NOISE IMPACT FEASIBILITY STUDY (REVISED)
1242-1270 GORDON STREET & 9 VALLEY ROAD
GUELPH, ONTARIO

FOR

THE TRICAR GROUP

COMPLETED BY

HOWARD R. PATLIK, C.E.T.

CHECKED BY

JOHN E. COULTER, B.A.Sc., P.ENG.

J.E. COULTER ASSOCIATES LIMITED
1210 SHEPPARD AVENUE EAST, SUITE 211
TORONTO, ONTARIO
M2K 1E3

MAY 12, 2022

TABLE OF CONTENTS

TABLES

APPENDICES

1.0 INTRODUCTION

At the request of the Tricar Group, J.E. COULTER ASSOCIATES LIMITED has reviewed the plans for the proposed high-density residential development at 1242-1270 Gordon Street and 9 Valley Road in Guelph, Ontario (see Appendix A, Figure 1). The proposed development is to be located along the east side of Gordon Street between Edinburgh Road South and Arkell Road.

The purpose of this feasibility report is to identify any transportation source that may have a noise impact on the proposed development. Traffic on Gordon Street and Edinburgh Road South are the main sources of transportation noise potentially affecting this proposed residential development.

The report provides recommendations on the abatement of these transportation sources where required in support of the zone change and Draft Plan amendment. The noise criteria are listed in Appendix D.

2.0 DESCRIPTION OF AREA

The proposal consists of a two apartment buildings, each 10-storeys (see Appendix A, Figure 2). The west façades of the residential portions of the Buildings 1 and 2 are set back approximately 26m and 77m, respectively, from the centreline of Gordon Street. The north façade of Building 1 is setback 15m from the centreline of Street “A” (an extension of Edinburgh Road South) The west facade of the interior amenity areas (Level 1) is approximately 22m from the centreline of Gordon Street.

A review of the existing stationary sources in the vicinity of the proposed condominium development was undertaken by this office. Directly to the south along the east side of Gordon Street are two 5-storey apartment buildings (1280 and 1284 Gordon Street). At the northwest corner of Gordon Street and Arkell Road is an existing 6-storey apartment building (1291 Gordon Street). To the north are existing single-family dwellings along Gordon Street and Valley Road. All these off-site apartment buildings include rooftop HVAC equipment.

3.0 NOISE CRITERIA

The City of Guelph’s and the Ministry of the Environment, Conservation & Park’s (MECP) noise criteria are as follows (see Appendix D, References 1 and 2):

3.1 Transportation Sources

Table 1A: MECP Indoor Sound Level Limits – Road and Rail			
Type of Space	**Time Period**	**L_{eq} (dBA)**	
		Road	**Rail**
Living/dining, den areas of residences, hospitals, nursing homes, schools, daycare centres, etc.	07:00 – 23:00	45	40
Living/dining, den areas of residences, hospitals, nursing homes, etc. (except schools or daycare centres)	23:00 – 07:00	45	40
Sleeping quarters	07:00 – 23:00	45	40
	23:00 – 07:00	40	35

Table 1B: MECP Outdoor Sound Level Limits – Road and Rail			
Type of Space	**Time Period**	**L_{eq} (dBA)**	
		Road	**Rail**
Outdoor recreation areas[1]	07:00 – 23:00	55	55
Plane of window	23:00 – 07:00	50	50
Plane of window	07:00 – 23:00	55	55

[1] Up to 5 dB excess above noise criteria may be allowed with engineering judgement and justification, at the discretion of the Municipality, provided a warning clause is given. Above 60 dB L_{eq}, exterior noise mitigation measures (i.e. noise barriers, intervening structures, additional setback from source) are required.

3.2 Transportation Sources

The MECP guidelines that apply to a residential development site such as this are in Publication *NPC-300*.

3.3 Outdoor Living Areas (OLAs)

If the 16-Hour Equivalent Sound Level, L_{eq} (16) in the OLA is greater than 55 dBA and less than or equal to 60 dBA, noise control measures may be applied to reduce the sound level to 55 dBA. If measures are not provided, prospective purchasers or tenants should be informed of potential noise problems by a warning clause Type A.

If the 16-Hour Equivalent Sound Level, L_{eq} (16) in the OLA is greater than 60 dBA, noise control measures should be implemented to reduce the level to 55 dBA. Only in cases where

the required noise control measures are not feasible for technical, economic or administrative reasons would an excess above the limit (55 dBA) be acceptable with a warning clause Type B. In the above situations, any excess above the limit will not be acceptable if it exceeds 5 dBA.

3.4 Ventilation Requirements – Daytime (0700–2300 Hours)

For residential buildings, the Ministry's ventilation requirements are based on the sound level at the exterior building façade. Noise control measures may not be required if the L_{eq} (16 hr.) daytime sound level in the plane of a bedroom or living/dining room window is less than or equal to 55 dBA. If the sound level in the plane of a bedroom or living/dining room window is greater than 55 dBA and less than or equal to 65 dBA, the dwelling should be designed with a provision for the installation of central air conditioning in the future, at the occupant's discretion. Warning Clause Type C is also recommended.

If the daytime sound level in the plane of a bedroom or living/dining room window is greater than 65 dBA, installation of central air conditioning should be implemented with a warning clause Type D. In addition, building components including windows, walls and doors, where applicable, should be designed so that the indoor sound levels comply with the sound level limits in Table 1. The location and installation of the outdoor air conditioning device should comply with sound level limits of Publication *NPC-216* and guidelines contained in *Environmental Noise Guidelines for Installation of Residential Air Conditioning Devices*, or should comply with other criteria specified by the municipality.

3.5 Ventilation Requirements – Nighttime (2300–0700 Hours)

Noise control measures may not be required if the L_{eq} (8 hr.) nighttime sound level in the plane of a bedroom or living/dining room window is less than or equal to 50 dBA. If the sound level in the plane of a bedroom or living/dining room window is greater than 50 dBA and less than or equal to 60 dBA, the dwelling should be designed with a provision for the installation of central air conditioning in the future, at the occupants' discretion. Warning Clause Type C is also recommended.

If the nighttime sound level in the plane of a bedroom or living/dining room window is greater than 60 dBA, installation of central air conditioning should be implemented, with a Warning Clause Type D. In addition, building components including windows, walls and doors, where applicable, should be designed so that the indoor sound levels comply with the sound level limits in Table 1. The location and installation of the outdoor air conditioning device should comply with sound level limits of Publication *NPC-216* and guidelines contained in *Environmental Noise Guidelines for Installation of Residential Air Conditioning Devices*, or should comply with other criteria specified by the municipality.

3.6 Indoor Living Areas – Building Components

If the nighttime sound level outside the bedroom or living/dining room windows exceeds 60 dBA or the daytime sound level outside the bedroom or living/dining area windows exceeds 65 dBA, building components including windows, walls and doors, where applicable, should be designed so that the indoor sound levels comply with the sound level limits in Table 1. The acoustical performance of the building components (windows, doors and walls) should be specified.

If the nighttime sound level outside the bedroom or living/dining room windows exceeds 55 dBA or the daytime sound level outside the bedroom or living/dining area windows exceeds 60 dBA, building components including windows, walls and doors, where applicable, need to be designed so that the indoor sound levels comply with the sound level limits in Table 1. The acoustical performance of the building components (windows, doors and walls) needs to be specified.

3.7 Stationary Sources

The current City of Guelph's noise criteria (as per MECP's *NPC-300*) deal with stationary sound sources that are present at this proposed residential development. These criteria are based on the quietest ambient roadway traffic sound levels at the receiving point when the stationary source is operating. The proposed development is located in a Class 2 Urban Area as defined by MECP when the ambient sound levels are primarily generated by road traffic.

As noted in NPC-300, "For sound from a stationary source, including Quasi-Steady Impulsive Sound but not including other impulsive sound, the sound level limit at a point of reception, expressed in terms of the One-Hour Equivalent Sound Level (L_{eq}) is the higher of the applicable exclusion limit value or the background sound level for that point of reception. The greatest noise impact at a point of reception may not occur when the noise emissions from the stationary source(s) are highest, since the applicable limit (the higher of either background sound level or exclusion limit) may vary throughout the operating time."

The criteria applicable (Class 2) to this site state that the combined stationary noise sources cannot exceed the ambient roadway sound levels or 50 dB L_{eq}, whichever is higher, based on a 1-hour time period, during the daytime (0700–1900 hours). During the evening from 1900 to 2300 hours in outdoor amenity areas and at night (2300–0700 hours), the sound level limit is 45 dB $L_{eq.}$

The traffic sound levels used to set the stationary sound guidelines are those from current not future traffic, as they represent the worst case.

4.0 TRANSPORTATION NOISE SOURCES

The major sources of transportation noise at the site are the traffic on Gordon Street and Edinburgh Road South. Road traffic information for determining the projected sound levels was obtained from the City of Guelph's Transportation Department. The AADT was determined from the average of the AM and PM Peak hour volumes and multiplied by 10. A growth factor of 2.5% per annum was used to the year 2032. Detailed traffic data are provided in Appendix B. All recommendations are based on the exterior sound levels at the various façades exposed fully or partially to Gordon Street and Edinburgh Road South.

Based on the traffic data provided by the City of Guelph, Gordon Street is expected to carry the following traffic volumes for the purposes of specifying noise control measures (see Appendix B):

Table 2: Traffic Volume Projection						
Roadway	**AADT (Veh/Day)**	**Truck Percentage**		**# of Lanes**	**Posted Speed Limit (kph)**	**Day/Night Split (%)**
		Medium	**Heavy**			
Gordon Street (2019), Undivided Arterial Road	33,858	3.58%	2.34%	4	60	93/7
Gordon Street (2032) , Undivided Arterial Road	46,674	3.58%	2.34%	4	60	93/7
Edinburgh Road South (2021), west of Gordon St. , Undivided Arterial Road	11,619	2.5%	0.2%	2	50	93/7
Edinburgh Road South (2032), west of Gordon St. , Undivided Arterial Road	15,245	2.5%	0.2%	2	50	93/7

Note: Gordon Street (2019) includes added traffic from 7 developments on Gordon Street (2,390 vehicles per day) plus base traffic (31,468) for a total of 33,858. Traffic growth on all roads has been assumed to be 2.5% per annum (compounded) to the year 2032, a minimum 10-year projection.

5.0 PROJECTED EXTERIOR SOUND LEVELS (TRANSPORTATION)

The following table summarizes the exterior L_{eq} sound levels at various façade locations (see Appendix A, Figure 2 for calculation locations). Details of the sound level calculations are provided in Appendix B.

Table 3: Projected Traffic Sound Levels						
	Daytime Sound Level, dB L_{eq}			**Nighttime Sound Level, dB L_{eq}**		
Location	**Gordon St.**	**Edinburgh Rd. South**	**Total**	**Gordon St.**	**Edinburgh Rd. South**	**Total**
EXTERIOR BUILDING FACADES						
Building 1: Loc 1 NE Façade	64	55	**65**	56	47	**57**
Building 1: Loc 2 NW Façade	70	57	**70**	62	49	**62**
Building 1: Loc 3 SE Façade	64	--	**64**	56	--	**56**
Building 1: Loc 4 SW Façade	70	53	**70**	62	45	**62**
Building 1: Loc 5 Amenity Level 1, West Facade	71	54	**71**	--	--	**--**
Building 1: Loc 6 Amenity Level 1, West Facade	71	--	**71**	--	--	**--**
Building 2: Loc 7 NE Façade	60	--	**60**	52	--	**52**
Building 2: Loc 8 NW Façade (North Leg)	62	--	**62**	54	--	**54**
Building 2: Loc 9 SE Façade	60	--	**60**	52	--	**52**
Building 2: Loc 10 SW Façade	63	--	**63**	55	--	**55**
Building 2: Loc 11 NW Façade (West Leg)	61	--	**61**	53	--	**53**

OUTDOOR AMENITY AREAS						
Loc 12: Common Amenity Space, SW Grade Level, midpoint of OLA	59	--	**59**	--	--	**--**
Loc 13: Common Amenity Space, Building 2, NW (Grade Level)	54	--	**54**	--	--	--
Loc 14: Building 1 - West Terraces (Elevated 4.8m above grade)	65	53	**65**	--	--	--

Notes:

1. The sound levels have been calculated using 1 roadway segment for each roadway where the geometric centre of the roadway is used. This is acoustically equivalent to dividing the roadway into two separate segments.
2. In cases where sound levels are not provided for Edinburgh Road South, this is because for most receiver locations, the sound levels generated by Edinburgh Road South are acoustically insignificant relative to Gordon Street. The sound levels are more than 10 dB less than those of Gordon Street and do not increase the total value.
3. The report is based on project north being the top of the drawing. Gordon Street is considered to be situated west of the site.

6.0 IMPACT OF EXTERIOR TRANSPORTATION NOISE ON BUILDINGS

From the results summarized in the above table, unmitigated, a modest noise impact would be present primarily because of the traffic on Gordon Street. Edinburgh Rd South has little or no influence on the overall sound levels at the building. Noise control measures will include acoustic barriers and double glazing as a result of the traffic on Gordon Street.

Balconies or patios that are less than 4m in depth are not classified as Outdoor Living Areas as per the MECP noise guideline. Other areas where balconies or terraces are 4m or greater in depth, noise control measures are to be considered (i.e. solid railings at least 1.1m high to shield private terraces).

The City of Guelph's Noise guidelines state the following:

> For the purposes of noise impact assessment in an OLA, the point of assessment is typically:

a. For rectangular and regularly shaped OLAs: 3 metres from the building façade, 1.5 metres above grade or floor level and aligned with the midpoint of the subject façade;
b. For unusually shaped OLAs: a reasonably central location, biased toward a conservative assessment of the noise source, (e.g. at the area centroid);

c. For elevated OLAs, the point of assessment is typically the middle of the OLA however more conservative locations may be necessary.

The predictable worst case noise impact at a point of reception is defined as the greatest noise impact relative to the limit in any hour.

6.1 OUTDOOR AMENITY AREAS

There are 2 outdoor amenity areas for consideration noted as Locations 12 and 13. The southwest portion of the site incorporates a common outdoor space near Gordon Street. The space includes a sitting area.

The OLA for Location 12 (see Appendix A, Figure 4) includes a walkway at the western part of the area. The OLA is a large area and the point of reception considered was the centroid of the space (about 70m from the centreline of Gordon Street) as per the City's guidelines. At this setback, the daytime sound level is 59 dB L_{eq}, meeting the noise guideline of 60 dB L_{eq} daytime or less (unmitigated).

The elevated terraces along the west side of Building 1 (Location 14) will require noise mitigation measures in order to meet 60 dB Leq daytime where the depth of the terraces are 4m or greater in depth. The standard safety railing of 1.1m is not sufficiently high to provide sufficient noise control. It is recommended that a 2.4m high acoustic screen be considered for these terraces (see Appendix A, Figure 5). While the City's noise guidelines call for an absorptive (opaque) noise barrier, in this case, it is recommended that the barrier include a glass portion (surface density of 10 kg/m^2 as found in MECP's NPC-300). It would be unusual to have a noise barrier this tall on a private terrace that is opaque. If the depths of the terraces are reduced to be less than 4m, then there are no noise control measures required.

With the above landscaping measures in place, the sound levels are expected to be 60 dB L_{eq} or less daytime throughout the common outdoor area meeting the city's noise guideline.

The common outdoor space just northwest of Building 2 was found to be sufficient setback and shielded from Gordon Street and requires no additional noise control measures as the calculated sound levels are 54 dB L_{eq} daytime, meeting the criterion (55 dB L_{eq} daytime).

7.0 IMPACT OF OFF-SITE STATIONARY NOISE SOURCES ON BUILDINGS

A review of the existing stationary sources in the vicinity of the proposed condominium development was undertaken by this office. Directly to the south, along the east side of Gordon Street, are two 5-storey apartment buildings (1280 and 1284 Gordon Street). At the northwest corner of Gordon Street and Arkell Road is an existing 6-storey apartment building (1291 Gordon Street). A 5-storey apartment building is located at 1219 Gordon Street (northwest corner of Gordon and Edinburgh). To the north are existing single-family dwellings along Gordon Street and Valley Road. All these off-site apartment buildings include rooftop HVAC equipment (see Appendix A, Figure 6).

To calculate the sound levels, a 3-D acoustic model was used (CadnaA 2022). The software analyses each floor level around the entire building and provides the location of the highest sound levels. As a result, the worst case reception locations are located at the top floor of the

apartment buildings using MECP's exclusion limits for a Class 2 Area. The analysis was based on the rooftop mechanical equipment at the off-site locations to have a sound power level of 95 dBA, typical for most mid-rise buildings. The points of reception considered in the analysis were as follows:

R1: Building 1, 5th Floor Level, South Façade (closest to apartment buildings at 1280 and 1284 Gordon Street)

R2: Building 2, 5th Floor Level, South Façade, west end (closest to apartment buildings at 1280 and 1284 Gordon Street)

R3: Building 2, 5th Floor Level, South Façade, east end (closest to apartment buildings at 1280 and 1284 Gordon Street).

MECP's stationary source noise criteria were based on the higher of the hourly sound level generated by road traffic or the MECP exclusion limit (see Appendix B, detail hourly traffic calculations).

The calculated sound levels from the off-site mechanical ventilation equipment at the proposed condominium are as follows during the daytime (Table 4), nighttime (Table 5) and evening (Table 6):

Table 4: Daytime Sound Levels from Off-Site HVAC Equipment

Off-site Sources	**R1**	**R2**	**R3**	**R4**
Apartment Building 1 (1280 Gordon) – Rooftop HVAC	45.5	44.9	40.8	29.0
Apartment Building 2 (1284 Gordon) – Rooftop HVAC	38.2	41.2	45.9	16.9
Apartment Building 3 (1291 Gordon) – Rooftop HVAC	41.8	41.7	40.1	38.6
Apartment Building 4 (1219 Gordon) – Rooftop HVAC	18.9	14.7	12.8	44.8
Total (dB L_{eq})	47	47	47	46
Noise Criteria (dB), Class 2	61	60	57	66
Noise Impact (dB)	**-14**	**-13**	**-10**	**-20**

Table 5: Nighttime Sound Levels from Off-Site HVAC Equipment				
Off-site Sources	**R1**	**R2**	**R3**	**R4**
Apartment Building 1 (1280 Gordon) – Rooftop HVAC	42.5	41.9	37.8	26.0
Apartment Building 2 (1284 Gordon) – Rooftop HVAC	35.2	38.2	42.9	23.9
Apartment Building 3 (1291 Gordon) – Rooftop HVAC	33.8	33.7	32.1	35.6
Apartment Building 4 (1219 Gordon) – Rooftop HVAC	15.9	11.7	9.8	41.8
Total (dB L_{eq})	44	44	44	43
Noise Criteria (dB), Class 2	45	45	45	54
Noise Impact (dB)	**-1**	**-1**	**-1**	**-11**

Table 6: Daytime Sound Levels from Off-Site HVAC Equipment at Common Outdoor Spaces		
Off-site Sources	**OLA (Bldg 1)**	**OLA (Bldg 2)**
Apartment Building 1 (1280 Gordon) – Rooftop HVAC	46.8	15.5
Apartment Building 2 (1284 Gordon) – Rooftop HVAC	38.6	13.8
Apartment Building 3 (1291 Gordon) – Rooftop HVAC	31.3	14.2
Apartment Building 4 (1219 Gordon) – Rooftop HVAC	23.0	33.8
Total (dB L_{eq})	48	34
Noise Criteria (dB), Class 2	57	56
Noise Impact (dB)	**-9**	**-22**

Table 7: Evening Sound Levels from Off-Site HVAC Equipment at Common Outdoor Spaces		
Off-site Sources	**OLA (Bldg 1)**	**OLA (Bldg 2)**
Apartment Building 1 (1280 Gordon) – Rooftop HVAC	46.8	15.5
Apartment Building 2 (1284 Gordon) – Rooftop HVAC	38.6	13.8
Apartment Building 3 (1291 Gordon) – Rooftop HVAC	31.3	14.2
Apartment Building 4 (1219 Gordon) – Rooftop HVAC	23.3	33.8
Total (dB L_{eq})	48	34
Noise Criteria (dB), Class 2	54	54
Noise Impact (dB)	**-6**	**-20**

The overall projected sound levels from all off-site mechanical equipment (operating at a 100% duty cycle during the day and evening and 50% at night are expected to range between 9 and 22 dB below MECP's noise criteria during the day, evening and night times. During the evening, at outdoor amenity areas, the sound levels are 6 to 19 dB below the quietest ambient traffic sound levels meting noise criteria.

8.0 IMPACT OF PROPOSED DEVELOPMENT ON SURROUNDING AREA

A review of the proposed rooftop HVAC equipment at 1242-1270 Gordon Street and 9 Valley Road was undertaken by this office. At this time, no details of the rooftop HVAC is known, however, data from a similar building development by Tricar was used in the analysis (see Appendix A, Figure 7). Further coordination and analysis of any potential noise control measures are required as the detailed design progresses at the Site Plan stage.

The analysis assumed the following preliminary sound values for each building:

1. Cooling Tower, Evapco rated at 96 dBA (Sound Power)
2. Engineered Air, AMU rated at 82 dBA (Sound Power)

The points of reception considered in the analysis were as follows:

R1:	Single family dwelling at 1236 Gordon Street directly north of Building 1
R2:	Outdoor Living Area of R1
R3 to R7:	Single family dwellings along Valley Road, north of Buildings A and B
R8:	1280 Gordon Street, North Façade, Top Floor (5th)
R9:	1284 Gordon Street, South Leg, North Façade, Top Floor (5th)
R10:	1284 Gordon Street, north Leg, North Façade, Top Floor (5th).

MECP's stationary source noise criteria were based on the quietest hourly sound levels of 50 dB minimum during the daytime (0700–2300 hours) and 45 dB minimum evening at OLA's (1900-2300 hours) and nighttime (2300–0700 hours). This represents the worst-case scenario where the HVAC equipment is operating at a 100% duty cycle during the daytime and 50% duty cycle at night. The reception locations were selected, at the top floor levels as they represent the potential for the highest sound levels from the mechanical equipment as direct line-of-sight and the shortest setback would be present compared to the lower floors where the roof edge will create a barrier effect plus the additional distance from the source.

The calculated sound levels from the on-site mechanical ventilation equipment at the proposed condominium are as follows during the daytime (Table 7) and nighttime (Table 8):

Table 7: Daytime Sound Levels at Off-Site Receptors Source: Rooftop HVAC at 1242-1270 Gordon Street										
	R1	**R2**	**R3**	**R4**	**R5**	**R6**	**R7**	**R8**	**R9**	**R10**
Building 1 – Rooftop HVAC	28.7	28.3	35.2	36.8	37.1	37.1	36.0	30.5	38.1	26.4
Building 2 – Rooftop HVAC	37.6	36.6	37.5	37.1	28.7	28.3	27.6	38.3	43.2	37.3
Total (dB L_{eq})	**38**	**37**	**40**	**40**	**38**	**38**	**37**	**39**	**44**	**38**
Noise Criteria (dB), Class 2	50	50	50	50	50	50	50	50	50	50
Noise Impact (dB)	**-12**	**-13**	**-10**	**-10**	**-12**	**-12**	**-13**	**-11**	**-6**	**-12**

Any potential noise impacts from the on-site mechanical equipment at Building 1 and 2 are expected to be minor. Where applicable, noise control measures will be detailed once the final location and equipment is known. Noise control measures may include barriers, parapets silencer, selection of quieter equipment and relocation, as required.

Table 8: Nighttime Sound Levels at Off-Site Receptors Source: Rooftop HVAC at 1242-1270 Gordon Street										
	R1	**R2**	**R3**	**R4**	**R5**	**R6**	**R7**	**R8**	**R9**	**R10**
Building 1 – Rooftop HVAC	25.7	25.3	32.2	33.8	34.1	34.1	33.0	27.5	35.0	23.4
Building 2 – Rooftop HVAC	34.6	33.6	34.5	34.1	25.7	25.3	24.6	35.3	40.2	34.3
Total (dB L_{eq})	35	34	37	37	35	35	34	36	41	35
Noise Criteria (dB), Class 2	45	45	45	45	45	45	45	45	45	45
Noise Impact (dB)	**-10**	**-11**	**-8**	**-8**	**-10**	**-10**	**-11**	**-9**	**-4**	**-10**

The overall projected sound levels from the projected rooftop mechanical equipment at 1242-1270 Gordon Street and 9 Valley Road (operating at 100% duty cycle, daytime and 50% at night) is expected to range between 6 and 13 dB below MECP's noise criteria during the day. At night, the sound levels are expected to range between 4 and 11 dB below MECP's noise criteria. As a result, no additional noise control measures are expected. Once the mechanical details are known for all rooftop HVAC, makeup air handlers, emergency generators, parking exhaust fans, the acoustic consultant should confirm the equipment meets MECP's NCPC-300 noise criteria and where excesses are identified, noise control measures provided. For example, in the case of the parking garage exhaust fan shafts located directly below a residential window, noise control measures may include the selection of quieter fans and/or acoustic shaft silencers.

9.0 NOISE MITIGATION MEASURES

The exterior sound levels at some parts of the development are greater than 65 dB L_{eq} daytime and/or 60 dB L_{eq} nighttime. As a result, central air conditioning prior to occupancy is required.

It is our understanding that central air conditioning will be supplied for the entire development, in any case.

At this time, there are no details regarding the location of proposed mechanical ventilation systems, emergency generators, exhaust fans to be used at Buildings 1 and 2. A general review of the anticipated sound levels from the rooftop ventilation equipment and location did not result in noise impacts at any point of reception off-site. Prior to building permit, the acoustic consultant should review the equipment selection and locations and confirm whether additional noise control measures (for example, silencers, barriers, enclosures, parapets or the selection of quieter equipment) are required to meet MECP's *NPC-300* criteria.

10.0 FAÇADE COMPONENTS

A general review of the floor plans and building elevations was conducted to determine if upgrades from the minimum Ontario Building Code (OBC) requirement were needed to meet MECP's interior sound level criterion for bedrooms and living rooms.

For this feasibility study, there are no detailed layouts of the residential suites to calculate the final façade requirements. The review concluded that no special building components (windows, walls or ceiling) were required for noise sensitive bedrooms during the daytime with a window/door-area-to-floor-area ratio of 145% or less based on 6mm double glazing on a 13mm air space (standard commercial window) rated at STC 34 for the fixed portion and STC 31 for the operable portion.

For living/diningrooms during the daytime, the maximum window and door-area-to-floor-area ratio is 125%, an extraordinarily large area of glazing. National Research Council's BPN-56 computer model was used to determine the window area to floor area ratios and the resultant interior sound levels (see Appendix B). A final review is required at Site Plan to confirm the requirements. For the residential suites in Buildings A and B, it is expected that OBC compatible construction with double glazing (6mm double glazing, operable or fixed) will meet the interior noise requirements.

For the grade level interior amenity areas at the west side of Building 1, calculations of the interior sound levels were undertaken for the large and small interior amenity areas. Based on an exterior sound levels of 71 dB L_{eq} at the west façade, the interior sound level of 40 and 37 dB L_{eq} daytime in the large and small amenity rooms using standard commercial double glazing (6mm panes on a 13mm air space, STC 34) to achieve an interior sound level of 45 dB L_{eq} or less.

11.0 SUMMARY

In summary, the analysis showed that the sound levels generated by the combination of Gordon Street and Edinburgh Road South will be modest, requiring noise control measures typical of such sites to meet the provincial requirements (i.e., central air conditioning, noise barriers and double glazing). These measures are found at many new residential developments adjacent to a main arterial roadway and are not considered onerous requirements.

Noise mitigation measures have been recommended for the Building 1 terraces directly fronting onto Gordon Street (2.4m high acoustic screen) in the case where the depths of the terraces are 4m or greater. Reducing the terrace depths to less than 4m remove the need for any noise control meusares.

The common outdoor amenity area at the southwest corner of the site at Building 1 will require noise control measures in the form of landscaping to form an acoustic barrier to meet the guideline.

The existing stationary sources (i.e., rooftop HVAC equipment from the adjacent apartment buildings) were found not to generate a noise impact at this proposed residential development.

12.0 RECOMMENDATIONS

To meet the noise requirements of the City of Guelph and MECP's noise guidelines, the following recommendations are proposed:

1. The exterior sound levels are greater than 65 dB L_{eq} daytime and/or 60 dB L_{eq} nighttime. As a result, central air conditioning prior to occupancy is required. It is our understanding that central air conditioning will be supplied for each dwelling unit for the entire development in any case, thus meeting the requirement.

2. The review concluded that no special building components (windows, walls or ceiling) were required for noise sensitive rooms during the daytime with a window/door-area-to-floor-area ratio of 112% or less based on 3mm double glazing on a 13mm air space rated at STC 30 for the fixed portion and STC 27 for the operable portion. During the daytime, the maximum window/door-area-to-floor-area ratio of 125%, an extraordinarily large area of glazing would be well within the interior noise criteria. Ontario Building Code (OBC) compatible construction with double glazing (operable or fixed) will meet the noise requirements based on the window-area-to-floor-area ratios noted above.

3. With the proposed landscaping at the OLA (Locations 12 and 12 B) (see Appendix A, Figure 4), the sound levels are expected to be 60 dB L_{eq} daytime or less throughout this common outdoor area. Residents are to be provided with a warning clause notifying them of the excess above the Noise Guidelines.

4. The elevated terraces along the west side of Building 1 (Location 14) will require noise mitigation measures in order to meet 60 dB L_{eq} daytime. The standard safety railing of 1.1m is not sufficiently high to provide sufficient noise control. It is recommended that a 2.4m high acoustic screen be considered for these terraces. While the City's noise guidelines call for an absorptive (opaque) noise barrier, in this case, it is recommended that the barrier include a glass portion (surface density of 10 kg/m^2 as found in MECP's NPC-300). It is would be unusual to have a noise barrier this tall on a terrace that is opaque. Alternatively, reducing the depths of these terraces to less than 4m eliminates the need for an acoustic barrier.

5. The Owner/Developer acknowledges and agrees that, if stepping of the noise barrier is required, the interval height per panel section of the required noise fence will be no greater than 101.6 millimetres (4 inches).

6. At this time, there are no details regarding the proposed mechanical ventilation systems to be used at Buildings 1 and 2. A general review of the anticipated sound levels from the rooftop ventilation equipment and location did not result in noise impacts at any point of reception off-site. Prior to Site Plan Approval, the acoustic consultant should review the equipment selection and locations and confirm whether additional noise control measures are required to meet MECP's*NPC-300* criteria.

7. Interior amenity areas in Building 1 (west façade) will require 6mm double glazed windows rated at STC 34 to meet the interior sound levels. This is a standard commercial window.

