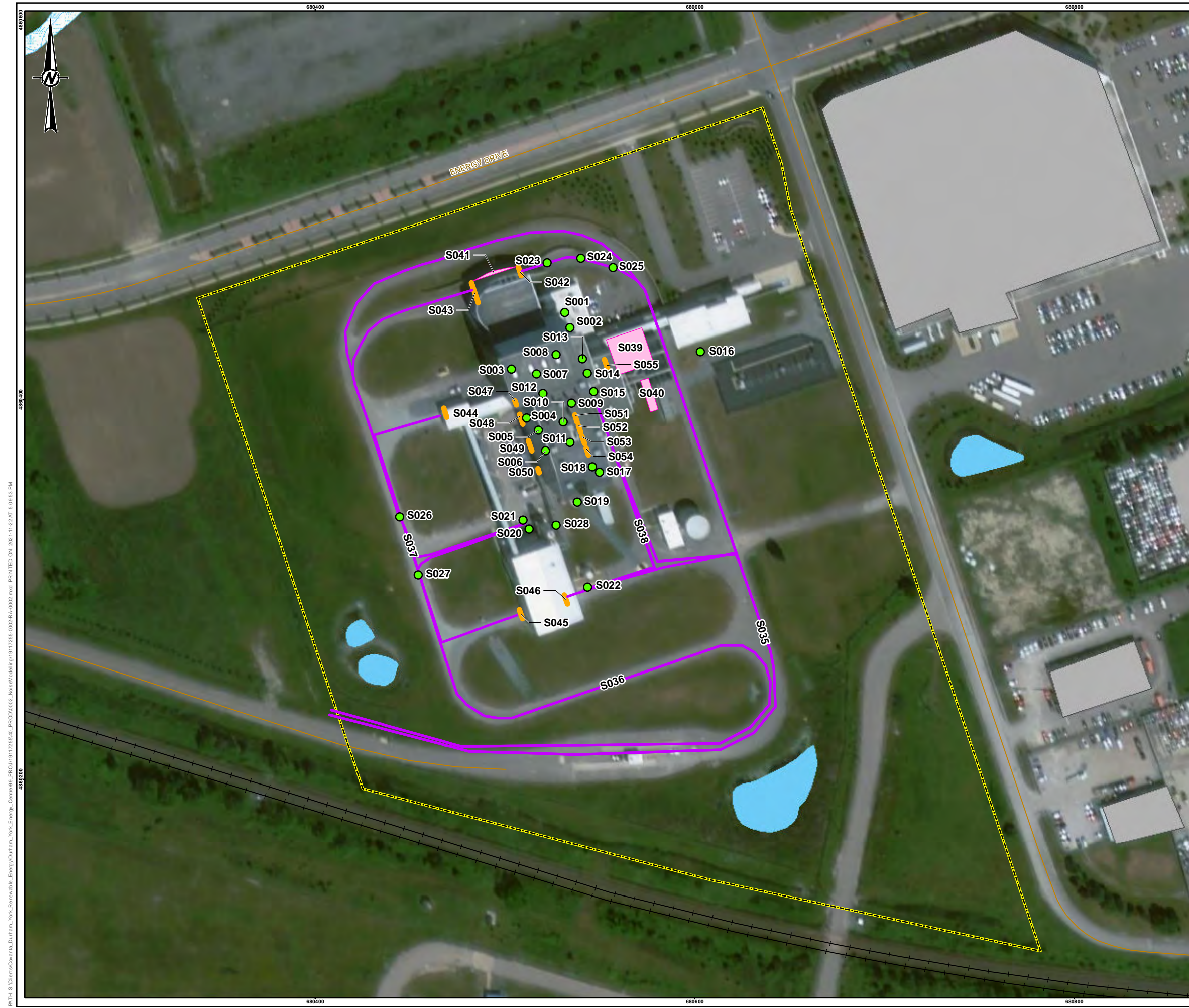
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GOLDER MEMBER OF WSP	DESIGNED	KA
	PREPARED	RRD
	REVIEWED	JS
	APPROVED	TG

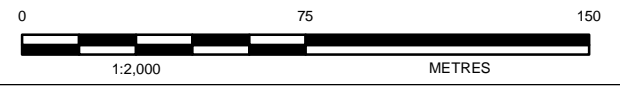
PROJECT NO.	CONTROL	REV.	FIGURE
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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- LEGEND**
- Point Source
 - LineSource
 - Vertical Area Source
 - Area Source
 - LOCAL ROAD
 - + RAILROAD
 - WATERCOURSE
 - APPROXIMATE PROJECT BOUNDARY
 - Building
 - WATERBODY
 - WETLAND



REFERENCE(S)
 BASE DATA COURTESY OF MNRF LIO.
 PROJECTION: UTM ZONE 17N DATUM: NAD83

CLIENT
 COVANTA DURHAM YORK RENEWABLE ENERGY LP

PROJECT
 NOISE MODELLING, CLARINGTON ONTARIO

TITLE
 Site Layout

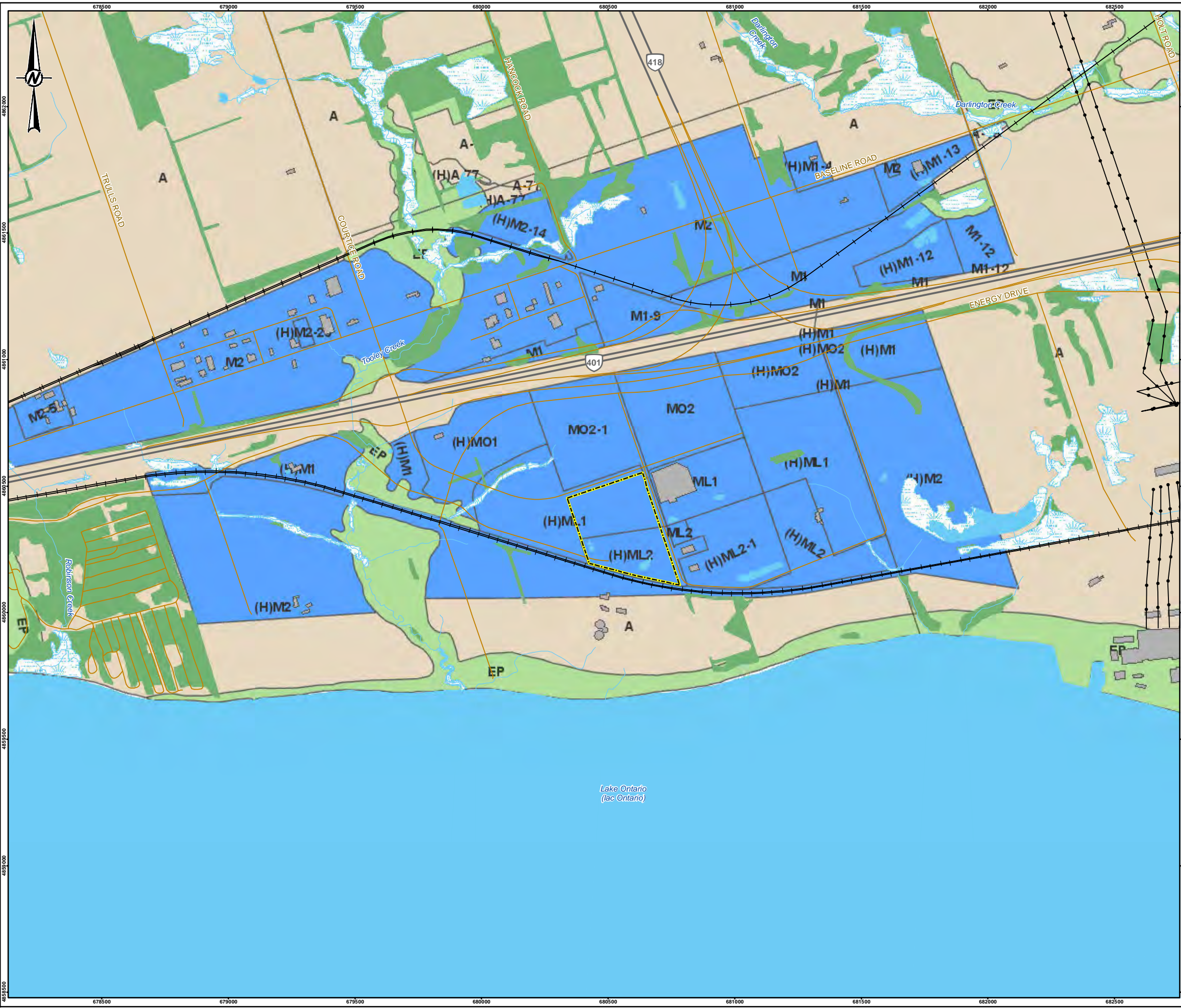
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	DESIGNED	KA
	PREPARED	RRD
	REVIEWED	JS
	APPROVED	TG

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

APPENDIX A

Zoning Designation Plan



- LEGEND**
- LOCAL ROAD
 - PRIMARY HIGHWAY
 - RAILROAD
 - TRANSMISSION LINE
 - WATERCOURSE
 - APPROXIMATE PROJECT BOUNDARY
 - Building
 - WATERBODY
 - WETLAND
 - WOODED AREA
 - Agriculture Zone (A)
 - Commercial Zone (C1, C2, C3, C4, C5, C6, C7, C8, C9, OC)
 - Environmental Protection Zone (EP)
 - Industrial Zone (M1, MO1, MO2, ML1, ML2, MP1, MP2, MP3, MP4, M2, M3)
 - Institutional Zone (P1)
 - Mixed Use (MU)
 - Residential (RC, RE, RH, RM, RS, R1, R2, R3, R4)



REFERENCE(S)
 ZONING DATA: ARCGIS MAP SERVICE [HTTPS://GIS.CLARINGTON.NET/ARCGIS/SERVICES](https://gis.clarington.net/arcgis/services)