8. A Detailed Noise Study will be required at Site Plan outlining the final recommendations (Barriers, Ventilation, Warning Clauses and Façade Components).

/hp/hp

APPENDIX A: FIGURES

Key Map NTS.

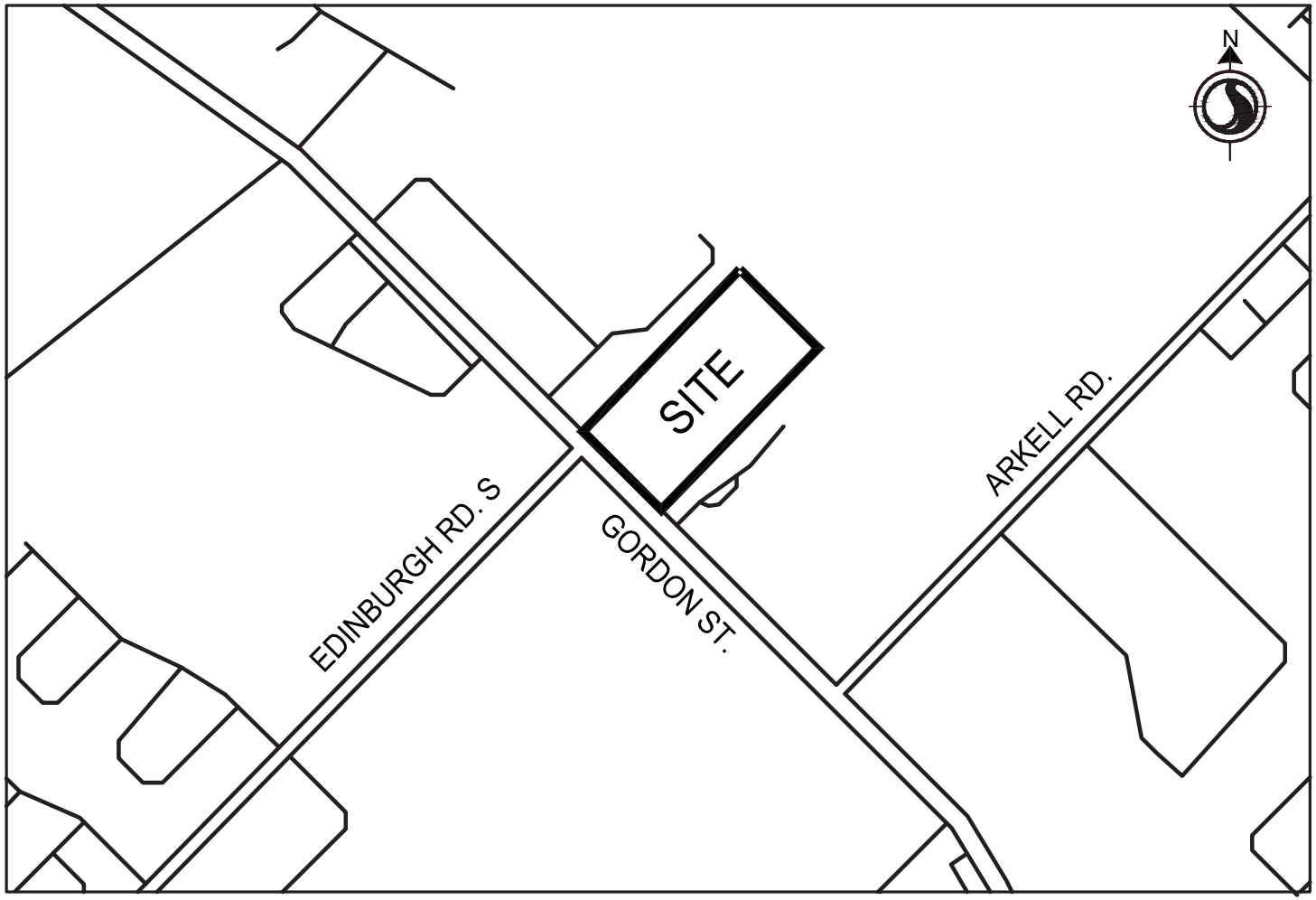
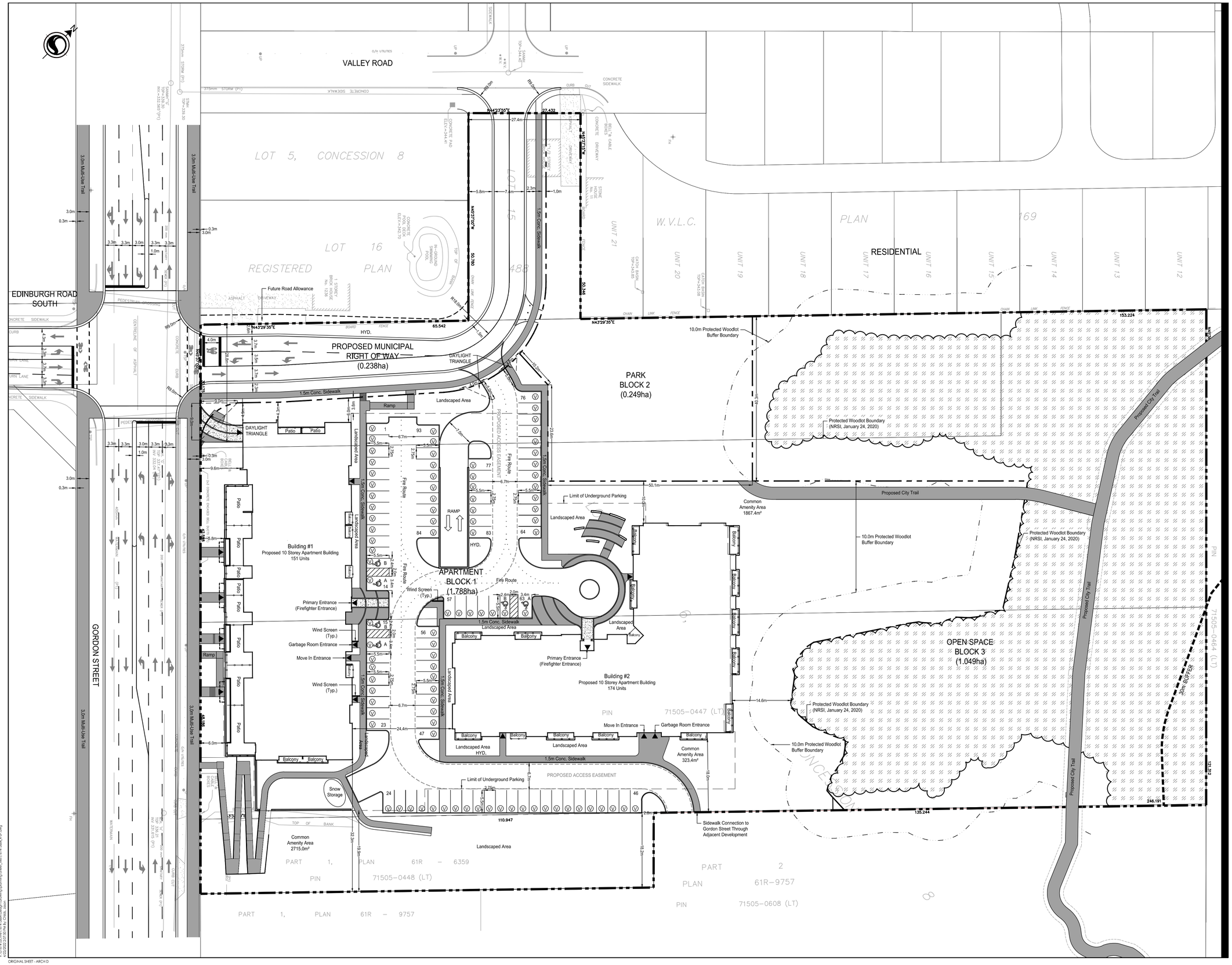


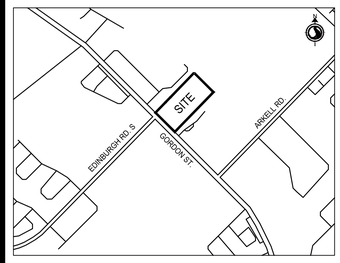
FIGURE 1



Stantec

Stantec Consulting Ltd.
600-171 Queens Avenue
London ON N6A 5J7
Tel: (519) 645-2007
www.stantec.com

Key Map NTS.



Legend

- VISITOR PARKING
- COLOURED CONCRETE PAVING
- UNIT PAVER BANDING
- CONCRETE PAVING

Revision/Issue	By	Appd	YYYY.MM.DD
6. Revised as per updated Parking and Road	JC	CH	2022.04.22
5. Revised as per updated Building Footprints and Road	JJ	CH	2021.06.29
4. Revised as per updated Building Footprints	JJ	CH	2021.05.27
3. Revised as per updated Underground Parking	JJ	CH	2020.05.21
2. Revised as per New NRSI Woodlot Boundary	JJ	CH	2020.02.18
1. Revised as per New Building Layout	JJ	CH	2020.01.07

File Name: 161413684_R-SP	Dwn.	Dsgn.	Chkd.	YYYY.MM.DD
	JJ	JJ	CH	2022.04.22

Permit-Seal

Client/Project
TRICAR DEVELOPMENTS INC.

1250 GORDON STREET

GUELPH, ON

Title
SITE PLAN

Project No. 161413684

Scale 1:400 (0 4 12 20m)

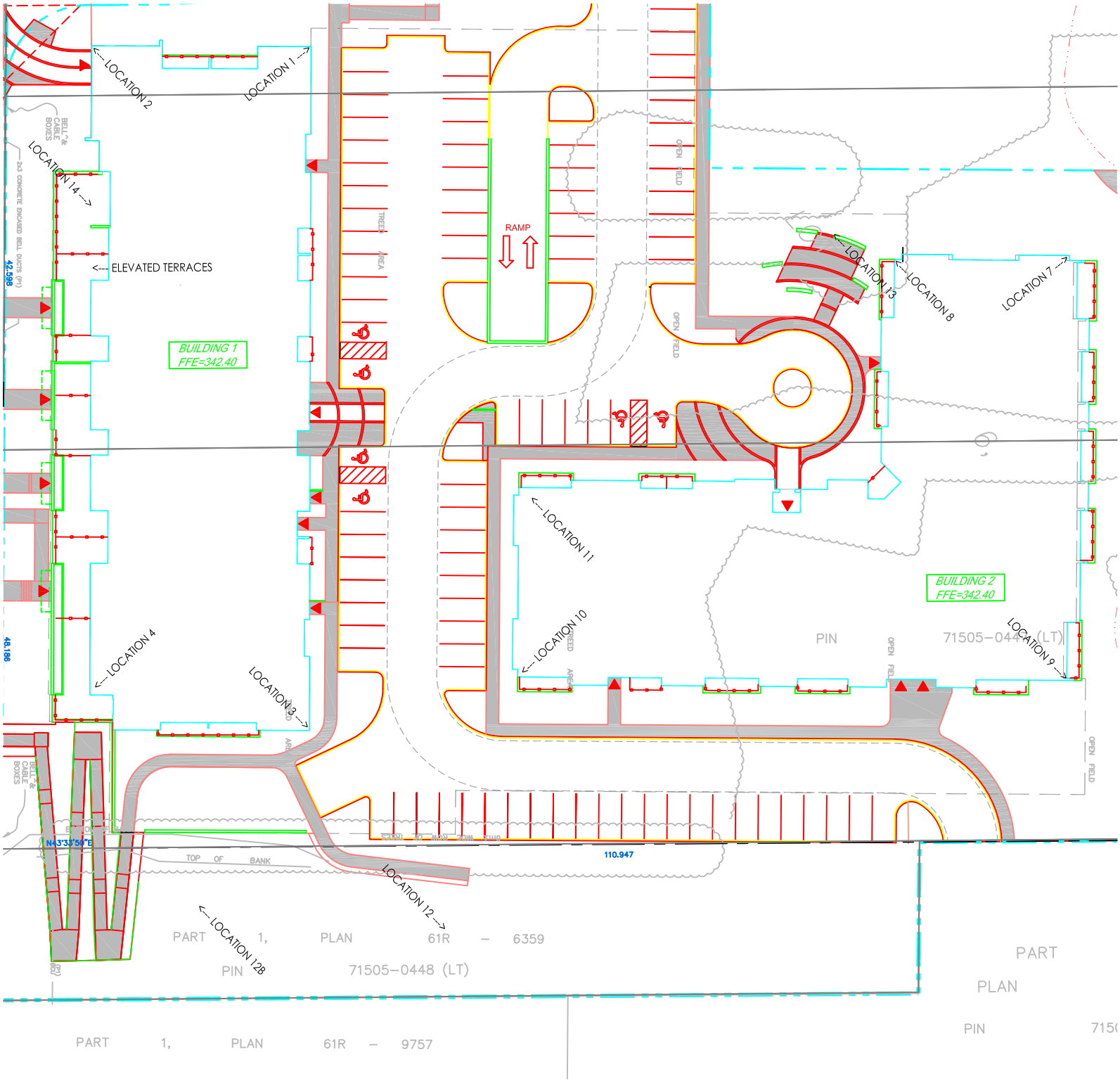
Revision 6

Sheet 1 of 1

Drawing No. SP-1

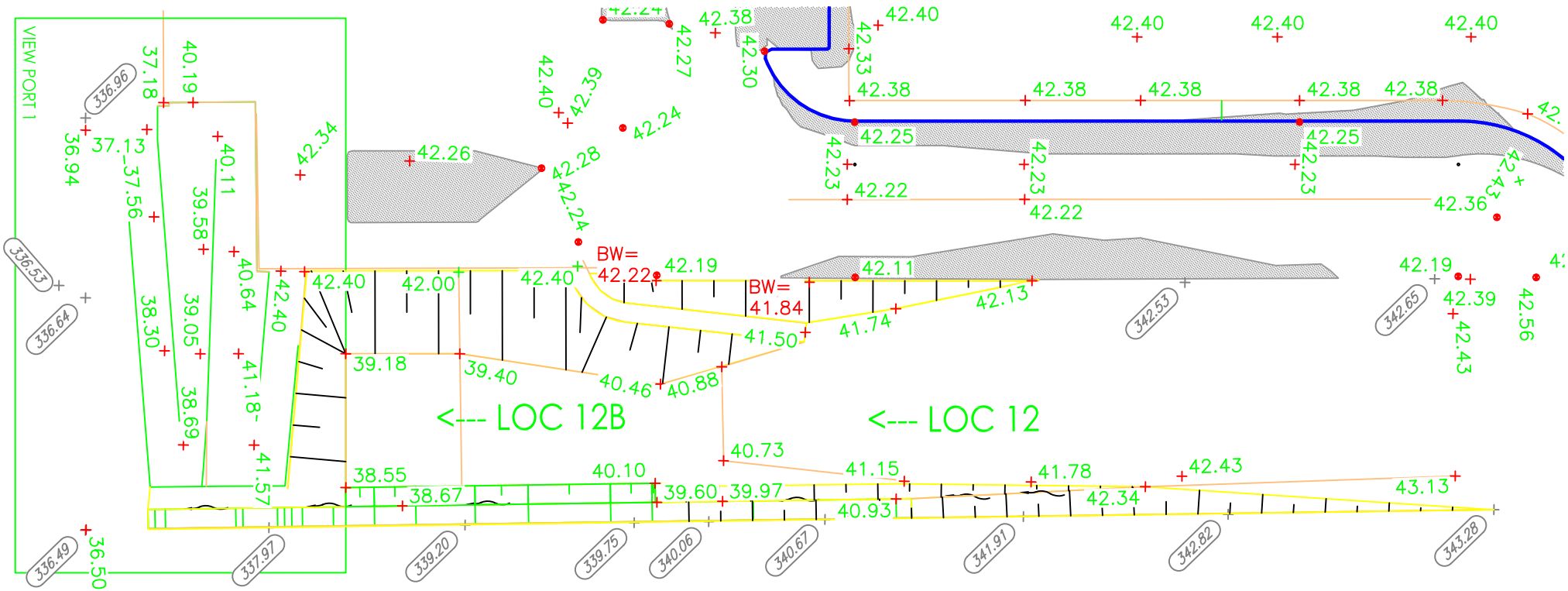
FIGURE 2

ORIGINAL SHEET - ARCH D



RECEIVER LOCATIONS

FIGURE 3



SITE GRADING

FIGURE 4

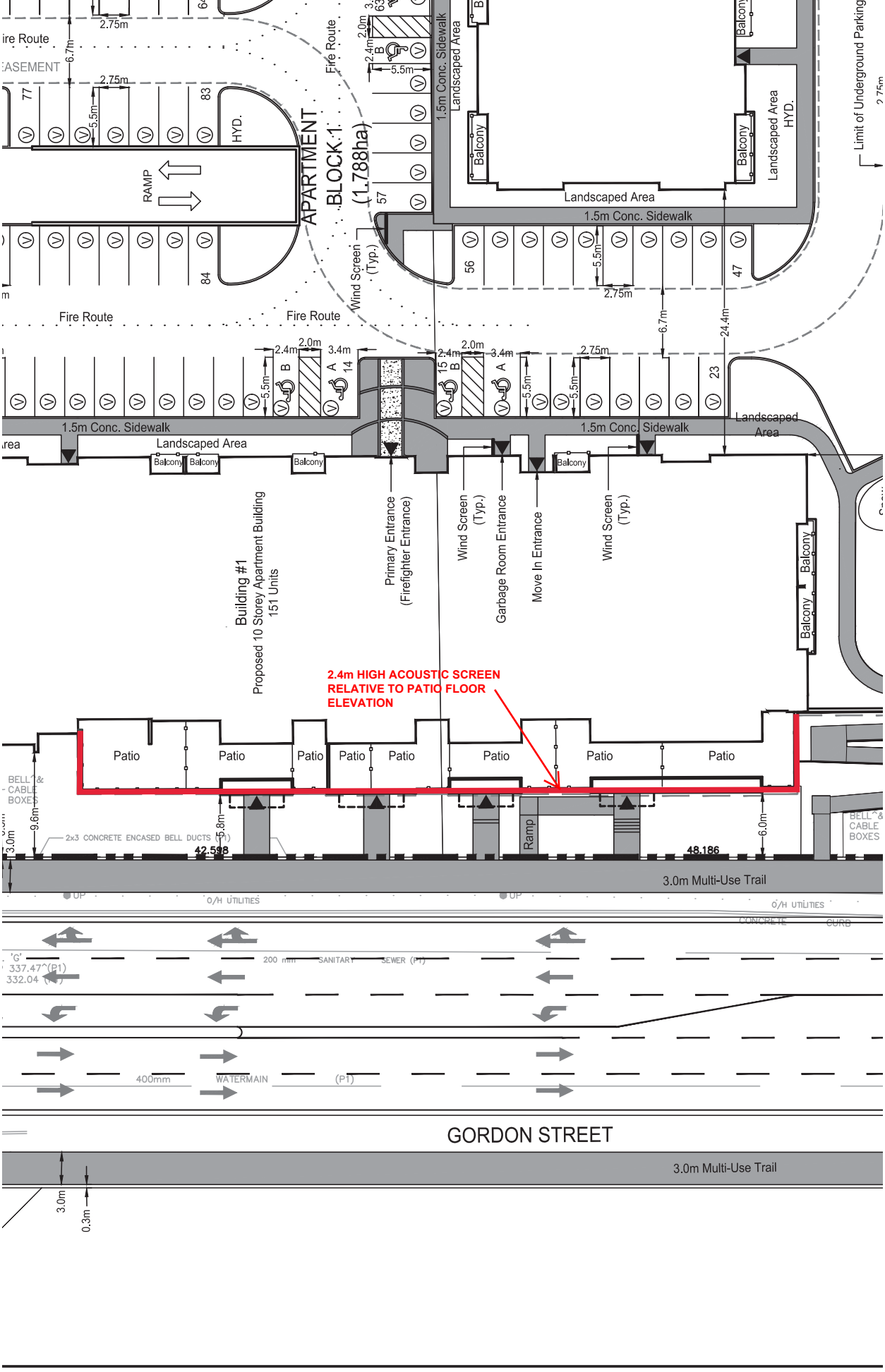

APARTMENT BLOCK 1 (1.788ha)
Fire Route
EASEMENT
RAMP
HYD.
Landscaped Area
1.5m Conc. Sidewalk
Balcony
Wind Screen (Typ.)
Limit of Underground Parking
Building #1
Proposed 10 Storey Apartment Building
151 Units
Primary Entrance (Firefighter Entrance)
Garbage Room Entrance
Move In Entrance
2.4m HIGH ACOUSTIC SCREEN RELATIVE TO PATIO FLOOR ELEVATION
Patio
Ramp
42.598
48.186
3.0m Multi-Use Trail
O/H UTILITIES
CONCRETE CURB
200 mm SANITARY SEWER (PT)
400mm WATERMAIN (PT)
GORDON STREET

FIGURE 5

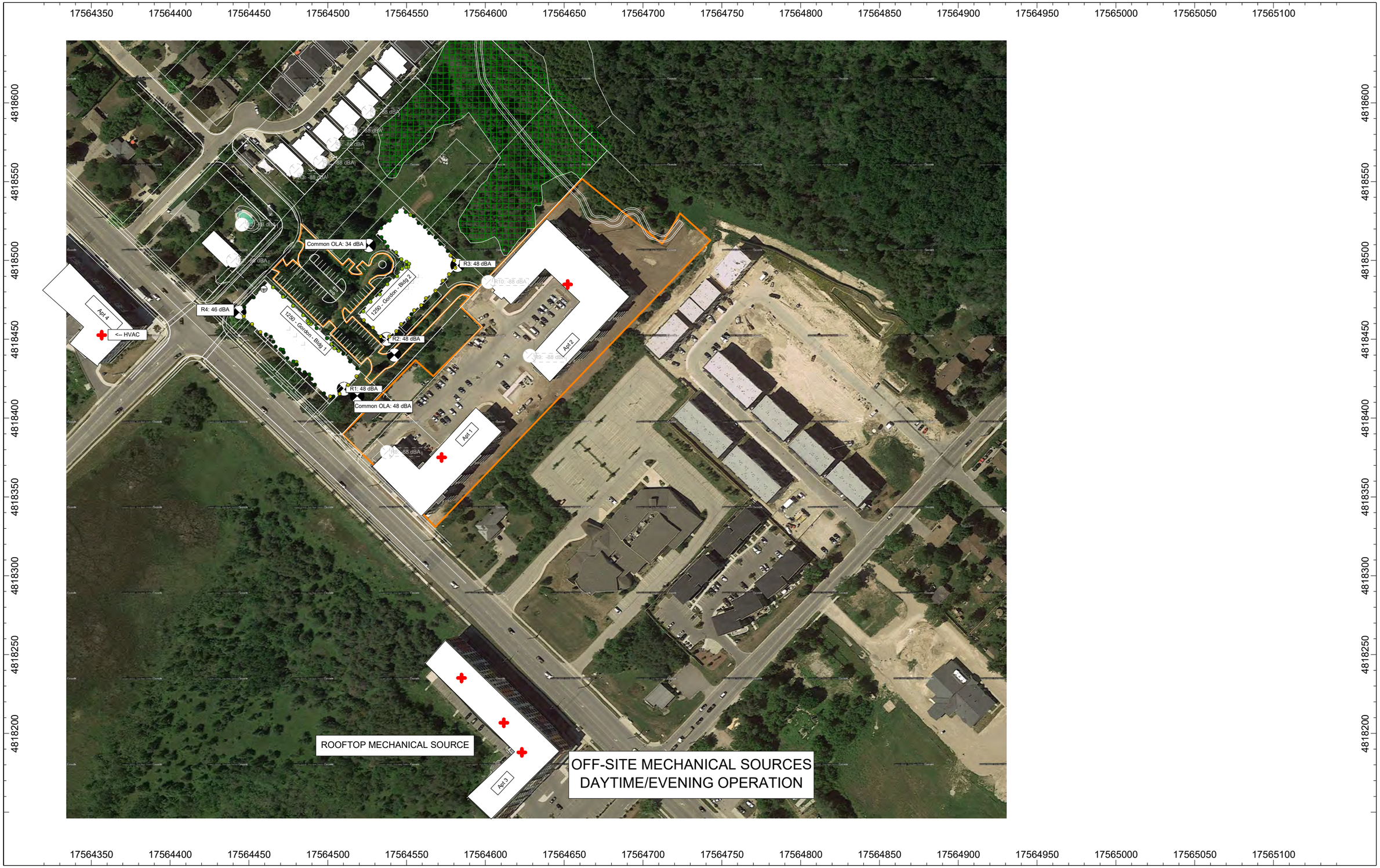

17564350
17564400
17564450
17564500
17564550
17564600
17564650
17564700
17564750
17564800
17564850
17564900
17564950
17565000
17565050
17565100
4818600
4818550
4818500
4818450
4818400
4818350
4818300
4818250
4818200
Common OLA: 34 dBA
R3: 48 dBA
R10: -88 dBA
R4: 46 dBA
1250 - Gordon - Bldg 2
1250 - Gordon - Bldg 1
R2: 48 dBA
R9: -88 dBA
R1: 48 dBA
Common OLA: 48 dBA
Apt 4
<-- HVAC
Apt 2
Apt 1
Apt 3
ROOFTOP MECHANICAL SOURCE
OFF-SITE MECHANICAL SOURCES
DAYTIME/EVENING OPERATION

FIGURE 6

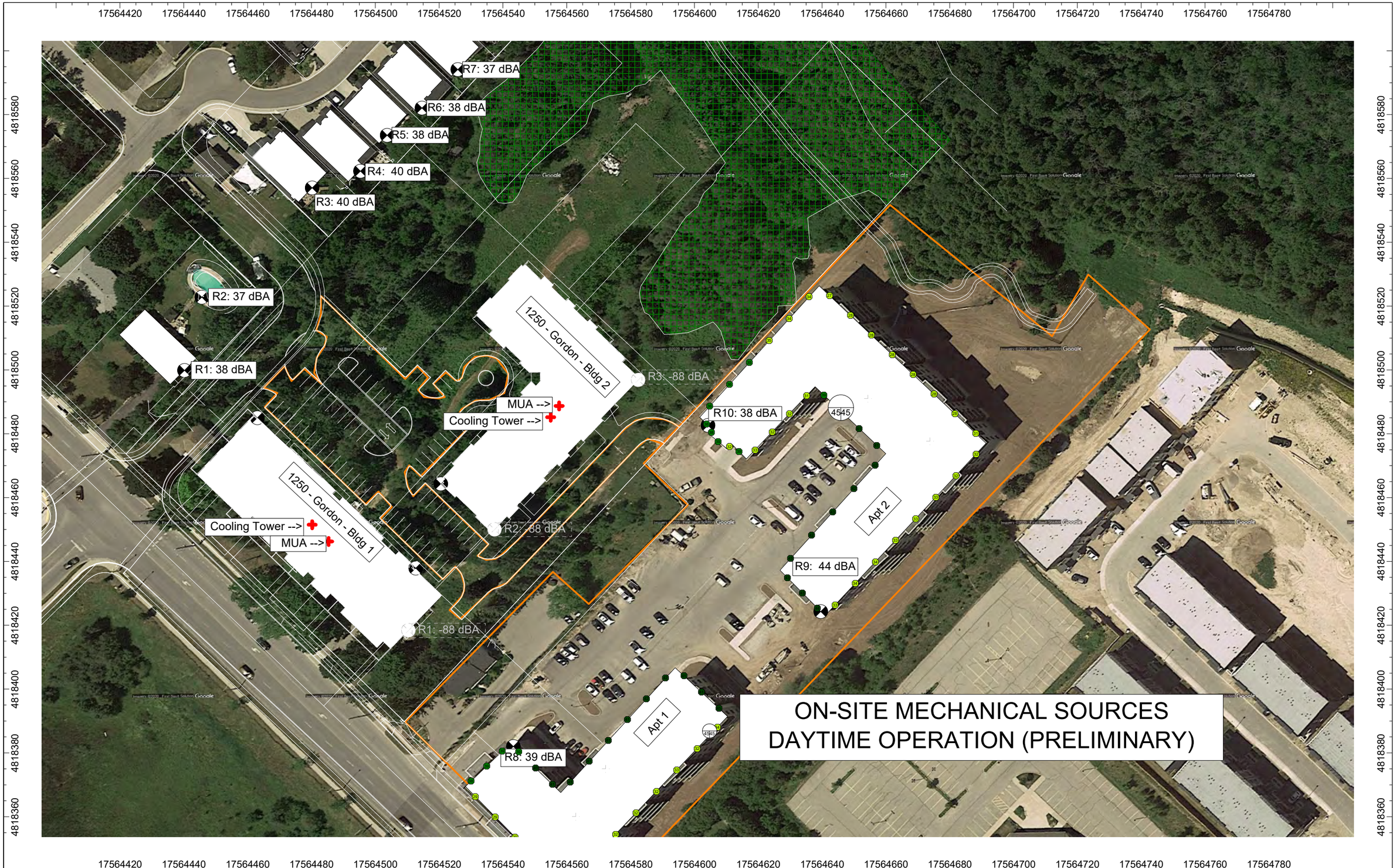

ON-SITE MECHANICAL SOURCES
DAYTIME OPERATION (PRELIMINARY)
R1: 38 dBA
R2: 37 dBA
R3: 40 dBA
R4: 40 dBA
R5: 38 dBA
R6: 38 dBA
R7: 37 dBA
R8: 39 dBA
R9: 44 dBA
R10: 38 dBA
R1: -88 dBA
R2: -88 dBA
R3: -88 dBA
1250 - Gordon - Bldg 1
1250 - Gordon - Bldg 2
Apt 1
Apt 2
MUA -->
Cooling Tower -->
Cooling Tower -->
MUA -->
17564420
17564440
17564460
17564480
17564500
17564520
17564540
17564560
17564580
17564600
17564620
17564640
17564660
17564680
17564700
17564720
17564740
17564760
17564780
4818580
4818560
4818540
4818520
4818500
4818480
4818460
4818440
4818420
4818400
4818380
4818360

FIGURE 7

APPENDIX B: SOUND LEVEL CALCULATIONS

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:02:37
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: a1_ne.te             Time Period: Day/Night 16/8 hours
Description: Location 1 - Bldg A - NE Facade

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           :   0.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  52.10 / 52.10  m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)

Road data, segment # 2: Edinburgh (day/night)
---------------------------------------------
Car traffic volume  : 12749/960   veh/TimePeriod  *
Medium truck volume :  1049/79    veh/TimePeriod  *
Heavy truck volume  :     0/0     veh/TimePeriod  *
Posted speed limit  :    50 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  11307
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  11.00
    Medium Truck % of Total Volume     :   7.60
    Heavy Truck  % of Total Volume     :   0.00
    Day (16 hrs) % of Total Volume     :  93.00
```

Data for Segment # 2: Edinburgh (day/night)

```
----------------------------------------
Angle1   Angle2           : -90.00 deg   -69.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  15.00 / 15.00  m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)
```

Results segment # 1: Gordon St (day)

```
-------------------------------------
```

Source height = 1.24 m

ROAD (0.00 + 64.35 + 0.00) = 64.35 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	72.76	0.00	-5.41	-3.01	0.00	0.00	0.00	64.35

Segment Leq : 64.35 dBA

Results segment # 2: Edinburgh (day)

```
-------------------------------------
```

Source height = 0.50 m

ROAD (0.00 + 55.22 + 0.00) = 55.22 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-69	0.00	64.55	0.00	0.00	-9.33	0.00	0.00	0.00	55.22

Segment Leq : 55.22 dBA

Total Leq All Segments: 64.85 dBA

Results segment # 1: Gordon St (night)

```
-------------------------------------
```

Source height = 1.23 m

ROAD (0.00 + 56.11 + 0.00) = 56.11 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	64.53	0.00	-5.41	-3.01	0.00	0.00	0.00	56.11

Segment Leq : 56.11 dBA

Results segment # 2: Edinburgh (night)

Source height = 0.50 m

ROAD (0.00 + 47.00 + 0.00) = 47.00 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-69	0.00	56.33	0.00	0.00	-9.33	0.00	0.00	0.00	47.00

Segment Leq : 47.00 dBA

Total Leq All Segments: 56.61 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 64.85
(NIGHT): 56.61

```
STAMSON 5.0        NORMAL REPORT        Date: 25-04-2022 11:41:12
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: a2_nw.te             Time Period: Day/Night 16/8 hours
Description: Location 2 - Bldg A - NW Facade

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40801/3071  veh/TimePeriod  *
Medium truck volume :  1553/117   veh/TimePeriod  *
Heavy truck volume  :  1015/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33828
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  25.60 / 25.60  m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)

Road data, segment # 2: Edinburgh (day/night)
---------------------------------------------
Car traffic volume  : 12749/960   veh/TimePeriod  *
Medium truck volume :  1049/79    veh/TimePeriod  *
Heavy truck volume  :     0/0     veh/TimePeriod  *
Posted speed limit  :    50 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  11307
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  11.00
    Medium Truck % of Total Volume     :   7.60
    Heavy Truck  % of Total Volume     :   0.00
    Day (16 hrs) % of Total Volume     :  93.00
```

Data for Segment # 2: Edinburgh (day/night)

```
-----------------------------------------
Angle1   Angle2           : -90.00 deg   -60.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  15.00 / 15.00  m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)
```

Results segment # 1: Gordon St (day)

```
-------------------------------------
```

Source height = 1.24 m

ROAD (0.00 + 70.44 + 0.00) = 70.44 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	72.76	0.00	-2.32	0.00	0.00	0.00	0.00	70.44

Segment Leq : 70.44 dBA

Results segment # 2: Edinburgh (day)

```
-------------------------------------
```

Source height = 0.50 m

ROAD (0.00 + 56.77 + 0.00) = 56.77 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-60	0.00	64.55	0.00	0.00	-7.78	0.00	0.00	0.00	56.77

Segment Leq : 56.77 dBA

Total Leq All Segments: 70.62 dBA

Results segment # 1: Gordon St (night)

```
-------------------------------------
```

Source height = 1.24 m

ROAD (0.00 + 62.21 + 0.00) = 62.21 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	64.53	0.00	-2.32	0.00	0.00	0.00	0.00	62.21

Segment Leq : 62.21 dBA

Results segment # 2: Edinburgh (night)

Source height = 0.50 m

ROAD (0.00 + 48.55 + 0.00) = 48.55 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-60	0.00	56.33	0.00	0.00	-7.78	0.00	0.00	0.00	48.55

Segment Leq : 48.55 dBA

Total Leq All Segments: 62.39 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 70.62
(NIGHT): 62.39

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:03:15
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: a3_se.te             Time Period: Day/Night 16/8 hours
Description: Location 3 - Bldg A - SE Facade

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   0.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  52.10 / 52.10  m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)

Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 64.35 + 0.00) = 64.35 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -90      0   0.00  72.76   0.00  -5.41  -3.01   0.00   0.00   0.00  64.35
--------------------------------------------------------------------------

Segment Leq : 64.35 dBA

Total Leq All Segments: 64.35 dBA
```

Results segment # 1: Gordon St (night)

Source height = 1.23 m

ROAD (0.00 + 56.11 + 0.00) = 56.11 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	64.53	0.00	-5.41	-3.01	0.00	0.00	0.00	56.11

Segment Leq : 56.11 dBA

Total Leq All Segments: 56.11 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 64.35
(NIGHT): 56.11

```
STAMSON 5.0        NORMAL REPORT        Date: 21-04-2022 111:41:29
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: a4_sw.te             Time Period: Day/Night 16/8 hours
Description: Loc 4 - SW Facade

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  25.60 / 26.40  m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)

Road data, segment # 2: Edinburgh (day/night)
---------------------------------------------
Car traffic volume  : 12749/960   veh/TimePeriod  *
Medium truck volume :  1049/79    veh/TimePeriod  *
Heavy truck volume  :     0/0     veh/TimePeriod  *
Posted speed limit  :    50 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  11307
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  11.00
    Medium Truck % of Total Volume     :   7.60
    Heavy Truck  % of Total Volume     :   0.00
    Day (16 hrs) % of Total Volume     :  93.00
```

Data for Segment # 2: Edinburgh (day/night)

```
----------------------------------------
Angle1   Angle2           : -90.00 deg   -10.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  92.30 / 92.30  m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)
```

Results segment # 1: Gordon St (day)

```
-------------------------------------
```

Source height = 1.24 m

ROAD (0.00 + 70.44 + 0.00) = 70.44 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	72.76	0.00	-2.32	0.00	0.00	0.00	0.00	70.44

Segment Leq : 70.44 dBA

Results segment # 2: Edinburgh (day)

```
-------------------------------------
```

Source height = 0.50 m

ROAD (0.00 + 53.14 + 0.00) = 53.14 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-10	0.00	64.55	0.00	-7.89	-3.52	0.00	0.00	0.00	53.14

Segment Leq : 53.14 dBA

Total Leq All Segments: 70.52 dBA

Results segment # 1: Gordon St (night)

```
-------------------------------------
```

Source height = 1.23 m

ROAD (0.00 + 62.07 + 0.00) = 62.07 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	64.53	0.00	-2.46	0.00	0.00	0.00	0.00	62.07

Segment Leq : 62.07 dBA

Results segment # 2: Edinburgh (night)

Source height = 0.50 m

ROAD (0.00 + 44.92 + 0.00) = 44.92 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-10	0.00	56.33	0.00	-7.89	-3.52	0.00	0.00	0.00	44.92

Segment Leq : 44.92 dBA

Total Leq All Segments: 62.15 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 70.52
(NIGHT): 62.15

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:12:50
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: amen5_w.te           Time Period: Day/Night 16/8 hours
Description: Location 5 - Bldg A - West Amenity Facade (North)


Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  20.50 / 20.50  m
Receiver height           :   1.50 / 1.50   m
Topography                :      1       (Flat/gentle slope; no barrier)

Road data, segment # 2: Edinburgh (day/night)
---------------------------------------------
Car traffic volume  : 13742/1092  veh/TimePeriod  *
Medium truck volume :   353/28    veh/TimePeriod  *
Heavy truck volume  :    28/2     veh/TimePeriod  *
Posted speed limit  :    50 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  11619
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  11.00
    Medium Truck % of Total Volume     :   2.50
    Heavy Truck  % of Total Volume     :   0.20
    Day (16 hrs) % of Total Volume     :  92.64
```

Data for Segment # 2: Edinburgh (day/night)

```
-----------------------------------------
Angle1   Angle2           : -90.00 deg   5.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  29.00 / 29.00  m
Receiver height           :   1.50 / 36.00  m
Topography                :      1       (Flat/gentle slope; no barrier)
```

Results segment # 1: Gordon St (day)

```
-------------------------------------
```

Source height = 1.24 m

ROAD (0.00 + 71.41 + 0.00) = 71.41 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	72.76	0.00	-1.36	0.00	0.00	0.00	0.00	71.41

Segment Leq : 71.41 dBA

Results segment # 2: Edinburgh (day)

```
-------------------------------------
```

Source height = 0.67 m

ROAD (0.00 + 54.32 + 0.00) = 54.32 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	5	0.66	63.21	0.00	-4.75	-4.14	0.00	0.00	0.00	54.32

Segment Leq : 54.32 dBA

Total Leq All Segments: 71.49 dBA

Results segment # 1: Gordon St (night)

```
-------------------------------------
```

Source height = 1.23 m

ROAD (0.00 + 63.17 + 0.00) = 63.17 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	64.53	0.00	-1.36	0.00	0.00	0.00	0.00	63.17

Segment Leq : 63.17 dBA

Results segment # 2: Edinburgh (night)

Source height = 0.65 m

ROAD (0.00 + 49.55 + 0.00) = 49.55 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	5	0.00	55.19	0.00	-2.86	-2.78	0.00	0.00	0.00	49.55

Segment Leq : 49.55 dBA

Total Leq All Segments: 63.35 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 71.49
(NIGHT): 63.35

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:13:07
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: a_swam6.te           Time Period: Day/Night 16/8 hours
Description: Location 6 - Bldg A - West Amenity Facade (South)

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  20.50 / 22.00  m
Receiver height           :   1.50 / 1.50   m
Topography                :      1       (Flat/gentle slope; no barrier)

Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 71.41 + 0.00) = 71.41 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -90     90   0.00  72.76   0.00  -1.36   0.00   0.00   0.00   0.00  71.41
--------------------------------------------------------------------------

Segment Leq : 71.41 dBA

Total Leq All Segments: 71.41 dBA
```

Results segment # 1: Gordon St (night)

Source height = 1.23 m

ROAD (0.00 + 62.87 + 0.00) = 62.87 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	64.53	0.00	-1.66	0.00	0.00	0.00	0.00	62.87

Segment Leq : 62.87 dBA

Total Leq All Segments: 62.87 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 71.41
(NIGHT): 62.87

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:13:39
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b7_ne.te             Time Period: Day/Night 16/8 hours
Description: Location 7 - Bldg B - NE Facade

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           :   0.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  : 143.70 / 143.70 m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)

Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 59.94 + 0.00) = 59.94 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
     0     90   0.00  72.76   0.00  -9.81  -3.01   0.00   0.00   0.00  59.94
--------------------------------------------------------------------------

Segment Leq : 59.94 dBA

Total Leq All Segments: 59.94 dBA
```

Results segment # 1: Gordon St (night)

Source height = 1.23 m

ROAD (0.00 + 51.71 + 0.00) = 51.71 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	64.53	0.00	-9.81	-3.01	0.00	0.00	0.00	51.71

Segment Leq : 51.71 dBA

Total Leq All Segments: 51.71 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.94
(NIGHT): 51.71

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:22:20
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b8_nw2.te            Time Period: Day/Night 16/8 hours
Description: Location 8 - NW Facade (N-S Leg)

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  : 122.60 / 122.60 m
Receiver height           :  30.00 / 30.00  m
Topography                :      2       (Flat/gentle slope; with barrier)
Barrier angle1            : -30.00 deg   Angle2 : 20.00 deg
Barrier height            :  31.50 m
Barrier receiver distance :  82.00 / 82.00  m
Source elevation          :   0.00 m
Receiver elevation        :   0.00 m
Barrier elevation         :   0.00 m
```

Results segment # 1: Gordon St (day)

Source height = 1.24 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.24	30.00	10.76	10.76

ROAD (58.87 + 38.08 + 59.54) = 62.24 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-30	0.00	72.76	0.00	-9.12	-4.77	0.00	0.00	0.00	58.87
-30	20	0.00	72.76	0.00	-9.12	-5.56	0.00	0.00	-20.00	38.08
20	90	0.00	72.76	0.00	-9.12	-4.10	0.00	0.00	0.00	59.54

Segment Leq : 62.24 dBA

Total Leq All Segments: 62.24 dBA

Results segment # 1: Gordon St (night)

Source height = 1.23 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.23	30.00	10.76	10.76

ROAD (50.63 + 29.84 + 51.30) = 54.01 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-30	0.00	64.53	0.00	-9.12	-4.77	0.00	0.00	0.00	50.63
-30	20	0.00	64.53	0.00	-9.12	-5.56	0.00	0.00	-20.00	29.84
20	90	0.00	64.53	0.00	-9.12	-4.10	0.00	0.00	0.00	51.30

Segment Leq : 54.01 dBA

Total Leq All Segments: 54.01 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 62.24
(NIGHT): 54.01

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:15:24
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b9_se.te             Time Period: Day/Night 16/8 hours
Description: Location 9 - Bldg B - SE Facade

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 39841/2999  veh/TimePeriod  *
Medium truck volume :  1516/114   veh/TimePeriod  *
Heavy truck volume  :   991/75    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  12.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   0.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  : 143.70 / 143.70 m
Receiver height           :  30.00 / 30.00  m
Topography                :      1       (Flat/gentle slope; no barrier)
Elevation                 :   0.00 m

Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 59.83 + 0.00) = 59.83 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -90      0   0.00  72.66   0.00  -9.81  -3.01   0.00   0.00   0.00  59.83
--------------------------------------------------------------------------

Segment Leq : 59.83 dBA

Total Leq All Segments: 59.83 dBA
```

Results segment # 1: Gordon St (night)

Source height = 1.24 m

ROAD (0.00 + 51.62 + 0.00) = 51.62 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	64.44	0.00	-9.81	-3.01	0.00	0.00	0.00	51.62

Segment Leq : 51.62 dBA

Total Leq All Segments: 51.62 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.83
(NIGHT): 51.62

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:15:46
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b10_sw.te            Time Period: Day/Night 16/8 hours
Description: Location 10 - Bldg B - SW Facade

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 35419/2666  veh/TimePeriod  *
Medium truck volume :  1348/101   veh/TimePeriod  *
Heavy truck volume  :   881/66    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   1.50
    Number of Years of Growth          :  12.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  76.66 / 76.66  m
Receiver height           :  30.00 / 30.00  m
Topography                :      2       (Flat/gentle slope; with barrier)
Barrier angle1            :  -5.00 deg   Angle2 : 70.00 deg
Barrier height            :  31.50 m
Barrier receiver distance :  38.50 / 38.50  m
Source elevation          :   0.00 m
Receiver elevation        :   0.00 m
Barrier elevation         :   0.00 m
```

Results segment # 1: Gordon St (day)

Source height = 1.24 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.24	30.00	15.55	15.55

ROAD (61.80 + 41.26 + 55.52) = 62.75 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-5	0.00	72.15	0.00	-7.08	-3.26	0.00	0.00	0.00	61.80
-5	70	0.00	72.15	0.00	-7.08	-3.80	0.00	0.00	-20.00	41.26
70	90	0.00	72.15	0.00	-7.08	-9.54	0.00	0.00	0.00	55.52

Segment Leq : 62.75 dBA

Total Leq All Segments: 62.75 dBA

Results segment # 1: Gordon St (night)

Source height = 1.24 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.24	30.00	15.55	15.55

ROAD (53.57 + 33.02 + 47.28) = 54.52 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-5	0.00	63.91	0.00	-7.08	-3.26	0.00	0.00	0.00	53.57
-5	70	0.00	63.91	0.00	-7.08	-3.80	0.00	0.00	-20.00	33.02
70	90	0.00	63.91	0.00	-7.08	-9.54	0.00	0.00	0.00	47.28

Segment Leq : 54.52 dBA

Total Leq All Segments: 54.52 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 62.75
(NIGHT): 54.52

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:16:37
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b_11nw.te            Time Period: Day/Night 16/8 hours
Description: Location 11 - Bldg B - NW Facade (South E-W Leg)

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  76.66 / 76.66  m
Receiver height           :  30.00 / 30.00  m
Topography                :      2       (Flat/gentle slope; with barrier)
Barrier angle1            : -50.00 deg   Angle2 : 70.00 deg
Barrier height            :  31.50 m
Barrier receiver distance :  38.50 / 38.50  m
Source elevation          :   0.00 m
Receiver elevation        :   0.00 m
Barrier elevation         :   0.00 m
```

Results segment # 1: Gordon St (day)

Source height = 1.24 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.24	30.00	15.55	15.55

ROAD (59.15 + 43.92 + 56.14) = 60.99 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-50	0.00	72.76	0.00	-7.08	-6.53	0.00	0.00	0.00	59.15
-50	70	0.00	72.76	0.00	-7.08	-1.76	0.00	0.00	-20.00	43.92
70	90	0.00	72.76	0.00	-7.08	-9.54	0.00	0.00	0.00	56.14

Segment Leq : 60.99 dBA

Total Leq All Segments: 60.99 dBA

Results segment # 1: Gordon St (night)

Source height = 1.23 m

Barrier height for grazing incidence

Source Height (m)	Receiver Height (m)	Barrier Height (m)	Elevation of Barrier Top (m)
1.23	30.00	15.55	15.55

ROAD (50.91 + 35.68 + 47.90) = 52.76 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	-50	0.00	64.53	0.00	-7.08	-6.53	0.00	0.00	0.00	50.91
-50	70	0.00	64.53	0.00	-7.08	-1.76	0.00	0.00	-20.00	35.68
70	90	0.00	64.53	0.00	-7.08	-9.54	0.00	0.00	0.00	47.90

Segment Leq : 52.76 dBA

Total Leq All Segments: 52.76 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 60.99
(NIGHT): 52.76

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:19:58
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: middle.te            Time Period: Day/Night 16/8 hours
Description: Location 12 - South OLA - Middle of OLA - No Barr

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -30.00 deg   -10.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  70.00 / 70.00  m
Receiver height           :   1.50 / 1.50   m
Topography                :      1       (Flat/gentle slope; no barrier)

Road data, segment # 2: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00
```

```
Data for Segment # 2: Gordon St (day/night)
--------------------------------------------
Angle1   Angle2           : -10.00 deg   14.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  70.00 / 70.00  m
Receiver height           :   1.50 / 1.50   m
Topography                :      3       (Elevated; no barrier)
Elevation                 :   4.75 m

Road data, segment # 3: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 3: Gordon St (day/night)
--------------------------------------------
Angle1   Angle2           :  14.00 deg   25.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  70.00 / 70.00  m
Receiver height           :   1.50 / 1.50   m
Topography                :      3       (Elevated; no barrier)
Elevation                 :   4.75 m

Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 56.53 + 0.00) = 56.53 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -30    -10   0.00  72.76   0.00  -6.69  -9.54   0.00   0.00   0.00  56.53
--------------------------------------------------------------------------

Segment Leq : 56.53 dBA
```

Results segment # 2: Gordon St (day)

Source height = 1.24 m

ROAD (0.00 + 53.79 + 0.00) = 53.79 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-10	14	0.53	72.76	0.00	-10.20	-8.77	0.00	0.00	0.00	53.79

Segment Leq : 53.79 dBA

Results segment # 3: Gordon St (day)

Source height = 1.24 m

ROAD (0.00 + 50.28 + 0.00) = 50.28 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
14	25	0.53	72.76	0.00	-10.20	-12.28	0.00	0.00	0.00	50.28

Segment Leq : 50.28 dBA

Total Leq All Segments: 59.01 dBA

Results segment # 1: Gordon St (night)

Source height = 1.23 m

ROAD (0.00 + 48.30 + 0.00) = 48.30 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-30	-10	0.00	64.53	0.00	-6.69	-9.54	0.00	0.00	0.00	48.30

Segment Leq : 48.30 dBA

Results segment # 2: Gordon St (night)

Source height = 1.23 m

ROAD (0.00 + 45.56 + 0.00) = 45.56 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-10	14	0.53	64.53	0.00	-10.21	-8.77	0.00	0.00	0.00	45.56

Segment Leq : 45.56 dBA

Results segment # 3: Gordon St (night)

Source height = 1.23 m

ROAD (0.00 + 42.05 + 0.00) = 42.05 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
14	25	0.53	64.53	0.00	-10.21	-12.28	0.00	0.00	0.00	42.05

Segment Leq : 42.05 dBA

Total Leq All Segments: 50.78 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.01
(NIGHT): 50.78

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:20:24
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: middle.te            Time Period: Day/Night 16/8 hours
Description: Location 12 - South OLA - Middle of OLA - Barrier

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -30.00 deg   -10.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  70.00 / 70.00  m
Receiver height           :   1.50 / 1.50   m
Topography                :      1       (Flat/gentle slope; no barrier)

Road data, segment # 2: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00
```

```
Data for Segment # 2: Gordon St (day/night)
--------------------------------------------
Angle1   Angle2           : -10.00 deg   14.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  70.00 m
Receiver height           :   1.50 m
Topography                :      4       (Elevated; with barrier)
Barrier angle1            : -10.00 deg   Angle2 : 14.00 deg
Barrier height            :   0.00 m
Elevation                 :   4.75 m
Barrier receiver distance :  39.00 m
Source elevation          : 336.00 m
Receiver elevation        : 340.75 m
Barrier elevation         : 342.00 m

Road data, segment # 3: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 3: Gordon St (day/night)
--------------------------------------------
Angle1   Angle2           :  14.00 deg   25.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  70.00 m
Receiver height           :   1.50 m
Topography                :      4       (Elevated; with barrier)
Barrier angle1            :  14.00 deg   Angle2 : 25.00 deg
Barrier height            :   0.00 m
Elevation                 :   4.75 m
Barrier receiver distance :  39.00 m
Source elevation          : 336.00 m
Receiver elevation        : 340.75 m
Barrier elevation         : 342.00 m
```

```
Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 56.53 + 0.00) = 56.53 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -30    -10   0.00  72.76   0.00  -6.69  -9.54   0.00   0.00   0.00  56.53
--------------------------------------------------------------------------

Segment Leq : 56.53 dBA

Results segment # 2: Gordon St (day)
------------------------------------

Source height = 1.24 m

Barrier height for grazing incidence
------------------------------------
Source      ! Receiver    ! Barrier     ! Elevation of
Height  (m) ! Height  (m) ! Height  (m) ! Barrier Top  (m)
------------+-------------+-------------+--------------
       1.24 !        1.50 !       -2.54 !       339.46

ROAD (0.00 + 43.08 + 0.00) = 43.08 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -10     14   0.53  72.76   0.00 -10.20  -8.77   0.00   0.00 -10.72  43.08
--------------------------------------------------------------------------

Segment Leq : 43.08 dBA

Results segment # 3: Gordon St (day)
------------------------------------

Source height = 1.24 m

Barrier height for grazing incidence
------------------------------------
Source      ! Receiver    ! Barrier     ! Elevation of
Height  (m) ! Height  (m) ! Height  (m) ! Barrier Top  (m)
------------+-------------+-------------+--------------
       1.24 !        1.50 !       -2.54 !       339.46

ROAD (0.00 + 39.75 + 0.00) = 39.75 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
    14     25   0.53  72.76   0.00 -10.20 -12.28   0.00   0.00 -10.53  39.75
--------------------------------------------------------------------------

Segment Leq : 39.75 dBA

Total Leq All Segments: 56.81 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 56.81
```

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:37:02
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: west.te              Time Period: Day/Night 16/8 hours
Description: Location 12B - OLA - Western portion near walkway – With embankment

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -30.00 deg   -10.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  :  38.00 m
Receiver height           :   1.50 m
Topography                :      3       (Elevated; no barrier)
Elevation                 :   4.75 m
Reference angle           :   0.00



Road data, segment # 2: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00
```

```
Data for Segment # 2: Gordon St (day/night)
--------------------------------------------
Angle1   Angle2           : -10.00 deg   14.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  38.00 / 38.00  m
Receiver height           :   1.50 / 1.50   m
Topography                :      4       (Elevated; with barrier)
Barrier angle1            : -10.00 deg   Angle2 : 14.00 deg
Barrier height            :   0.00 m
Elevation                 :   4.75 m
Barrier receiver distance :   8.00 / 8.00   m
Source elevation          : 336.00 m
Receiver elevation        : 340.75 m
Barrier elevation         : 342.00 m

Road data, segment # 3: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 3: Gordon St (day/night)
--------------------------------------------
Angle1   Angle2           :  14.00 deg   25.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0 / 0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  :  38.00 / 38.00  m
Receiver height           :   1.50 / 1.50   m
Topography                :      4       (Elevated; with barrier)
Barrier angle1            :  14.00 deg   Angle2 : 25.00 deg
Barrier height            :   0.00 m
Elevation                 :   4.75 m
Barrier receiver distance :   8.00 / 8.00   m
Source elevation          : 336.00 m
Receiver elevation        : 340.75 m
Barrier elevation         : 342.00 m
```

```
Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 59.19 + 0.00) = 59.19 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -30    -10   0.00  72.76   0.00  -4.04  -9.54   0.00   0.00   0.00  59.19
--------------------------------------------------------------------------

Segment Leq : 59.19 dBA

Results segment # 2: Gordon St (day)
------------------------------------

Source height = 1.24 m

Barrier height for grazing incidence
------------------------------------
Source      ! Receiver    ! Barrier     ! Elevation of
Height  (m) ! Height  (m) ! Height  (m) ! Barrier Top  (m)
------------+-------------+-------------+--------------
       1.24 !        1.50 !       -0.81 !       341.19

ROAD (0.00 + 50.64 + 0.00) = 50.64 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
   -10     14   0.53  72.76   0.00  -6.16  -8.77   0.00   0.00  -7.20  50.64
--------------------------------------------------------------------------

Segment Leq : 50.64 dBA

Results segment # 3: Gordon St (day)
------------------------------------

Source height = 1.24 m

Barrier height for grazing incidence
------------------------------------
Source      ! Receiver    ! Barrier     ! Elevation of
Height  (m) ! Height  (m) ! Height  (m) ! Barrier Top  (m)
------------+-------------+-------------+--------------
       1.24 !        1.50 !       -0.81 !       341.19

ROAD (0.00 + 47.22 + 0.00) = 47.22 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------
    14     25   0.53  72.76   0.00  -6.16 -12.28   0.00   0.00  -7.10  47.22
--------------------------------------------------------------------------

Segment Leq : 47.22 dBA

Total Leq All Segments: 59.99 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.99
```

```
STAMSON 5.0        NORMAL REPORT        Date: 18-04-2022 34:23:23
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: ola_b2.te            Time Period: Day/Night 16/8 hours
Description: Location 13 - NE OLA

Road data, segment # 1: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00

Data for Segment # 1: Gordon St (day/night)
-------------------------------------------
Angle1   Angle2           : -40.00 deg   25.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      2       (Reflective ground surface)
Receiver source distance  : 111.00 m
Receiver height           :   1.50 m
Topography                :      2       (Flat/gentle slope; with barrier)
Barrier angle1            : -40.00 deg   Angle2 : 25.00 deg
Barrier height            :  31.50 m
Barrier receiver distance :  71.00 m
Source elevation          :   0.00 m
Receiver elevation        :   0.00 m
Barrier elevation         :   0.00 m

Road data, segment # 2: Gordon St (day/night)
---------------------------------------------
Car traffic volume  : 40837/3074  veh/TimePeriod  *
Medium truck volume :  1554/117   veh/TimePeriod  *
Heavy truck volume  :  1016/76    veh/TimePeriod  *
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

    24 hr Traffic Volume (AADT or SADT):  33858
    Percentage of Annual Growth        :   2.50
    Number of Years of Growth          :  13.00
    Medium Truck % of Total Volume     :   3.58
    Heavy Truck  % of Total Volume     :   2.34
    Day (16 hrs) % of Total Volume     :  93.00
```

```
Data for Segment # 2: Gordon St (day/night)
--------------------------------------------
Angle1   Angle2           :  25.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      1 / 1
House density             :     80 %
Surface                   :      2       (Reflective ground surface)
Receiver source distance  : 111.00 / 111.00 m
Receiver height           :   1.50 / 1.50   m
Topography                :      1       (Flat/gentle slope; no barrier)

Results segment # 1: Gordon St (day)
------------------------------------

Source height = 1.24 m

Barrier height for grazing incidence
------------------------------------
Source      ! Receiver    ! Barrier     ! Elevation of
Height  (m) ! Height  (m) ! Height  (m) ! Barrier Top  (m)
------------+-------------+-------------+--------------
       1.24 !        1.50 !        1.33 !         1.33

ROAD (0.00 + 39.65 + 0.00) = 39.65 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------------
   -40     25   0.00  72.76   0.00  -8.69  -4.42   0.00   0.00 -20.00  39.65
--------------------------------------------------------------------------------

Segment Leq : 39.65 dBA

Results segment # 2: Gordon St (day)
------------------------------------

Source height = 1.24 m

ROAD (0.00 + 54.00 + 0.00) = 54.00 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
--------------------------------------------------------------------------------
    25     90   0.00  72.76   0.00  -8.69  -4.42   0.00  -5.64   0.00  54.00
--------------------------------------------------------------------------------

Segment Leq : 54.00 dBA

Total Leq All Segments: 54.16 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 54.16
```

NATIONAL RESEARCH COUNCIL BPN-56 INTERNAL SOUND LEVEL CALCULATIONS

Building 1 - Internal Amenity Area (Small room)

RESULT SUMMARY
Outside sound level is 74 db(A) from angle 0 to 90 degrees
Room absorption category is intermediate

COMPONENTS:	STC	From Table 4 (% floor area)	From Table 5 (spectrum)	Energy %
1. Window, sealed thin doub	34	-4dB (30%)	+4dB	95%
2. Exterior wall	53	-1dB (64%)	+7dB	5%

Noise reduction (adjusted 0db for source angle) is 34dB
Indoor sound level is 40 dB(A) if only this surface transmits sound

Building 1 - Internal Amenity Area (Large room)

RESULT SUMMARY
Outside sound level is 74 db(A) from angle 0 to 90 degrees
Room absorption category is intermediate

COMPONENTS:	STC	From Table 4 (% floor area)	From Table 5 (spectrum)	Energy %
1. Window, sealed thin doub	34	-8dB (13%)	+4dB	90%
2. Exterior wall	53	-2dB (55%)	+7dB	10%

Noise reduction (adjusted 0db for source angle) is 38dB
Indoor sound level is 37 dB(A) if only this surface transmits sound

Building 1 – Daytime - Livingrooms – West Façade (All Floors) w/sliding doors

RESULT SUMMARY
Outside sound level is 74 db(A) from angle 0 to 90 degrees
Room absorption category is intermediate

COMPONENTS:	STC	From Table 4 (% floor area)	From Table 5 (spectrum)	Energy %
1. Sliding Door	doub 32	-3dB (42%)	+2dB	37%
2. Window, sealed thin	doub 34	-1dB (70%)	+4dB	62%
3. Exterior wall	55	-6dB (20%)	+7dB	0%