CLIENT
 COVANTA DURHAM YORK RENEWABLE ENERGY LP

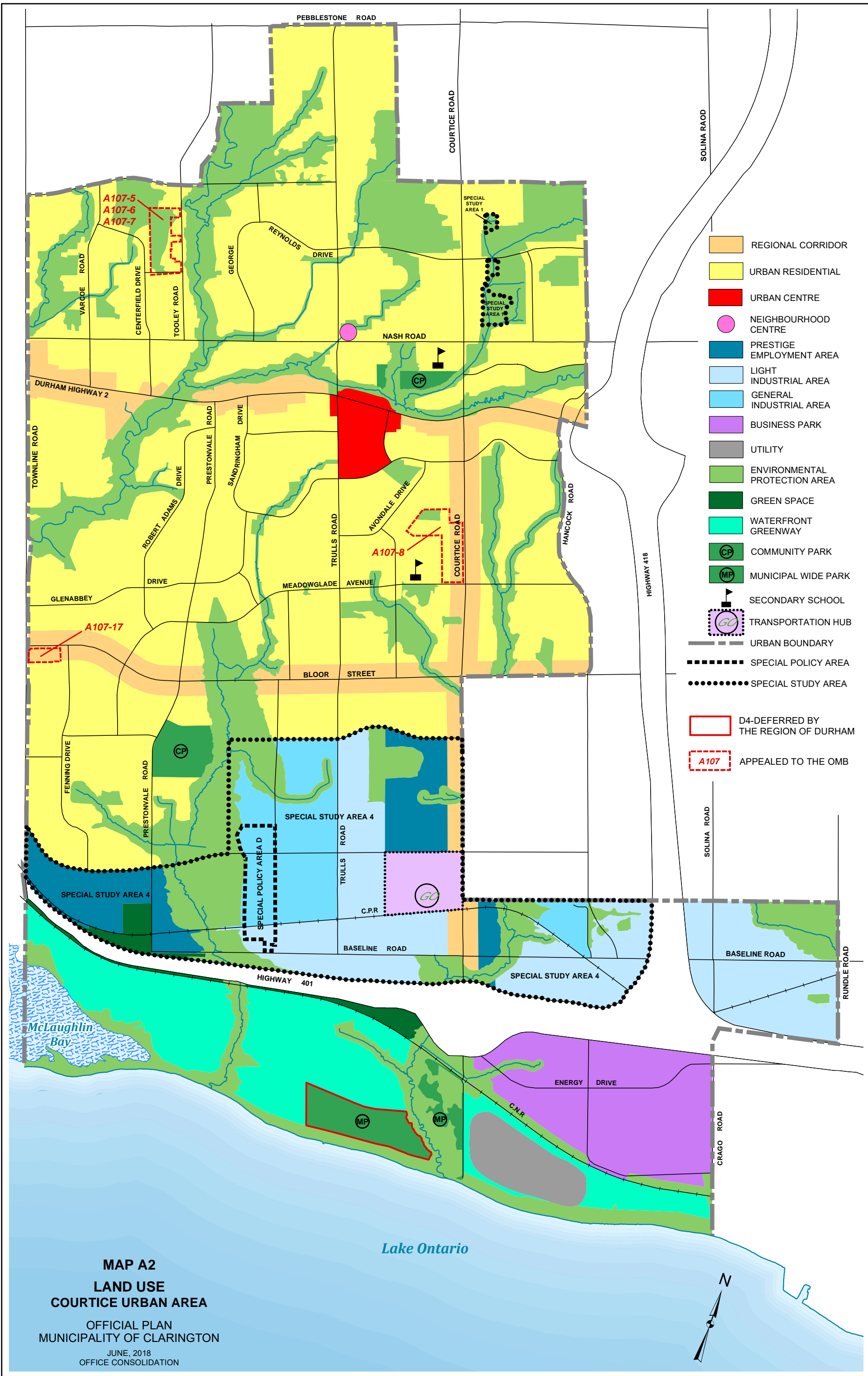
PROJECT
 NOISE MODELLING, CLARINGTON ONTARIO

TITLE
 Zoning Plan

CONSULTANT	YYYY-MM-DD	2021-11-22
	DESIGNED	KA
	PREPARED	RRD
	REVIEWED	JS
	APPROVED	TG

PROJECT NO. 19117255 CONTROL 0002 REV. 0 FIGURE A

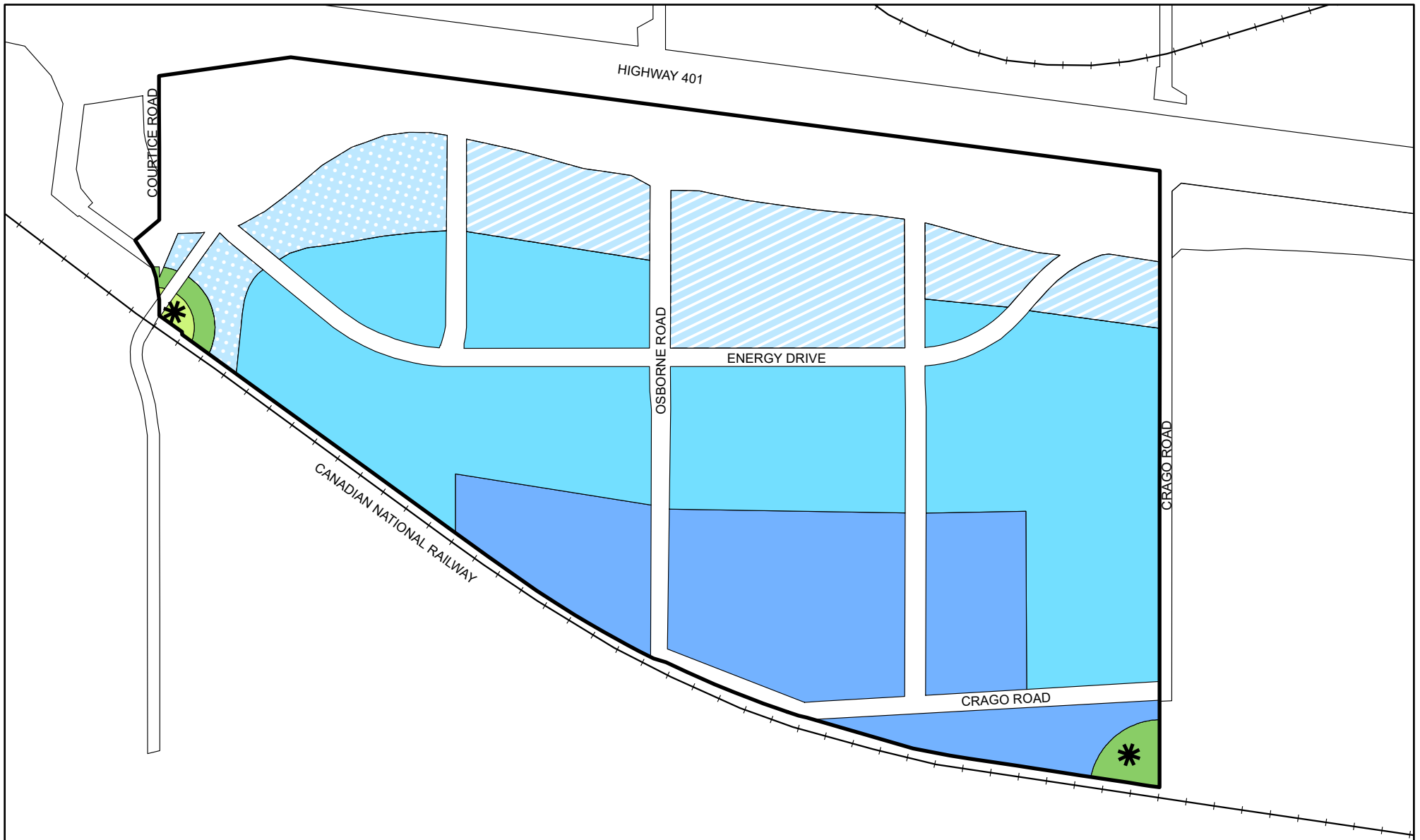
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 IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



- REGIONAL CORRIDOR
- URBAN RESIDENTIAL
- URBAN CENTRE
- NEIGHBOURHOOD CENTRE
- PRESTIGE EMPLOYMENT AREA
- LIGHT INDUSTRIAL AREA
- GENERAL INDUSTRIAL AREA
- BUSINESS PARK
- UTILITY
- ENVIRONMENTAL PROTECTION AREA
- GREEN SPACE
- WATERFRONT GREENWAY
- CP COMMUNITY PARK
- MP MUNICIPAL WIDE PARK
- S SECONDARY SCHOOL
- GO TRANSPORTATION HUB
- URBAN BOUNDARY
- SPECIAL POLICY AREA
- SPECIAL STUDY AREA
- D4-DEFERRED BY THE REGION OF DURHAM
- A107 APPEALED TO THE OMB









MAP A2
LAND USE
COURTICE URBAN AREA
 OFFICIAL PLAN
 MUNICIPALITY OF CLARINGTON
 JUNE, 2018
 OFFICE CONSOLIDATION





LEGEND



- | | | | |
|---|--|--|-------------------------------|
|  | Clarington Business Park Area Boundary |  | Light Industrial 2 |
|  | Prestige Employment Corridor |  | Open Space |
|  | Prestige Employment Node |  | Environmental Protection Area |
|  | Light Industrial 1 |  | Proposed Storm Water Pond |

**MAP A
LAND USE
AND PRIMARY ROADS**

CLARINGTON ENERGY
BUSINESS PARK
SECONDARY PLAN

JUNE, 2018
OFFICE CONSOLIDATION

APPENDIX B

Description of Technical Terms

DESCRIPTION OF TECHNICAL TERMS

To help understand the analysis and recommendations made in this report, the following is a brief discussion of technical noise terms.

Sound pressure level is expressed on a logarithmic scale in units of decibels (dB). Since the scale is logarithmic, a sound that is twice the sound pressure level as another will be three decibels (3 dB) higher.

The noise data and analysis in this report have been given in terms of frequency distribution. The levels are grouped into octave bands. Typically, the centre frequencies for each octave band are 31.5, 63, 125, 250, 500, 1000, 2000, 4000 and 8000 Hertz (Hz.). The human ear responds to the pressure variations in the atmosphere that reach the ear drum. These pressure variations are composed of different frequencies that give each sound we hear its unique character.

It is common practice to sum sound levels over the entire audible spectrum (i.e., 20 Hz to 20 kHz) to give an overall sound level. However, to approximate the hearing response of humans, each octave band measured has a weighting applied to it. The resulting “A-weighted” sound level is often used as a criterion to indicate a maximum allowable sound level. In general, low frequencies are weighted higher, as human hearing is less sensitive to low frequency sound.

Environmental noise levels vary over time and are described using an overall sound level known as the L_{eq} , or energy averaged sound level. The L_{eq} is the equivalent continuous sound level, which in a stated time, and at a stated location, has the same energy as the time varying noise level. It is common practice to measure L_{eq} sound levels in order to obtain a representative average sound level. The L_{90} is defined as the sound level exceeded for 90% of the time and is used as an indicator of the “ambient” noise level.

NOISE SOURCE SUMMARY TABLE NOMENCLATURE

Source Location

O – located/installed outside the building, including on the roof

I – located/installed inside the building

Sound Characteristics

S – Steady

Q – Quasi Steady Impulsive

I – Impulsive

B – Buzzing

T – Tonal

C – Cyclic

Noise Control Measures

S – silencer, acoustic louver, muffler

A – acoustic lining, plenum

B – barrier, berm, screening

L – lagging

E – acoustic enclosure

O – other

U – uncontrolled

APPENDIX C

Noise Data

Appendix C: Noise Data

Name	ID	Oktave Spectrum (dB)										Source	
		31.5	63	125	250	500	1000	2000	4000	8000	A		lin
GSU transformer	L004	100	97	93	95	102	93	82	77	72	100	106	Golder Database
Main stack exhaust	L007		126	125	103	98	93	87	82	78	110	129	Golder Measurement
On-site trucks	L008	103	106	108	99	99	102	98	92	85	105	112	Golder Database
Loader	L009	104	114	107	101	102	100	98	91	89	105	116	Golder Database
Standby diesel generator exhaust	L020		124	130	126	118	114	108	98	90	122	132	Golder Measurement
Standby diesel generator intake/discharge	L021		106	110	110	107	106	103	97	89	110	115	Golder Measurement
Diesel fire pump exhaust	L022	0	128	134	130	122	118	112	102	94	126	136	Golder Measurement
Truck Idling	L024	90	91	91	88	89	91	88	81	71	94	98	Golder Measurement
Updated ACC	L025	84	78	79	76	78	75	75	67	59	81	88	Golder Measurement
Updated Grizzly bay door	L026	71	83	76	71	71	73	70	65	58	77	85	Golder Measurement
Updated Tipping Floor Room	L027	82	85	82	78	78	80	77	72	63	84	90	Golder Measurement
Updated Boiler Room	L028	84	83	79	78	83	74	71	64	54	82	89	Golder Measurement
Updated APC building	L029	78	77	74	71	76	69	65	67	51	76	83	Golder Measurement
Updated Residue buiding	L030	78	77	78	75	73	75	73	75	76	82	86	Golder Measurement
Conveyor	L031	99	98	93	89	95	85	84	84	78	94	103	Golder Measurement
Updated HVAC	L032	101	98	97	97	90	87	81	76	71	93	105	Golder Measurement
Updated Turbine Building	L033	79	80	83	84	85	85	84	86	85	92	94	Golder Measurement
Updated Roof Ventillation Unit	L034	100	109	111	104	95	92	88	85	77	101	114	Golder Measurement
Updated Dust Colletor	L035	97	103	102	98	98	97	89	86	81	100	108	Golder Measurement
Updated Dies Fire pump Intake/Discharge	L036	77	81	93	88	90	93	95	92	92	100	101	Golder Measurement
Cooling Top	L037	95	91	87	87	100	83	81	79	74	97	102	Golder Measurement
Update Silo Filling	L038	92	100	103	101	107	104	102	96	86	109	111	Golder Measurement

APPENDIX D

Insignificant Noise Sources

INSIGNIFICANT NOISE SOURCES

Source Description	Rational
Various small building ventilation openings	The sound power levels associated with these sources are significantly lower than other sources onsite and is not expected to affect the findings of the assessment if included in the modelling.
Various passive stacks	

APPENDIX E

Weather Data

Weather Data for November 29, 2019 from Environment Canada
(<http://weather.gc.ca/>)

Station Name OSHAWA
Province ONTARIO
Latitude 43.92
Longitude -78.88
Elevation 139.9
Climate Identifier 6155875
WMO Identifier 71697
TC Identifier YOO

Time	Temp (°C)	Dew Point Temp (°C)	Rel Hum (%)	Wind Dir (10s deg)	Wind Spd (km/h)	Stn Press (kPa)	Weather
0:00	-3.1	-5.9	81	33	11	101.32	NA
1:00	-3.2	-5.7	83	33	11	101.3	NA
2:00	-3.2	-5.7	83	33	9	101.35	NA
3:00	-3.4	-5.9	83	36	13	101.36	NA
4:00	-3.6	-5.8	85	35	11	101.3	NA
5:00	-3.5	-5.4	87	33	11	101.33	NA
6:00	-3.7	-5.6	87	2	5	101.34	NA
7:00	-3.8	-5.4	89	31	9	101.29	NA
8:00	-3.7	-5.2	90	34	13	101.28	NA
9:00	-3.8	-5.3	90	33	11	101.31	NA
10:00	-3.5	-5.4	87	35	8	101.34	NA
11:00	-3.3	-5.3	86	34	9	101.3	NA
12:00	-3	-5.3	84	35	8	101.2	NA
13:00	-2.7	-5.2	83	32	5	101.09	NA
14:00	-2.3	-5	82	32	11	101.06	NA
15:00	-2.3	-4.8	83	33	9	101.03	NA
16:00	-2.1	-4.8	82	34	11	100.98	NA
17:00	-2.2	-5	81	2	9	100.96	NA
18:00	-2.3	-5.3	80	1	8	100.95	NA
19:00	-2.3	-4.9	83	31	9	100.95	NA
20:00	-2.2	-4.7	83	33	4	100.9	NA
21:00	-2.2	-4.7	83	2	5	100.81	NA
22:00	-2.3	-5	82		0	100.79	NA
23:00	-3.3	-5.2	87	1	4	100.73	NA

APPENDIX F

Calibration Certificates

West Caldwell Calibration Laboratories Inc.

Certificate of Calibration

for

AUDIO ANALYZER

Manufactured by: NTI
Model No: XL2
Serial No: A2A-06532-E0
Calibration Recall No: 28565

Submitted By:

Customer:
Company: Golder Associates Ltd.
Address:

The subject instrument was calibrated to the indicated specification using standards traceable to the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. XL2 NTI

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied relates to the calibrated item listed above.

West Caldwell Calibration Laboratories' calibration control system meets the requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSL Z540-1, IEC Guide 25, ISO 9001:2008 and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by: *FC*

Calibration Date: 26-Feb-18

Felix Christopher (QA Mgr.)

Certificate No: 28565 - 1

QA Doc. #1051 Rev. 2.0 10/1/01

Certificate Page 1 of 1

ISO/IEC 17025:2005

West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.



Calibration Lab. Cert. # 1533.01

West Caldwell Calibration Laboratories Inc.

Certificate of Calibration

for

MICROPHONE

Manufactured by: NTI
Model No: MC230
Serial No: 6023
Calibration Recall No: 28565

Submitted By:

Customer:
Company: Golder Associates Ltd.
Address:

The subject instrument was calibrated to the indicated specification using standards traceable to the National Institute of Standards and Technology or to accepted values of natural physical constants. This document certifies that the instrument met the following specification upon its return to the submitter.

West Caldwell Calibration Laboratories Procedure No. MC230 NTI

Upon receipt for Calibration, the instrument was found to be:

Within (X)

tolerance of the indicated specification. See attached Report of Calibration.
The information supplied relates to the calibrated item listed above.

West Caldwell Calibration Laboratories' calibration control system meets the requirements, ISO 10012-1 MIL-STD-45662A, ANSI/NCSS Z540-1, IEC Guide 25, ISO 9001:2008 and ISO 17025.

Note: With this Certificate, Report of Calibration is included.

Approved by:

Calibration Date: 26-Feb-18

Felix Christopher (QA Mgr.)

Certificate No: 28565 - 2

QA Doc. #1051 Rev. 2.0 10/1/01

Certificate Page 1 of 1

ISO/IEC 17025:2005

West Caldwell Calibration Laboratories, Inc.
uncompromised calibration
1575 State Route 96, Victor, NY 14564, U.S.A.



Calibration Lab. Cert. # 1533.01

APPENDIX G

Sample Calculations

Report (19117255 Covanta Noise Model 28Jun2021.cna)

CALCULATION CONFIGURATION

Configuration	
Parameter	Value
General	
Country	(user defined)
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	1000.00
Min. Length of Section (#(Unit,LEN))	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	60.00
Reference Time Night (min)	60.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	0.00
Night-time Penalty (dB)	0.00
DTM	
Standard Height (m)	75.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rcvr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	1.00
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (Schall 03 (1990))	
Strictly acc. to Schall 03 / Schall-Transrapid	
Aircraft (???)	
Strictly acc. to AzB	

Receiver

Name: Residential - two storey

ID: POR002

X: 681369.87 m

Y: 4860346.98 m

Z: 102.28 m

Point Source, ISO 9613, Name: "Main stack exhaust", ID: "!00!S019"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
2	680538.12	4860346.15	188.60	0	DEN	A	109.8	0.0	0.0	0.0	0.0	69.4	0.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	38.3

Point Source, ISO 9613, Name: "Truck silo filling", ID: "!00!S017"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
5	680549.85	4860361.81	101.50	0	D	A	113.9	0.0	0.0	0.0	0.0	69.3	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	40.6
13	680549.85	4860361.81	101.50	1	D	A	113.9	0.0	0.0	0.0	0.0	69.3	3.5	0.5	0.0	0.0	0.0	0.0	7.9	0.0	32.6

Point Source, ISO 9613, Name: "Truck silo filling", ID: "!00!S022"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
16	680539.30	4860305.14	101.50	0	D	A	113.9	0.0	0.0	0.0	0.0	69.4	3.6	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	41.9
22	680539.30	4860305.14	101.50	1	D	A	113.9	0.0	0.0	0.0	0.0	69.4	3.6	-0.5	0.0	0.0	0.0	0.0	8.1	0.0	33.4
25	680539.30	4860305.14	101.50	1	D	A	113.9	0.0	0.0	0.0	0.0	69.6	3.6	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	39.6

Point Source, ISO 9613, Name: "GSU Transformer", ID: "!00!S016"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
26	680602.96	4860425.33	102.50	0	DEN	A	105.0	0.0	0.0	0.0	0.0	68.7	1.8	-0.6	0.0	0.0	0.0	0.0	0.0	0.0	35.0
33	680602.96	4860425.33	102.50	1	DEN	A	105.0	0.0	0.0	0.0	0.0	70.1	2.1	-1.0	0.0	0.0	7.8	0.0	2.4	0.0	23.6
35	680602.96	4860425.33	102.50	1	DEN	A	105.0	0.0	0.0	0.0	0.0	70.0	2.0	-1.1	0.0	0.0	4.7	0.0	2.2	0.0	27.2
36	680602.96	4860425.33	102.50	1	DEN	A	105.0	0.0	0.0	0.0	0.0	69.3	1.9	-0.9	0.0	0.0	0.0	0.0	24.3	0.0	10.3
39	680602.96	4860425.33	102.50	2	DEN	A	105.0	0.0	0.0	0.0	0.0	69.9	2.0	-0.6	0.0	0.0	0.0	0.0	26.7	0.0	7.0
40	680602.96	4860425.33	102.50	1	DEN	A	105.0	0.0	0.0	0.0	0.0	68.9	1.8	-0.5	0.0	0.0	0.0	0.0	2.0	0.0	32.8

Point Source, ISO 9613, Name: "Truck silo filling", ID: "!00!S021"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
41	680515.28	4860338.21	101.50	0	D	A	113.9	0.0	0.0	0.0	0.0	69.6	3.6	1.2	0.0	0.0	5.9	0.0	0.0	0.0	33.5
43	680515.28	4860338.21	101.50	1	D	A	113.9	0.0	0.0	0.0	0.0	69.7	3.6	1.2	0.0	0.0	13.8	0.0	11.4	0.0	14.2
45	680515.28	4860338.21	101.50	1	D	A	113.9	0.0	0.0	0.0	0.0	69.7	3.6	1.2	0.0	0.0	6.1	0.0	25.1	0.0	8.2
49	680515.28	4860338.21	101.50	2	D	A	113.9	0.0	0.0	0.0	0.0	70.2	3.8	1.3	0.0	0.0	0.0	0.0	5.5	0.0	33.1

Area Source, ISO 9613, Name: "Air Cooled Condenser - Bottom", ID: "!00S039"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
50	680576.60	4860420.89	110.00	0	DEN	A	80.7	5.3	0.0	0.0	0.0	69.0	3.6	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	14.2
51	680568.66	4860427.18	110.00	0	DEN	A	80.7	20.0	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	28.8
52	680564.43	4860430.92	110.00	0	DEN	A	80.7	10.1	0.0	0.0	0.0	69.2	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	18.9
53	680565.99	4860432.35	110.00	0	DEN	A	80.7	16.7	0.0	0.0	0.0	69.2	3.7	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6
54	680569.04	4860435.18	110.00	0	DEN	A	80.7	14.7	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	4.9	0.0	0.0	0.0	18.7
55	680576.35	4860421.79	110.00	1	DEN	A	80.7	9.1	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	16.0
56	680556.41	4860432.06	110.00	1	DEN	A	80.7	8.0	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	14.4
57	680559.44	4860432.35	110.00	1	DEN	A	80.7	10.7	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	17.0
58	680563.98	4860432.79	110.00	1	DEN	A	80.7	16.1	0.0	0.0	0.0	69.5	3.8	-0.8	0.0	0.0	0.0	0.0	2.0	0.0	22.4
59	680567.11	4860432.48	110.00	1	DEN	A	80.7	13.3	0.0	0.0	0.0	69.5	3.8	-0.8	0.0	0.0	0.0	0.0	2.0	0.0	19.6
61	680569.13	4860430.12	110.00	1	DEN	A	80.7	17.6	0.0	0.0	0.0	69.5	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	23.8
62	680570.98	4860427.97	110.00	1	DEN	A	80.7	5.9	0.0	0.0	0.0	69.5	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	12.2
63	680571.49	4860427.38	110.00	1	DEN	A	80.7	10.0	0.0	0.0	0.0	69.5	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	16.3
65	680573.69	4860424.83	110.00	1	DEN	A	80.7	15.5	0.0	0.0	0.0	69.5	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	21.9
66	680576.83	4860421.22	110.00	1	DEN	A	80.7	5.3	0.0	0.0	0.0	69.5	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	0.0	11.7
68	680568.48	4860434.85	110.00	2	DEN	A	80.7	15.7	0.0	0.0	0.0	69.8	3.9	-0.9	0.0	0.0	0.0	0.0	4.0	0.0	19.6
107	680568.49	4860430.79	110.00	1	DEN	A	80.7	19.1	0.0	0.0	0.0	69.9	3.9	-0.9	0.0	0.0	18.5	0.0	2.1	0.0	6.3

Area Source, ISO 9613, Name: "Air Cooled Condenser - Bottom", ID: "I00S039"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
122	680573.67	4860424.81	110.00	1	DEN	A	80.7	13.1	0.0	0.0	0.0	69.9	3.9	-1.0	0.0	0.0	17.1	0.0	3.1	0.7
136	680559.46	4860426.92	110.00	0	DEN	A	80.7	16.3	0.0	0.0	0.0	69.2	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	25.0
137	680563.78	4860423.53	110.00	0	DEN	A	80.7	14.4	0.0	0.0	0.0	69.2	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	23.1
138	680566.32	4860421.51	110.00	0	DEN	A	80.7	15.4	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	24.2
139	680566.21	4860419.23	110.00	0	DEN	A	80.7	17.2	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	26.0
140	680563.01	4860416.25	110.00	0	DEN	A	80.7	15.0	0.0	0.0	0.0	69.2	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	23.7
149	680574.49	4860419.15	110.00	1	DEN	A	80.7	9.1	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	15.5
151	680568.64	4860418.58	110.00	1	DEN	A	80.7	16.8	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	23.2
152	680564.65	4860419.01	110.00	1	DEN	A	80.7	14.6	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	21.1
154	680563.56	4860420.22	110.00	1	DEN	A	80.7	11.6	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	18.1
155	680563.04	4860420.81	110.00	1	DEN	A	80.7	7.0	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	13.4
157	680561.38	4860422.67	110.00	1	DEN	A	80.7	16.8	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	23.3
158	680558.18	4860426.26	110.00	1	DEN	A	80.7	14.5	0.0	0.0	0.0	69.4	3.8	-0.8	0.0	0.0	0.0	0.0	2.0	21.0
160	680555.78	4860428.96	110.00	1	DEN	A	80.7	7.1	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	13.6
161	680554.56	4860430.34	110.00	1	DEN	A	80.7	4.4	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	10.9
170	680560.47	4860423.74	110.00	1	DEN	A	80.7	18.3	0.0	0.0	0.0	69.8	3.9	-0.9	0.0	0.0	22.4	0.0	2.0	1.9
214	680577.52	4860419.46	110.00	1	DEN	A	80.7	-3.6	0.0	0.0	0.0	69.8	3.9	-1.0	0.0	0.0	0.0	0.0	2.1	2.4
225	680573.52	4860419.11	110.00	1	DEN	A	80.7	12.5	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	0.0	0.0	2.0	19.3
1133	680571.37	4860422.94	110.00	0	DEN	A	80.7	-5.4	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	3.4
1135	680565.66	4860425.74	110.00	0	DEN	A	80.7	-0.8	0.0	0.0	0.0	69.1	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	7.9
1136	680557.82	4860429.59	110.00	0	DEN	A	80.7	2.4	0.0	0.0	0.0	69.2	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	11.1
1141	680571.51	4860422.87	110.00	1	DEN	A	80.7	-4.1	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	2.3
1147	680564.78	4860426.18	110.00	1	DEN	A	80.7	-2.1	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	4.3
1150	680560.02	4860428.51	110.00	1	DEN	A	80.7	-0.7	0.0	0.0	0.0	69.4	3.8	-0.8	0.0	0.0	0.0	0.0	2.0	5.7
1151	680556.85	4860430.07	110.00	1	DEN	A	80.7	-4.4	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	2.0
1153	680554.73	4860431.11	110.00	1	DEN	A	80.7	-2.4	0.0	0.0	0.0	69.4	3.8	-0.9	0.0	0.0	0.0	0.0	2.0	4.0

Point Source, ISO 9613, Name: "Roof ventilation unit 13", ID: "I00!S015"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
235	680546.71	4860404.32	120.00	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.3	1.5	0.7	0.0	0.0	0.0	0.0	0.0	28.9
239	680546.71	4860404.32	120.00	1	DEN	A	100.5	0.0	0.0	0.0	0.0	69.5	1.5	0.7	0.0	0.0	0.0	0.0	2.0	26.7

Point Source, ISO 9613, Name: "Roof ventilation unit 12", ID: "I00!S014"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
240	680543.46	4860414.06	120.00	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	28.8
241	680543.46	4860414.06	120.00	1	DEN	A	100.5	0.0	0.0	0.0	0.0	69.6	1.5	0.7	0.0	0.0	0.0	0.0	2.0	26.6

Point Source, ISO 9613, Name: "Carbon silo dust collector", ID: "I00!S018"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
243	680546.07	4860364.79	105.48	0	DEN	A	100.4	0.0	0.0	0.0	0.0	69.3	2.7	-1.1	0.0	0.0	0.0	0.0	0.0	29.5

Point Source, ISO 9613, Name: "Roof ventilation unit 11", ID: "I00!S013"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
246	680540.90	4860421.63	120.00	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.4	1.5	0.8	0.0	0.0	0.0	0.0	0.0	28.7
247	680540.90	4860421.63	120.00	1	DEN	A	100.5	0.0	0.0	0.0	0.0	69.6	1.5	0.7	0.0	0.0	0.0	0.0	2.0	26.6

Point Source, ISO 9613, Name: "Roof ventilation unit 9", ID: "I00!S011"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
249	680534.32	4860377.68	133.60	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.5	1.5	0.9	0.0	0.0	0.0	0.0	0.0	28.6

Point Source, ISO 9613, Name: "Roof ventilation unit 7", ID: "I00!S009"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
250	680535.17	4860398.32	136.10	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.5	1.5	0.9	0.0	0.0	0.0	0.0	0.0	28.6

Point Source, ISO 9613, Name: "Roof ventilation unit 8", ID: "I00!S010"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
251	680530.66	4860388.50	135.60	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.5	1.5	0.9	0.0	0.0	0.0	0.0	0.0	28.5

Point Source, ISO 9613, Name: "Roof ventilation unit 6", ID: "!00!S008"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
253	680526.98	4860423.85	136.10	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.6	1.5	1.0	0.0	0.0	0.0	0.0	0.0	28.4

Point Source, ISO 9613, Name: "Roof ventilation unit 4", ID: "!00!S006"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
255	680521.32	4860373.28	133.60	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.6	1.5	0.8	0.0	0.0	0.0	0.0	0.0	28.5

Point Source, ISO 9613, Name: "Roof ventilation unit 10", ID: "!00!S012"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
258	680520.08	4860403.42	136.10	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.6	1.5	1.0	0.0	0.0	0.0	0.0	0.0	28.3