Noise reduction (adjusted 0db for source angle) is 29dB
Indoor sound level is 45 dB(A) if only this surface transmits sound

Building 1 – Daytime - Bedrooms – West Façade (All Floors)

RESULT SUMMARY
Outside sound level is 74 db(A) from angle 0 to 90 degrees
Room absorption category is high absorption

COMPONENTS:	STC	From Table 4 (% floor area)	From Table 5 (spectrum)	Energy %
1. Window, openable thin	doub 31	-11dB (10%)	+2dB	9%
2. Window, sealed thin	doub 34	+0dB (135%)	+4dB	91%

Noise reduction (adjusted 0db for source angle) is 29dB
Indoor sound level is 45 dB(A) if only this surface transmits sound

Building 1 – Nighttime - Bedrooms – West Façade (All Floors)

RESULT SUMMARY
Outside sound level is 65 db(A) from angle 0 to 90 degrees
Room absorption category is high absorption

COMPONENTS:	STC	From Table 4 (% floor area)	From Table 5 (spectrum)	Energy %
1. Window, openable thin	doub 31	-11dB (10%)	+2dB	9%
2. Window, sealed thin	doub 34	+0dB (135%)	+4dB	91%

Noise reduction (adjusted 0db for source angle) is 29dB
Indoor sound level is 36 dB(A) if only this surface transmits sound

TRAFFIC DATA

HOURLY BREAKDOWN - CARS, MEDIUM, HEAVY TRUCKS - GORDON STREET

Project: **Tricar - 1250 Gordon St**
Date: **May 29, 2019**

Time	Cars Trailer Cars	2 Axle Long Cars	CARS	Buses Med	2 Axle 6 Tire Med	3 Axle Single Med	4 Axle Single Med	MEDIUM	<5 Axle Doubl Hvy	5 Axle Doubl Hvy	>6 Axle Doubl Hvy	>6 Axl Multi Hvy	6 Axle Multi Hvy	>6 Axle Multi Hvy	HEAVY	Not Class	Total	Yr 2019	Yr 2022	PERCENTAGE Cars	Med	Hvy	Yr 2022 Cars	Med	Hvy
0000-0100	195	16	**211**	16	3	0	0	**19**	0	0	0	0	0	0	**0**	0		230	248	91.7%	8.3%	0.0%	227	20	0
0100-0200	99	5	**104**	4	1	1	1	**7**	0	0	0	0	0	0	**0**	0		111	120	93.7%	6.3%	0.0%	112	8	0
0200-0300	61	12	**73**	0	0	0	0	**0**	0	0	0	0	0	0	**0**	0		73	79	100.0%	0.0%	0.0%	79	0	0
0300-0400	32	7	**39**	0	0	0	0	**0**	0	0	0	0	0	0	**0**	0		39	42	100.0%	0.0%	0.0%	42	0	0
0400-0500	80	14	**94**	4	2	0	0	**6**	0	0	0	0	0	0	**0**	0		100	108	94.0%	6.0%	0.0%	101	6	0
0500-0600	263	46	**309**	10	4	0	2	**16**	0	0	0	0	0	0	**0**	0		325	350	95.1%	4.9%	0.0%	333	17	0
0600-0700	651	118	**769**	20	16	2	3	**41**	2	0	0	0	0	2	**4**	5		819	882	94.5%	5.0%	0.5%	833	44	4
0700-0800	1,147	144	**1,291**	26	42	7	6	**81**	8	4	0	1	0	2	**15**	18		**1,405**	**1,513**	93.1%	5.8%	1.1%	**1408**	**88**	**16**
0800-0900	1,823	182	**2,005**	35	28	7	27	**97**	22	1	0	0	0	2	**25**	40		2,167	2,334	94.3%	4.6%	1.2%	2200	106	27
0900-1000	1,362	174	**1,536**	21	38	12	14	**85**	14	2	0	0	0	2	**18**	53		1,692	1,822	93.7%	5.2%	1.1%	1708	94	20
1000-1100	1,240	164	**1,404**	17	53	8	14	**92**	9	2	1	0	0	2	**14**	44		1,554	1,673	93.0%	6.1%	0.9%	1556	102	16
1100-1200	1,459	184	**1,643**	22	26	7	13	**68**	12	3	1	0	0	0	**16**	25		1,752	1,887	95.1%	3.9%	0.9%	1795	74	17
1200-1300	1,209	151	**1,360**	15	25	9	9	**58**	10	4	0	0	0	4	**18**	19		1,455	1,567	94.7%	4.0%	1.3%	1484	63	20
1300-1400	1,481	171	**1,652**	23	31	4	13	**71**	3	3	0	0	0	1	**7**	30		1,760	1,895	95.5%	4.1%	0.4%	1810	78	8
1400-1500	1,480	182	**1,662**	18	39	6	13	**76**	14	4	1	0	0	2	**21**	36		1,795	1,933	94.5%	4.3%	1.2%	1826	84	23
1500-1600	1,798	205	**2,003**	32	43	5	22	**102**	16	3	1	0	0	3	**23**	40		2,168	2,335	94.1%	4.8%	1.1%	2198	112	25
1600-1700	2,070	210	**2,280**	23	26	10	31	**90**	19	1	1	0	0	3	**24**	45		2,439	2,627	95.2%	3.8%	1.0%	2501	99	26
1700-1800	2,407	183	**2,590**	16	25	8	25	**74**	11	0	0	0	0	0	**11**	41		2,716	2,925	96.8%	2.8%	0.4%	2832	81	12
1800-1900	2,115	183	**2,298**	13	19	3	20	**55**	10	3	0	0	0	1	**14**	39		2,406	2,591	97.1%	2.3%	0.6%	2515	60	15
1900-2000	1,525	156	**1,681**	15	11	4	17	**47**	10	1	0	0	0	0	**11**	22		1,761	1,896	96.7%	2.7%	0.6%	1833	51	12
2000-2100	1,448	115	**1,563**	16	10	2	11	**39**	9	0	0	0	0	1	**10**	18		1,630	1,755	97.0%	2.4%	0.6%	1702	42	11
2100-2200	1,058	65	**1,123**	17	6	0	4	**27**	3	0	0	0	0	0	**3**	7		1,160	1,249	97.4%	2.3%	0.3%	1217	29	3
2200-2300	618	57	**675**	19	2	0	6	**27**	2	1	0	0	0	0	**3**	6		**694**	**747**	95.7%	3.8%	0.4%	**716**	**29**	**3**
2300-0000	403	46	**449**	17	5	0	4	**26**	3	1	0	0	0	0	**4**	7		454	489	93.7%	5.4%	0.8%	458	27	4

HOURLY BREAKDOWN - CARS, MEDIUM, HEAVY TRUCKS

Project: **TriGor - Gordon St**
Date: **May 30 2019**

Time	Cars Trailer Cars	2 Axle Long Cars	Buses Med	2 Axle 6 Tire Med	3 Axle Single Med	4 Axle Single Med	<5 Axle Doubl Hvy	5 Axle Doubl Hvy	>6 A Do
12:00 AM	60	5	6	0	0	0	0	0	
12:15	62	0	5	1	0	0	0	0	
12:30	39	2	4	2	0	0	0	0	
12:45	27	0	0	0	0	0	0	0	
1:00	36	1	1	0	0	0	0	0	
1:15	20	3	2	0	0	0	0	0	
1:30	17	2	1	0	0	0	0	0	
1:45	12	1	1	0	0	0	0	0	
2:00	20	2	0	0	0	0	0	0	
2:15	21	1	0	0	0	0	0	0	
2:30	9	1	0	0	0	0	0	0	
2:45	10	3	0	0	0	0	0	0	
3:00	10	2	0	0	0	0	0	0	
3:15	9	0	0	1	0	0	0	0	
3:30	7	1	0	0	0	0	1	0	
3:45	13	2	0	0	0	0	0	0	
4:00	17	2	0	0	0	0	0	0	
4:15	18	0	2	0	0	0	0	0	
4:30	21	4	0	2	0	0	0	0	
4:45	32	2	1	0	0	0	0	0	
5:00	39	9	2	0	0	0	0	0	
5:15	46	8	1	0	0	0	0	0	
5:30	78	11	3	4	0	0	0	0	
5:45	89	21	4	1	1	1	0	1	
6:00	126	16	6	1	0	2	0	0	
6:15	127	27	5	2	0	1	1	0	
6:30	180	36	6	1	1	2	0	0	
6:45	199	25	3	2	1	0	0	0	
7:00	189	35	5	2	0	3	1	1	
7:15	261	38	8	7	1	0	4	1	
7:30	350	46	6	8	3	3	4	0	
7:45	399	37	8	5	4	3	4	0	
8:00	372	41	9	9	0	5	5	0	
8:15	391	58	8	5	2	8	3	0	
8:30	494	49	18	7	1	3	4	1	
8:45	480	51	5	6	5	10	2	0	
9:00	405	42	6	11	3	0	4	1	

12:30	407	51	5	9	1	4	7	1
12:45	414	55	3	8	1	4	1	0
1:00	413	62	5	8	1	4	4	0
1:15	371	52	6	8	1	5	5	0
1:30	401	46	5	10	2	7	2	3
1:45	367	49	4	10	0	7	3	0
2:00	423	48	6	6	2	2	4	0
2:15	402	45	4	12	0	1	6	1
2:30	427	57	6	8	1	6	3	0
2:45	422	50	4	11	1	3	0	2
3:00	445	67	7	12	0	5	4	0
3:15	448	47	11	5	0	2	4	0
3:30	449	64	8	11	1	7	5	0
3:45	497	54	10	9	1	9	10	0
4:00	513	43	7	9	1	10	3	0
4:15	498	52	4	10	1	4	4	0
4:30	567	67	0	4	2	4	5	1
4:45	607	60	2	6	0	4	3	0
5:00	606	50	2	9	0	11	7	0
5:15	634	68	4	4	1	3	5	0
5:30	590	54	1	7	1	7	7	0
5:45	592	61	4	2	1	1	8	0
6:00	547	58	4	4	1	5	3	0
6:15	499	50	2	3	3	4	2	0
6:30	500	39	4	4	2	7	3	1
6:45	486	48	4	3	0	6	5	0
7:00	419	50	3	4	1	4	1	0
7:15	423	41	4	6	0	1	2	0
7:30	378	39	3	2	0	2	2	0
7:45	368	41	2	5	0	3	2	0
8:00	403	31	4	2	0	3	0	0
8:15	366	43	4	7	0	4	3	0
8:30	328	31	3	2	0	4	3	0
8:45	360	31	4	2	0	3	0	0
9:00	282	25	4	3	0	5	3	0
9:15	270	30	4	4	1	2	1	0
9:30	266	19	4	1	0	1	0	0
9:45	203	18	3	0	0	0	0	0
10:00	194	9	3	1	0	1	1	0
10:15	149	15	4	1	0	1	0	0
10:30	146	11	6	0	1	3	0	1
10:45	119	8	4	0	0	0	0	0
11:00	113	10	5	0	0	0	1	0
11:15	128	8	4	1	0	1	0	0
11:30	93	5	1	1	0	0	0	1
11:45	170	11	3	1	0	2	0	0

HOURLY BREAKDOWN - CARS, MEDIUM, HEAVY TRUCKS

Project: **TriGor - Gordon St**
Date: **May 29, 2019**

Time	Cars Trailer Cars	2 Axle Long Cars	Buses Med	2 Axle 6 Tire Med	3 Axle Single Med	4 Axle Single Med	<5 Axle Doubl Hvy	5 Axle Doubl Hvy	>6 Axle Doubl Hvy	>6 Axl Multi Hvy	6 Axle Multi Hvy	>(
12:00 AM	65	6	6	1	0	0	0	0	0	0	0	
12:15	52	3	5	0	0	0	0	0	0	0	0	
12:30	42	4	4	1	0	0	0	0	0	0	0	
12:45	36	3	1	1	0	0	0	0	0	0	0	
1:00	37	1	0	1	1	1	0	0	0	0	0	
1:15	25	2	2	0	0	0	0	0	0	0	0	
1:30	24	1	1	0	0	0	0	0	0	0	0	
1:45	13	1	1	0	0	0	0	0	0	0	0	
2:00	11	1	0	0	0	0	0	0	0	0	0	
2:15	21	4	0	0	0	0	0	0	0	0	0	
2:30	12	3	0	0	0	0	0	0	0	0	0	
2:45	17	4	0	0	0	0	0	0	0	0	0	
3:00	8	1	0	0	0	0	0	0	0	0	0	
3:15	5	1	0	0	0	0	0	0	0	0	0	
3:30	10	0	0	0	0	0	0	0	0	0	0	
3:45	9	5	0	0	0	0	0	0	0	0	0	
4:00	17	2	1	1	0	0	0	0	0	0	0	
4:15	19	3	1	0	0	0	0	0	0	0	0	
4:30	21	3	0	0	0	0	0	0	0	0	0	
4:45	23	6	2	1	0	0	0	0	0	0	0	
5:00	42	5	2	0	0	0	0	0	0	0	0	
5:15	51	9	2	0	0	0	0	0	0	0	0	
5:30	75	15	3	2	0	0	0	0	0	0	0	
5:45	95	17	3	2	0	2	0	0	0	0	0	
6:00	120	29	4	3	1	0	0	0	0	0	0	
6:15	130	25	5	3	0	0	1	0	0	0	0	
6:30	189	42	7	2	0	1	1	0	0	0	0	
6:45	212	22	4	8	1	2	0	0	0	0	0	
7:00	203	29	5	6	1	0	0	1	0	0	0	
7:15	257	43	8	14	1	0	2	0	0	0	0	
7:30	310	36	6	9	2	2	1	0	0	1	0	
7:45	377	36	7	13	3	4	5	3	0	0	0	
8:00	415	47	7	6	1	6	4	0	0	0	0	
8:15	426	38	8	11	1	5	7	1	0	0	0	
8:30	474	54	16	6	3	5	4	0	0	0	0	
8:45	508	43	4	5	2	11	7	0	0	0	0	
9:00	376	40	9	14	3	5	4	1	0	0	0	
9:15	349	43	4	4	5	1	6	0	0	0	0	
9:30	334	49	4	9	2	4	1	0	0	0	0	
9:45	303	42	4	11	2	4	3	1	0	0	0	
10:00	286	44	4	15	3	5	1	0	0	0	0	
10:15	308	39	4	14	2	3	2	0	1	0	0	
10:30	343	40	6	13	0	4	2	2	0	0	0	
10:45	303	41	3	11	3	2	4	0	0	0	0	
11:00	341	35	6	6	1	2	3	1	0	0	0	
11:15	315	48	6	8	3	3	3	2	0	0	0	
11:30	384	48	5	4	1	2	4	0	1	0	0	
11:45	419	53	5	8	2	6	2	0	0	0	0	

4:00	518	50	2	12	5	8	3	0	1	0	0
4:15	495	55	5	3	3	11	9	0	0	0	0
4:30	591	57	3	7	1	4	3	1	0	0	0
4:45	623	52	4	7	1	4	3	0	0	0	0
5:00	661	39	6	7	3	5	1	0	0	0	0
5:15	588	51	2	8	2	5	2	0	0	0	0
5:30	535	41	4	3	2	11	5	0	0	0	0
5:45	558	41	2	7	0	4	3	2	0	0	0
6:00	573	47	3	1	0	2	1	0	0	0	0
6:15	520	45	5	6	2	6	5	1	0	0	0
6:30	464	50	3	5	1	8	1	0	0	0	0
6:45	378	39	4	6	0	4	3	0	0	0	0
7:00	374	44	4	2	2	5	2	0	0	0	0
7:15	384	33	6	2	2	3	3	1	0	0	0
7:30	389	40	1	1	0	5	2	0	0	0	0
7:45	408	44	6	2	2	3	3	0	0	0	0
8:00	354	27	3	1	0	4	3	0	0	0	0
8:15	362	19	3	3	0	4	1	0	0	0	0
8:30	324	25	4	4	0	0	2	0	0	0	0
8:45	328	18	4	4	0	0	1	0	0	0	0
9:00	265	20	6	0	0	2	1	0	0	0	0
9:15	263	16	4	1	0	0	0	0	0	0	0
9:30	202	11	3	1	0	2	1	0	0	0	0
9:45	192	10	6	0	0	2	0	1	0	0	0
10:00	162	9	4	3	0	0	2	0	0	0	0
10:15	152	11	5	1	0	2	3	0	0	0	0
10:30	112	6	4	1	0	0	0	1	0	0	0
10:45	115	13	5	1	0	0	0	0	0	0	0
11:00	118	6	4	0	0	0	0	0	0	0	0
11:15	92	5	5	1	0	0	0	1	0	0	0
11:30	78	2	2	1	0	0	0	0	0	0	0
11:45	170	11	3	1	0	2	0	0	0	0	0
Total	26,194	2,760	401	457	95	251	177	34	5	1	0
Percent	84.79%	8.93%	1.30%	1.48%	0.31%	0.81%	0.57%	0.11%	0.02%	0.00%	0.00%

Cars	93.72%
MT	3.90%
HT	2.38%

Average (May 29, 30):	
Average MT:	3.58%
Average HT:	2.34%

Avg AADT:	31,468
Additional Dev:	2,390
Total AADT	33,858

Accu-Traffic Inc.
85 West Wilmot St., Unit 13,
Richmond Hill, ON, L4B 1K7
Tel: 1- 416-910-0171 Fax: 1-888-711-3125
E-mail: solutions@accu-traffic.ca
URL: http://www.accu-traffic.ca

Site Code: 56
Station ID: MC01
Edinburgh Road S btwn Carrington Drive
and Gordon Street
Latitude: 0' 0.0000 Undefined

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/10/21	0	87	6	3	2	0	0	1	0	0	0	0	0	99
01:00	0	65	2	0	0	0	0	0	0	0	0	0	0	67
02:00	0	25	2	0	0	0	0	0	0	0	0	0	0	27
03:00	0	20	3	0	0	0	0	0	0	0	0	0	0	23
04:00	0	27	2	2	0	0	0	0	0	0	0	0	0	31
05:00	0	97	17	3	1	0	0	0	0	0	0	0	0	118
06:00	0	234	37	4	3	0	0	0	0	0	0	0	0	278
07:00	0	399	60	6	8	1	0	**2**	0	0	0	0	0	476
08:00	2	**598**	87	**30**	14	1	0	1	**1**	0	0	0	0	**734**
09:00	1	452	62	9	**17**	**6**	0	1	0	0	0	0	0	548
10:00	0	459	88	9	11	3	0	1	0	0	0	0	0	571
11:00	**3**	575	**90**	5	15	2	0	2	0	0	0	0	0	692
12 PM	0	574	78	10	15	0	0	**2**	0	0	0	0	0	679
13:00	1	582	63	7	**20**	0	0	1	1	0	0	0	0	675
14:00	1	653	67	9	13	**2**	**2**	1	0	0	0	0	0	748
15:00	1	811	97	**22**	16	0	0	1	**2**	0	0	0	0	950
16:00	1	885	**113**	9	11	0	0	1	0	0	0	0	0	1020
17:00	**4**	**916**	107	8	13	0	0	0	0	0	0	0	**1**	**1049**
18:00	0	753	73	4	4	0	0	0	0	0	0	0	0	834
19:00	0	599	48	4	7	1	0	0	0	0	0	0	0	659
20:00	0	449	47	4	3	0	0	0	0	0	0	0	0	503
21:00	0	372	23	3	4	0	0	0	0	0	0	0	0	402
22:00	0	263	21	4	4	1	0	0	0	0	0	0	0	293
23:00	0	184	22	4	0	0	0	0	0	0	0	0	0	210
Total	14	10079	1215	159	181	17	2	14	4	0	0	0	1	11686
Percent	0.1%	86.2%	10.4%	1.4%	1.5%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	08:00	11:00	08:00	09:00	09:00		07:00	08:00					08:00
Vol.	3	598	90	30	17	6		2	1					734
PM Peak	17:00	17:00	16:00	15:00	13:00	14:00	14:00	12:00	15:00				17:00	17:00
Vol.	4	916	113	22	20	2	2	2	2				1	1049

Accu-Traffic Inc.
85 West Wilmot St., Unit 13,
Richmond Hill, ON, L4B 1K7
Tel: 1- 416-910-0171 Fax: 1-888-711-3125
E-mail: solutions@accu-traffic.ca
URL: http://www.accu-traffic.ca

Site Code: 56
Station ID: MC01
Edinburgh Road S btwn Carrington Drive
and Gordon Street
Latitude: 0' 0.0000 Undefined

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/11/21	0	97	6	3	1	0	0	0	0	0	0	0	0	107
01:00	0	68	1	0	0	0	0	0	0	0	0	0	0	69
02:00	0	28	5	0	0	0	0	0	0	0	0	0	0	33
03:00	0	23	1	0	0	0	0	0	0	0	0	0	0	24
04:00	0	22	0	2	0	0	0	0	0	0	0	0	0	24
05:00	0	80	19	3	2	0	0	0	0	0	0	0	0	104
06:00	0	222	31	5	6	1	0	0	0	0	0	0	0	265
07:00	0	351	47	7	6	1	0	2	**1**	0	0	0	0	415
08:00	**3**	575	89	**17**	**21**	**3**	0	**3**	1	0	0	0	0	712
09:00	1	490	87	6	9	1	0	0	0	0	0	0	0	594
10:00	0	472	**100**	9	14	2	0	0	1	0	0	0	0	598
11:00	0	**649**	96	6	10	2	0	3	0	0	0	0	0	**766**
12 PM	1	642	83	8	14	0	0	0	0	0	0	0	0	748
13:00	2	690	96	7	8	**1**	0	**2**	**1**	0	0	0	0	807
14:00	0	706	84	10	15	1	0	2	1	0	0	0	0	819
15:00	2	839	**110**	**15**	**20**	1	0	2	0	0	0	0	0	989
16:00	0	845	107	7	14	0	0	0	0	0	0	0	0	973
17:00	**3**	**913**	96	6	11	0	0	0	0	0	0	0	0	**1029**
18:00	0	753	72	4	7	0	0	0	0	0	0	0	0	836
19:00	0	609	59	3	4	0	0	0	0	0	0	0	0	675
20:00	0	442	44	3	3	0	0	0	0	0	0	0	0	492
21:00	0	369	32	4	3	0	0	0	0	0	0	0	0	408
22:00	0	241	24	4	1	0	0	0	1	0	0	0	0	271
23:00	0	177	14	4	3	0	0	0	0	0	0	0	0	198
Total	12	10303	1303	133	172	13	0	14	6	0	0	0	0	11956
Percent	0.1%	86.2%	10.9%	1.1%	1.4%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	11:00	10:00	08:00	08:00	08:00		08:00	07:00					11:00
Vol.	3	649	100	17	21	3		3	1					766
PM Peak	17:00	17:00	15:00	15:00	15:00	13:00		13:00	13:00					17:00
Vol.	3	913	110	15	20	1		2	1					1029

Accu-Traffic Inc.
85 West Wilmot St., Unit 13,
Richmond Hill, ON, L4B 1K7
Tel: 1- 416-910-0171 Fax: 1-888-711-3125
E-mail: solutions@accu-traffic.ca
URL: http://www.accu-traffic.ca

Site Code: 56
Station ID: MC01
Edinburgh Road S btwn Carrington Drive
and Gordon Street
Latitude: 0' 0.0000 Undefined

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/12/21	**1**	110	4	3	1	0	0	0	0	0	0	0	0	119
01:00	0	54	4	0	0	0	0	0	0	0	0	0	0	58
02:00	0	49	1	0	0	0	0	0	0	0	0	0	0	50
03:00	0	27	1	0	0	0	0	0	0	0	0	0	0	28
04:00	0	23	2	2	0	0	0	0	0	0	0	0	0	27
05:00	0	89	13	4	1	1	0	0	0	0	0	0	0	108
06:00	0	214	32	4	7	0	0	0	0	0	0	0	0	257
07:00	0	359	57	7	10	**2**	0	0	**1**	0	0	0	0	436
08:00	1	564	85	**16**	13	0	0	2	0	0	0	0	0	681
09:00	0	468	68	6	7	2	0	0	1	0	0	0	0	552
10:00	0	527	**91**	9	**19**	1	0	2	0	0	0	0	0	649
11:00	1	**628**	88	4	17	1	0	**3**	1	0	0	0	0	**743**
12 PM	1	723	88	5	17	**1**	0	0	**1**	0	0	0	0	836
13:00	**3**	702	101	8	**21**	1	0	0	0	0	0	0	0	836
14:00	1	796	80	9	8	1	0	0	0	0	0	0	0	895
15:00	3	892	112	**14**	21	1	0	0	0	0	0	0	0	1043
16:00	0	**952**	94	7	10	0	0	**1**	1	0	0	0	0	1065
17:00	1	941	**128**	7	7	0	0	1	0	0	0	0	0	**1085**
18:00	1	817	67	3	4	1	0	1	1	0	0	0	0	895
19:00	0	625	68	2	4	0	0	1	0	0	0	0	0	700
20:00	1	518	47	4	6	0	0	0	0	0	0	0	0	576
21:00	0	425	35	4	2	0	0	0	0	0	0	0	0	466
22:00	0	284	33	4	0	0	0	0	0	0	0	0	0	321
23:00	0	200	20	4	4	0	0	0	0	0	0	0	0	228
Total	14	10987	1319	126	179	12	0	11	6	0	0	0	0	12654
Percent	0.1%	86.8%	10.4%	1.0%	1.4%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	00:00	11:00	10:00	08:00	10:00	07:00		11:00	07:00					11:00
Vol.	1	628	91	16	19	2		3	1					743
PM Peak	13:00	16:00	17:00	15:00	13:00	12:00		16:00	12:00					17:00
Vol.	3	952	128	14	21	1		1	1					1085

Accu-Traffic Inc.
85 West Wilmot St., Unit 13,
Richmond Hill, ON, L4B 1K7
Tel: 1- 416-910-0171 Fax: 1-888-711-3125
E-mail: solutions@accu-traffic.ca
URL: http://www.accu-traffic.ca

Site Code: 56
Station ID: MC01
Edinburgh Road S btwn Carrington Drive
and Gordon Street
Latitude: 0' 0.0000 Undefined

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/13/21	0	170	10	3	1	0	0	0	0	0	0	0	0	184
01:00	0	120	11	0	0	0	0	0	0	0	0	0	0	131
02:00	0	92	2	0	0	0	0	0	0	0	0	0	0	94
03:00	0	58	5	0	1	0	0	0	0	0	0	0	0	64
04:00	0	24	2	0	0	0	0	0	0	0	0	0	0	26
05:00	0	27	6	1	1	0	0	0	0	0	0	0	0	35
06:00	0	83	10	4	1	0	0	0	0	0	0	0	0	98
07:00	0	149	18	4	4	0	0	0	0	0	0	0	0	175
08:00	1	266	52	4	5	0	0	0	0	0	0	0	0	328
09:00	0	455	71	5	3	0	0	**1**	0	0	0	0	0	535
10:00	**3**	615	**87**	**6**	8	0	0	1	0	0	0	0	0	720
11:00	1	**711**	80	4	**9**	**1**	0	0	0	0	0	0	0	**806**
12 PM	**2**	843	**112**	**5**	**14**	0	0	0	0	0	0	0	0	**976**
13:00	2	**869**	83	4	14	0	0	0	0	0	0	0	0	972
14:00	1	837	91	4	7	0	0	0	0	0	0	0	0	940
15:00	1	836	80	4	5	0	0	0	0	0	0	0	0	926
16:00	0	808	76	4	8	0	0	0	0	0	0	0	0	896
17:00	1	775	75	4	2	0	0	0	**2**	0	0	0	0	859
18:00	0	685	62	4	3	0	0	0	0	0	0	0	0	754
19:00	0	535	53	4	6	0	0	0	0	0	0	0	0	598
20:00	0	429	32	2	4	0	0	0	0	0	0	0	0	467
21:00	0	408	32	1	4	0	0	0	0	0	0	0	0	445
22:00	0	290	19	3	1	0	0	0	0	0	0	0	0	313
23:00	0	216	14	3	1	0	0	0	0	0	0	0	0	234
Total	12	10301	1083	73	102	1	0	2	2	0	0	0	0	11576
Percent	0.1%	89.0%	9.4%	0.6%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	10:00	11:00	10:00	10:00	11:00	11:00		09:00						11:00
Vol.	3	711	87	6	9	1		1						806
PM Peak	12:00	13:00	12:00	12:00	12:00				17:00					12:00
Vol.	2	869	112	5	14				2					976

Accu-Traffic Inc.
85 West Wilmot St., Unit 13,
Richmond Hill, ON, L4B 1K7
Tel: 1- 416-910-0171 Fax: 1-888-711-3125
E-mail: solutions@accu-traffic.ca
URL: http://www.accu-traffic.ca

Site Code: 56
Station ID: MC01
Edinburgh Road S btwn Carrington Drive
and Gordon Street
Latitude: 0' 0.0000 Undefined

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/14/21	0	162	10	2	2	**1**	0	0	0	0	0	0	0	177
01:00	0	161	10	0	1	0	0	0	0	0	0	0	0	172
02:00	0	118	4	0	2	0	0	0	0	0	0	0	0	124
03:00	0	86	11	0	0	0	0	0	0	0	0	0	0	97
04:00	0	36	1	0	0	0	0	0	0	0	0	0	0	37
05:00	0	24	5	0	1	0	0	0	0	0	0	0	0	30
06:00	0	66	6	0	0	0	0	0	0	0	0	0	0	72
07:00	1	98	11	0	3	0	0	0	0	0	0	0	0	113
08:00	0	204	19	0	2	0	0	0	0	**1**	0	0	0	226
09:00	**2**	365	56	3	7	0	0	0	0	0	0	0	0	433
10:00	0	490	71	**5**	7	0	0	0	0	0	0	0	0	573
11:00	0	**638**	**73**	3	**9**	0	0	0	0	0	0	0	0	**723**
12 PM	0	640	**78**	**4**	8	0	0	0	0	0	0	0	0	730
13:00	0	**776**	56	4	7	0	0	0	0	0	0	0	0	843
14:00	0	751	55	3	9	0	**1**	**1**	0	0	0	0	0	820
15:00	0	758	75	4	8	0	0	0	0	0	0	0	0	**845**
16:00	0	660	47	3	3	0	0	0	0	0	0	0	0	713
17:00	0	634	27	4	**10**	0	0	0	**1**	0	0	0	0	676
18:00	0	508	27	4	2	0	0	0	0	0	0	0	0	541
19:00	0	477	37	1	3	0	0	0	0	0	0	0	0	518
20:00	0	309	34	0	3	0	0	0	0	0	0	0	0	346
21:00	0	282	21	0	1	0	0	0	0	0	0	0	0	304
22:00	0	177	10	0	3	0	0	0	0	0	0	0	0	190
23:00	0	121	9	0	0	0	0	0	0	0	0	0	0	130
Total	3	8541	753	40	91	1	1	1	1	1	0	0	0	9433
Percent	0.0%	90.5%	8.0%	0.4%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	00:00				08:00				11:00
Vol.	2	638	73	5	9	1				1				723
PM Peak		13:00	12:00	12:00	17:00		14:00	14:00	17:00					15:00
Vol.		776	78	4	10		1	1	1					845