Point Source, ISO 9613, Name: "Roof ventilation unit 3", ID: "!00!S005"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
261	680517.67	4860384.12	135.60	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.6	1.5	0.9	0.0	0.0	0.0	0.0	0.0	28.4

Point Source, ISO 9613, Name: "Roof ventilation unit 5", ID: "!00!S007"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
265	680516.55	4860413.61	136.10	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.7	1.5	1.0	0.0	0.0	0.0	0.0	0.0	28.3

Point Source, ISO 9613, Name: "Roof ventilation unit 2", ID: "!00!S004"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
267	680511.42	4860390.50	136.10	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.7	1.5	0.9	0.0	0.0	0.0	0.0	0.0	28.3

Point Source, ISO 9613, Name: "Cement silo dust collector", ID: "!00!S020"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
271	680512.68	4860331.82	104.87	0	DEN	A	100.4	0.0	0.0	0.0	0.0	69.7	2.8	-1.0	0.0	0.0	3.6	0.0	0.0	25.3
273	680512.68	4860331.82	104.87	2	DEN	A	100.4	0.0	0.0	0.0	0.0	70.7	3.1	-1.0	0.0	0.0	0.0	0.0	4.6	23.0

Point Source, ISO 9613, Name: "Roof ventilation unit 1", ID: "!00!S003"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
276	680503.38	4860416.28	136.10	0	DEN	A	100.5	0.0	0.0	0.0	0.0	69.8	1.6	1.0	0.0	0.0	3.5	0.0	0.0	24.6

vert. Area Source, ISO 9613, Name: "Turbine building louver", ID: "!00S055"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
279	680552.78	4860420.03	101.50	0	DEN	A	89.0	4.4	0.0	0.0	0.0	69.3	6.5	0.4	0.0	0.0	0.0	0.0	0.0	17.2
282	680553.60	4860417.61	101.50	0	DEN	A	89.0	3.7	0.0	0.0	0.0	69.3	6.5	0.4	0.0	0.0	0.0	0.0	0.0	16.5
567	680552.78	4860420.03	100.74	0	DEN	A	89.0	1.6	0.0	0.0	0.0	69.3	6.5	2.8	0.0	0.0	0.0	0.0	0.0	11.9
572	680553.60	4860417.61	100.74	0	DEN	A	89.0	0.9	0.0	0.0	0.0	69.3	6.5	2.8	0.0	0.0	0.0	0.0	0.0	11.3

Area Source, ISO 9613, Name: "Closed cooling water cooler top", ID: "!00!S040"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
309	680576.42	4860406.52	104.10	0	DEN	A	78.6	8.5	0.0	0.0	0.0	69.0	1.8	-1.2	0.0	0.0	0.0	0.0	0.0	17.5
312	680577.83	4860399.03	104.10	0	DEN	A	78.6	14.3	0.0	0.0	0.0	69.0	1.8	-1.2	0.0	0.0	0.0	0.0	0.0	23.4
314	680577.98	4860394.72	104.10	0	DEN	A	78.6	4.7	0.0	0.0	0.0	69.0	1.8	-1.3	0.0	0.0	0.0	0.0	0.0	13.8
318	680576.94	4860393.99	104.10	0	DEN	A	78.6	-5.9	0.0	0.0	0.0	69.0	1.8	-1.3	0.0	0.0	0.0	0.0	0.0	3.2
344	680578.43	4860395.81	104.10	2	DEN	A	78.6	7.3	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	4.7	0.0	4.1	6.8
345	680577.95	4860394.70	104.10	2	DEN	A	78.6	4.9	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	4.7	0.0	4.1	4.3
350	680578.81	4860395.13	104.10	1	DEN	A	78.6	3.9	0.0	0.0	0.0	69.8	1.9	-1.7	0.0	0.0	0.0	0.0	2.0	10.5
352	680578.25	4860395.77	104.10	1	DEN	A	78.6	6.8	0.0	0.0	0.0	69.8	1.9	-1.7	0.0	0.0	0.0	0.0	2.0	13.4
354	680577.98	4860397.28	104.10	1	DEN	A	78.6	8.1	0.0	0.0	0.0	69.8	1.9	-1.7	0.0	0.0	0.0	0.0	2.0	14.7
360	680577.46	4860400.29	104.10	1	DEN	A	78.6	9.5	0.0	0.0	0.0	69.8	1.9	-1.6	0.0	0.0	10.8	0.0	2.1	5.1
361	680576.86	4860403.65	104.10	1	DEN	A	78.6	8.5	0.0	0.0	0.0	69.8	1.9	-1.5	0.0	0.0	11.8	0.0	2.1	2.9
363	680576.21	4860407.40	104.10	1	DEN	A	78.6	6.1	0.0	0.0	0.0	69.8	1.9	-1.4	0.0	0.0	11.8	0.0	2.1	0.4
375	680577.41	4860401.25	104.10	2	DEN	A	78.6	8.0	0.0	0.0	0.0	69.9	1.9	-1.3	0.0	0.0	12.0	0.0	4.1	0.0
392	680577.01	4860402.80	104.10	1	DEN	A	78.6	13.2	0.0	0.0	0.0	69.6	1.9	-1.4	0.0	0.0	0.0	0.0	2.0	19.7
397	680577.45	4860401.02	104.10	2	DEN	A	78.6	8.3	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	0.0	0.0	4.0	12.6

Area Source, ISO 9613, Name: "Closed cooling water cooler top", ID: "100!S040"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
400	680577.74	4860399.49	104.10	2	DEN	A	78.6	2.7	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	4.7	0.0	4.1	2.2
404	680578.00	4860398.09	104.10	2	DEN	A	78.6	7.9	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	4.7	0.0	4.1	7.4
405	680578.24	4860396.84	104.10	2	DEN	A	78.6	4.1	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	4.7	0.0	4.1	3.6
411	680577.03	4860402.59	104.10	1	DEN	A	78.6	12.3	0.0	0.0	0.0	69.2	1.8	-1.2	0.0	0.0	0.0	0.0	2.1	19.0
413	680575.96	4860408.78	104.10	1	DEN	A	78.6	3.2	0.0	0.0	0.0	69.2	1.8	-1.2	0.0	0.0	0.0	0.0	2.0	9.9
417	680577.17	4860402.56	104.10	2	DEN	A	78.6	7.6	0.0	0.0	0.0	69.6	1.9	-1.3	0.0	0.0	0.0	0.0	4.1	12.0
434	680575.25	4860400.71	104.10	0	DEN	A	78.6	11.4	0.0	0.0	0.0	69.0	1.8	-1.2	0.0	0.0	0.0	0.0	0.0	20.4
445	680574.00	4860407.34	104.10	0	DEN	A	78.6	13.0	0.0	0.0	0.0	69.0	1.8	-1.2	0.0	0.0	0.0	0.0	0.0	21.9
450	680574.16	4860410.54	104.10	0	DEN	A	78.6	5.3	0.0	0.0	0.0	69.0	1.8	-1.2	0.0	0.0	0.0	0.0	0.0	14.2
458	680574.32	4860406.52	104.10	1	DEN	A	78.6	11.5	0.0	0.0	0.0	69.8	1.9	-1.4	0.0	0.0	12.4	0.0	2.1	5.2
460	680575.03	4860402.47	104.10	1	DEN	A	78.6	9.0	0.0	0.0	0.0	69.8	1.9	-1.5	0.0	0.0	12.5	0.0	2.1	2.7
462	680575.62	4860399.08	104.10	1	DEN	A	78.6	6.2	0.0	0.0	0.0	69.8	1.9	-1.6	0.0	0.0	11.6	0.0	2.1	1.0
464	680576.16	4860395.99	104.10	1	DEN	A	78.6	-0.1	0.0	0.0	0.0	69.8	1.9	-1.7	0.0	0.0	0.0	0.0	2.0	6.5
480	680573.83	4860409.33	104.10	1	DEN	A	78.6	7.4	0.0	0.0	0.0	69.8	1.9	-1.4	0.0	0.0	12.3	0.0	2.1	1.3
497	680572.45	4860410.12	104.10	1	DEN	A	78.6	2.5	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	0.0	0.0	2.0	8.9
499	680573.37	4860410.04	104.10	1	DEN	A	78.6	3.1	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	0.0	0.0	2.0	9.5
501	680573.80	4860409.53	104.10	1	DEN	A	78.6	5.8	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	0.0	0.0	2.0	12.2
502	680574.71	4860404.33	104.10	1	DEN	A	78.6	14.5	0.0	0.0	0.0	69.6	1.9	-1.4	0.0	0.0	0.0	0.0	2.0	20.9
505	680575.70	4860398.31	104.10	2	DEN	A	78.6	3.2	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	4.7	0.0	4.1	2.7
513	680575.15	4860401.28	104.10	2	DEN	A	78.6	6.8	0.0	0.0	0.0	69.7	1.9	-1.3	0.0	0.0	0.0	0.0	4.0	11.2
525	680572.98	4860409.96	104.10	1	DEN	A	78.6	6.6	0.0	0.0	0.0	69.2	1.8	-1.2	0.0	0.0	0.0	0.0	2.0	13.4
527	680574.10	4860407.89	104.10	1	DEN	A	78.6	11.6	0.0	0.0	0.0	69.2	1.8	-1.2	0.0	0.0	0.0	0.0	2.0	18.3
529	680575.07	4860402.33	104.10	1	DEN	A	78.6	12.1	0.0	0.0	0.0	69.2	1.8	-1.1	0.0	0.0	0.0	0.0	2.1	18.7
531	680574.83	4860402.93	104.10	2	DEN	A	78.6	7.7	0.0	0.0	0.0	69.5	1.9	-1.3	0.0	0.0	0.0	0.0	4.1	12.2

Point Source, ISO 9613, Name: "Truck Idling", ID: "100!S025"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
540	680556.91	4860469.75	102.40	0	DEN	A	94.4	0.0	0.0	0.0	0.0	69.3	3.9	-1.3	0.0	0.0	2.9	0.0	0.0	19.7
542	680556.91	4860469.75	102.40	1	DEN	A	94.4	0.0	0.0	0.0	0.0	69.5	4.0	-1.2	0.0	0.0	9.3	0.0	2.7	10.1
543	680556.91	4860469.75	102.40	1	DEN	A	94.4	0.0	0.0	0.0	0.0	70.0	4.1	-0.7	0.0	0.0	12.5	0.0	2.2	6.4

Point Source, ISO 9613, Name: "Truck Idling", ID: "100!S024"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
544	680540.04	4860474.58	102.40	0	DEN	A	94.4	0.0	0.0	0.0	0.0	69.5	3.9	-1.8	0.0	0.0	0.0	0.0	0.0	22.8
547	680540.04	4860474.58	102.40	1	DEN	A	94.4	0.0	0.0	0.0	0.0	70.1	4.2	-0.6	0.0	0.0	10.2	0.0	2.1	8.4

Point Source, ISO 9613, Name: "Conveyor", ID: "100!S028"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
550	680527.04	4860333.94	106.50	0	D	A	94.3	0.0	0.0	0.0	0.0	69.5	2.9	-1.3	0.0	0.0	3.7	0.0	0.0	19.5
550	680527.04	4860333.94	106.50	0	N	A	94.3	0.0	0.0	0.0	0.0	69.5	2.9	-1.3	0.0	0.0	3.7	0.0	0.0	19.5
550	680527.04	4860333.94	106.50	0	E	A	94.3	0.0	0.0	0.0	0.0	69.5	2.9	-1.3	0.0	0.0	3.7	0.0	0.0	19.5
552	680527.04	4860333.94	106.50	1	D	A	94.3	0.0	0.0	0.0	0.0	69.7	2.9	-1.2	0.0	0.0	4.7	0.0	2.0	16.3
552	680527.04	4860333.94	106.50	1	N	A	94.3	0.0	0.0	0.0	0.0	69.7	2.9	-1.2	0.0	0.0	4.7	0.0	2.0	16.3
552	680527.04	4860333.94	106.50	1	E	A	94.3	0.0	0.0	0.0	0.0	69.7	2.9	-1.2	0.0	0.0	4.7	0.0	2.0	16.3
553	680527.04	4860333.94	106.50	2	D	A	94.3	0.0	0.0	0.0	0.0	70.6	3.1	-1.4	0.0	0.0	0.0	0.0	4.4	17.6
553	680527.04	4860333.94	106.50	2	N	A	94.3	0.0	0.0	0.0	0.0	70.6	3.1	-1.4	0.0	0.0	0.0	0.0	4.4	17.6
553	680527.04	4860333.94	106.50	2	E	A	94.3	0.0	0.0	0.0	0.0	70.6	3.1	-1.4	0.0	0.0	0.0	0.0	4.4	17.6

Point Source, ISO 9613, Name: "Truck Idling", ID: "100!S023"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
554	680522.19	4860472.27	102.40	0	DEN	A	94.4	0.0	0.0	0.0	0.0	69.7	4.0	-1.3	0.0	0.0	3.6	0.0	0.0	18.5
555	680522.19	4860472.27	102.40	1	DEN	A	94.4	0.0	0.0	0.0	0.0	69.9	4.1	-1.0	0.0	0.0	9.7	0.0	2.0	9.7

Point Source, ISO 9613, Name: "Truck Idling", ID: "100!S027"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
559	680454.28	4860307.87	101.51	0	DEN	A	94.4	0.0	0.0	0.0	0.0	70.2	4.2	-0.8	0.0	0.0	17.3	0.0	0.0	3.5
561	680454.28	4860307.87	101.51	1	DEN	A	94.4	0.0	0.0	0.0	0.0	70.4	4.3	-0.7	0.0	0.0	0.0	0.0	3.3	17.1

Point Source, ISO 9613, Name: "Truck Idling", ID: "!00!S026"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
564	680444.44	4860338.30	102.35	0	DEN	A	94.4	0.0	0.0	0.0	0.0	70.3	4.3	-0.9	0.0	0.0	4.3	0.0	0.0	16.4