Accu-Traffic Inc.
85 West Wilmot St., Unit 13,
Richmond Hill, ON, L4B 1K7
Tel: 1- 416-910-0171 Fax: 1-888-711-3125
E-mail: solutions@accu-traffic.ca
URL: http://www.accu-traffic.ca

Site Code: 56
Station ID: MC01
Edinburgh Road S btwn Carrington Drive
and Gordon Street
Latitude: 0' 0.0000 Undefined

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/15/21	0	69	1	0	2	0	0	0	0	0	0	0	0	72
01:00	0	43	1	0	1	0	0	0	0	0	0	0	0	45
02:00	0	12	1	0	1	0	0	0	0	0	0	0	0	14
03:00	0	14	3	0	1	0	0	0	0	0	0	0	0	18
04:00	0	26	2	2	0	0	0	0	0	0	0	0	0	30
05:00	0	89	17	3	2	0	0	0	0	0	0	0	0	111
06:00	0	232	36	4	5	**2**	0	0	0	0	0	0	0	279
07:00	0	342	48	5	9	2	0	0	0	0	0	0	0	406
08:00	**1**	**593**	**84**	**33**	13	2	0	1	0	0	0	0	0	**727**
09:00	0	450	77	8	**18**	0	0	0	0	0	0	0	0	553
10:00	0	503	63	6	10	2	0	1	0	0	0	0	0	585
11:00	1	533	66	5	14	0	0	**3**	**1**	0	0	0	0	623
12 PM	0	589	81	4	13	0	0	0	0	0	0	0	0	687
13:00	2	566	71	8	10	0	0	**1**	**1**	0	0	0	0	659
14:00	1	661	92	11	17	**2**	0	1	0	0	0	0	0	785
15:00	0	786	**124**	**25**	19	0	**1**	0	1	0	0	0	0	956
16:00	**3**	815	99	12	**21**	0	0	0	0	0	0	0	0	950
17:00	0	**876**	97	9	14	0	0	0	0	0	0	0	0	**996**
18:00	0	693	68	4	7	0	0	1	0	0	0	0	0	773
19:00	0	543	46	3	0	0	0	0	0	0	0	0	0	592
20:00	0	402	39	4	6	0	0	0	0	0	0	0	0	451
21:00	0	295	23	4	3	0	0	0	0	0	0	0	0	325
22:00	0	201	17	3	0	0	0	0	0	0	0	0	0	221
23:00	0	147	12	4	0	0	0	1	0	0	0	0	0	164
Total	8	9480	1168	157	186	10	1	9	3	0	0	0	0	11022
Percent	0.1%	86.0%	10.6%	1.4%	1.7%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	08:00	09:00	06:00		11:00	11:00					08:00
Vol.	1	593	84	33	18	2		3	1					727
PM Peak	16:00	17:00	15:00	15:00	16:00	14:00	15:00	13:00	13:00					17:00
Vol.	3	876	124	25	21	2	1	1	1					996

Accu-Traffic Inc.
85 West Wilmot St., Unit 13,
Richmond Hill, ON, L4B 1K7
Tel: 1- 416-910-0171 Fax: 1-888-711-3125
E-mail: solutions@accu-traffic.ca
URL: http://www.accu-traffic.ca

Site Code: 56
Station ID: MC01
Edinburgh Road S btwn Carrington Drive
and Gordon Street
Latitude: 0' 0.0000 Undefined

EB, WB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
11/16/21	0	88	3	3	0	0	0	0	0	0	0	0	0	94
01:00	0	47	1	0	0	0	0	0	0	0	0	0	0	48
02:00	0	24	1	0	2	0	0	0	0	0	0	0	0	27
03:00	0	24	3	0	0	0	0	0	**1**	0	0	0	0	28
04:00	0	27	1	2	1	0	0	0	0	0	0	0	0	31
05:00	0	99	14	3	2	0	0	0	0	0	0	0	0	118
06:00	0	246	35	4	3	0	0	0	0	0	0	0	0	288
07:00	0	380	57	9	11	**1**	0	0	0	0	0	0	0	458
08:00	**1**	**591**	**83**	**28**	**14**	0	0	**2**	0	0	0	0	0	**719**
09:00	0	441	72	9	11	1	0	1	0	0	0	0	0	535
10:00	1	462	65	7	9	1	0	0	0	0	0	0	0	545
11:00	0	531	82	10	6	0	0	1	1	0	0	0	0	631
12 PM	0	561	77	5	11	**3**	0	**3**	0	0	0	0	0	660
13:00	1	592	72	4	12	0	0	1	0	0	0	0	0	682
14:00	0	647	61	6	**20**	0	0	2	0	0	0	0	0	736
15:00	0	792	**107**	**27**	20	1	1	2	0	0	0	0	0	950
16:00	0	804	93	16	14	0	0	2	0	0	0	0	0	929
17:00	1	**900**	91	6	7	0	**2**	1	**1**	0	0	0	0	**1009**
18:00	**2**	643	57	6	10	0	0	1	0	0	0	0	0	719
19:00	0	319	31	1	6	0	0	0	0	0	0	0	0	357
20:00	0	429	54	4	6	0	0	0	0	0	0	0	0	493
21:00	0	307	35	4	3	0	0	0	0	0	0	0	0	349
22:00	0	229	17	4	3	0	0	0	0	0	0	0	0	253
23:00	0	133	20	4	6	0	0	0	0	0	0	0	0	163
Total	6	9316	1132	162	177	7	3	16	3	0	0	0	0	10822
Percent	0.1%	86.1%	10.5%	1.5%	1.6%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	
AM Peak	08:00	08:00	08:00	08:00	08:00	07:00		08:00	03:00					08:00
Vol.	1	591	83	28	14	1		2	1					719
PM Peak	18:00	17:00	15:00	15:00	14:00	12:00	17:00	12:00	17:00					17:00
Vol.	2	900	107	27	20	3	2	3	1					1009
Grand Total	69	69007	7973	850	1088	61	7	67	25	1	0	0	1	79149
Percent	0.1%	87.2%	10.1%	1.1%	1.4%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	

HOURLY TRAFFIC VOLUMES

Hourly Adj	Hour of Day		AMBIENT SOUND LEVELS (ONE HOUR Leq) SW OLA OLA1	NE OLA OLA2	R1-Loc3	R2-Loc10	R3-Loc9	R4-Loc2	Hour of Day		Projected - 2022 Gordon 33,066
-7.86	midnight	1:00	49.1	48.2	53.4	51.7	55.4	61.7	midnight	1:00	248
-11.02	1:00	2:00	46.0	45.0	50.2	48.5	52.2	58.5	1:00	2:00	120
-12.84	2:00	3:00	44.1	43.2	48.4	46.7	50.4	56.7	2:00	3:00	79
-15.57	3:00	4:00	41.4	40.5	45.6	44.0	47.7	54.0	3:00	4:00	42
-11.48	4:00	5:00	45.5	44.6	49.7	48.1	51.8	58.1	4:00	5:00	108
-6.36	5:00	6:00	50.6	49.7	54.9	53.2	56.9	63.2	5:00	6:00	350
-2.34	6:00	7:00	54.6	53.7	58.9	57.2	60.9	67.2	6:00	7:00	882
0.00	7:00	8:00	**57.0**	**56.0**	**61.2**	**59.5**	**63.3**	**69.6**	**7:00**	**8:00**	**1,513**
1.88	**8:00**	**9:00**	58.9	57.9	63.1	61.4	65.2	71.4	8:00	9:00	2,334
0.81	9:00	10:00	57.8	56.8	62.0	60.3	64.1	70.4	9:00	10:00	1,822
0.44	10:00	11:00	57.4	56.5	61.6	60.0	63.7	70.0	10:00	11:00	1,673
0.96	11:00	noon	57.9	57.0	62.2	60.5	64.2	70.5	11:00	noon	1,887
0.15	noon	1:00	57.1	56.2	61.4	59.7	63.4	69.7	noon	1:00	1,567
0.98	1:00	2:00	58.0	57.0	62.2	60.5	64.2	70.5	1:00	2:00	1,895
1.06	2:00	3:00	58.0	57.1	62.3	60.6	64.3	70.6	2:00	3:00	1,933
1.88	3:00	4:00	58.9	57.9	63.1	61.4	65.2	71.4	3:00	4:00	2,335
2.40	**4:00**	**5:00**	59.4	58.4	63.6	61.9	65.7	71.9	4:00	5:00	2,627
2.86	5:00	6:00	59.8	58.9	64.1	62.4	66.1	72.4	5:00	6:00	2,925
2.34	6:00	7:00	59.3	58.4	63.5	61.9	65.6	71.9	6:00	7:00	2,591
0.98	7:00	8:00	58.0	57.0	62.2	60.5	64.3	70.5	7:00	8:00	1,896
0.65	8:00	9:00	57.6	56.7	61.9	60.2	63.9	70.2	8:00	9:00	1,755
-0.83	9:00	10:00	56.1	55.2	60.4	58.7	62.4	68.7	9:00	10:00	1,249
-3.06	10:00	11:00	**53.9**	**54.3**	**56.9**	**55.2**	60.2	66.5	**10:00**	**11:00**	**747**
-4.91	11:00	midnight	52.1	51.1	56.3	54.6	58.4	64.6	11:00	midnight	489

Day, Min	57	56	61	60	63	70
Eve, Min	54	54	57	55	60	66
Night, Min	41	40	46	44	48	54

OFF-SITE SOUND LEVELS FROM ON-SITE ROOFTOP HVAC – DAY & NIGHT

OFF-SITE ROOFTOP MECHANICAL SOURCES - NIGHTTIME

Receiver
Name: R1- 1250 Gordon
ID: APT2_HVAC
X: 17564510.40 m
Y: 4818418.41 m
Z: 15.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
2	17564572.20	4818375.02	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	48.6	0.1	-2.2	0.0	0.0	0.0	0.0	0.0	42.5

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
4	17564652.23	4818484.80	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	54.9	0.3	-1.4	0.0	0.0	0.0	0.0	0.0	35.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
13	17564584.86	4818235.10	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	56.9	0.4	-0.5	0.0	0.0	0.0	0.0	0.0	35.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
21	17564611.74	4818206.75	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	58.4	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	33.7

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
34	17564623.13	4818187.96	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	59.2	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	32.8

50% DUTY CYCLE

Receiver
Name: R2 - 1250 Gordon
ID: APT2_HVAC
X: 17564537.38 m
Y: 4818450.01 m
Z: 15.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
1	17564572.20	4818375.02	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	49.3	0.2	-2.4	0.0	0.0	0.0	0.0	0.0	41.9

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
3	17564652.23	4818484.80	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	52.6	0.2	-2.0	0.0	0.0	0.0	0.0	0.0	38.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
12	17564584.86	4818235.10	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	57.9	0.4	-1.3	0.0	0.0	0.0	0.0	0.0	35.0

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
27	17564611.74	4818206.75	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	59.1	0.5	-1.2	0.0	0.0	0.0	0.0	0.0	33.6

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
29	17564623.13	4818187.96	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	59.8	0.5	-1.1	0.0	0.0	0.0	0.0	0.0	32.8

Receiver
Name: R3 - 1250 Gordon
ID: APT2_HVAC
X: 17564582.39 m
Y: 4818496.90 m
Z: 15.50 m

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
7	17564652.23	4818484.80	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	48.0	0.1	-2.0	0.0	0.0	0.0	0.0	0.0	42.9

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
9	17564572.20	4818375.02	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	52.7	0.2	-1.8	0.0	0.0	0.0	0.0	0.0	37.8

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
18	17564584.86	4818235.10	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	59.4	0.5	-1.2	0.0	0.0	0.0	0.0	0.0	33.3

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
25	17564611.74	4818206.75	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	60.3	0.6	-1.0	0.0	0.0	0.0	0.0	0.0	32.1

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
41	17564623.13	4818187.96	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	60.9	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	31.4

Receiver
Name: R4
ID: R4
X: 17564443.86 m
Y: 4818467.11 m
Z: 36.00 m

Point Source, ISO 9613, Name: "APT4 - HVAC", ID: "APT4_HVAC"																				
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)
5	17564356.57	4818452.65	2.00	0	N	500	92.0	0.0	0.0	0.0	0.0	50.5	0.2	1.8	0.0	0.0	0.0	0.0	0.0	39.4

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
8	17564572.20	4818375.02	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	55.0	0.3	-1.1	0.0	0.0	8.7	0.0	0.0	26.0

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
15	17564652.23	4818484.80	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	57.4	0.4	-1.6	0.0	0.0	8.9	0.0	0.0	23.9

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
17	17564584.86	4818235.10	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	59.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	31.8

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
20	17564611.74	4818206.75	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	60.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	30.6

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
22	17564623.13	4818187.96	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	61.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	29.9

Receiver
Name: OLA1
ID: OLA1
X: 17564518.72 m
Y: 4818414.03 m
Z: 5.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
10	17564572.20	4818375.02	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	47.5	0.1	-2.5	0.0	0.0	0.0	0.0	0.0	43.8

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
24	17564652.23	4818484.80	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	54.6	0.3	-1.5	0.0	0.0	0.0	0.0	0.0	35.6

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
33	17564584.86	4818235.10	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	56.7	0.4	-0.8	0.0	0.0	9.8	0.0	0.0	25.9

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
35	17564611.74	4818206.75	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	58.2	0.4	-0.9	0.0	0.0	10.6	0.0	0.0	23.7

Receiver
Name: OLA2
ID: OLA2
X: 17564526.02 m
Y: 4818509.44 m
Z: 1.50 m

Point Source, ISO 9613, Name: "APT4 - HVAC", ID: "APT4_HVAC"																				
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)
30	17564356.57	4818452.65	2.00	0	N	500	92.0	0.0	0.0	0.0	0.0	56.0	0.3	3.6	0.0	0.0	0.0	0.0	0.0	32.0

Receiver
Name: OLA2
ID: OLA2
X: 17564542.17 m
Y: 4818439.94 m
Z: 1.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
14	17564572.20	4818375.02	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	48.3	0.1	-1.8	0.0	0.0	0.0	0.0	0.0	42.4

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
23	17564652.23	4818484.80	17.00	0	N	500	92.0	0.0	0.0	0.0	-3.0	52.6	0.2	2.3	0.0	0.0	0.0	0.0	0.0	33.9

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
36	17564584.86	4818235.10	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	57.5	0.4	-0.8	0.0	0.0	8.4	0.0	0.0	26.6

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
38	17564611.74	4818206.75	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	58.8	0.5	-0.8	0.0	0.0	9.4	0.0	0.0	24.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
40	17564623.13	4818187.96	24.00	0	N	500	92.0	0.0	0.0	0.0	0.0	59.5	0.5	-0.8	0.0	0.0	9.7	0.0	0.0	23.1

OFF-SITE ROOFTOP MECHANICAL SOURCES - DAYTIME

Receiver
Name: R1- 1250 Gordon
ID: APT2_HVAC
X: 17564510.40 m
Y: 4818418.41 m
Z: 15.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
2	17564572.20	4818375.02	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	48.6	0.1	-2.2	0.0	0.0	0.0	0.0	0.0	45.5

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
4	17564652.23	4818484.80	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	54.9	0.3	-1.4	0.0	0.0	0.0	0.0	0.0	38.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
13	17564584.86	4818235.10	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	56.9	0.4	-0.5	0.0	0.0	0.0	0.0	0.0	38.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
21	17564611.74	4818206.75	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	58.4	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	36.7

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
34	17564623.13	4818187.96	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	59.2	0.5	-0.5	0.0	0.0	0.0	0.0	0.0	35.8

100% DUTY CYCLE

Receiver
Name: R2 - 1250 Gordon
ID: APT2_HVAC
X: 17564537.38 m
Y: 4818450.01 m
Z: 15.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
1	17564572.20	4818375.02	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	49.3	0.2	-2.4	0.0	0.0	0.0	0.0	0.0	44.9

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
3	17564652.23	4818484.80	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	52.6	0.2	-2.0	0.0	0.0	0.0	0.0	0.0	41.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
12	17564584.86	4818235.10	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	57.9	0.4	-1.3	0.0	0.0	0.0	0.0	0.0	38.0

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
27	17564611.74	4818206.75	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	59.1	0.5	-1.2	0.0	0.0	0.0	0.0	0.0	36.6

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
29	17564623.13	4818187.96	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	59.8	0.5	-1.1	0.0	0.0	0.0	0.0	0.0	35.8

Receiver
Name: R3 - 1250 Gordon
ID: APT2_HVAC
X: 17564582.39 m
Y: 4818496.90 m
Z: 15.50 m

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
7	17564652.23	4818484.80	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	48.0	0.1	-2.0	0.0	0.0	0.0	0.0	0.0	45.9

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
9	17564572.20	4818375.02	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	52.7	0.2	-1.8	0.0	0.0	0.0	0.0	0.0	40.8

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
18	17564584.86	4818235.10	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	59.4	0.5	-1.2	0.0	0.0	0.0	0.0	0.0	36.3

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
25	17564611.74	4818206.75	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	60.3	0.6	-1.0	0.0	0.0	0.0	0.0	0.0	35.1

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
41	17564623.13	4818187.96	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	60.9	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	34.4

Receiver
Name: R4
ID: R4
X: 17564443.86 m
Y: 4818467.11 m
Z: 36.00 m

Point Source, ISO 9613, Name: "APT4 - HVAC", ID: "APT4_HVAC"																				
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)
5	17564356.57	4818452.65	2.00	0	D	500	95.0	0.0	0.0	0.0	0.0	50.5	0.2	1.8	0.0	0.0	0.0	0.0	0.0	42.4

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
8	17564572.20	4818375.02	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	55.0	0.3	-1.1	0.0	0.0	8.7	0.0	0.0	29.0

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
15	17564652.23	4818484.80	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	57.4	0.4	-1.6	0.0	0.0	8.9	0.0	0.0	26.9

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
17	17564584.86	4818235.10	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	59.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	34.8

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
20	17564611.74	4818206.75	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	60.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	33.6

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
22	17564623.13	4818187.96	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	61.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	32.9

Receiver
Name: OLA1
ID: OLA1
X: 17564518.72 m
Y: 4818414.03 m
Z: 5.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
10	17564572.20	4818375.02	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	47.5	0.1	-2.5	0.0	0.0	0.0	0.0	0.0	46.8

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
24	17564652.23	4818484.80	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	54.6	0.3	-1.5	0.0	0.0	0.0	0.0	0.0	38.6

Point Source, ISO 9613, Name: "APT4 - HVAC", ID: "APT4_HVAC"																				
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)
26	17564356.57	4818452.65	2.00	0	D	500	95.0	0.0	0.0	0.0	0.0	55.4	0.3	2.1	0.0	0.0	15.9	0.0	0.0	21.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
33	17564584.86	4818235.10	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	56.7	0.4	-0.8	0.0	0.0	9.8	0.0	0.0	28.9

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
35	17564611.74	4818206.75	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	58.2	0.4	-0.9	0.0	0.0	10.6	0.0	0.0	26.7

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
37	17564623.13	4818187.96	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	58.9	0.5	-0.9	0.0	0.0	15.9	0.0	0.0	20.5

Receiver
Name: OLA2
ID: OLA2
X: 17564526.02 m
Y: 4818509.44 m
Z: 1.50 m

Point Source, ISO 9613, Name: "APT4 - HVAC", ID: "APT4_HVAC"																				
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)
30	17564356.57	4818452.65	2.00	0	D	500	95.0	0.0	0.0	0.0	0.0	56.0	0.3	3.6	0.0	0.0	0.0	0.0	0.0	35.0

Receiver
Name: OLA2
ID: OLA2
X: 17564542.17 m
Y: 4818439.94 m
Z: 1.50 m

Point Source, ISO 9613, Name: "APT1 - HVAC", ID: "APT1_HVAC"																				
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)
14	17564572.20	4818375.02	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	48.3	0.1	-1.8	0.0	0.0	0.0	0.0	0.0	45.4

Point Source, ISO 9613, Name: "APT2 - HVAC", ID: "APT2_HVAC"																				
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)
23	17564652.23	4818484.80	17.00	0	D	500	95.0	0.0	0.0	0.0	-3.0	52.6	0.2	2.3	0.0	0.0	0.0	0.0	0.0	36.9

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
36	17564584.86	4818235.10	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	57.5	0.4	-0.8	0.0	0.0	8.4	0.0	0.0	29.6

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
38	17564611.74	4818206.75	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	58.8	0.5	-0.8	0.0	0.0	9.4	0.0	0.0	27.2

Point Source, ISO 9613, Name: "APT3 - HVAC", ID: "APT3_HVAC"																				
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)
40	17564623.13	4818187.96	24.00	0	D	500	95.0	0.0	0.0	0.0	0.0	59.5	0.5	-0.8	0.0	0.0	9.7	0.0	0.0	26.1

ON-SITE SOUND LEVELS FROM OFF-SITE ROOFTOP HVAC – DAY & NIGHT

Receiver
Name: R1
ID: R1
X: 17564440.21 m
Y: 4818499.86 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
1	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	11.8	0.0	0.0	18.5
1	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	48.1	0.0	2.1	0.0	0.0	13.5	0.0	0.0	19.8
1	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	48.1	0.1	1.0	0.0	0.0	17.4	0.0	0.0	23.4
1	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	48.1	0.1	0.0	0.0	0.0	19.2	0.0	0.0	22.0
1	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	48.1	0.3	0.0	0.0	0.0	19.6	0.0	0.0	19.7
1	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	48.1	0.7	0.0	0.0	0.0	19.8	0.0	0.0	17.2
1	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	48.1	2.3	0.0	0.0	0.0	19.9	0.0	0.0	13.3
1	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	48.1	8.4	0.0	0.0	0.0	19.9	0.0	0.0	2.1

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
3	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	52.6	0.0	-3.0	0.0	0.0	3.6	0.0	0.0	22.2
3	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	52.6	0.0	-0.4	0.0	0.0	4.2	0.0	0.0	27.0
3	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	52.6	0.1	-1.0	0.0	0.0	5.0	0.0	0.0	33.3
3	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	52.6	0.2	-1.6	0.0	0.0	5.9	0.0	0.0	32.2
3	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	52.6	0.4	-1.6	0.0	0.0	7.2	0.0	0.0	28.9
3	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	52.6	1.2	-1.6	0.0	0.0	9.0	0.0	0.0	24.6
3	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	52.6	4.0	-1.6	0.0	0.0	11.2	0.0	0.0	17.5
3	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	52.6	14.1	-1.6	0.0	0.0	13.7	0.0	0.0	-0.3

Area Source, ISO 9613, Name: "", ID: ""																				
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)
6	17564463.46	4818484.77	0.00	0	D	63	-48.0	-2.8	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	-92.4
6	17564463.46	4818484.77	0.00	0	D	125	-34.9	-2.8	0.0	0.0	0.0	40.0	0.0	1.3	0.0	0.0	4.7	0.0	0.0	-83.6
6	17564463.46	4818484.77	0.00	0	D	250	-32.4	-2.8	0.0	0.0	0.0	40.0	0.0	4.3	0.0	0.0	4.6	0.0	0.0	-84.0
6	17564463.46	4818484.77	0.00	0	D	500	-30.0	-2.8	0.0	0.0	0.0	40.0	0.1	6.0	0.0	0.0	4.9	0.0	0.0	-83.6
6	17564463.46	4818484.77	0.00	0	D	1000	-29.8	-2.8	0.0	0.0	0.0	40.0	0.1	2.1	0.0	0.0	5.3	0.0	0.0	-80.0
6	17564463.46	4818484.77	0.00	0	D	2000	-31.6	-2.8	0.0	0.0	0.0	40.0	0.3	0.0	0.0	0.0	5.8	0.0	0.0	-80.4
6	17564463.46	4818484.77	0.00	0	D	4000	-35.8	-2.8	0.0	0.0	0.0	40.0	0.9	0.0	0.0	0.0	6.6	0.0	0.0	-86.1
6	17564463.46	4818484.77	0.00	0	D	8000	-39.9	-2.8	0.0	0.0	0.0	40.0	3.3	0.0	0.0	0.0	7.9	0.0	0.0	-93.8
18	17564463.06	4818485.24	0.00	0	D	63	-48.0	-10.6	0.0	0.0	0.0	39.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-95.4
18	17564463.06	4818485.24	0.00	0	D	125	-34.9	-10.6	0.0	0.0	0.0	39.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-86.6
18	17564463.06	4818485.24	0.00	0	D	250	-32.4	-10.6	0.0	0.0	0.0	39.8	0.0	4.2	0.0	0.0	0.0	0.0	0.0	-87.0
18	17564463.06	4818485.24	0.00	0	D	500	-30.0	-10.6	0.0	0.0	0.0	39.8	0.1	5.9	0.0	0.0	0.0	0.0	0.0	-86.3
18	17564463.06	4818485.24	0.00	0	D	1000	-29.8	-10.6	0.0	0.0	0.0	39.8	0.1	2.1	0.0	0.0	0.0	0.0	0.0	-82.3
18	17564463.06	4818485.24	0.00	0	D	2000	-31.6	-10.6	0.0	0.0	0.0	39.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-82.2
18	17564463.06	4818485.24	0.00	0	D	4000	-35.8	-10.6	0.0	0.0	0.0	39.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	-87.1
18	17564463.06	4818485.24	0.00	0	D	8000	-39.9	-10.6	0.0	0.0	0.0	39.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	-93.5
27	17564463.08	4818485.93	0.00	0	D	63	-48.0	2.8	0.0	0.0	0.0	39.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-81.8
27	17564463.08	4818485.93	0.00	0	D	125	-34.9	2.8	0.0	0.0	0.0	39.7	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-73.0
27	17564463.08	4818485.93	0.00	0	D	250	-32.4	2.8	0.0	0.0	0.0	39.7	0.0	4.1	0.0	0.0	0.0	0.0	0.0	-73.4
27	17564463.08	4818485.93	0.00	0	D	500	-30.0	2.8	0.0	0.0	0.0	39.7	0.1	5.8	0.0	0.0	0.0	0.0	0.0	-72.7
27	17564463.08	4818485.93	0.00	0	D	1000	-29.8	2.8	0.0	0.0	0.0	39.7	0.1	2.1	0.0	0.0	0.0	0.0	0.0	-68.8
27	17564463.08	4818485.93	0.00	0	D	2000	-31.6	2.8	0.0	0.0	0.0	39.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-68.7
27	17564463.08	4818485.93	0.00	0	D	4000	-35.8	2.8	0.0	0.0	0.0	39.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	-73.5
27	17564463.08	4818485.93	0.00	0	D	8000	-39.9	2.8	0.0	0.0	0.0	39.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	-79.9
49	17564464.05	4818486.11	0.00	0	D	63	-48.0	-0.9	0.0	0.0	0.0	39.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-85.8
49	17564464.05	4818486.11	0.00	0	D	125	-34.9	-0.9	0.0	0.0	0.0	39.9	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-77.1
49	17564464.05	4818486.11	0.00	0	D	250	-32.4	-0.9	0.0	0.0	0.0	39.9	0.0	4.2	0.0	0.0	0.0	0.0	0.0	-77.5
49	17564464.05	4818486.11	0.00	0	D	500	-30.0	-0.9	0.0	0.0	0.0	39.9	0.1	5.9	0.0	0.0	0.0	0.0	0.0	-76.8
49	17564464.05	4818486.11	0.00	0	D	1000	-29.8	-0.9	0.0	0.0	0.0	39.9	0.1	2.1	0.0	0.0	0.0	0.0	0.0	-72.9

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -DAYTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
49	17564464.05	4818486.11	0.00	0	D	2000	-31.6	-0.9	0.0	0.0	0.0	39.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-72.7
49	17564464.05	4818486.11	0.00	0	D	4000	-35.8	-0.9	0.0	0.0	0.0	39.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	-77.6
49	17564464.05	4818486.11	0.00	0	D	8000	-39.9	-0.9	0.0	0.0	0.0	39.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	-84.0
52	17564464.38	4818485.10	0.00	0	D	63	-48.0	1.8	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-83.4
52	17564464.38	4818485.10	0.00	0	D	125	-34.9	1.8	0.0	0.0	0.0	40.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-74.6
52	17564464.38	4818485.10	0.00	0	D	250	-32.4	1.8	0.0	0.0	0.0	40.2	0.0	4.3	0.0	0.0	0.0	0.0	0.0	-75.1
52	17564464.38	4818485.10	0.00	0	D	500	-30.0	1.8	0.0	0.0	0.0	40.2	0.1	6.1	0.0	0.0	0.0	0.0	0.0	-74.5
52	17564464.38	4818485.10	0.00	0	D	1000	-29.8	1.8	0.0	0.0	0.0	40.2	0.1	2.2	0.0	0.0	0.0	0.0	0.0	-70.4
52	17564464.38	4818485.10	0.00	0	D	2000	-31.6	1.8	0.0	0.0	0.0	40.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-70.3
52	17564464.38	4818485.10	0.00	0	D	4000	-35.8	1.8	0.0	0.0	0.0	40.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	-75.1
52	17564464.38	4818485.10	0.00	0	D	8000	-39.9	1.8	0.0	0.0	0.0	40.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	-81.6
57	17564464.25	4818484.26	0.00	0	D	63	-48.0	-7.6	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	-97.5
57	17564464.25	4818484.26	0.00	0	D	125	-34.9	-7.6	0.0	0.0	0.0	40.2	0.0	1.4	0.0	0.0	4.6	0.0	0.0	-88.7
57	17564464.25	4818484.26	0.00	0	D	250	-32.4	-7.6	0.0	0.0	0.0	40.2	0.0	4.4	0.0	0.0	4.5	0.0	0.0	-89.1
57	17564464.25	4818484.26	0.00	0	D	500	-30.0	-7.6	0.0	0.0	0.0	40.2	0.1	6.1	0.0	0.0	4.8	0.0	0.0	-88.8
57	17564464.25	4818484.26	0.00	0	D	1000	-29.8	-7.6	0.0	0.0	0.0	40.2	0.1	2.2	0.0	0.0	5.1	0.0	0.0	-85.0
57	17564464.25	4818484.26	0.00	0	D	2000	-31.6	-7.6	0.0	0.0	0.0	40.2	0.3	0.0	0.0	0.0	5.4	0.0	0.0	-85.1
57	17564464.25	4818484.26	0.00	0	D	4000	-35.8	-7.6	0.0	0.0	0.0	40.2	1.0	0.0	0.0	0.0	6.0	0.0	0.0	-90.6
57	17564464.25	4818484.26	0.00	0	D	8000	-39.9	-7.6	0.0	0.0	0.0	40.2	3.4	0.0	0.0	0.0	7.0	0.0	0.0	-98.1

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
61	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	48.9	0.0	-3.0	0.0	0.0	12.1	0.0	0.0	2.8
61	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	48.9	0.0	2.2	0.0	0.0	13.8	0.0	0.0	6.0
61	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	48.9	0.1	1.0	0.0	0.0	17.6	0.0	0.0	9.8
61	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	48.9	0.2	0.0	0.0	0.0	19.1	0.0	0.0	6.6
61	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	48.9	0.3	0.0	0.0	0.0	19.6	0.0	0.0	5.3
61	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	48.9	0.8	0.0	0.0	0.0	19.8	0.0	0.0	3.8
61	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	48.9	2.6	0.0	0.0	0.0	19.9	0.0	0.0	-0.3
61	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	48.9	9.1	0.0	0.0	0.0	19.9	0.0	0.0	-15.0

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
72	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	52.8	0.0	-3.0	0.0	0.0	4.2	0.0	0.0	6.8
72	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	52.8	0.1	-0.3	0.0	0.0	5.0	0.0	0.0	13.4
72	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	52.8	0.1	-1.0	0.0	0.0	5.9	0.0	0.0	19.5
72	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	52.8	0.2	-1.6	0.0	0.0	7.2	0.0	0.0	16.1
72	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	52.8	0.4	-1.6	0.0	0.0	9.0	0.0	0.0	13.3
72	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	52.8	1.2	-1.6	0.0	0.0	11.2	0.0	0.0	9.6
72	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	52.8	4.0	-1.6	0.0	0.0	13.7	0.0	0.0	2.1
72	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	52.8	14.3	-1.6	0.0	0.0	16.4	0.0	0.0	-19.1

100% DUTY CYCLE

Receiver
Name: R2
ID: R2
X: 17564445.64 m
Y: 4818522.78 m
Z: 1.50 m

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
2	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	49.9	0.0	-3.0	0.0	0.0	9.6	0.0	0.0	18.9
2	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	49.9	0.0	0.6	0.0	0.0	12.0	0.0	0.0	21.0
2	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	49.9	0.1	5.6	0.0	0.0	11.0	0.0	0.0	23.5
2	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	49.9	0.2	4.0	0.0	0.0	15.2	0.0	0.0	20.2
2	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	49.9	0.3	0.5	0.0	0.0	18.5	0.0	0.0	18.4
2	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	49.9	0.8	0.0	0.0	0.0	19.4	0.0	0.0	15.7
2	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	49.9	2.9	0.0	0.0	0.0	19.7	0.0	0.0	11.2
2	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	49.9	10.2	0.0	0.0	0.0	19.9	0.0	0.0	-1.4

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
4	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	52.7	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	20.8
4	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	52.7	0.0	0.1	0.0	0.0	4.9	0.0	0.0	25.8
4	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	52.7	0.1	5.1	0.0	0.0	0.1	0.0	0.0	32.0
4	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	52.7	0.2	3.4	0.0	0.0	2.1	0.0	0.0	31.0
4	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	52.7	0.4	-0.1	0.0	0.0	6.2	0.0	0.0	28.4
4	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	52.7	1.2	-0.7	0.0	0.0	7.3	0.0	0.0	25.4
4	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	52.7	4.0	-0.7	0.0	0.0	8.8	0.0	0.0	18.8
4	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	52.7	14.2	-0.7	0.0	0.0	10.9	0.0	0.0	1.4

Area Source, ISO 9613, Name: "", ID: ""																				
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)
9	17564463.16	4818485.66	0.00	0	D	63	-48.0	4.1	0.0	0.0	0.0	43.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.2
9	17564463.16	4818485.66	0.00	0	D	125	-34.9	4.1	0.0	0.0	0.0	43.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	-74.6
9	17564463.16	4818485.66	0.00	0	D	250	-32.4	4.1	0.0	0.0	0.0	43.3	0.0	8.7	0.0	0.0	0.0	0.0	0.0	-80.4
9	17564463.16	4818485.66	0.00	0	D	500	-30.0	4.1	0.0	0.0	0.0	43.3	0.1	10.6	0.0	0.0	0.0	0.0	0.0	-79.9
9	17564463.16	4818485.66	0.00	0	D	1000	-29.8	4.1	0.0	0.0	0.0	43.3	0.2	3.2	0.0	0.0	0.0	0.0	0.0	-72.3
9	17564463.16	4818485.66	0.00	0	D	2000	-31.6	4.1	0.0	0.0	0.0	43.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	-71.2
9	17564463.16	4818485.66	0.00	0	D	4000	-35.8	4.1	0.0	0.0	0.0	43.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	-76.4
9	17564463.16	4818485.66	0.00	0	D	8000	-39.9	4.1	0.0	0.0	0.0	43.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	-83.9
31	17564464.27	4818485.37	0.00	0	D	63	-48.0	3.9	0.0	0.0	0.0	43.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-84.5
31	17564464.27	4818485.37	0.00	0	D	125	-34.9	3.9	0.0	0.0	0.0	43.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	-74.9
31	17564464.27	4818485.37	0.00	0	D	250	-32.4	3.9	0.0	0.0	0.0	43.4	0.0	8.9	0.0	0.0	0.0	0.0	0.0	-80.8
31	17564464.27	4818485.37	0.00	0	D	500	-30.0	3.9	0.0	0.0	0.0	43.4	0.1	10.7	0.0	0.0	0.0	0.0	0.0	-80.3
31	17564464.27	4818485.37	0.00	0	D	1000	-29.8	3.9	0.0	0.0	0.0	43.4	0.2	3.2	0.0	0.0	0.0	0.0	0.0	-72.6
31	17564464.27	4818485.37	0.00	0	D	2000	-31.6	3.9	0.0	0.0	0.0	43.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	-71.5
31	17564464.27	4818485.37	0.00	0	D	4000	-35.8	3.9	0.0	0.0	0.0	43.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	-76.6
31	17564464.27	4818485.37	0.00	0	D	8000	-39.9	3.9	0.0	0.0	0.0	43.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	-84.3

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
35	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	50.5	0.0	-3.0	0.0	0.0	9.6	0.0	0.0	3.7
35	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	50.5	0.0	0.7	0.0	0.0	11.9	0.0	0.0	7.8
35	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	50.5	0.1	5.8	0.0	0.0	10.7	0.0	0.0	10.3
35	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	50.5	0.2	4.1	0.0	0.0	15.1	0.0	0.0	5.0
35	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	50.5	0.3	0.5	0.0	0.0	18.5	0.0	0.0	4.1
35	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	50.5	0.9	0.0	0.0	0.0	19.4	0.0	0.0	2.4
35	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	50.5	3.1	0.0	0.0	0.0	19.7	0.0	0.0	-2.3
35	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	50.5	11.0	0.0	0.0	0.0	19.9	0.0	0.0	-18.4

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -DAYTIME

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
39	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	52.8	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	5.8
39	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	52.8	0.1	0.1	0.0	0.0	5.5	0.0	0.0	12.5
39	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	52.8	0.1	5.0	0.0	0.0	1.3	0.0	0.0	18.2
39	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	52.8	0.2	3.3	0.0	0.0	4.0	0.0	0.0	14.4
39	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	52.8	0.4	-0.1	0.0	0.0	9.0	0.0	0.0	11.9
39	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	52.8	1.2	-0.6	0.0	0.0	11.1	0.0	0.0	8.7
39	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	52.8	4.0	-0.6	0.0	0.0	13.6	0.0	0.0	1.2
39	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	52.8	14.3	-0.6	0.0	0.0	16.3	0.0	0.0	-19.9

100% DUTY CYCLE

Receiver
Name: R3
ID: R3
X: 17564480.24 m
Y: 4818557.05 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
5	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	51.8	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	21.7
5	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	51.8	0.0	2.1	0.0	0.0	2.9	0.0	0.0	26.7
5	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	51.8	0.1	0.8	0.0	0.0	4.4	0.0	0.0	32.9
5	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	51.8	0.2	-0.3	0.0	0.0	5.7	0.0	0.0	32.0
5	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	51.8	0.4	-0.3	0.0	0.0	6.4	0.0	0.0	29.3
5	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	51.8	1.1	-0.3	0.0	0.0	7.6	0.0	0.0	25.6
5	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	51.8	3.6	-0.3	0.0	0.0	9.4	0.0	0.0	19.2
5	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	51.8	12.8	-0.3	0.0	0.0	11.5	0.0	0.0	2.7

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
13	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	51.9	0.0	-3.0	0.0	0.0	4.5	0.0	0.0	22.0
13	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	51.9	0.0	1.3	0.0	0.0	4.4	0.0	0.0	25.9
13	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	51.9	0.1	0.3	0.0	0.0	6.6	0.0	0.0	31.1
13	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	51.9	0.2	-0.7	0.0	0.0	8.6	0.0	0.0	29.4
13	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	51.9	0.4	-0.7	0.0	0.0	10.8	0.0	0.0	25.1
13	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	51.9	1.1	-0.7	0.0	0.0	13.4	0.0	0.0	20.1
13	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	51.9	3.6	-0.7	0.0	0.0	16.1	0.0	0.0	12.6
13	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	51.9	13.0	-0.7	0.0	0.0	19.0	0.0	0.0	-4.7

Area Source, ISO 9613, Name: "", ID: ""																				
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)
16	17564463.16	4818485.66	0.00	0	D	63	-48.0	4.1	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-89.3
16	17564463.16	4818485.66	0.00	0	D	125	-34.9	4.1	0.0	0.0	0.0	48.3	0.0	2.4	0.0	0.0	0.0	0.0	0.0	-81.6
16	17564463.16	4818485.66	0.00	0	D	250	-32.4	4.1	0.0	0.0	0.0	48.3	0.1	7.7	0.0	0.0	0.0	0.0	0.0	-84.4
16	17564463.16	4818485.66	0.00	0	D	500	-30.0	4.1	0.0	0.0	0.0	48.3	0.1	10.8	0.0	0.0	0.0	0.0	0.0	-85.2
16	17564463.16	4818485.66	0.00	0	D	1000	-29.8	4.1	0.0	0.0	0.0	48.3	0.3	3.8	0.0	0.0	0.0	0.0	0.0	-78.2
16	17564463.16	4818485.66	0.00	0	D	2000	-31.6	4.1	0.0	0.0	0.0	48.3	0.7	-0.0	0.0	0.0	0.0	0.0	0.0	-76.6
16	17564463.16	4818485.66	0.00	0	D	4000	-35.8	4.1	0.0	0.0	0.0	48.3	2.4	-0.0	0.0	0.0	0.0	0.0	0.0	-82.5
16	17564463.16	4818485.66	0.00	0	D	8000	-39.9	4.1	0.0	0.0	0.0	48.3	8.6	-0.0	0.0	0.0	0.0	0.0	0.0	-92.8
25	17564464.27	4818485.37	0.00	0	D	63	-48.0	3.9	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-89.4
25	17564464.27	4818485.37	0.00	0	D	125	-34.9	3.9	0.0	0.0	0.0	48.3	0.0	2.4	0.0	0.0	0.0	0.0	0.0	-81.7
25	17564464.27	4818485.37	0.00	0	D	250	-32.4	3.9	0.0	0.0	0.0	48.3	0.1	7.6	0.0	0.0	0.0	0.0	0.0	-84.5
25	17564464.27	4818485.37	0.00	0	D	500	-30.0	3.9	0.0	0.0	0.0	48.3	0.1	10.7	0.0	0.0	0.0	0.0	0.0	-85.3
25	17564464.27	4818485.37	0.00	0	D	1000	-29.8	3.9	0.0	0.0	0.0	48.3	0.3	3.8	0.0	0.0	0.0	0.0	0.0	-78.3
25	17564464.27	4818485.37	0.00	0	D	2000	-31.6	3.9	0.0	0.0	0.0	48.3	0.7	-0.0	0.0	0.0	0.0	0.0	0.0	-76.6
25	17564464.27	4818485.37	0.00	0	D	4000	-35.8	3.9	0.0	0.0	0.0	48.3	2.4	-0.0	0.0	0.0	0.0	0.0	0.0	-82.5
25	17564464.27	4818485.37	0.00	0	D	8000	-39.9	3.9	0.0	0.0	0.0	48.3	8.6	-0.0	0.0	0.0	0.0	0.0	0.0	-92.8

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
28	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	5.0	0.0	0.0	7.1
28	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	51.7	0.0	2.6	0.0	0.0	2.6	0.0	0.0	14.0
28	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	51.7	0.1	1.2	0.0	0.0	4.3	0.0	0.0	20.0
28	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	51.7	0.2	0.0	0.0	0.0	6.2	0.0	0.0	16.7
28	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	51.7	0.4	0.0	0.0	0.0	7.3	0.0	0.0	14.6
28	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	51.7	1.0	0.0	0.0	0.0	8.9	0.0	0.0	11.6
28	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	51.7	3.6	0.0	0.0	0.0	11.0	0.0	0.0	4.8
28	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	51.7	12.7	0.0	0.0	0.0	13.4	0.0	0.0	-14.9

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -DAYTIME

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
30	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	52.3	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	6.7
30	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	52.3	0.0	0.7	0.0	0.0	5.1	0.0	0.0	12.8
30	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	52.3	0.1	-0.2	0.0	0.0	7.0	0.0	0.0	18.2
30	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	52.3	0.2	-1.0	0.0	0.0	8.7	0.0	0.0	14.6
30	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	52.3	0.4	-1.0	0.0	0.0	10.9	0.0	0.0	11.4
30	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	52.3	1.1	-1.0	0.0	0.0	13.4	0.0	0.0	7.4
30	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	52.3	3.8	-1.0	0.0	0.0	16.1	0.0	0.0	-0.2
30	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	52.3	13.6	-1.0	0.0	0.0	19.0	0.0	0.0	-20.9

100% DUTY CYCLE

Receiver
Name: R4
ID: R4
X: 17564495.38 m
Y: 4818562.27 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
11	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	51.3	0.0	-3.0	0.0	0.0	5.0	0.0	0.0	22.1
11	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	51.3	0.0	2.5	0.0	0.0	2.7	0.0	0.0	26.9
11	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	51.3	0.1	1.2	0.0	0.0	4.5	0.0	0.0	33.0
11	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	51.3	0.2	0.0	0.0	0.0	6.4	0.0	0.0	31.5
11	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	51.3	0.4	0.0	0.0	0.0	7.6	0.0	0.0	28.4
11	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	51.3	1.0	0.0	0.0	0.0	9.3	0.0	0.0	24.2
11	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	51.3	3.4	0.0	0.0	0.0	11.5	0.0	0.0	17.5
11	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	51.3	12.1	0.0	0.0	0.0	14.0	0.0	0.0	1.2

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
32	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	52.4	0.0	-3.0	0.0	0.0	3.9	0.0	0.0	22.1
32	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	52.4	0.0	0.3	0.0	0.0	4.4	0.0	0.0	26.4
32	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	52.4	0.1	-0.5	0.0	0.0	5.6	0.0	0.0	32.5
32	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	52.4	0.2	-1.2	0.0	0.0	6.7	0.0	0.0	31.3
32	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	52.4	0.4	-1.2	0.0	0.0	8.4	0.0	0.0	27.7
32	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	52.4	1.1	-1.2	0.0	0.0	10.4	0.0	0.0	23.1
32	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	52.4	3.8	-1.2	0.0	0.0	12.9	0.0	0.0	15.8
32	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	52.4	13.7	-1.2	0.0	0.0	15.5	0.0	0.0	-1.8

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
37	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	51.2	0.0	-3.0	0.0	0.0	10.0	0.0	0.0	2.6
37	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	51.2	0.0	2.5	0.0	0.0	10.1	0.0	0.0	7.0
37	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	51.2	0.1	1.2	0.0	0.0	14.1	0.0	0.0	10.8
37	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	51.2	0.2	0.0	0.0	0.0	18.0	0.0	0.0	5.4
37	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	51.2	0.4	0.0	0.0	0.0	19.8	0.0	0.0	2.7
37	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	51.2	1.0	0.0	0.0	0.0	19.9	0.0	0.0	1.2
37	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	51.2	3.3	0.0	0.0	0.0	20.0	0.0	0.0	-3.5
37	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	51.2	11.9	0.0	0.0	0.0	20.0	0.0	0.0	-20.2

Area Source, ISO 9613, Name: "", ID: ""																				
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)
50	17564463.16	4818485.66	0.00	0	D	63	-48.0	4.1	0.0	0.0	0.0	49.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-90.4
50	17564463.16	4818485.66	0.00	0	D	125	-34.9	4.1	0.0	0.0	0.0	49.4	0.0	2.4	0.0	0.0	0.0	0.0	0.0	-82.7
50	17564463.16	4818485.66	0.00	0	D	250	-32.4	4.1	0.0	0.0	0.0	49.4	0.1	8.0	0.0	0.0	0.0	0.0	0.0	-85.8
50	17564463.16	4818485.66	0.00	0	D	500	-30.0	4.1	0.0	0.0	0.0	49.4	0.2	11.3	0.0	0.0	0.0	0.0	0.0	-86.8
50	17564463.16	4818485.66	0.00	0	D	1000	-29.8	4.1	0.0	0.0	0.0	49.4	0.3	4.0	0.0	0.0	0.0	0.0	0.0	-79.4
50	17564463.16	4818485.66	0.00	0	D	2000	-31.6	4.1	0.0	0.0	0.0	49.4	0.8	-0.1	0.0	0.0	0.0	0.0	0.0	-77.7
50	17564463.16	4818485.66	0.00	0	D	4000	-35.8	4.1	0.0	0.0	0.0	49.4	2.7	-0.1	0.0	0.0	0.0	0.0	0.0	-83.8
50	17564463.16	4818485.66	0.00	0	D	8000	-39.9	4.1	0.0	0.0	0.0	49.4	9.7	-0.1	0.0	0.0	0.0	0.0	0.0	-94.9
71	17564464.27	4818485.37	0.00	0	D	63	-48.0	3.9	0.0	0.0	0.0	49.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-90.4
71	17564464.27	4818485.37	0.00	0	D	125	-34.9	3.9	0.0	0.0	0.0	49.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-82.7
71	17564464.27	4818485.37	0.00	0	D	250	-32.4	3.9	0.0	0.0	0.0	49.4	0.1	7.9	0.0	0.0	0.0	0.0	0.0	-85.8
71	17564464.27	4818485.37	0.00	0	D	500	-30.0	3.9	0.0	0.0	0.0	49.4	0.2	11.2	0.0	0.0	0.0	0.0	0.0	-86.8
71	17564464.27	4818485.37	0.00	0	D	1000	-29.8	3.9	0.0	0.0	0.0	49.4	0.3	3.9	0.0	0.0	0.0	0.0	0.0	-79.5
71	17564464.27	4818485.37	0.00	0	D	2000	-31.6	3.9	0.0	0.0	0.0	49.4	0.8	-0.1	0.0	0.0	0.0	0.0	0.0	-77.7
71	17564464.27	4818485.37	0.00	0	D	4000	-35.8	3.9	0.0	0.0	0.0	49.4	2.7	-0.1	0.0	0.0	0.0	0.0	0.0	-83.8
71	17564464.27	4818485.37	0.00	0	D	8000	-39.9	3.9	0.0	0.0	0.0	49.4	9.7	-0.1	0.0	0.0	0.0	0.0	0.0	-94.9

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -DAYTIME

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
81	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	52.7	0.0	-3.0	0.0	0.0	4.3	0.0	0.0	6.8
81	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	52.7	0.0	0.3	0.0	0.0	4.7	0.0	0.0	13.2
81	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	52.7	0.1	-0.5	0.0	0.0	5.8	0.0	0.0	19.3
81	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	52.7	0.2	-1.2	0.0	0.0	7.0	0.0	0.0	16.1
81	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	52.7	0.4	-1.2	0.0	0.0	8.6	0.0	0.0	13.5
81	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	52.7	1.2	-1.2	0.0	0.0	10.7	0.0	0.0	9.9
81	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	52.7	4.0	-1.2	0.0	0.0	13.1	0.0	0.0	2.4
81	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	52.7	14.2	-1.2	0.0	0.0	15.8	0.0	0.0	-18.6

100% DUTY CYCLE

Receiver
Name: R5
ID: R5
X: 17564503.71 m
Y: 4818573.52 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
7	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	18.7
7	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	51.7	0.0	2.6	0.0	0.0	8.6	0.0	0.0	20.7
7	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	51.7	0.1	1.2	0.0	0.0	12.3	0.0	0.0	24.8
7	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	51.7	0.2	0.0	0.0	0.0	16.0	0.0	0.0	21.6
7	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	51.7	0.4	0.0	0.0	0.0	18.6	0.0	0.0	17.0
7	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	51.7	1.0	0.0	0.0	0.0	19.2	0.0	0.0	13.9
7	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	51.7	3.5	0.0	0.0	0.0	19.6	0.0	0.0	8.8
7	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	51.7	12.6	0.0	0.0	0.0	19.8	0.0	0.0	-5.5

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
10	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	53.2	0.0	-3.0	0.0	0.0	3.4	0.0	0.0	21.8
10	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	53.2	0.1	0.7	0.0	0.0	3.4	0.0	0.0	26.2
10	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	53.2	0.1	-0.2	0.0	0.0	4.6	0.0	0.0	32.3
10	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	53.2	0.2	-1.1	0.0	0.0	5.3	0.0	0.0	31.7
10	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	53.2	0.5	-1.1	0.0	0.0	6.2	0.0	0.0	28.8
10	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	53.2	1.2	-1.1	0.0	0.0	7.5	0.0	0.0	24.9
10	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	53.2	4.2	-1.1	0.0	0.0	9.3	0.0	0.0	18.0
10	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	53.2	15.1	-1.1	0.0	0.0	11.5	0.0	0.0	-0.2

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
15	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	51.5	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	2.8
15	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	51.5	0.0	2.5	0.0	0.0	9.7	0.0	0.0	7.1
15	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	51.5	0.1	1.2	0.0	0.0	13.6	0.0	0.0	11.0
15	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	51.5	0.2	0.0	0.0	0.0	17.5	0.0	0.0	5.6
15	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	51.5	0.4	0.0	0.0	0.0	19.6	0.0	0.0	2.6
15	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	51.5	1.0	0.0	0.0	0.0	19.8	0.0	0.0	0.9
15	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	51.5	3.5	0.0	0.0	0.0	19.9	0.0	0.0	-3.9
15	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	51.5	12.4	0.0	0.0	0.0	20.0	0.0	0.0	-20.9

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
22	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	53.5	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	5.5
22	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	53.5	0.1	0.7	0.0	0.0	4.2	0.0	0.0	12.5
22	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	53.5	0.1	-0.2	0.0	0.0	5.0	0.0	0.0	19.1
22	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	53.5	0.3	-1.1	0.0	0.0	5.1	0.0	0.0	17.0
22	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	53.5	0.5	-1.1	0.0	0.0	5.5	0.0	0.0	15.6
22	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	53.5	1.3	-1.1	0.0	0.0	6.1	0.0	0.0	13.4
22	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	53.5	4.4	-1.1	0.0	0.0	7.1	0.0	0.0	7.1
22	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	53.5	15.6	-1.1	0.0	0.0	8.6	0.0	0.0	-13.7

Area Source, ISO 9613, Name: "", ID: ""																				
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)
44	17564463.16	4818485.66	0.00	0	D	63	-48.0	4.1	0.0	0.0	0.0	50.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-91.7
44	17564463.16	4818485.66	0.00	0	D	125	-34.9	4.1	0.0	0.0	0.0	50.7	0.0	2.6	0.0	0.0	0.0	0.0	0.0	-84.2
44	17564463.16	4818485.66	0.00	0	D	250	-32.4	4.1	0.0	0.0	0.0	50.7	0.1	8.4	0.0	0.0	0.0	0.0	0.0	-87.6
44	17564463.16	4818485.66	0.00	0	D	500	-30.0	4.1	0.0	0.0	0.0	50.7	0.2	11.9	0.0	0.0	0.0	0.0	0.0	-88.7
44	17564463.16	4818485.66	0.00	0	D	1000	-29.8	4.1	0.0	0.0	0.0	50.7	0.4	4.2	0.0	0.0	0.0	0.0	0.0	-81.0

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -DAYTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
44	17564463.16	4818485.66	0.00	0	D	2000	-31.6	4.1	0.0	0.0	0.0	50.7	0.9	-0.1	0.0	0.0	0.0	0.0	0.0	-79.1
44	17564463.16	4818485.66	0.00	0	D	4000	-35.8	4.1	0.0	0.0	0.0	50.7	3.2	-0.1	0.0	0.0	0.0	0.0	0.0	-85.6
44	17564463.16	4818485.66	0.00	0	D	8000	-39.9	4.1	0.0	0.0	0.0	50.7	11.3	-0.1	0.0	0.0	0.0	0.0	0.0	-97.8
64	17564464.27	4818485.37	0.00	0	D	63	-48.0	3.9	0.0	0.0	0.0	50.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-91.8
64	17564464.27	4818485.37	0.00	0	D	125	-34.9	3.9	0.0	0.0	0.0	50.7	0.0	2.4	0.0	0.0	0.0	0.0	0.0	-84.1
64	17564464.27	4818485.37	0.00	0	D	250	-32.4	3.9	0.0	0.0	0.0	50.7	0.1	8.3	0.0	0.0	0.0	0.0	0.0	-87.6
64	17564464.27	4818485.37	0.00	0	D	500	-30.0	3.9	0.0	0.0	0.0	50.7	0.2	11.8	0.0	0.0	0.0	0.0	0.0	-88.8
64	17564464.27	4818485.37	0.00	0	D	1000	-29.8	3.9	0.0	0.0	0.0	50.7	0.4	4.1	0.0	0.0	0.0	0.0	0.0	-81.0
64	17564464.27	4818485.37	0.00	0	D	2000	-31.6	3.9	0.0	0.0	0.0	50.7	0.9	-0.1	0.0	0.0	0.0	0.0	0.0	-79.2
64	17564464.27	4818485.37	0.00	0	D	4000	-35.8	3.9	0.0	0.0	0.0	50.7	3.2	-0.1	0.0	0.0	0.0	0.0	0.0	-85.6
64	17564464.27	4818485.37	0.00	0	D	8000	-39.9	3.9	0.0	0.0	0.0	50.7	11.3	-0.1	0.0	0.0	0.0	0.0	0.0	-97.8

100% DUTY CYCLE

Receiver
Name: R6
ID: R6
X: 17564514.63 m
Y: 4818582.05 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
24	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	51.9	0.0	-3.0	0.0	0.0	7.9	0.0	0.0	18.6
24	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	51.9	0.0	2.6	0.0	0.0	8.7	0.0	0.0	20.3
24	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	51.9	0.1	1.2	0.0	0.0	12.6	0.0	0.0	24.2
24	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	51.9	0.2	0.0	0.0	0.0	16.4	0.0	0.0	20.9
24	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	51.9	0.4	0.0	0.0	0.0	19.0	0.0	0.0	16.3
24	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	51.9	1.1	0.0	0.0	0.0	19.5	0.0	0.0	13.4
24	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	51.9	3.6	0.0	0.0	0.0	19.7	0.0	0.0	8.4
24	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	51.9	12.9	0.0	0.0	0.0	19.9	0.0	0.0	-6.1

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
48	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	53.9	0.0	-3.0	0.0	0.0	3.0	0.0	0.0	21.5
48	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	53.9	0.1	0.9	0.0	0.0	2.8	0.0	0.0	25.8
48	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	53.9	0.1	-0.1	0.0	0.0	4.1	0.0	0.0	32.0
48	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	53.9	0.3	-0.9	0.0	0.0	4.5	0.0	0.0	31.7
48	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	53.9	0.5	-0.9	0.0	0.0	4.9	0.0	0.0	29.2
48	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	53.9	1.3	-0.9	0.0	0.0	5.4	0.0	0.0	26.1
48	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	53.9	4.6	-0.9	0.0	0.0	6.2	0.0	0.0	19.9
48	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	53.9	16.3	-0.9	0.0	0.0	7.3	0.0	0.0	2.0

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
53	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	9.1	0.0	0.0	3.0
53	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	51.7	0.0	2.6	0.0	0.0	9.5	0.0	0.0	7.1
53	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	51.7	0.1	1.2	0.0	0.0	13.4	0.0	0.0	11.0
53	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	51.7	0.2	0.0	0.0	0.0	17.3	0.0	0.0	5.6
53	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	51.7	0.4	0.0	0.0	0.0	19.4	0.0	0.0	2.5
53	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	51.7	1.0	0.0	0.0	0.0	19.7	0.0	0.0	0.8
53	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	51.7	3.5	0.0	0.0	0.0	19.9	0.0	0.0	-4.1
53	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	51.7	12.6	0.0	0.0	0.0	19.9	0.0	0.0	-21.3

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
74	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	54.1	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	4.9
74	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	54.1	0.1	0.9	0.0	0.0	3.8	0.0	0.0	11.9
74	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	54.1	0.1	-0.1	0.0	0.0	4.8	0.0	0.0	18.4
74	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	54.1	0.3	-1.0	0.0	0.0	4.8	0.0	0.0	16.6
74	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	54.1	0.5	-1.0	0.0	0.0	4.8	0.0	0.0	15.5
74	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	54.1	1.4	-1.0	0.0	0.0	4.9	0.0	0.0	13.8
74	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	54.1	4.7	-1.0	0.0	0.0	5.0	0.0	0.0	8.2
74	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	54.1	16.7	-1.0	0.0	0.0	5.2	0.0	0.0	-12.1

Area Source, ISO 9613, Name: "", ID: ""																				
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)
76	17564463.16	4818485.66	0.00	0	D	63	-48.0	4.1	0.0	0.0	0.0	51.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-92.7
76	17564463.16	4818485.66	0.00	0	D	125	-34.9	4.1	0.0	0.0	0.0	51.8	0.0	2.6	0.0	0.0	0.0	0.0	0.0	-85.3
76	17564463.16	4818485.66	0.00	0	D	250	-32.4	4.1	0.0	0.0	0.0	51.8	0.1	8.7	0.0	0.0	0.0	0.0	0.0	-88.9
76	17564463.16	4818485.66	0.00	0	D	500	-30.0	4.1	0.0	0.0	0.0	51.8	0.2	12.3	0.0	0.0	0.0	0.0	0.0	-90.2
76	17564463.16	4818485.66	0.00	0	D	1000	-29.8	4.1	0.0	0.0	0.0	51.8	0.4	4.3	0.0	0.0	0.0	0.0	0.0	-82.2