Point Source, ISO 9613, Name: "Admin HVAC 2", ID: "!00!S002"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
588	680534.22	4860438.14	106.30	0	DEN	A	93.1	0.0	0.0	0.0	0.0	69.5	2.0	-0.4	0.0	0.0	4.7	0.0	0.0	17.4
595	680534.22	4860438.14	106.30	2	DEN	A	93.1	0.0	0.0	0.0	0.0	70.1	2.1	-0.2	0.0	0.0	0.0	0.0	6.5	14.6
597	680534.22	4860438.14	106.30	1	DEN	A	93.1	0.0	0.0	0.0	0.0	69.6	2.0	-0.4	0.0	0.0	16.3	0.0	2.0	3.6

Point Source, ISO 9613, Name: "Admin HVAC 1", ID: "!00!S001"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
598	680531.47	4860445.98	106.30	0	DEN	A	93.1	0.0	0.0	0.0	0.0	69.5	2.0	-0.4	0.0	0.0	4.9	0.0	0.0	17.1
601	680531.47	4860445.98	106.30	2	DEN	A	93.1	0.0	0.0	0.0	0.0	70.1	2.1	-0.3	0.0	0.0	0.0	0.0	6.5	14.6
603	680531.47	4860445.98	106.30	1	DEN	A	93.1	0.0	0.0	0.0	0.0	69.6	2.0	-0.4	0.0	0.0	4.6	0.0	2.0	15.2

Area Source, ISO 9613, Name: "Tipping Floor Roof Top opening", ID: "!00!S041"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
605	680493.37	4860466.37	115.10	0	DEN	A	80.6	9.0	0.0	0.0	0.0	69.9	4.2	-0.7	0.0	0.0	4.7	0.0	0.0	11.5
610	680499.57	4860468.61	115.10	0	DEN	A	80.6	-1.4	0.0	0.0	0.0	69.9	4.1	-0.7	0.0	0.0	4.7	0.0	0.0	1.2
611	680500.80	4860469.05	115.10	0	DEN	A	80.6	2.6	0.0	0.0	0.0	69.9	4.1	-0.7	0.0	0.0	0.0	0.0	0.0	10.0
612	680503.27	4860469.72	115.10	0	DEN	A	80.6	3.0	0.0	0.0	0.0	69.8	4.1	-0.7	0.0	0.0	0.0	0.0	0.0	10.4
790	680486.40	4860464.22	115.10	0	DEN	A	80.6	3.9	0.0	0.0	0.0	70.0	4.2	-0.7	0.0	0.0	4.7	0.0	0.0	6.4
792	680492.12	4860466.47	115.10	0	DEN	A	80.6	5.9	0.0	0.0	0.0	69.9	4.2	-0.7	0.0	0.0	4.7	0.0	0.0	8.5
934	680492.66	4860467.15	115.10	0	DEN	A	80.6	5.3	0.0	0.0	0.0	69.9	4.2	-0.7	0.0	0.0	4.7	0.0	0.0	7.9
936	680496.01	4860468.34	115.10	0	DEN	A	80.6	0.4	0.0	0.0	0.0	69.9	4.2	-0.7	0.0	0.0	4.7	0.0	0.0	3.0
940	680498.49	4860468.98	115.10	0	DEN	A	80.6	-2.2	0.0	0.0	0.0	69.9	4.2	-0.7	0.0	0.0	4.7	0.0	0.0	0.4
3088	680490.78	4860466.69	115.10	0	DEN	A	80.6	-2.2	0.0	0.0	0.0	70.0	4.2	-0.7	0.0	0.0	4.7	0.0	0.0	0.3

Line Source, ISO 9613, Name: "Loader 1", ID: "!00S037"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
621	680465.84	4860274.07	100.58	0	DEN	A	73.1	5.9	0.0	0.0	0.0	70.2	3.5	-0.9	0.0	0.0	0.0	0.0	0.0	6.2
623	680464.56	4860278.01	100.69	0	DEN	A	73.1	6.4	0.0	0.0	0.0	70.2	3.5	-1.3	0.0	0.0	0.0	0.0	0.0	7.1
626	680461.45	4860287.59	100.96	0	DEN	A	73.1	12.0	0.0	0.0	0.0	70.2	3.5	-0.5	0.0	0.0	10.3	0.0	0.0	1.5
653	680447.36	4860330.98	102.16	0	DEN	A	73.1	5.5	0.0	0.0	0.0	70.3	3.6	-0.6	0.0	0.0	4.1	0.0	0.0	1.1
658	680446.03	4860335.08	102.27	0	DEN	A	73.1	4.8	0.0	0.0	0.0	70.3	3.6	-0.6	0.0	0.0	4.0	0.0	0.0	0.6
665	680445.08	4860337.99	102.35	0	DEN	A	73.1	4.9	0.0	0.0	0.0	70.3	3.6	-0.7	0.0	0.0	3.9	0.0	0.0	0.9
704	680455.38	4860306.27	101.47	1	DEN	A	73.1	7.0	0.0	0.0	0.0	70.4	3.6	-0.5	0.0	0.0	0.0	0.0	5.1	1.5
1550	680497.52	4860283.53	101.68	0	DEN	A	73.1	8.5	0.0	0.0	0.0	69.8	3.4	-0.7	0.0	0.0	6.3	0.0	0.0	2.7
1554	680491.97	4860281.51	101.46	0	DEN	A	73.1	6.8	0.0	0.0	0.0	69.9	3.4	-0.8	0.0	0.0	0.0	0.0	0.0	7.3
1750	680471.04	4860273.89	100.69	0	DEN	A	73.1	9.9	0.0	0.0	0.0	70.1	3.5	-0.7	0.0	0.0	0.0	0.0	0.0	10.1
1986	680443.87	4860341.73	102.40	0	DEN	A	73.1	6.3	0.0	0.0	0.0	70.3	3.6	-0.9	0.0	0.0	3.6	0.0	0.0	2.8
2579	680483.05	4860278.26	101.13	0	DEN	A	73.1	4.1	0.0	0.0	0.0	70.0	3.5	-0.7	0.0	0.0	0.0	0.0	0.0	4.4
2580	680480.82	4860277.45	101.03	0	DEN	A	73.1	3.4	0.0	0.0	0.0	70.0	3.5	-0.7	0.0	0.0	0.0	0.0	0.0	3.7
2944	680477.50	4860276.24	100.90	0	DEN	A	73.1	6.0	0.0	0.0	0.0	70.0	3.5	-0.7	0.0	0.0	0.0	0.0	0.0	6.2
2978	680488.00	4860280.06	101.31	0	DEN	A	73.1	5.7	0.0	0.0	0.0	69.9	3.5	-0.8	0.0	0.0	0.0	0.0	0.0	6.1
3063	680439.17	4860356.19	102.40	0	DEN	A	73.1	5.9	0.0	0.0	0.0	70.4	3.6	-0.7	0.0	0.0	0.0	0.0	0.0	5.7
3155	680438.17	4860359.28	102.40	0	DEN	A	73.1	0.3	0.0	0.0	0.0	70.4	3.6	-0.7	0.0	0.0	0.0	0.0	0.0	0.0
3633	680440.49	4860352.12	102.40	0	DEN	A	73.1	1.3	0.0	0.0	0.0	70.4	3.6	-0.8	0.0	0.0	0.0	0.0	0.0	1.2
3651	680485.65	4860279.21	101.23	0	DEN	A	73.1	1.2	0.0	0.0	0.0	70.0	3.5	-0.7	0.0	0.0	0.0	0.0	0.0	1.6
3670	680439.98	4860353.69	102.40	0	DEN	A	73.1	1.4	0.0	0.0	0.0	70.4	3.6	-0.8	0.0	0.0	0.0	0.0	0.0	1.2

Line Source, ISO 9613, Name: "Loader 2", ID: "!00S038"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
800	680576.83	4860316.86	102.40	0	DEN	A	73.1	2.7	0.0	0.0	0.0	69.0	3.2	-1.9	0.0	0.0	0.0	0.0	0.0	5.5
803	680575.05	4860321.96	102.40	0	DEN	A	73.1	9.5	0.0	0.0	0.0	69.0	3.2	-1.3	0.0	0.0	0.0	0.0	0.0	11.7
806	680572.97	4860327.90	102.40	0	DEN	A	73.1	5.6	0.0	0.0	0.0	69.0	3.2	-1.0	0.0	0.0	6.5	0.0	0.0	1.0
812	680570.22	4860335.75	102.40	0	DEN	A	73.1	10.0	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	11.7	0.0	0.0	0.0
819	680568.00	4860342.09	102.40	0	DEN	A	73.1	5.4	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	5.7	0.0	0.0	1.4
825	680574.45	4860323.67	102.40	1	DEN	A	73.1	9.4	0.0	0.0	0.0	70.0	3.5	-1.4	0.0	0.0	0.0	0.0	2.5	7.8

Line Source, ISO 9613, Name: "Loader 2", ID: "I00S038"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
827	680572.61	4860328.92	102.40	1	DEN	A	73.1	3.9	0.0	0.0	0.0	70.0	3.5	-1.0	0.0	0.0	0.0	0.0	2.6	1.9
828	680571.29	4860332.70	102.40	1	DEN	A	73.1	7.4	0.0	0.0	0.0	70.0	3.5	-0.7	0.0	0.0	4.4	0.0	2.5	0.7
830	680569.15	4860338.81	102.40	1	DEN	A	73.1	6.8	0.0	0.0	0.0	70.0	3.5	-0.7	0.0	0.0	4.4	0.0	2.5	0.1
832	680567.90	4860342.39	102.40	1	DEN	A	73.1	4.5	0.0	0.0	0.0	70.0	3.5	-0.7	0.0	0.0	0.0	0.0	2.6	2.1
835	680572.85	4860328.25	102.40	2	DEN	A	73.1	5.9	0.0	0.0	0.0	70.2	3.5	-1.2	0.0	0.0	0.0	0.0	4.6	1.8
837	680571.74	4860331.42	102.40	2	DEN	A	73.1	4.5	0.0	0.0	0.0	70.2	3.5	-0.9	0.0	0.0	0.0	0.0	4.7	0.1
1200	680563.59	4860354.69	102.40	0	DEN	A	73.1	6.7	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	8.2
1208	680562.62	4860357.48	102.40	0	DEN	A	73.1	1.0	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	2.6
1214	680561.35	4860361.09	102.40	0	DEN	A	73.1	8.1	0.0	0.0	0.0	69.2	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	9.6
1218	680559.46	4860366.50	102.40	0	DEN	A	73.1	7.1	0.0	0.0	0.0	69.2	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	8.6
1221	680564.05	4860353.37	102.40	1	DEN	A	73.1	2.7	0.0	0.0	0.0	69.4	3.3	-0.9	0.0	0.0	0.0	0.0	2.8	1.1
1222	680563.31	4860355.51	102.40	1	DEN	A	73.1	4.3	0.0	0.0	0.0	69.4	3.3	-0.9	0.0	0.0	0.0	0.0	2.8	2.7
1223	680562.52	4860357.76	102.40	1	DEN	A	73.1	3.2	0.0	0.0	0.0	69.4	3.3	-0.9	0.0	0.0	0.0	0.0	2.8	1.6
1224	680561.88	4860359.58	102.40	1	DEN	A	73.1	2.5	0.0	0.0	0.0	69.4	3.3	-0.9	0.0	0.0	0.0	0.0	2.8	0.9
1595	680567.19	4860344.41	102.40	0	DEN	A	73.1	1.6	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	3.3
1601	680566.52	4860346.32	102.40	0	DEN	A	73.1	4.1	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	5.8
1610	680565.76	4860348.49	102.40	0	DEN	A	73.1	3.0	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	4.6
1615	680564.98	4860350.72	102.40	0	DEN	A	73.1	4.3	0.0	0.0	0.0	69.1	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	5.9
1643	680566.37	4860346.76	102.40	1	DEN	A	73.1	4.8	0.0	0.0	0.0	70.1	3.5	-0.7	0.0	0.0	0.0	0.0	2.6	2.4
1702	680563.22	4860306.58	102.40	0	DEN	A	73.1	9.4	0.0	0.0	0.0	69.1	3.2	-1.8	0.0	0.0	0.0	0.0	0.0	11.9
1708	680547.02	4860301.23	102.40	0	DEN	A	73.1	9.5	0.0	0.0	0.0	69.3	3.3	-1.4	0.0	0.0	0.0	0.0	0.0	11.4
1715	680546.51	4860301.06	102.40	1	DEN	A	73.1	7.4	0.0	0.0	0.0	69.6	3.4	-1.0	0.0	0.0	0.0	0.0	2.0	6.4
1761	680553.06	4860384.78	102.40	0	DEN	A	73.1	8.9	0.0	0.0	0.0	69.3	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	10.2
1782	680553.05	4860384.80	102.40	1	DEN	A	73.1	8.9	0.0	0.0	0.0	69.3	3.3	-1.0	0.0	0.0	0.0	0.0	2.0	8.3
1799	680556.39	4860375.28	102.40	0	DEN	A	73.1	4.6	0.0	0.0	0.0	69.2	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	6.0
1802	680555.12	4860378.89	102.40	0	DEN	A	73.1	6.8	0.0	0.0	0.0	69.2	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	8.2
1804	680555.69	4860377.26	102.40	1	DEN	A	73.1	2.6	0.0	0.0	0.0	69.5	3.3	-1.4	0.0	0.0	0.0	0.0	2.0	2.3
1806	680555.12	4860378.91	102.40	1	DEN	A	73.1	2.2	0.0	0.0	0.0	69.5	3.3	-1.4	0.0	0.0	0.0	0.0	2.0	1.9
1817	680554.58	4860380.44	102.40	1	DEN	A	73.1	1.8	0.0	0.0	0.0	69.3	3.3	-1.0	0.0	0.0	0.0	0.0	2.0	1.2
1965	680569.86	4860308.78	102.40	0	DEN	A	73.1	7.2	0.0	0.0	0.0	69.1	3.2	-1.8	0.0	0.0	0.0	0.0	0.0	9.8
1974	680573.24	4860309.89	102.40	0	DEN	A	73.1	2.7	0.0	0.0	0.0	69.0	3.2	-1.8	0.0	0.0	0.0	0.0	0.0	5.4
2028	680555.21	4860303.94	102.40	0	DEN	A	73.1	7.7	0.0	0.0	0.0	69.2	3.3	-1.7	0.0	0.0	0.0	0.0	0.0	10.0
2133	680576.38	4860310.93	102.40	0	DEN	A	73.1	6.8	0.0	0.0	0.0	69.0	3.2	-1.9	0.0	0.0	0.0	0.0	0.0	9.5
2193	680550.16	4860393.08	102.40	0	DEN	A	73.1	6.5	0.0	0.0	0.0	69.3	3.3	-0.7	0.0	0.0	0.0	0.0	0.0	7.8
2236	680550.55	4860391.96	102.40	1	DEN	A	73.1	3.2	0.0	0.0	0.0	69.4	3.3	-1.0	0.0	0.0	0.0	0.0	2.0	2.6
2238	680549.73	4860394.31	102.40	1	DEN	A	73.1	4.6	0.0	0.0	0.0	69.4	3.3	-0.9	0.0	0.0	0.0	0.0	2.0	3.9
2246	680549.94	4860393.70	102.40	1	DEN	A	73.1	4.3	0.0	0.0	0.0	69.5	3.3	-0.6	0.0	0.0	0.0	0.0	2.8	2.4
2585	680557.81	4860371.20	102.40	0	DEN	A	73.1	6.4	0.0	0.0	0.0	69.2	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	7.8
2946	680541.17	4860299.30	102.40	0	DEN	A	73.1	5.3	0.0	0.0	0.0	69.4	3.3	-1.2	0.0	0.0	0.0	0.0	0.0	6.9
2951	680541.17	4860299.30	102.40	1	DEN	A	73.1	5.3	0.0	0.0	0.0	69.6	3.4	-1.0	0.0	0.0	0.0	0.0	2.0	4.4
3090	680536.22	4860297.67	102.40	0	DEN	A	73.1	4.7	0.0	0.0	0.0	69.4	3.3	-1.0	0.0	0.0	0.0	0.0	0.0	6.1
3095	680536.22	4860297.67	102.40	1	DEN	A	73.1	4.7	0.0	0.0	0.0	69.5	3.3	-1.0	0.0	0.0	0.0	0.0	2.0	3.9
3160	680551.50	4860389.23	102.40	0	DEN	A	73.1	2.2	0.0	0.0	0.0	69.3	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	3.5
3163	680551.06	4860390.49	102.40	0	DEN	A	73.1	0.1	0.0	0.0	0.0	69.3	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	1.4
3180	680551.51	4860389.23	102.40	1	DEN	A	73.1	2.2	0.0	0.0	0.0	69.3	3.3	-1.0	0.0	0.0	0.0	0.0	2.0	1.5
3224	680577.54	4860314.86	102.40	0	DEN	A	73.1	3.8	0.0	0.0	0.0	69.0	3.2	-1.9	0.0	0.0	0.0	0.0	0.0	6.5
3263	680578.29	4860312.70	102.40	0	DEN	A	73.1	3.4	0.0	0.0	0.0	69.0	3.2	-1.9	0.0	0.0	0.0	0.0	0.0	6.1
3346	680533.82	4860296.87	102.39	0	DEN	A	73.1	3.2	0.0	0.0	0.0	69.5	3.3	-1.0	0.0	0.0	0.0	0.0	0.0	4.6
3353	680533.82	4860296.87	102.39	1	DEN	A	73.1	3.2	0.0	0.0	0.0	69.5	3.3	-1.0	0.0	0.0	0.0	0.0	2.0	2.5
3383	680538.59	4860298.45	102.40	0	DEN	A	73.1	3.1	0.0	0.0	0.0	69.4	3.3	-1.1	0.0	0.0	0.0	0.0	0.0	4.5
3390	680538.59	4860298.45	102.40	1	DEN	A	73.1	3.1	0.0	0.0	0.0	69.6	3.3	-1.0	0.0	0.0	0.0	0.0	2.0	2.2
3852	680551.63	4860302.75	102.40	0	DEN	A	73.1	-1.2	0.0	0.0	0.0	69.3	3.3	-1.5	0.0	0.0	0.0	0.0	0.0	0.9
3864	680556.98	4860373.58	102.40	0	DEN	A	73.1	-1.4	0.0	0.0	0.0	69.2	3.3	-0.9	0.0	0.0	0.0	0.0	0.0	0.1