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -DAYTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
76	17564463.16	4818485.66	0.00	0	D	2000	-31.6	4.1	0.0	0.0	0.0	51.8	1.1	-0.1	0.0	0.0	0.0	0.0	0.0	-80.3
76	17564463.16	4818485.66	0.00	0	D	4000	-35.8	4.1	0.0	0.0	0.0	51.8	3.6	-0.1	0.0	0.0	0.0	0.0	0.0	-87.0
76	17564463.16	4818485.66	0.00	0	D	8000	-39.9	4.1	0.0	0.0	0.0	51.8	12.8	-0.1	0.0	0.0	0.0	0.0	0.0	-100.3
97	17564464.27	4818485.37	0.00	0	D	63	-48.0	3.9	0.0	0.0	0.0	51.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-92.8
97	17564464.27	4818485.37	0.00	0	D	125	-34.9	3.9	0.0	0.0	0.0	51.8	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-85.3
97	17564464.27	4818485.37	0.00	0	D	250	-32.4	3.9	0.0	0.0	0.0	51.8	0.1	8.6	0.0	0.0	0.0	0.0	0.0	-88.9
97	17564464.27	4818485.37	0.00	0	D	500	-30.0	3.9	0.0	0.0	0.0	51.8	0.2	12.3	0.0	0.0	0.0	0.0	0.0	-90.3
97	17564464.27	4818485.37	0.00	0	D	1000	-29.8	3.9	0.0	0.0	0.0	51.8	0.4	4.3	0.0	0.0	0.0	0.0	0.0	-82.3
97	17564464.27	4818485.37	0.00	0	D	2000	-31.6	3.9	0.0	0.0	0.0	51.8	1.1	-0.2	0.0	0.0	0.0	0.0	0.0	-80.3
97	17564464.27	4818485.37	0.00	0	D	4000	-35.8	3.9	0.0	0.0	0.0	51.8	3.6	-0.2	0.0	0.0	0.0	0.0	0.0	-87.0
97	17564464.27	4818485.37	0.00	0	D	8000	-39.9	3.9	0.0	0.0	0.0	51.8	12.8	-0.2	0.0	0.0	0.0	0.0	0.0	-100.3

100% DUTY CYCLE

Receiver
Name: R7
ID: R7
X: 17564525.85 m
Y: 4818594.11 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
8	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	52.4	0.0	-3.0	0.0	0.0	8.2	0.0	0.0	17.8
8	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	52.4	0.0	2.6	0.0	0.0	8.7	0.0	0.0	19.7
8	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	52.4	0.1	1.2	0.0	0.0	12.6	0.0	0.0	23.6
8	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	52.4	0.2	0.0	0.0	0.0	16.5	0.0	0.0	20.3
8	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	52.4	0.4	0.0	0.0	0.0	19.3	0.0	0.0	15.5
8	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	52.4	1.1	0.0	0.0	0.0	19.7	0.0	0.0	12.6
8	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	52.4	3.9	0.0	0.0	0.0	19.8	0.0	0.0	7.5
8	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	52.4	13.8	0.0	0.0	0.0	19.9	0.0	0.0	-7.6

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
14	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	54.7	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	18.9
14	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	54.7	0.1	1.1	0.0	0.0	3.7	0.0	0.0	24.0
14	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	54.7	0.2	0.0	0.0	0.0	4.7	0.0	0.0	30.4
14	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	54.7	0.3	-0.9	0.0	0.0	4.8	0.0	0.0	30.5
14	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	54.7	0.6	-0.9	0.0	0.0	4.8	0.0	0.0	28.4
14	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	54.7	1.5	-0.9	0.0	0.0	4.8	0.0	0.0	25.7
14	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	54.7	5.0	-0.9	0.0	0.0	4.8	0.0	0.0	19.9
14	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	54.7	18.0	-0.9	0.0	0.0	4.8	0.0	0.0	1.9

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
26	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	52.2	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	2.7
26	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	52.2	0.0	2.6	0.0	0.0	9.3	0.0	0.0	6.8
26	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	52.2	0.1	1.2	0.0	0.0	13.2	0.0	0.0	10.6
26	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	52.2	0.2	0.0	0.0	0.0	17.1	0.0	0.0	5.2
26	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	52.2	0.4	0.0	0.0	0.0	19.5	0.0	0.0	1.9
26	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	52.2	1.1	0.0	0.0	0.0	19.8	0.0	0.0	0.1
26	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	52.2	3.8	0.0	0.0	0.0	19.9	0.0	0.0	-4.9
26	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	52.2	13.4	0.0	0.0	0.0	19.9	0.0	0.0	-22.7

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
29	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	54.9	0.0	-3.0	0.0	0.0	1.8	0.0	0.0	7.1
29	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	54.9	0.1	1.1	0.0	0.0	1.2	0.0	0.0	13.6
29	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	54.9	0.2	0.0	0.0	0.0	1.7	0.0	0.0	20.5
29	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	54.9	0.3	-0.9	0.0	0.0	1.8	0.0	0.0	18.7
29	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	54.9	0.6	-0.9	0.0	0.0	1.8	0.0	0.0	17.6
29	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	54.9	1.5	-0.9	0.0	0.0	1.8	0.0	0.0	15.8
29	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	54.9	5.1	-0.9	0.0	0.0	1.8	0.0	0.0	10.0
29	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	54.9	18.4	-0.9	0.0	0.0	1.9	0.0	0.0	-11.4

Area Source, ISO 9613, Name: "", ID: ""																				
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)
59	17564463.16	4818485.66	0.00	0	D	63	-48.0	4.1	0.0	0.0	0.0	53.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-93.9
59	17564463.16	4818485.66	0.00	0	D	125	-34.9	4.1	0.0	0.0	0.0	53.0	0.1	2.7	0.0	0.0	0.0	0.0	0.0	-86.6
59	17564463.16	4818485.66	0.00	0	D	250	-32.4	4.1	0.0	0.0	0.0	53.0	0.1	8.9	0.0	0.0	0.0	0.0	0.0	-90.4
59	17564463.16	4818485.66	0.00	0	D	500	-30.0	4.1	0.0	0.0	0.0	53.0	0.2	12.7	0.0	0.0	0.0	0.0	0.0	-91.9
59	17564463.16	4818485.66	0.00	0	D	1000	-29.8	4.1	0.0	0.0	0.0	53.0	0.5	4.5	0.0	0.0	0.0	0.0	0.0	-83.6

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -DAYTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
59	17564463.16	4818485.66	0.00	0	D	2000	-31.6	4.1	0.0	0.0	0.0	53.0	1.2	-0.1	0.0	0.0	0.0	0.0	0.0	-81.6
59	17564463.16	4818485.66	0.00	0	D	4000	-35.8	4.1	0.0	0.0	0.0	53.0	4.1	-0.1	0.0	0.0	0.0	0.0	0.0	-88.7
59	17564463.16	4818485.66	0.00	0	D	8000	-39.9	4.1	0.0	0.0	0.0	53.0	14.7	-0.1	0.0	0.0	0.0	0.0	0.0	-103.3
63	17564464.27	4818485.37	0.00	0	D	63	-48.0	3.9	0.0	0.0	0.0	52.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-94.0
63	17564464.27	4818485.37	0.00	0	D	125	-34.9	3.9	0.0	0.0	0.0	52.9	0.1	2.6	0.0	0.0	0.0	0.0	0.0	-86.6
63	17564464.27	4818485.37	0.00	0	D	250	-32.4	3.9	0.0	0.0	0.0	52.9	0.1	8.9	0.0	0.0	0.0	0.0	0.0	-90.4
63	17564464.27	4818485.37	0.00	0	D	500	-30.0	3.9	0.0	0.0	0.0	52.9	0.2	12.7	0.0	0.0	0.0	0.0	0.0	-91.9
63	17564464.27	4818485.37	0.00	0	D	1000	-29.8	3.9	0.0	0.0	0.0	52.9	0.5	4.4	0.0	0.0	0.0	0.0	0.0	-83.7
63	17564464.27	4818485.37	0.00	0	D	2000	-31.6	3.9	0.0	0.0	0.0	52.9	1.2	-0.2	0.0	0.0	0.0	0.0	0.0	-81.6
63	17564464.27	4818485.37	0.00	0	D	4000	-35.8	3.9	0.0	0.0	0.0	52.9	4.1	-0.2	0.0	0.0	0.0	0.0	0.0	-88.7
63	17564464.27	4818485.37	0.00	0	D	8000	-39.9	3.9	0.0	0.0	0.0	52.9	14.6	-0.2	0.0	0.0	0.0	0.0	0.0	-103.3

100% DUTY CYCLE

Receiver
Name: R8
ID: R8
X: 17564543.27 m
Y: 4818381.98 m
Z: 13.50 m

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
12	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	50.8	0.0	-3.0	0.0	0.0	8.5	0.0	0.0	19.1
12	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	50.8	0.0	-0.9	0.0	0.0	10.9	0.0	0.0	22.8
12	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	50.8	0.1	-0.9	0.0	0.0	13.5	0.0	0.0	26.7
12	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	50.8	0.2	-0.9	0.0	0.0	16.2	0.0	0.0	23.2
12	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	50.8	0.4	-0.9	0.0	0.0	19.1	0.0	0.0	18.4
12	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	50.8	0.9	-0.9	0.0	0.0	19.9	0.0	0.0	15.2
12	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	50.8	3.2	-0.9	0.0	0.0	19.9	0.0	0.0	10.7
12	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	50.8	11.4	-0.9	0.0	0.0	20.0	0.0	0.0	-2.6

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
45	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	3.9	0.0	0.0	22.9
45	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	51.6	0.0	-1.7	0.0	0.0	4.7	0.0	0.0	28.9
45	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	51.6	0.1	-1.7	0.0	0.0	5.6	0.0	0.0	34.4
45	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	51.6	0.2	-1.7	0.0	0.0	6.8	0.0	0.0	32.5
45	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	51.6	0.4	-1.7	0.0	0.0	8.5	0.0	0.0	28.8
45	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	51.6	1.0	-1.7	0.0	0.0	10.6	0.0	0.0	24.3
45	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	51.6	3.5	-1.7	0.0	0.0	13.1	0.0	0.0	17.1
45	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	51.6	12.5	-1.7	0.0	0.0	15.8	0.0	0.0	0.3

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
56	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	50.1	0.0	-3.0	0.0	0.0	8.1	0.0	0.0	5.6
56	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	50.1	0.0	-1.0	0.0	0.0	10.3	0.0	0.0	11.5
56	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	50.1	0.1	-1.0	0.0	0.0	12.9	0.0	0.0	15.4
56	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	50.1	0.2	-1.0	0.0	0.0	15.6	0.0	0.0	10.0
56	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	50.1	0.3	-1.0	0.0	0.0	18.4	0.0	0.0	6.2
56	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	50.1	0.9	-1.0	0.0	0.0	19.9	0.0	0.0	3.4
56	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	50.1	3.0	-1.0	0.0	0.0	19.9	0.0	0.0	-1.0
56	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	50.1	10.5	-1.0	0.0	0.0	20.0	0.0	0.0	-16.7

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
60	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	51.9	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	7.1
60	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	51.9	0.0	-1.7	0.0	0.0	5.6	0.0	0.0	15.1
60	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	51.9	0.1	-1.7	0.0	0.0	6.7	0.0	0.0	20.4
60	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	51.9	0.2	-1.7	0.0	0.0	8.3	0.0	0.0	16.1
60	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	51.9	0.4	-1.7	0.0	0.0	10.3	0.0	0.0	13.1
60	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	51.9	1.1	-1.7	0.0	0.0	12.7	0.0	0.0	9.2
60	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	51.9	3.6	-1.7	0.0	0.0	15.4	0.0	0.0	1.8
60	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	51.9	12.9	-1.7	0.0	0.0	18.2	0.0	0.0	-18.4

Area Source, ISO 9613, Name: "", ID: ""																				
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)
73	17564463.16	4818485.66	0.00	0	D	63	-48.0	4.1	0.0	0.0	0.0	53.4	0.0	-3.0	0.0	0.0	12.2	0.0	0.0	-106.6
73	17564463.16	4818485.66	0.00	0	D	125	-34.9	4.1	0.0	0.0	0.0	53.4	0.1	0.1	0.0	0.0	15.5	0.0	0.0	-99.9
73	17564463.16	4818485.66	0.00	0	D	250	-32.4	4.1	0.0	0.0	0.0	53.4	0.1	7.6	0.0	0.0	15.2	0.0	0.0	-104.7
73	17564463.16	4818485.66	0.00	0	D	500	-30.0	4.1	0.0	0.0	0.0	53.4	0.3	12.6	0.0	0.0	12.0	0.0	0.0	-104.2
73	17564463.16	4818485.66	0.00	0	D	1000	-29.8	4.1	0.0	0.0	0.0	53.4	0.5	4.3	0.0	0.0	19.4	0.0	0.0	-103.3

Area Source, ISO 9613, Name: "", ID: ""																				
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)
73	17564463.16	4818485.66	0.00	0	D	2000	-31.6	4.1	0.0	0.0	0.0	53.4	1.3	-0.3	0.0	0.0	23.4	0.0	0.0	-105.2
73	17564463.16	4818485.66	0.00	0	D	4000	-35.8	4.1	0.0	0.0	0.0	53.4	4.3	-0.3	0.0	0.0	24.1	0.0	0.0	-113.2
73	17564463.16	4818485.66	0.00	0	D	8000	-39.9	4.1	0.0	0.0	0.0	53.4	15.4	-0.3	0.0	0.0	24.5	0.0	0.0	-128.8
82	17564463.21	4818484.92	0.00	1	D	125	-34.9	-10.2	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.4	0.0	2.0	-128.3
82	17564463.21	4818484.92	0.00	1	D	250	-32.4	-10.2	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-126.1
82	17564463.21	4818484.92	0.00	1	D	500	-30.0	-10.2	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-123.8
82	17564463.21	4818484.92	0.00	1	D	1000	-29.8	-10.2	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-124.0
82	17564463.21	4818484.92	0.00	1	D	2000	-31.6	-10.2	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-126.6
82	17564463.21	4818484.92	0.00	1	D	4000	-35.8	-10.2	0.0	0.0	0.0	56.3	6.0	-0.2	0.0	0.0	25.0	0.0	2.0	-135.1
82	17564463.21	4818484.92	0.00	1	D	8000	-39.9	-10.2	0.0	0.0	0.0	56.3	21.5	-0.2	0.0	0.0	25.0	0.0	2.0	-154.7
84	17564463.13	4818485.76	0.00	1	D	125	-34.9	3.7	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.5	0.0	2.0	-114.5
84	17564463.13	4818485.76	0.00	1	D	250	-32.4	3.7	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-112.2
84	17564463.13	4818485.76	0.00	1	D	500	-30.0	3.7	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-110.0
84	17564463.13	4818485.76	0.00	1	D	1000	-29.8	3.7	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-110.1
84	17564463.13	4818485.76	0.00	1	D	2000	-31.6	3.7	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-112.8
84	17564463.13	4818485.76	0.00	1	D	4000	-35.8	3.7	0.0	0.0	0.0	56.3	6.0	-0.2	0.0	0.0	25.0	0.0	2.0	-121.2
84	17564463.13	4818485.76	0.00	1	D	8000	-39.9	3.7	0.0	0.0	0.0	56.3	21.5	-0.2	0.0	0.0	25.0	0.0	2.0	-140.8
86	17564464.27	4818485.37	0.00	0	D	63	-48.0	3.9	0.0	0.0	0.0	53.3	0.0	-3.0	0.0	0.0	10.3	0.0	0.0	-104.6
86	17564464.27	4818485.37	0.00	0	D	125	-34.9	3.9	0.0	0.0	0.0	53.3	0.1	0.1	0.0	0.0	13.4	0.0	0.0	-97.7
86	17564464.27	4818485.37	0.00	0	D	250	-32.4	3.9	0.0	0.0	0.0	53.3	0.1	7.6	0.0	0.0	14.6	0.0	0.0	-104.1
86	17564464.27	4818485.37	0.00	0	D	500	-30.0	3.9	0.0	0.0	0.0	53.3	0.3	12.6	0.0	0.0	11.9	0.0	0.0	-104.2
86	17564464.27	4818485.37	0.00	0	D	1000	-29.8	3.9	0.0	0.0	0.0	53.3	0.5	4.3	0.0	0.0	19.4	0.0	0.0	-103.3
86	17564464.27	4818485.37	0.00	0	D	2000	-31.6	3.9	0.0	0.0	0.0	53.3	1.3	-0.3	0.0	0.0	23.3	0.0	0.0	-105.2
86	17564464.27	4818485.37	0.00	0	D	4000	-35.8	3.9	0.0	0.0	0.0	53.3	4.3	-0.3	0.0	0.0	24.1	0.0	0.0	-113.2
86	17564464.27	4818485.37	0.00	0	D	8000	-39.9	3.9	0.0	0.0	0.0	53.3	15.3	-0.3	0.0	0.0	24.5	0.0	0.0	-128.7
87	17564463.99	4818486.30	0.00	1	D	125	-34.9	-4.2	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.5	0.0	2.0	-122.4
87	17564463.99	4818486.30	0.00	1	D	250	-32.4	-4.2	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-120.1
87	17564463.99	4818486.30	0.00	1	D	500	-30.0	-4.2	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-117.9
87	17564463.99	4818486.30	0.00	1	D	1000	-29.8	-4.2	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-118.0
87	17564463.99	4818486.30	0.00	1	D	2000	-31.6	-4.2	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-120.7
87	17564463.99	4818486.30	0.00	1	D	4000	-35.8	-4.2	0.0	0.0	0.0	56.3	6.0	-0.2	0.0	0.0	25.0	0.0	2.0	-129.1
87	17564463.99	4818486.30	0.00	1	D	8000	-39.9	-4.2	0.0	0.0	0.0	56.3	21.5	-0.2	0.0	0.0	25.0	0.0	2.0	-148.7
94	17564464.31	4818485.21	0.00	1	D	125	-34.9	3.2	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.4	0.0	2.0	-114.9
94	17564464.31	4818485.21	0.00	1	D	250	-32.4	3.2	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-112.7
94	17564464.31	4818485.21	0.00	1	D	500	-30.0	3.2	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-110.5
94	17564464.31	4818485.21	0.00	1	D	1000	-29.8	3.2	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-110.6
94	17564464.31	4818485.21	0.00	1	D	2000	-31.6	3.2	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-113.3
94	17564464.31	4818485.21	0.00	1	D	4000	-35.8	3.2	0.0	0.0	0.0	56.3	6.1	-0.2	0.0	0.0	25.0	0.0	2.0	-121.8
94	17564464.31	4818485.21	0.00	1	D	8000	-39.9	3.2	0.0	0.0	0.0	56.3	21.6	-0.2	0.0	0.0	25.0	0.0	2.0	-141.4

Receiver
Name: R9
ID: R9
X: 17564639.58 m
Y: 4818424.29 m
Z: 13.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
17	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	1.8	0.0	0.0	25.0
17	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	51.6	0.0	-1.7	0.0	0.0	1.8	0.0	0.0	31.8
17	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	51.6	0.1	-1.7	0.0	0.0	1.8	0.0	0.0	38.3
17	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	51.6	0.2	-1.7	0.0	0.0	1.8	0.0	0.0	37.6
17	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	51.6	0.4	-1.7	0.0	0.0	1.8	0.0	0.0	35.6
17	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	51.6	1.0	-1.7	0.0	0.0	1.8	0.0	0.0	33.1
17	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	51.6	3.5	-1.7	0.0	0.0	1.9	0.0	0.0	28.3
17	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	51.6	12.5	-1.7	0.0	0.0	2.0	0.0	0.0	14.1

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
20	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	55.3	0.0	-3.0	0.0	0.0	2.2	0.0	0.0	21.0
20	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	55.3	0.1	-1.8	0.0	0.0	2.5	0.0	0.0	27.5
20	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	55.3	0.2	-1.8	0.0	0.0	2.9	0.0	0.0	33.5
20	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	55.3	0.3	-1.8	0.0	0.0	3.4	0.0	0.0	32.2
20	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	55.3	0.6	-1.8	0.0	0.0	3.9	0.0	0.0	29.7
20	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	55.3	1.6	-1.8	0.0	0.0	4.3	0.0	0.0	26.5
20	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	55.3	5.4	-1.8	0.0	0.0	4.6	0.0	0.0	20.2
20	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	55.3	19.1	-1.8	0.0	0.0	4.9	0.0	0.0	1.1

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
33	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	7.3
33	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	51.6	0.0	-1.7	0.0	0.0	5.1	0.0	0.0	15.9
33	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	51.6	0.1	-1.7	0.0	0.0	5.3	0.0	0.0	22.1
33	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	51.6	0.2	-1.7	0.0	0.0	5.8	0.0	0.0	18.9
33	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	51.6	0.4	-1.7	0.0	0.0	6.6	0.0	0.0	17.1
33	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	51.6	1.0	-1.7	0.0	0.0	7.9	0.0	0.0	14.4
33	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	51.6	3.5	-1.7	0.0	0.0	9.7	0.0	0.0	7.9
33	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	51.6	12.5	-1.7	0.0	0.0	12.0	0.0	0.0	-11.5

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
55	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	55.0	0.0	-3.0	0.0	0.0	1.9	0.0	0.0	6.9
55	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	55.0	0.1	-1.9	0.0	0.0	2.0	0.0	0.0	15.8
55	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	55.0	0.2	-1.9	0.0	0.0	2.2	0.0	0.0	22.0
55	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	55.0	0.3	-1.9	0.0	0.0	2.5	0.0	0.0	19.0
55	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	55.0	0.6	-1.9	0.0	0.0	2.9	0.0	0.0	17.5
55	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	55.0	1.5	-1.9	0.0	0.0	3.5	0.0	0.0	15.1
55	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	55.0	5.2	-1.9	0.0	0.0	4.1	0.0	0.0	8.7
55	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	55.0	18.4	-1.9	0.0	0.0	4.8	0.0	0.0	-13.4

Area Source, ISO 9613, Name: "", ID: ""																				
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)
70	17564463.36	4818485.01	0.00	0	D	63	-48.0	0.2	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	7.9	0.0	0.0	-109.2
70	17564463.36	4818485.01	0.00	0	D	125	-34.9	0.2	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.0	0.0	0.0	-101.0
70	17564463.36	4818485.01	0.00	0	D	250	-32.4	0.2	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.4	0.0	0.0	-107.8
70	17564463.36	4818485.01	0.00	0	D	500	-30.0	0.2	0.0	0.0	0.0	56.4	0.4	12.8	0.0	0.0	10.5	0.0	0.0	-109.9
70	17564463.36	4818485.01	0.00	0	D	1000	-29.8	0.2	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.3	0.0	0.0	-107.0

Area Source, ISO 9613, Name: "", ID: ""																				
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)
70	17564463.36	4818485.01	0.00	0	D	2000	-31.6	0.2	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.5	0.0	0.0	-108.3
70	17564463.36	4818485.01	0.00	0	D	4000	-35.8	0.2	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.4	0.0	0.0	-118.7
70	17564463.36	4818485.01	0.00	0	D	8000	-39.9	0.2	0.0	0.0	0.0	56.4	21.8	-0.9	0.0	0.0	22.8	0.0	0.0	-140.0
88	17564462.93	4818485.59	0.00	0	D	63	-48.0	-12.3	0.0	0.0	0.0	56.5	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	-121.7
88	17564462.93	4818485.59	0.00	0	D	125	-34.9	-12.3	0.0	0.0	0.0	56.5	0.1	-0.2	0.0	0.0	10.1	0.0	0.0	-113.6
88	17564462.93	4818485.59	0.00	0	D	250	-32.4	-12.3	0.0	0.0	0.0	56.5	0.2	7.5	0.0	0.0	11.5	0.0	0.0	-120.3
88	17564462.93	4818485.59	0.00	0	D	500	-30.0	-12.3	0.0	0.0	0.0	56.5	0.4	12.8	0.0	0.0	10.5	0.0	0.0	-122.4
88	17564462.93	4818485.59	0.00	0	D	1000	-29.8	-12.3	0.0	0.0	0.0	56.5	0.7	4.0	0.0	0.0	16.4	0.0	0.0	-119.6
88	17564462.93	4818485.59	0.00	0	D	2000	-31.6	-12.3	0.0	0.0	0.0	56.5	1.8	-0.9	0.0	0.0	19.6	0.0	0.0	-120.9
88	17564462.93	4818485.59	0.00	0	D	4000	-35.8	-12.3	0.0	0.0	0.0	56.5	6.1	-0.9	0.0	0.0	21.5	0.0	0.0	-131.3
88	17564462.93	4818485.59	0.00	0	D	8000	-39.9	-12.3	0.0	0.0	0.0	56.5	21.9	-0.9	0.0	0.0	22.9	0.0	0.0	-152.6
95	17564463.02	4818486.13	0.00	0	D	63	-48.0	1.6	0.0	0.0	0.0	56.5	0.0	-3.0	0.0	0.0	8.1	0.0	0.0	-108.0
95	17564463.02	4818486.13	0.00	0	D	125	-34.9	1.6	0.0	0.0	0.0	56.5	0.1	-0.2	0.0	0.0	10.3	0.0	0.0	-99.9
95	17564463.02	4818486.13	0.00	0	D	250	-32.4	1.6	0.0	0.0	0.0	56.5	0.2	7.5	0.0	0.0	11.7	0.0	0.0	-106.6
95	17564463.02	4818486.13	0.00	0	D	500	-30.0	1.6	0.0	0.0	0.0	56.5	0.4	12.8	0.0	0.0	10.6	0.0	0.0	-108.6
95	17564463.02	4818486.13	0.00	0	D	1000	-29.8	1.6	0.0	0.0	0.0	56.5	0.7	4.0	0.0	0.0	16.6	0.0	0.0	-105.9
95	17564463.02	4818486.13	0.00	0	D	2000	-31.6	1.6	0.0	0.0	0.0	56.5	1.8	-0.9	0.0	0.0	19.8	0.0	0.0	-107.2
95	17564463.02	4818486.13	0.00	0	D	4000	-35.8	1.6	0.0	0.0	0.0	56.5	6.1	-0.9	0.0	0.0	21.7	0.0	0.0	-117.6
95	17564463.02	4818486.13	0.00	0	D	8000	-39.9	1.6	0.0	0.0	0.0	56.5	21.9	-0.9	0.0	0.0	23.0	0.0	0.0	-138.8
100	17564464.10	4818485.94	0.00	0	D	63	-48.0	0.7	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	8.2	0.0	0.0	-108.9
100	17564464.10	4818485.94	0.00	0	D	125	-34.9	0.7	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.4	0.0	0.0	-100.8
100	17564464.10	4818485.94	0.00	0	D	250	-32.4	0.7	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.7	0.0	0.0	-107.5
100	17564464.10	4818485.94	0.00	0	D	500	-30.0	0.7	0.0	0.0	0.0	56.4	0.4	12.7	0.0	0.0	10.6	0.0	0.0	-109.5
100	17564464.10	4818485.94	0.00	0	D	1000	-29.8	0.7	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.6	0.0	0.0	-106.8
100	17564464.10	4818485.94	0.00	0	D	2000	-31.6	0.7	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.9	0.0	0.0	-108.1
100	17564464.10	4818485.94	0.00	0	D	4000	-35.8	0.7	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.7	0.0	0.0	-118.4
100	17564464.10	4818485.94	0.00	0	D	8000	-39.9	0.7	0.0	0.0	0.0	56.4	21.8	-0.9	0.0	0.0	23.0	0.0	0.0	-139.5
103	17564464.50	4818485.19	0.00	0	D	63	-48.0	-3.3	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	-112.7
103	17564464.50	4818485.19	0.00	0	D	125	-34.9	-3.3	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.2	0.0	0.0	-104.6
103	17564464.50	4818485.19	0.00	0	D	250	-32.4	-3.3	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.6	0.0	0.0	-111.3
103	17564464.50	4818485.19	0.00	0	D	500	-30.0	-3.3	0.0	0.0	0.0	56.4	0.4	12.8	0.0	0.0	10.6	0.0	0.0	-113.3
103	17564464.50	4818485.19	0.00	0	D	1000	-29.8	-3.3	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.5	0.0	0.0	-110.6
103	17564464.50	4818485.19	0.00	0	D	2000	-31.6	-3.3	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.7	0.0	0.0	-111.9
103	17564464.50	4818485.19	0.00	0	D	4000	-35.8	-3.3	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.6	0.0	0.0	-122.2
103	17564464.50	4818485.19	0.00	0	D	8000	-39.9	-3.3	0.0	0.0	0.0	56.4	21.7	-0.9	0.0	0.0	23.0	0.0	0.0	-143.3
106	17564464.37	4818484.66	0.00	0	D	63	-48.0	-0.8	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	7.9	0.0	0.0	-110.1
106	17564464.37	4818484.66	0.00	0	D	125	-34.9	-0.8	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.0	0.0	0.0	-101.9
106	17564464.37	4818484.66	0.00	0	D	250	-32.4	-0.8	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.4	0.0	0.0	-108.7
106	17564464.37	4818484.66	0.00	0	D	500	-30.0	-0.8	0.0	0.0	0.0	56.4	0.4	12.8	0.0	0.0	10.5	0.0	0.0	-110.8
106	17564464.37	4818484.66	0.00	0	D	1000	-29.8	-0.8	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.3	0.0	0.0	-107.9
106	17564464.37	4818484.66	0.00	0	D	2000	-31.6	-0.8	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.5	0.0	0.0	-109.2
106	17564464.37	4818484.66	0.00	0	D	4000	-35.8	-0.8	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.4	0.0	0.0	-119.6
106	17564464.37	4818484.66	0.00	0	D	8000	-39.9	-0.8	0.0	0.0	0.0	56.4	21.7	-0.9	0.0	0.0	22.9	0.0	0.0	-140.8

Receiver
Name: R10
ID: R10
X: 17564604.27 m
Y: 4818482.64 m
Z: 13.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
21	17564554.95	4818485.17	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	7.3	0.0	0.0	25.2
21	17564554.95	4818485.17	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	45.9	0.0	-1.3	0.0	0.0	9.3	0.0	0.0	29.5
21	17564554.95	4818485.17	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	45.9	0.1	-1.3	0.0	0.0	11.7	0.0	0.0	33.6
21	17564554.95	4818485.17	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	45.9	0.1	-1.3	0.0	0.0	14.4	0.0	0.0	30.3
21	17564554.95	4818485.17	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	45.9	0.2	-1.3	0.0	0.0	17.2	0.0	0.0	25.5
21	17564554.95	4818485.17	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	45.9	0.5	-1.3	0.0	0.0	19.6	0.0	0.0	21.1
21	17564554.95	4818485.17	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	45.9	1.8	-1.3	0.0	0.0	19.8	0.0	0.0	17.4
21	17564554.95	4818485.17	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	45.9	6.5	-1.3	0.0	0.0	19.9	0.0	0.0	7.5