Line Source, ISO 9613, Name: "On-site truck traffic - truck exit", ID: "I00S036"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
875	680515.96	4860236.80	100.43	0	DEN	A	71.2	12.5	0.0	0.0	0.0	69.7	3.7	-0.8	0.0	0.0	0.0	0.0	0.0	11.1
881	680530.83	4860241.95	100.64	0	DEN	A	71.2	11.3	0.0	0.0	0.0	69.5	3.7	-0.9	0.0	0.0	0.0	0.0	0.0	10.1
887	680543.29	4860246.26	100.81	0	DEN	A	71.2	11.1	0.0	0.0	0.0	69.4	3.6	-0.9	0.0	0.0	0.0	0.0	0.0	10.1
999	680464.02	4860278.27	100.69	0	DEN	A	71.2	5.7	0.0	0.0	0.0	70.2	3.9	-1.2	0.0	0.0	0.0	0.0	0.0	4.1
1002	680465.90	4860272.14	100.52	0	DEN	A	71.2	9.6	0.0	0.0	0.0	70.2	3.9	-0.7	0.0	0.0	0.0	0.0	0.0	7.4
1014	680455.41	4860306.29	101.48	1	DEN	A	71.2	7.0	0.0	0.0	0.0	70.4	4.0	-0.4	0.0	0.0	0.0	0.0	3.2	1.0

Line Source, ISO 9613, Name: "On-site truck traffic - truck exit", ID: "I00S036"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahou	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
1026	680593.99	4860263.82	101.68	0	DEN	A	71.2	11.3	0.0	0.0	0.0	68.8	3.5	-1.5	0.0	0.0	0.0	0.0	0.0	11.8
1029	680603.47	4860267.13	101.87	0	DEN	A	71.2	8.1	0.0	0.0	0.0	68.7	3.4	-1.5	0.0	0.0	0.0	0.0	0.0	8.6
1031	680610.26	4860269.49	102.01	0	DEN	A	71.2	9.0	0.0	0.0	0.0	68.7	3.4	-1.3	0.0	0.0	0.0	0.0	0.0	9.4
1035	680578.51	4860218.65	100.41	0	DEN	A	71.2	9.9	0.0	0.0	0.0	69.1	3.5	-2.4	0.0	0.0	3.8	0.0	0.0	7.1
1039	680563.58	4860218.46	100.32	0	DEN	A	71.2	13.0	0.0	0.0	0.0	69.2	3.6	-2.3	0.0	0.0	3.7	0.0	0.0	10.0
1243	680520.06	4860217.92	99.85	0	DEN	A	71.2	14.6	0.0	0.0	0.0	69.7	3.7	-2.5	0.0	0.0	3.2	0.0	0.0	11.7
1283	680461.83	4860221.69	98.97	0	DEN	A	71.2	8.5	0.0	0.0	0.0	70.2	3.9	-0.9	0.0	0.0	4.4	0.0	0.0	2.0
1287	680446.20	4860226.07	98.61	0	DEN	A	71.2	12.8	0.0	0.0	0.0	70.4	4.0	-1.7	0.0	0.0	4.6	0.0	0.0	6.8
1348	680602.66	4860218.94	100.55	0	DEN	A	71.2	13.3	0.0	0.0	0.0	68.8	3.5	-1.8	0.0	0.0	3.9	0.0	0.0	10.1
1421	680494.77	4860217.61	99.61	0	DEN	A	71.2	11.9	0.0	0.0	0.0	69.9	3.8	-2.5	0.0	0.0	2.6	0.0	0.0	9.3
1422	680482.04	4860217.46	99.33	0	DEN	A	71.2	9.9	0.0	0.0	0.0	70.1	3.9	-2.5	0.0	0.0	2.3	0.0	0.0	7.4
1483	680621.26	4860223.35	100.86	0	DEN	A	71.2	12.5	0.0	0.0	0.0	68.6	3.4	-1.3	0.0	0.0	3.9	0.0	0.0	9.2
1506	680634.30	4860233.65	101.28	0	DEN	A	71.2	12.0	0.0	0.0	0.0	68.4	3.3	-1.1	0.0	0.0	3.5	0.0	0.0	9.0
1537	680572.27	4860256.29	101.39	0	DEN	A	71.2	12.1	0.0	0.0	0.0	69.1	3.5	-1.3	0.0	0.0	0.0	0.0	0.0	11.9
1586	680639.64	4860250.13	101.79	0	DEN	A	71.2	5.2	0.0	0.0	0.0	68.3	3.3	-0.9	0.0	0.0	0.0	0.0	0.0	5.6
1589	680639.57	4860246.78	101.69	0	DEN	A	71.2	5.3	0.0	0.0	0.0	68.4	3.3	-0.9	0.0	0.0	0.0	0.0	0.0	5.8
1590	680639.48	4860242.47	101.58	0	DEN	A	71.2	7.2	0.0	0.0	0.0	68.4	3.3	-0.9	0.0	0.0	2.1	0.0	0.0	5.5
1718	680470.21	4860258.67	100.20	0	DEN	A	71.2	6.4	0.0	0.0	0.0	70.1	3.9	-0.5	0.0	0.0	0.0	0.0	0.0	4.1
1720	680471.26	4860255.43	100.14	0	DEN	A	71.2	3.9	0.0	0.0	0.0	70.1	3.9	-0.5	0.0	0.0	0.0	0.0	0.0	1.6
1722	680471.92	4860253.42	100.11	0	DEN	A	71.2	2.5	0.0	0.0	0.0	70.1	3.9	-0.5	0.0	0.0	0.0	0.0	0.0	0.2
1725	680473.40	4860248.86	100.04	0	DEN	A	71.2	8.9	0.0	0.0	0.0	70.1	3.9	-0.6	0.0	0.0	0.0	0.0	0.0	6.7
1729	680471.48	4860254.78	100.13	1	DEN	A	71.2	8.3	0.0	0.0	0.0	70.2	3.9	-0.4	0.0	0.0	0.0	0.0	3.2	2.6
1733	680619.38	4860270.73	102.14	0	DEN	A	71.2	10.3	0.0	0.0	0.0	68.6	3.4	-1.0	0.0	0.0	0.0	0.0	0.0	10.6
1852	680543.37	4860218.21	100.05	0	DEN	A	71.2	10.8	0.0	0.0	0.0	69.4	3.7	-2.2	0.0	0.0	3.5	0.0	0.0	7.6
1984	680633.55	4860264.48	102.12	0	DEN	A	71.2	8.2	0.0	0.0	0.0	68.4	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	8.5
1985	680636.40	4860261.06	102.05	0	DEN	A	71.2	3.7	0.0	0.0	0.0	68.4	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	4.0
2002	680637.68	4860258.40	101.99	0	DEN	A	71.2	5.7	0.0	0.0	0.0	68.4	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	6.0
2005	680638.57	4860255.44	101.92	0	DEN	A	71.2	4.0	0.0	0.0	0.0	68.3	3.3	-0.9	0.0	0.0	0.0	0.0	0.0	4.3
2006	680639.30	4860253.01	101.86	0	DEN	A	71.2	4.1	0.0	0.0	0.0	68.3	3.3	-0.9	0.0	0.0	0.0	0.0	0.0	4.6
2020	680420.97	4860233.15	98.21	0	DEN	A	71.2	11.4	0.0	0.0	0.0	70.6	4.1	-1.1	0.0	0.0	4.4	0.0	0.0	4.6
2034	680625.22	4860270.42	102.19	0	DEN	A	71.2	0.2	0.0	0.0	0.0	68.5	3.4	-0.9	0.0	0.0	0.0	0.0	0.0	0.5
2036	680626.78	4860269.56	102.19	0	DEN	A	71.2	4.0	0.0	0.0	0.0	68.5	3.4	-0.9	0.0	0.0	0.0	0.0	0.0	4.3
2038	680629.66	4860267.98	102.17	0	DEN	A	71.2	6.1	0.0	0.0	0.0	68.4	3.3	-0.9	0.0	0.0	0.0	0.0	0.0	6.4
2130	680558.23	4860251.43	101.10	0	DEN	A	71.2	9.2	0.0	0.0	0.0	69.2	3.6	-0.9	0.0	0.0	0.0	0.0	0.0	8.5
2247	680482.14	4860237.96	99.94	0	DEN	A	71.2	2.8	0.0	0.0	0.0	70.0	3.9	-1.4	0.0	0.0	0.0	0.0	0.0	1.5
2248	680484.94	4860236.22	99.95	0	DEN	A	71.2	6.7	0.0	0.0	0.0	70.0	3.8	-1.5	0.0	0.0	0.0	0.0	0.0	5.5
2249	680487.92	4860234.36	99.96	0	DEN	A	71.2	3.7	0.0	0.0	0.0	70.0	3.8	-1.7	0.0	0.0	0.0	0.0	0.0	2.7
2572	680499.71	4860232.50	100.16	0	DEN	A	71.2	8.9	0.0	0.0	0.0	69.9	3.8	-1.0	0.0	0.0	0.0	0.0	0.0	7.4
2574	680583.72	4860260.26	101.53	0	DEN	A	71.2	8.0	0.0	0.0	0.0	69.0	3.5	-1.4	0.0	0.0	0.0	0.0	0.0	8.1
2636	680492.36	4860233.10	100.02	0	DEN	A	71.2	8.5	0.0	0.0	0.0	69.9	3.8	-1.3	0.0	0.0	0.0	0.0	0.0	7.2
2926	680551.83	4860249.22	100.94	0	DEN	A	71.2	7.2	0.0	0.0	0.0	69.3	3.6	-0.9	0.0	0.0	0.0	0.0	0.0	6.3
2982	680587.68	4860218.76	100.43	0	DEN	A	71.2	6.6	0.0	0.0	0.0	69.0	3.5	-2.2	0.0	0.0	3.9	0.0	0.0	3.6
3188	680551.49	4860218.31	100.22	0	DEN	A	71.2	6.2	0.0	0.0	0.0	69.4	3.6	-2.2	0.0	0.0	3.6	0.0	0.0	3.0
3261	680475.39	4860244.31	99.98	0	DEN	A	71.2	3.6	0.0	0.0	0.0	70.1	3.9	-0.6	0.0	0.0	0.0	0.0	0.0	1.4
3262	680476.86	4860242.75	99.98	0	DEN	A	71.2	3.1	0.0	0.0	0.0	70.1	3.9	-0.7	0.0	0.0	0.0	0.0	0.0	1.0
3393	680438.38	4860356.34	102.40	0	DEN	A	71.2	5.8	0.0	0.0	0.0	70.4	4.0	-0.6	0.0	0.0	0.0	0.0	0.0	3.2
3426	680535.88	4860218.12	99.91	0	DEN	A	71.2	4.6	0.0	0.0	0.0	69.5	3.7	-2.3	0.0	0.0	3.4	0.0	0.0	1.5
3428	680563.42	4860253.23	101.25	0	DEN	A	71.2	4.2	0.0	0.0	0.0	69.2	3.6	-1.0	0.0	0.0	0.0	0.0	0.0	3.7
3556	680504.85	4860232.96	100.28	0	DEN	A	71.2	4.1	0.0	0.0	0.0	69.8	3.8	-0.8	0.0	0.0	0.0	0.0	0.0	2.6
3577	680584.43	4860218.72	100.44	0	DEN	A	71.2	2.9	0.0	0.0	0.0	69.0	3.5	-2.3	0.0	0.0	3.9	0.0	0.0	0.0
3582	680467.61	4860266.64	100.36	0	DEN	A	71.2	3.9	0.0	0.0	0.0	70.1	3.9	-0.5	0.0	0.0	0.0	0.0	0.0	1.5
3656	680480.49	4860239.06	99.95	0	DEN	A	71.2	3.1	0.0	0.0	0.0	70.0	3.9	-1.2	0.0	0.0	0.0	0.0	0.0	1.7
3660	680503.56	4860217.72	99.80	0	DEN	A	71.2	2.9	0.0	0.0	0.0	69.8	3.8	-2.5	0.0	0.0	2.8	0.0	0.0	0.1
3702	680468.29	4860264.57	100.32	0	DEN	A	71.2	2.8	0.0	0.0	0.0	70.1	3.9	-0.5	0.0	0.0	0.0	0.0	0.0	0.4
3725	680479.12	4860240.28	99.97	0	DEN	A	71.2	2.1	0.0	0.0	0.0	70.1	3.9	-1.0	0.0	0.0	0.0	0.0	0.0	0.4
3801	680506.76	4860233.62	100.31	0	DEN	A	71.2	1.6	0.0	0.0	0.0	69.8	3.8	-0.8	0.0	0.0	0.0	0.0	0.0	0.0

vert. Area Source, ISO 9613, Name: "Tipping floor bay door - entrance", ID: "I00S042"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahou	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB(A))
949	680507.43	4860468.68	104.00	0	DEN	A	80.6	4.7	0.0	0.0	0.0	69.8	4.1	-1.1	0.0	0.0	4.8	0.0	0.0	7.8
951	680508.21	4860466.35	104.00	0	DEN	A	80.6	2.8	0.0	0.0	0.0	69.8	4.1	-1.0	0.0	0.0	5.0	0.0	0.0	5.5
954	680507.43	4860468.68	105.00	0	DEN	A	80.6	4.7	0.0	0.0	0.0	69.8	4.1	-1.0	0.0	0.0	4.5	0.0	0.0	7.9

vert. Area Source, ISO 9613, Name: "Tipping floor bay door - entrance", ID: "I00S042"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
955	680508.21	4860466.35	105.00	0	DEN	A	80.6	2.8	0.0	0.0	0.0	69.8	4.1	-0.9	0.0	0.0	4.7	0.0	0.0	5.8
959	680507.43	4860468.68	102.00	0	DEN	A	80.6	4.7	0.0	0.0	0.0	69.8	4.1	-0.8	0.0	0.0	8.6	0.0	0.0	3.6
960	680508.21	4860466.35	102.00	0	DEN	A	80.6	2.8	0.0	0.0	0.0	69.8	4.1	-0.8	0.0	0.0	9.8	0.0	0.0	0.6
969	680507.43	4860468.68	101.00	0	DEN	A	80.6	4.7	0.0	0.0	0.0	69.8	4.1	0.8	0.0	0.0	8.8	0.0	0.0	1.9
979	680507.43	4860468.68	103.00	0	DEN	A	80.6	4.7	0.0	0.0	0.0	69.8	4.1	-1.2	0.0	0.0	5.2	0.0	0.0	7.5
981	680508.21	4860466.35	103.00	0	DEN	A	80.6	2.8	0.0	0.0	0.0	69.8	4.1	-1.1	0.0	0.0	5.5	0.0	0.0	5.1
1509	680507.43	4860468.68	100.25	0	DEN	A	80.6	1.7	0.0	0.0	0.0	69.8	4.1	-2.2	0.0	0.0	10.4	0.0	0.0	0.3

Line Source, ISO 9613, Name: "On-site truck traffic - truck entrance", ID: "I00S035"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1022	680567.97	4860214.23	100.23	0	DEN	A	71.2	15.0	0.0	0.0	0.0	69.2	3.6	-2.6	0.0	0.0	3.9	0.0	0.0	12.1
1054	680629.58	4860296.97	102.40	0	DEN	A	71.2	12.1	0.0	0.0	0.0	68.4	3.3	-0.6	0.0	0.0	0.0	0.0	0.0	12.2
1057	680625.64	4860308.31	102.40	0	DEN	A	71.2	8.9	0.0	0.0	0.0	68.4	3.3	-0.7	0.0	0.0	0.0	0.0	0.0	9.0
1276	680442.73	4860224.91	98.47	0	DEN	A	71.2	11.9	0.0	0.0	0.0	70.4	4.0	-1.7	0.0	0.0	4.6	0.0	0.0	5.8
1278	680455.44	4860221.57	98.77	0	DEN	A	71.2	10.3	0.0	0.0	0.0	70.3	4.0	-1.0	0.0	0.0	4.4	0.0	0.0	3.9
1279	680463.83	4860219.37	98.97	0	DEN	A	71.2	8.1	0.0	0.0	0.0	70.2	3.9	-1.2	0.0	0.0	4.5	0.0	0.0	2.0
1338	680642.33	4860239.36	101.52	0	DEN	A	71.2	2.7	0.0	0.0	0.0	68.3	3.3	-0.9	0.0	0.0	3.0	0.0	0.0	0.2
1340	680642.18	4860242.86	101.61	0	DEN	A	71.2	7.1	0.0	0.0	0.0	68.3	3.3	-0.9	0.0	0.0	2.1	0.0	0.0	5.5
1342	680642.01	4860247.06	101.73	0	DEN	A	71.2	5.2	0.0	0.0	0.0	68.3	3.3	-0.9	0.0	0.0	0.0	0.0	0.0	5.6
1343	680641.81	4860251.65	101.85	0	DEN	A	71.2	7.7	0.0	0.0	0.0	68.3	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	8.1
1344	680641.64	4860255.83	101.96	0	DEN	A	71.2	3.9	0.0	0.0	0.0	68.3	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	4.2
1345	680641.56	4860257.82	102.02	0	DEN	A	71.2	1.9	0.0	0.0	0.0	68.3	3.3	-0.8	0.0	0.0	0.0	0.0	0.0	2.2
1347	680518.67	4860213.73	99.71	0	DEN	A	71.2	14.3	0.0	0.0	0.0	69.7	3.7	-2.6	0.0	0.0	3.5	0.0	0.0	11.1
1383	680602.85	4860215.37	100.45	0	DEN	A	71.2	13.2	0.0	0.0	0.0	68.8	3.5	-1.7	0.0	0.0	3.9	0.0	0.0	10.0
1386	680622.21	4860220.20	100.78	0	DEN	A	71.2	13.0	0.0	0.0	0.0	68.6	3.4	-1.2	0.0	0.0	3.9	0.0	0.0	9.5
1423	680632.57	4860226.51	101.07	0	DEN	A	71.2	6.8	0.0	0.0	0.0	68.5	3.4	-1.1	0.0	0.0	3.9	0.0	0.0	3.3
1424	680638.22	4860233.38	101.31	0	DEN	A	71.2	11.2	0.0	0.0	0.0	68.4	3.3	-1.0	0.0	0.0	3.6	0.0	0.0	8.0
1426	680530.12	4860474.62	102.40	0	DEN	A	71.2	4.1	0.0	0.0	0.0	69.6	3.7	-1.6	0.0	0.0	0.0	0.0	0.0	3.6
1427	680523.29	4860472.46	102.40	0	DEN	A	71.2	10.7	0.0	0.0	0.0	69.6	3.7	-1.1	0.0	0.0	3.2	0.0	0.0	6.4
1429	680512.80	4860469.14	102.40	0	DEN	A	71.2	8.9	0.0	0.0	0.0	69.7	3.8	-0.8	0.0	0.0	7.1	0.0	0.0	0.3
1440	680594.43	4860398.16	102.40	0	DEN	A	71.2	10.0	0.0	0.0	0.0	68.8	3.5	-0.5	0.0	0.0	0.0	0.0	0.0	9.4
1445	680591.26	4860407.30	102.40	0	DEN	A	71.2	9.7	0.0	0.0	0.0	68.9	3.5	-0.4	0.0	0.0	0.0	0.0	0.0	9.0
1457	680591.05	4860407.89	102.40	1	DEN	A	71.2	9.1	0.0	0.0	0.0	69.1	3.6	-0.6	0.0	0.0	0.0	0.0	3.2	5.0
1480	680593.24	4860401.59	102.40	2	DEN	A	71.2	9.0	0.0	0.0	0.0	69.4	3.6	-0.8	0.0	0.0	0.0	0.0	5.3	2.7
1484	680557.44	4860469.63	102.40	0	DEN	A	71.2	6.4	0.0	0.0	0.0	69.3	3.6	-1.1	0.0	0.0	2.8	0.0	0.0	3.0
1485	680547.55	4860472.46	102.40	0	DEN	A	71.2	12.1	0.0	0.0	0.0	69.4	3.6	-1.4	0.0	0.0	0.0	0.0	0.0	11.7
1513	680491.54	4860214.55	99.45	0	DEN	A	71.2	13.3	0.0	0.0	0.0	70.0	3.8	-2.6	0.0	0.0	3.0	0.0	0.0	10.2
1651	680615.42	4860337.74	102.40	0	DEN	A	71.2	8.2	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	8.1
1660	680613.59	4860343.02	102.40	0	DEN	A	71.2	6.7	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	6.6
1837	680564.45	4860466.05	102.40	0	DEN	A	71.2	10.6	0.0	0.0	0.0	69.2	3.6	-0.8	0.0	0.0	5.9	0.0	0.0	3.9
1981	680641.15	4860260.57	102.09	0	DEN	A	71.2	6.0	0.0	0.0	0.0	68.3	3.3	-0.7	0.0	0.0	0.0	0.0	0.0	6.4
1982	680640.31	4860264.99	102.20	0	DEN	A	71.2	7.0	0.0	0.0	0.0	68.3	3.3	-0.7	0.0	0.0	0.0	0.0	0.0	7.2
1995	680538.73	4860213.27	99.84	0	DEN	A	71.2	6.7	0.0	0.0	0.0	69.5	3.7	-2.6	0.0	0.0	3.7	0.0	0.0	3.5
1999	680544.35	4860213.45	99.97	0	DEN	A	71.2	8.2	0.0	0.0	0.0	69.4	3.7	-2.6	0.0	0.0	3.8	0.0	0.0	5.1
2059	680418.47	4860231.29	98.09	0	DEN	A	71.2	9.8	0.0	0.0	0.0	70.6	4.1	-1.3	0.0	0.0	4.5	0.0	0.0	3.1
2063	680584.60	4860426.45	102.40	0	DEN	A	71.2	7.6	0.0	0.0	0.0	68.9	3.5	-0.8	0.0	0.0	0.0	0.0	0.0	7.2
2066	680583.23	4860430.40	102.40	0	DEN	A	71.2	4.2	0.0	0.0	0.0	69.0	3.5	-1.1	0.0	0.0	0.0	0.0	0.0	4.0
2104	680585.24	4860424.61	102.40	1	DEN	A	71.2	2.7	0.0	0.0	0.0	69.0	3.5	-0.9	0.0	0.0	0.0	0.0	2.1	0.1
2106	680584.09	4860427.92	102.40	1	DEN	A	71.2	7.1	0.0	0.0	0.0	69.0	3.5	-1.0	0.0	0.0	0.0	0.0	2.0	4.8
2125	680473.74	4860216.76	99.13	0	DEN	A	71.2	7.8	0.0	0.0	0.0	70.1	3.9	-2.5	0.0	0.0	4.7	0.0	0.0	2.7
2250	680639.38	4860268.77	102.30	0	DEN	A	71.2	4.5	0.0	0.0	0.0	68.3	3.3	-0.7	0.0	0.0	0.0	0.0	0.0	4.8
2251	680638.67	4860270.80	102.34	0	DEN	A	71.2	1.6	0.0	0.0	0.0	68.3	3.3	-0.6	0.0	0.0	0.0	0.0	0.0	1.8
2252	680638.14	4860272.32	102.38	0	DEN	A	71.2	2.5	0.0	0.0	0.0	68.3	3.3	-0.6	0.0	0.0	0.0	0.0	0.0	2.7
2288	680599.30	4860384.14	102.40	0	DEN	A	71.2	6.0	0.0	0.0	0.0	68.7	3.4	-0.6	0.0	0.0	0.0	0.0	0.0	5.6
2291	680598.38	4860386.79	102.40	0	DEN	A	71.2	2.0	0.0	0.0	0.0	68.8	3.4	-0.6	0.0	0.0	0.0	0.0	0.0	1.6
2335	680587.50	4860418.10	102.40	0	DEN	A	71.2	7.1	0.0	0.0	0.0	68.9	3.5	-0.4	0.0	0.0	0.0	0.0	0.0	6.3
2338	680586.40	4860421.28	102.40	0	DEN	A	71.2	2.0	0.0	0.0	0.0	68.9	3.5	-0.5	0.0	0.0	0.0	0.0	0.0	1.3
2347	680587.48	4860418.18	102.40	1	DEN	A	71.2	7.3	0.0	0.0	0.0	69.2	3.6	-0.6	0.0	0.0	0.0	0.0	3.2	3.1
2374	680587.88	4860417.00	102.40	1	DEN	A	71.2	4.5	0.0	0.0	0.0	69.0	3.5	-0.6	0.0	0.0	0.0	0.0	2.2	1.6
2375	680586.78	4860420.18	102.40	1	DEN	A	71.2	5.9	0.0	0.0	0.0	69.0	3.5	-0.6	0.0	0.0	0.0	0.0	2.2	3.0
2482	680605.86	4860365.26	102.40	0	DEN	A	71.2	7.0	0.0	0.0	0.0	68.7	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	6.8
2490	680604.85	4860368.17	102.40	0	DEN	A	71.2	0.5	0.0	0.0	0.0	68.7	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	0.3

Line Source, ISO 9613, Name: "On-site truck traffic - truck entrance", ID: "I00S035"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2517	680602.88	4860373.84	102.40	0	DEN	A	71.2	3.7	0.0	0.0	0.0	68.7	3.4	-0.6	0.0	0.0	0.0	0.0	0.0	3.4
2523	680601.88	4860376.71	102.40	0	DEN	A	71.2	5.7	0.0	0.0	0.0	68.7	3.4	-0.6	0.0	0.0	0.0	0.0	0.0	5.4
2609	680580.36	4860438.65	102.40	1	DEN	A	71.2	6.1	0.0	0.0	0.0	69.6	3.7	-0.4	0.0	0.0	0.0	0.0	2.1	2.3
2637	680633.09	4860286.86	102.40	0	DEN	A	71.2	6.7	0.0	0.0	0.0	68.4	3.3	-0.5	0.0	0.0	0.0	0.0	0.0	6.7
2645	680607.61	4860360.20	102.40	0	DEN	A	71.2	7.1	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	7.0
2715	680597.01	4860390.72	102.40	0	DEN	A	71.2	6.8	0.0	0.0	0.0	68.8	3.4	-0.5	0.0	0.0	0.0	0.0	0.0	6.3
2884	680617.26	4860332.43	102.40	0	DEN	A	71.2	6.7	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	6.7
2897	680536.89	4860475.01	102.40	0	DEN	A	71.2	7.6	0.0	0.0	0.0	69.5	3.7	-1.6	0.0	0.0	0.0	0.0	0.0	7.3
2934	680634.54	4860282.68	102.40	0	DEN	A	71.2	6.2	0.0	0.0	0.0	68.4	3.3	-0.5	0.0	0.0	0.0	0.0	0.0	6.2
2963	680619.36	4860326.40	102.40	0	DEN	A	71.2	3.1	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	3.1
2968	680618.68	4860328.35	102.40	0	DEN	A	71.2	3.2	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	3.2
2984	680410.60	4860233.36	98.01	0	DEN	A	71.2	8.3	0.0	0.0	0.0	70.7	4.1	-1.2	0.0	0.0	4.5	0.0	0.0	1.5
2986	680609.41	4860355.05	102.40	0	DEN	A	71.2	4.3	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	4.2
2990	680608.77	4860356.88	102.40	0	DEN	A	71.2	0.7	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	0.6
3023	680588.06	4860214.88	100.33	0	DEN	A	71.2	6.4	0.0	0.0	0.0	69.0	3.5	-2.1	0.0	0.0	3.9	0.0	0.0	3.3
3026	680612.26	4860346.83	102.40	0	DEN	A	71.2	1.6	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	1.5
3046	680611.71	4860348.41	102.40	0	DEN	A	71.2	2.8	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	2.7
3070	680600.61	4860380.36	102.40	0	DEN	A	71.2	6.0	0.0	0.0	0.0	68.7	3.4	-0.6	0.0	0.0	0.0	0.0	0.0	5.6
3104	680549.89	4860213.63	100.08	0	DEN	A	71.2	6.5	0.0	0.0	0.0	69.4	3.6	-2.6	0.0	0.0	3.8	0.0	0.0	3.5
3113	680578.09	4860445.20	102.40	1	DEN	A	71.2	6.1	0.0	0.0	0.0	69.7	3.7	-0.4	0.0	0.0	0.0	0.0	2.1	2.2
3116	680578.09	4860445.20	102.40	2	DEN	A	71.2	6.1	0.0	0.0	0.0	69.7	3.7	-0.4	0.0	0.0	0.0	0.0	4.1	0.2
3151	680621.18	4860321.15	102.40	0	DEN	A	71.2	5.5	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	5.5
3221	680428.21	4860228.73	98.20	0	DEN	A	71.2	7.2	0.0	0.0	0.0	70.5	4.0	-1.4	0.0	0.0	4.5	0.0	0.0	0.7
3231	680610.82	4860350.98	102.40	0	DEN	A	71.2	1.8	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	1.7
3236	680610.27	4860352.55	102.40	0	DEN	A	71.2	2.5	0.0	0.0	0.0	68.6	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	2.4
3251	680576.11	4860450.89	102.40	1	DEN	A	71.2	4.9	0.0	0.0	0.0	69.7	3.7	-0.4	0.0	0.0	0.0	0.0	2.1	1.0
3268	680603.95	4860370.74	102.40	0	DEN	A	71.2	4.8	0.0	0.0	0.0	68.7	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	4.6
3289	680635.72	4860279.31	102.40	0	DEN	A	71.2	4.2	0.0	0.0	0.0	68.4	3.3	-0.5	0.0	0.0	0.0	0.0	0.0	4.3
3294	680637.40	4860274.46	102.40	0	DEN	A	71.2	4.4	0.0	0.0	0.0	68.3	3.3	-0.6	0.0	0.0	0.0	0.0	0.0	4.5
3392	680636.55	4860276.91	102.40	0	DEN	A	71.2	3.8	0.0	0.0	0.0	68.3	3.3	-0.5	0.0	0.0	0.0	0.0	0.0	3.9
3398	680588.79	4860414.40	102.40	0	DEN	A	71.2	4.2	0.0	0.0	0.0	68.9	3.5	-0.4	0.0	0.0	0.0	0.0	0.0	3.4
3411	680588.79	4860414.41	102.40	1	DEN	A	71.2	4.2	0.0	0.0	0.0	69.2	3.6	-0.6	0.0	0.0	0.0	0.0	3.2	0.1
3423	680588.79	4860414.41	102.40	1	DEN	A	71.2	4.2	0.0	0.0	0.0	69.0	3.5	-0.6	0.0	0.0	0.0	0.0	2.2	1.3
3430	680620.06	4860324.39	102.40	0	DEN	A	71.2	3.5	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	3.5
3464	680532.67	4860475.17	102.40	0	DEN	A	71.2	4.3	0.0	0.0	0.0	69.6	3.7	-1.6	0.0	0.0	0.0	0.0	0.0	3.8
3471	680533.40	4860213.28	99.75	0	DEN	A	71.2	4.2	0.0	0.0	0.0	69.6	3.7	-2.6	0.0	0.0	3.7	0.0	0.0	1.1
3491	680623.43	4860314.66	102.40	0	DEN	A	71.2	3.1	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	3.1
3537	680622.58	4860317.11	102.40	0	DEN	A	71.2	2.9	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	2.9
3569	680591.29	4860214.99	100.33	0	DEN	A	71.2	3.2	0.0	0.0	0.0	68.9	3.5	-2.0	0.0	0.0	3.9	0.0	0.0	0.1
3572	680584.84	4860214.78	100.34	0	DEN	A	71.2	3.2	0.0	0.0	0.0	69.0	3.5	-2.2	0.0	0.0	3.9	0.0	0.0	0.1
3608	680585.84	4860422.88	102.40	0	DEN	A	71.2	2.6	0.0	0.0	0.0	68.9	3.5	-0.6	0.0	0.0	0.0	0.0	0.0	2.0
3635	680622.03	4860318.71	102.40	0	DEN	A	71.2	1.7	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	1.7
3665	680624.15	4860312.61	102.40	0	DEN	A	71.2	1.3	0.0	0.0	0.0	68.5	3.4	-0.7	0.0	0.0	0.0	0.0	0.0	1.4

vert. Area Source, ISO 9613, Name: "Residue building bay door 2", ID: "I00S046"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
1288	680532.02	4860295.00	102.92	0	DEN	A	78.6	6.9	0.0	0.0	0.0	69.5	6.6	-1.1	0.0	0.0	0.0	0.0	0.0	10.5
1293	680532.02	4860295.00	101.92	0	DEN	A	78.6	6.9	0.0	0.0	0.0	69.5	6.6	-0.6	0.0	0.0	0.0	0.0	0.0	10.0
1307	680532.02	4860295.00	104.92	0	DEN	A	78.6	6.9	0.0	0.0	0.0	69.5	6.6	-1.2	0.0	0.0	0.0	0.0	0.0	10.6
1317	680532.02	4860295.00	103.92	0	DEN	A	78.6	6.9	0.0	0.0	0.0	69.5	6.6	-1.2	0.0	0.0	0.0	0.0	0.0	10.6
1329	680532.02	4860295.00	100.92	0	DEN	A	78.6	6.9	0.0	0.0	0.0	69.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	9.4
1738	680532.02	4860295.00	100.17	0	DEN	A	78.6	3.9	0.0	0.0	0.0	69.5	6.6	-2.5	0.0	0.0	0.0	0.0	0.0	8.9

vert. Area Source, ISO 9613, Name: "APC Building Louver 6", ID: "I00S054"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2657	680543.26	4860372.82	115.60	0	DEN	A	73.0	6.0	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	7.8
2663	680543.26	4860372.82	114.60	0	DEN	A	73.0	6.0	0.0	0.0	0.0	69.4	3.0	-1.2	0.0	0.0	0.0	0.0	0.0	7.8
2670	680543.26	4860372.82	113.60	0	DEN	A	73.0	6.0	0.0	0.0	0.0	69.4	3.0	-1.2	0.0	0.0	0.0	0.0	0.0	7.9
3810	680543.26	4860372.82	113.00	0	DEN	A	73.0	-1.0	0.0	0.0	0.0	69.4	3.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.9

vert. Area Source, ISO 9613, Name: "APC Building Louver 5", ID: "!00S053"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahaus	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2676	680541.16	4860379.00	113.60	0	DEN	A	73.0	5.9	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	7.7
2686	680541.16	4860379.00	114.60	0	DEN	A	73.0	5.9	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	7.6
2705	680541.16	4860379.00	115.60	0	DEN	A	73.0	5.9	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	7.6
3819	680541.16	4860379.00	113.00	0	DEN	A	73.0	-1.1	0.0	0.0	0.0	69.4	3.0	-1.2	0.0	0.0	0.0	0.0	0.0	0.7

vert. Area Source, ISO 9613, Name: "APC Building Louver 4", ID: "!00S052"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahaus	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2768	680538.78	4860386.10	113.60	0	DEN	A	73.0	0.3	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	2.0
2771	680539.42	4860384.20	113.60	0	DEN	A	73.0	4.7	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	6.4
2785	680538.78	4860386.10	115.60	0	DEN	A	73.0	0.3	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	1.9
2787	680539.42	4860384.20	115.60	0	DEN	A	73.0	4.7	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	6.3
2792	680538.78	4860386.10	114.60	0	DEN	A	73.0	0.3	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	1.9
2794	680539.42	4860384.20	114.60	0	DEN	A	73.0	4.7	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	6.3

vert. Area Source, ISO 9613, Name: "APC Building Louver 3", ID: "!00S051"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahaus	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
2812	680536.96	4860391.43	114.60	0	DEN	A	73.0	1.6	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	3.2
2814	680537.47	4860389.93	114.60	0	DEN	A	73.0	2.3	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	3.9
2816	680537.87	4860388.73	114.60	0	DEN	A	73.0	-0.8	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.8
2818	680537.37	4860390.23	114.60	1	DEN	A	73.0	6.0	0.0	0.0	0.0	69.5	3.1	-1.0	0.0	0.0	0.0	0.0	2.1	5.4
2825	680536.96	4860391.43	115.60	0	DEN	A	73.0	1.6	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	3.2
2826	680537.47	4860389.93	115.60	0	DEN	A	73.0	2.3	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	3.9
2827	680537.87	4860388.73	115.60	0	DEN	A	73.0	-0.8	0.0	0.0	0.0	69.4	3.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.7
2828	680537.37	4860390.23	115.60	1	DEN	A	73.0	6.0	0.0	0.0	0.0	69.5	3.1	-0.9	0.0	0.0	0.0	0.0	2.1	5.3
2833	680536.96	4860391.43	113.60	0	DEN	A	73.0	1.6	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	3.2
2834	680537.47	4860389.93	113.60	0	DEN	A	73.0	2.3	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	4.0
2835	680537.87	4860388.73	113.60	0	DEN	A	73.0	-0.8	0.0	0.0	0.0	69.4	3.0	-1.1	0.0	0.0	0.0	0.0	0.0	0.8
2836	680537.37	4860390.23	113.60	1	DEN	A	73.0	6.0	0.0	0.0	0.0	69.5	3.1	-1.0	0.0	0.0	0.0	0.0	2.1	5.4



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