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
34	17564480.26	4818451.47	39.00	0	D	63	75.4	0.0	0.0	0.0	0.0	53.3	0.0	-3.0	0.0	0.0	10.1	0.0	0.0	15.0
34	17564480.26	4818451.47	39.00	0	D	125	83.5	0.0	0.0	0.0	0.0	53.3	0.1	-1.1	0.0	0.0	12.6	0.0	0.0	18.7
34	17564480.26	4818451.47	39.00	0	D	250	90.0	0.0	0.0	0.0	0.0	53.3	0.1	-1.1	0.0	0.0	15.3	0.0	0.0	22.4
34	17564480.26	4818451.47	39.00	0	D	500	89.4	0.0	0.0	0.0	0.0	53.3	0.3	-1.1	0.0	0.0	18.1	0.0	0.0	18.8
34	17564480.26	4818451.47	39.00	0	D	1000	87.6	0.0	0.0	0.0	0.0	53.3	0.5	-1.1	0.0	0.0	19.8	0.0	0.0	15.2
34	17564480.26	4818451.47	39.00	0	D	2000	85.8	0.0	0.0	0.0	0.0	53.3	1.3	-1.1	0.0	0.0	19.9	0.0	0.0	12.5
34	17564480.26	4818451.47	39.00	0	D	4000	83.6	0.0	0.0	0.0	0.0	53.3	4.3	-1.1	0.0	0.0	19.9	0.0	0.0	7.2
34	17564480.26	4818451.47	39.00	0	D	8000	78.5	0.0	0.0	0.0	0.0	53.3	15.2	-1.1	0.0	0.0	20.0	0.0	0.0	-8.9

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
38	17564557.62	4818488.73	38.00	0	D	63	60.8	0.0	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	10.3
38	17564557.62	4818488.73	38.00	0	D	125	70.9	0.0	0.0	0.0	0.0	45.5	0.0	-0.6	0.0	0.0	10.1	0.0	0.0	15.9
38	17564557.62	4818488.73	38.00	0	D	250	77.4	0.0	0.0	0.0	0.0	45.5	0.1	-0.6	0.0	0.0	12.6	0.0	0.0	19.9
38	17564557.62	4818488.73	38.00	0	D	500	74.8	0.0	0.0	0.0	0.0	45.5	0.1	-0.6	0.0	0.0	15.4	0.0	0.0	14.5
38	17564557.62	4818488.73	38.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	45.5	0.2	-0.6	0.0	0.0	18.2	0.0	0.0	10.7
38	17564557.62	4818488.73	38.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	45.5	0.5	-0.6	0.0	0.0	19.7	0.0	0.0	8.1
38	17564557.62	4818488.73	38.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	45.5	1.7	-0.6	0.0	0.0	19.9	0.0	0.0	4.5
38	17564557.62	4818488.73	38.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	45.5	6.2	-0.6	0.0	0.0	19.9	0.0	0.0	-8.1

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
42	17564485.40	4818446.23	39.00	0	D	63	60.8	0.0	0.0	0.0	0.0	53.1	0.0	-3.0	0.0	0.0	9.2	0.0	0.0	1.5
42	17564485.40	4818446.23	39.00	0	D	125	70.9	0.0	0.0	0.0	0.0	53.1	0.1	-1.2	0.0	0.0	11.5	0.0	0.0	7.5
42	17564485.40	4818446.23	39.00	0	D	250	77.4	0.0	0.0	0.0	0.0	53.1	0.1	-1.2	0.0	0.0	14.1	0.0	0.0	11.3
42	17564485.40	4818446.23	39.00	0	D	500	74.8	0.0	0.0	0.0	0.0	53.1	0.2	-1.2	0.0	0.0	16.9	0.0	0.0	5.8
42	17564485.40	4818446.23	39.00	0	D	1000	74.0	0.0	0.0	0.0	0.0	53.1	0.5	-1.2	0.0	0.0	19.7	0.0	0.0	2.0
42	17564485.40	4818446.23	39.00	0	D	2000	73.2	0.0	0.0	0.0	0.0	53.1	1.2	-1.2	0.0	0.0	19.8	0.0	0.0	0.3
42	17564485.40	4818446.23	39.00	0	D	4000	71.0	0.0	0.0	0.0	0.0	53.1	4.2	-1.2	0.0	0.0	19.9	0.0	0.0	-4.9
42	17564485.40	4818446.23	39.00	0	D	8000	62.9	0.0	0.0	0.0	0.0	53.1	14.8	-1.2	0.0	0.0	20.0	0.0	0.0	-23.7

Area Source, ISO 9613, Name: "", ID: ""																				
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)
47	17564463.30	4818485.21	0.00	0	D	63	-48.0	1.8	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-111.8
47	17564463.30	4818485.21	0.00	0	D	125	-34.9	1.8	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-104.8
47	17564463.30	4818485.21	0.00	0	D	250	-32.4	1.8	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-108.6
47	17564463.30	4818485.21	0.00	0	D	500	-30.0	1.8	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-107.3
47	17564463.30	4818485.21	0.00	0	D	1000	-29.8	1.8	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-107.0

Area Source, ISO 9613, Name: "", ID: ""																				
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)
47	17564463.30	4818485.21	0.00	0	D	2000	-31.6	1.8	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-108.8
47	17564463.30	4818485.21	0.00	0	D	4000	-35.8	1.8	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-116.6
47	17564463.30	4818485.21	0.00	0	D	8000	-39.9	1.8	0.0	0.0	0.0	54.0	16.6	-0.9	0.0	0.0	24.9	0.0	0.0	-132.7
67	17564462.84	4818485.88	0.00	0	D	63	-48.0	-14.5	0.0	0.0	0.0	54.1	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-128.1
67	17564462.84	4818485.88	0.00	0	D	125	-34.9	-14.5	0.0	0.0	0.0	54.1	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-121.0
67	17564462.84	4818485.88	0.00	0	D	250	-32.4	-14.5	0.0	0.0	0.0	54.1	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-124.9
67	17564462.84	4818485.88	0.00	0	D	500	-30.0	-14.5	0.0	0.0	0.0	54.1	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-123.6
67	17564462.84	4818485.88	0.00	0	D	1000	-29.8	-14.5	0.0	0.0	0.0	54.1	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-123.3
67	17564462.84	4818485.88	0.00	0	D	2000	-31.6	-14.5	0.0	0.0	0.0	54.1	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-125.1
67	17564462.84	4818485.88	0.00	0	D	4000	-35.8	-14.5	0.0	0.0	0.0	54.1	4.7	-0.9	0.0	0.0	24.8	0.0	0.0	-132.9
67	17564462.84	4818485.88	0.00	0	D	8000	-39.9	-14.5	0.0	0.0	0.0	54.1	16.6	-0.9	0.0	0.0	24.9	0.0	0.0	-149.1
91	17564462.96	4818486.32	0.00	0	D	63	-48.0	0.0	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-113.6
91	17564462.96	4818486.32	0.00	0	D	125	-34.9	0.0	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-106.5
91	17564462.96	4818486.32	0.00	0	D	250	-32.4	0.0	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-110.3
91	17564462.96	4818486.32	0.00	0	D	500	-30.0	0.0	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-109.1
91	17564462.96	4818486.32	0.00	0	D	1000	-29.8	0.0	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-108.8
91	17564462.96	4818486.32	0.00	0	D	2000	-31.6	0.0	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-110.6
91	17564462.96	4818486.32	0.00	0	D	4000	-35.8	0.0	0.0	0.0	0.0	54.0	4.7	-0.9	0.0	0.0	24.8	0.0	0.0	-118.4
91	17564462.96	4818486.32	0.00	0	D	8000	-39.9	0.0	0.0	0.0	0.0	54.0	16.6	-0.9	0.0	0.0	24.9	0.0	0.0	-134.5
107	17564463.81	4818486.29	0.00	0	D	63	-48.0	-2.0	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.6	0.0	0.0	-115.6
107	17564463.81	4818486.29	0.00	0	D	125	-34.9	-2.0	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-108.5
107	17564463.81	4818486.29	0.00	0	D	250	-32.4	-2.0	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-112.3
107	17564463.81	4818486.29	0.00	0	D	500	-30.0	-2.0	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-111.1
107	17564463.81	4818486.29	0.00	0	D	1000	-29.8	-2.0	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-110.8
107	17564463.81	4818486.29	0.00	0	D	2000	-31.6	-2.0	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-112.6
107	17564463.81	4818486.29	0.00	0	D	4000	-35.8	-2.0	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-120.3
107	17564463.81	4818486.29	0.00	0	D	8000	-39.9	-2.0	0.0	0.0	0.0	54.0	16.5	-0.9	0.0	0.0	24.9	0.0	0.0	-136.4
112	17564464.37	4818485.41	0.00	0	D	63	-48.0	-0.1	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-113.6
112	17564464.37	4818485.41	0.00	0	D	125	-34.9	-0.1	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-106.6
112	17564464.37	4818485.41	0.00	0	D	250	-32.4	-0.1	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-110.4
112	17564464.37	4818485.41	0.00	0	D	500	-30.0	-0.1	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-109.1
112	17564464.37	4818485.41	0.00	0	D	1000	-29.8	-0.1	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-108.8
112	17564464.37	4818485.41	0.00	0	D	2000	-31.6	-0.1	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-110.6
112	17564464.37	4818485.41	0.00	0	D	4000	-35.8	-0.1	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-118.4
112	17564464.37	4818485.41	0.00	0	D	8000	-39.9	-0.1	0.0	0.0	0.0	54.0	16.4	-0.9	0.0	0.0	24.9	0.0	0.0	-134.4
113	17564464.47	4818484.66	0.00	0	D	63	-48.0	-0.6	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-114.0
113	17564464.47	4818484.66	0.00	0	D	125	-34.9	-0.6	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-107.0
113	17564464.47	4818484.66	0.00	0	D	250	-32.4	-0.6	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-110.8
113	17564464.47	4818484.66	0.00	0	D	500	-30.0	-0.6	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-109.6
113	17564464.47	4818484.66	0.00	0	D	1000	-29.8	-0.6	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-109.3
113	17564464.47	4818484.66	0.00	0	D	2000	-31.6	-0.6	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-111.1
113	17564464.47	4818484.66	0.00	0	D	4000	-35.8	-0.6	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-118.8
113	17564464.47	4818484.66	0.00	0	D	8000	-39.9	-0.6	0.0	0.0	0.0	54.0	16.4	-0.9	0.0	0.0	24.9	0.0	0.0	-134.8

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Receiver
Name: R1
ID: R1
X: 17564440.21 m
Y: 4818499.86 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
1	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	48.1	0.0	-3.0	0.0	0.0	11.8	0.0	0.0	15.5
1	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	48.1	0.0	2.1	0.0	0.0	13.5	0.0	0.0	16.8
1	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	48.1	0.1	1.0	0.0	0.0	17.4	0.0	0.0	20.4
1	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	48.1	0.1	0.0	0.0	0.0	19.2	0.0	0.0	19.0
1	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	48.1	0.3	0.0	0.0	0.0	19.6	0.0	0.0	16.7
1	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	48.1	0.7	0.0	0.0	0.0	19.8	0.0	0.0	14.2
1	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	48.1	2.3	0.0	0.0	0.0	19.9	0.0	0.0	10.3
1	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	48.1	8.4	0.0	0.0	0.0	19.9	0.0	0.0	-0.9

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
3	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	52.6	0.0	-3.0	0.0	0.0	3.6	0.0	0.0	19.2
3	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	52.6	0.0	-0.4	0.0	0.0	4.2	0.0	0.0	24.0
3	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	52.6	0.1	-1.0	0.0	0.0	5.0	0.0	0.0	30.3
3	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	52.6	0.2	-1.6	0.0	0.0	5.9	0.0	0.0	29.2
3	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	52.6	0.4	-1.6	0.0	0.0	7.2	0.0	0.0	25.9
3	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	52.6	1.2	-1.6	0.0	0.0	9.0	0.0	0.0	21.6
3	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	52.6	4.0	-1.6	0.0	0.0	11.2	0.0	0.0	14.5
3	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	52.6	14.1	-1.6	0.0	0.0	13.7	0.0	0.0	-3.3

Area Source, ISO 9613, Name: "", ID: ""																				
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)
6	17564463.46	4818484.77	0.00	0	N	63	51.0	-2.8	0.0	0.0	0.0	40.0	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	6.6
6	17564463.46	4818484.77	0.00	0	N	125	64.1	-2.8	0.0	0.0	0.0	40.0	0.0	1.3	0.0	0.0	4.7	0.0	0.0	15.4
6	17564463.46	4818484.77	0.00	0	N	250	66.6	-2.8	0.0	0.0	0.0	40.0	0.0	4.3	0.0	0.0	4.6	0.0	0.0	15.0
6	17564463.46	4818484.77	0.00	0	N	500	69.0	-2.8	0.0	0.0	0.0	40.0	0.1	6.0	0.0	0.0	4.9	0.0	0.0	15.4
6	17564463.46	4818484.77	0.00	0	N	1000	69.2	-2.8	0.0	0.0	0.0	40.0	0.1	2.1	0.0	0.0	5.3	0.0	0.0	19.0
6	17564463.46	4818484.77	0.00	0	N	2000	67.4	-2.8	0.0	0.0	0.0	40.0	0.3	0.0	0.0	0.0	5.8	0.0	0.0	18.6
6	17564463.46	4818484.77	0.00	0	N	4000	63.2	-2.8	0.0	0.0	0.0	40.0	0.9	0.0	0.0	0.0	6.6	0.0	0.0	12.9
6	17564463.46	4818484.77	0.00	0	N	8000	59.1	-2.8	0.0	0.0	0.0	40.0	3.3	0.0	0.0	0.0	7.9	0.0	0.0	5.2
18	17564463.06	4818485.24	0.00	0	N	63	51.0	-10.6	0.0	0.0	0.0	39.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	3.6
18	17564463.06	4818485.24	0.00	0	N	125	64.1	-10.6	0.0	0.0	0.0	39.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	12.4
18	17564463.06	4818485.24	0.00	0	N	250	66.6	-10.6	0.0	0.0	0.0	39.8	0.0	4.2	0.0	0.0	0.0	0.0	0.0	12.0
18	17564463.06	4818485.24	0.00	0	N	500	69.0	-10.6	0.0	0.0	0.0	39.8	0.1	5.9	0.0	0.0	0.0	0.0	0.0	12.7
18	17564463.06	4818485.24	0.00	0	N	1000	69.2	-10.6	0.0	0.0	0.0	39.8	0.1	2.1	0.0	0.0	0.0	0.0	0.0	16.7
18	17564463.06	4818485.24	0.00	0	N	2000	67.4	-10.6	0.0	0.0	0.0	39.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	16.8
18	17564463.06	4818485.24	0.00	0	N	4000	63.2	-10.6	0.0	0.0	0.0	39.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	11.9
18	17564463.06	4818485.24	0.00	0	N	8000	59.1	-10.6	0.0	0.0	0.0	39.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	5.5
27	17564463.08	4818485.93	0.00	0	N	63	51.0	2.8	0.0	0.0	0.0	39.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.2
27	17564463.08	4818485.93	0.00	0	N	125	64.1	2.8	0.0	0.0	0.0	39.7	0.0	1.3	0.0	0.0	0.0	0.0	0.0	26.0
27	17564463.08	4818485.93	0.00	0	N	250	66.6	2.8	0.0	0.0	0.0	39.7	0.0	4.1	0.0	0.0	0.0	0.0	0.0	25.6
27	17564463.08	4818485.93	0.00	0	N	500	69.0	2.8	0.0	0.0	0.0	39.7	0.1	5.8	0.0	0.0	0.0	0.0	0.0	26.3
27	17564463.08	4818485.93	0.00	0	N	1000	69.2	2.8	0.0	0.0	0.0	39.7	0.1	2.1	0.0	0.0	0.0	0.0	0.0	30.2
27	17564463.08	4818485.93	0.00	0	N	2000	67.4	2.8	0.0	0.0	0.0	39.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	30.3
27	17564463.08	4818485.93	0.00	0	N	4000	63.2	2.8	0.0	0.0	0.0	39.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	25.5
27	17564463.08	4818485.93	0.00	0	N	8000	59.1	2.8	0.0	0.0	0.0	39.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	19.1
49	17564464.05	4818486.11	0.00	0	N	63	51.0	-0.9	0.0	0.0	0.0	39.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	13.2
49	17564464.05	4818486.11	0.00	0	N	125	64.1	-0.9	0.0	0.0	0.0	39.9	0.0	1.3	0.0	0.0	0.0	0.0	0.0	21.9
49	17564464.05	4818486.11	0.00	0	N	250	66.6	-0.9	0.0	0.0	0.0	39.9	0.0	4.2	0.0	0.0	0.0	0.0	0.0	21.5
49	17564464.05	4818486.11	0.00	0	N	500	69.0	-0.9	0.0	0.0	0.0	39.9	0.1	5.9	0.0	0.0	0.0	0.0	0.0	22.2
49	17564464.05	4818486.11	0.00	0	N	1000	69.2	-0.9	0.0	0.0	0.0	39.9	0.1	2.1	0.0	0.0	0.0	0.0	0.0	26.1

50% DUTY CYCLE

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
49	17564464.05	4818486.11	0.00	0	N	2000	67.4	-0.9	0.0	0.0	0.0	39.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	26.3
49	17564464.05	4818486.11	0.00	0	N	4000	63.2	-0.9	0.0	0.0	0.0	39.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	21.4
49	17564464.05	4818486.11	0.00	0	N	8000	59.1	-0.9	0.0	0.0	0.0	39.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	15.0
52	17564464.38	4818485.10	0.00	0	N	63	51.0	1.8	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	15.6
52	17564464.38	4818485.10	0.00	0	N	125	64.1	1.8	0.0	0.0	0.0	40.2	0.0	1.3	0.0	0.0	0.0	0.0	0.0	24.4
52	17564464.38	4818485.10	0.00	0	N	250	66.6	1.8	0.0	0.0	0.0	40.2	0.0	4.3	0.0	0.0	0.0	0.0	0.0	23.9
52	17564464.38	4818485.10	0.00	0	N	500	69.0	1.8	0.0	0.0	0.0	40.2	0.1	6.1	0.0	0.0	0.0	0.0	0.0	24.5
52	17564464.38	4818485.10	0.00	0	N	1000	69.2	1.8	0.0	0.0	0.0	40.2	0.1	2.2	0.0	0.0	0.0	0.0	0.0	28.6
52	17564464.38	4818485.10	0.00	0	N	2000	67.4	1.8	0.0	0.0	0.0	40.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	28.7
52	17564464.38	4818485.10	0.00	0	N	4000	63.2	1.8	0.0	0.0	0.0	40.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	23.9
52	17564464.38	4818485.10	0.00	0	N	8000	59.1	1.8	0.0	0.0	0.0	40.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	17.4
57	17564464.25	4818484.26	0.00	0	N	63	51.0	-7.6	0.0	0.0	0.0	40.2	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	1.5
57	17564464.25	4818484.26	0.00	0	N	125	64.1	-7.6	0.0	0.0	0.0	40.2	0.0	1.4	0.0	0.0	4.6	0.0	0.0	10.3
57	17564464.25	4818484.26	0.00	0	N	250	66.6	-7.6	0.0	0.0	0.0	40.2	0.0	4.4	0.0	0.0	4.5	0.0	0.0	9.9
57	17564464.25	4818484.26	0.00	0	N	500	69.0	-7.6	0.0	0.0	0.0	40.2	0.1	6.1	0.0	0.0	4.8	0.0	0.0	10.2
57	17564464.25	4818484.26	0.00	0	N	1000	69.2	-7.6	0.0	0.0	0.0	40.2	0.1	2.2	0.0	0.0	5.1	0.0	0.0	14.0
57	17564464.25	4818484.26	0.00	0	N	2000	67.4	-7.6	0.0	0.0	0.0	40.2	0.3	0.0	0.0	0.0	5.4	0.0	0.0	13.9
57	17564464.25	4818484.26	0.00	0	N	4000	63.2	-7.6	0.0	0.0	0.0	40.2	1.0	0.0	0.0	0.0	6.0	0.0	0.0	8.4
57	17564464.25	4818484.26	0.00	0	N	8000	59.1	-7.6	0.0	0.0	0.0	40.2	3.4	0.0	0.0	0.0	7.0	0.0	0.0	0.9

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
61	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	48.9	0.0	-3.0	0.0	0.0	12.1	0.0	0.0	-0.2
61	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	48.9	0.0	2.2	0.0	0.0	13.8	0.0	0.0	3.0
61	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	48.9	0.1	1.0	0.0	0.0	17.6	0.0	0.0	6.8
61	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	48.9	0.2	0.0	0.0	0.0	19.1	0.0	0.0	3.6
61	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	48.9	0.3	0.0	0.0	0.0	19.6	0.0	0.0	2.3
61	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	48.9	0.8	0.0	0.0	0.0	19.8	0.0	0.0	0.8
61	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	48.9	2.6	0.0	0.0	0.0	19.9	0.0	0.0	-3.3
61	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	48.9	9.1	0.0	0.0	0.0	19.9	0.0	0.0	-18.0

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
72	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	52.8	0.0	-3.0	0.0	0.0	4.2	0.0	0.0	3.8
72	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	52.8	0.1	-0.3	0.0	0.0	5.0	0.0	0.0	10.4
72	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	52.8	0.1	-1.0	0.0	0.0	5.9	0.0	0.0	16.5
72	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	52.8	0.2	-1.6	0.0	0.0	7.2	0.0	0.0	13.1
72	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	52.8	0.4	-1.6	0.0	0.0	9.0	0.0	0.0	10.3
72	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	52.8	1.2	-1.6	0.0	0.0	11.2	0.0	0.0	6.6
72	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	52.8	4.0	-1.6	0.0	0.0	13.7	0.0	0.0	-0.9
72	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	52.8	14.3	-1.6	0.0	0.0	16.4	0.0	0.0	-22.1

50% DUTY CYCLE

Receiver
Name: R2
ID: R2
X: 17564445.64 m
Y: 4818522.78 m
Z: 1.50 m

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
2	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	49.9	0.0	-3.0	0.0	0.0	9.6	0.0	0.0	15.9
2	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	49.9	0.0	0.6	0.0	0.0	12.0	0.0	0.0	18.0
2	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	49.9	0.1	5.6	0.0	0.0	11.0	0.0	0.0	20.5
2	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	49.9	0.2	4.0	0.0	0.0	15.2	0.0	0.0	17.2
2	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	49.9	0.3	0.5	0.0	0.0	18.5	0.0	0.0	15.4
2	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	49.9	0.8	0.0	0.0	0.0	19.4	0.0	0.0	12.7
2	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	49.9	2.9	0.0	0.0	0.0	19.7	0.0	0.0	8.2
2	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	49.9	10.2	0.0	0.0	0.0	19.9	0.0	0.0	-4.4

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
4	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	52.7	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	17.8
4	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	52.7	0.0	0.1	0.0	0.0	4.9	0.0	0.0	22.8
4	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	52.7	0.1	5.1	0.0	0.0	0.1	0.0	0.0	29.0
4	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	52.7	0.2	3.4	0.0	0.0	2.1	0.0	0.0	28.0
4	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	52.7	0.4	-0.1	0.0	0.0	6.2	0.0	0.0	25.4
4	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	52.7	1.2	-0.7	0.0	0.0	7.3	0.0	0.0	22.4
4	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	52.7	4.0	-0.7	0.0	0.0	8.8	0.0	0.0	15.8
4	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	52.7	14.2	-0.7	0.0	0.0	10.9	0.0	0.0	-1.6

Area Source, ISO 9613, Name: "", ID: ""																				
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)
9	17564463.16	4818485.66	0.00	0	N	63	51.0	4.1	0.0	0.0	0.0	43.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	14.8
9	17564463.16	4818485.66	0.00	0	N	125	64.1	4.1	0.0	0.0	0.0	43.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	24.4
9	17564463.16	4818485.66	0.00	0	N	250	66.6	4.1	0.0	0.0	0.0	43.3	0.0	8.7	0.0	0.0	0.0	0.0	0.0	18.6
9	17564463.16	4818485.66	0.00	0	N	500	69.0	4.1	0.0	0.0	0.0	43.3	0.1	10.6	0.0	0.0	0.0	0.0	0.0	19.1
9	17564463.16	4818485.66	0.00	0	N	1000	69.2	4.1	0.0	0.0	0.0	43.3	0.2	3.2	0.0	0.0	0.0	0.0	0.0	26.7
9	17564463.16	4818485.66	0.00	0	N	2000	67.4	4.1	0.0	0.0	0.0	43.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	27.8
9	17564463.16	4818485.66	0.00	0	N	4000	63.2	4.1	0.0	0.0	0.0	43.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	22.6
9	17564463.16	4818485.66	0.00	0	N	8000	59.1	4.1	0.0	0.0	0.0	43.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	15.1
31	17564464.27	4818485.37	0.00	0	N	63	51.0	3.9	0.0	0.0	0.0	43.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	14.5
31	17564464.27	4818485.37	0.00	0	N	125	64.1	3.9	0.0	0.0	0.0	43.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	24.1
31	17564464.27	4818485.37	0.00	0	N	250	66.6	3.9	0.0	0.0	0.0	43.4	0.0	8.9	0.0	0.0	0.0	0.0	0.0	18.2
31	17564464.27	4818485.37	0.00	0	N	500	69.0	3.9	0.0	0.0	0.0	43.4	0.1	10.7	0.0	0.0	0.0	0.0	0.0	18.7
31	17564464.27	4818485.37	0.00	0	N	1000	69.2	3.9	0.0	0.0	0.0	43.4	0.2	3.2	0.0	0.0	0.0	0.0	0.0	26.4
31	17564464.27	4818485.37	0.00	0	N	2000	67.4	3.9	0.0	0.0	0.0	43.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	27.5
31	17564464.27	4818485.37	0.00	0	N	4000	63.2	3.9	0.0	0.0	0.0	43.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	22.4
31	17564464.27	4818485.37	0.00	0	N	8000	59.1	3.9	0.0	0.0	0.0	43.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	14.7

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
35	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	50.5	0.0	-3.0	0.0	0.0	9.6	0.0	0.0	0.7
35	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	50.5	0.0	0.7	0.0	0.0	11.9	0.0	0.0	4.8
35	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	50.5	0.1	5.8	0.0	0.0	10.7	0.0	0.0	7.3
35	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	50.5	0.2	4.1	0.0	0.0	15.1	0.0	0.0	2.0
35	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	50.5	0.3	0.5	0.0	0.0	18.5	0.0	0.0	1.1
35	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	50.5	0.9	0.0	0.0	0.0	19.4	0.0	0.0	-0.6
35	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	50.5	3.1	0.0	0.0	0.0	19.7	0.0	0.0	-5.3
35	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	50.5	11.0	0.0	0.0	0.0	19.9	0.0	0.0	-21.4

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
39	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	52.8	0.0	-3.0	0.0	0.0	5.2	0.0	0.0	2.8
39	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	52.8	0.1	0.1	0.0	0.0	5.5	0.0	0.0	9.5
39	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	52.8	0.1	5.0	0.0	0.0	1.3	0.0	0.0	15.2
39	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	52.8	0.2	3.3	0.0	0.0	4.0	0.0	0.0	11.4
39	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	52.8	0.4	-0.1	0.0	0.0	9.0	0.0	0.0	8.9
39	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	52.8	1.2	-0.6	0.0	0.0	11.1	0.0	0.0	5.7
39	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	52.8	4.0	-0.6	0.0	0.0	13.6	0.0	0.0	-1.8
39	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	52.8	14.3	-0.6	0.0	0.0	16.3	0.0	0.0	-22.9

Receiver
Name: R3
ID: R3
X: 17564480.24 m
Y: 4818557.05 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
5	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	51.8	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	18.7
5	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	51.8	0.0	2.1	0.0	0.0	2.9	0.0	0.0	23.7
5	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	51.8	0.1	0.8	0.0	0.0	4.4	0.0	0.0	29.9
5	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	51.8	0.2	-0.3	0.0	0.0	5.7	0.0	0.0	29.0
5	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	51.8	0.4	-0.3	0.0	0.0	6.4	0.0	0.0	26.3
5	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	51.8	1.1	-0.3	0.0	0.0	7.6	0.0	0.0	22.6
5	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	51.8	3.6	-0.3	0.0	0.0	9.4	0.0	0.0	16.2
5	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	51.8	12.8	-0.3	0.0	0.0	11.5	0.0	0.0	-0.3

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
13	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	51.9	0.0	-3.0	0.0	0.0	4.5	0.0	0.0	19.0
13	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	51.9	0.0	1.3	0.0	0.0	4.4	0.0	0.0	22.9
13	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	51.9	0.1	0.3	0.0	0.0	6.6	0.0	0.0	28.1
13	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	51.9	0.2	-0.7	0.0	0.0	8.6	0.0	0.0	26.4
13	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	51.9	0.4	-0.7	0.0	0.0	10.8	0.0	0.0	22.1
13	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	51.9	1.1	-0.7	0.0	0.0	13.4	0.0	0.0	17.1
13	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	51.9	3.6	-0.7	0.0	0.0	16.1	0.0	0.0	9.6
13	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	51.9	13.0	-0.7	0.0	0.0	19.0	0.0	0.0	-7.7

Area Source, ISO 9613, Name: "", ID: ""																				
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)
16	17564463.16	4818485.66	0.00	0	N	63	51.0	4.1	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	9.7
16	17564463.16	4818485.66	0.00	0	N	125	64.1	4.1	0.0	0.0	0.0	48.3	0.0	2.4	0.0	0.0	0.0	0.0	0.0	17.4
16	17564463.16	4818485.66	0.00	0	N	250	66.6	4.1	0.0	0.0	0.0	48.3	0.1	7.7	0.0	0.0	0.0	0.0	0.0	14.6
16	17564463.16	4818485.66	0.00	0	N	500	69.0	4.1	0.0	0.0	0.0	48.3	0.1	10.8	0.0	0.0	0.0	0.0	0.0	13.8
16	17564463.16	4818485.66	0.00	0	N	1000	69.2	4.1	0.0	0.0	0.0	48.3	0.3	3.8	0.0	0.0	0.0	0.0	0.0	20.8
16	17564463.16	4818485.66	0.00	0	N	2000	67.4	4.1	0.0	0.0	0.0	48.3	0.7	-0.0	0.0	0.0	0.0	0.0	0.0	22.4
16	17564463.16	4818485.66	0.00	0	N	4000	63.2	4.1	0.0	0.0	0.0	48.3	2.4	-0.0	0.0	0.0	0.0	0.0	0.0	16.5
16	17564463.16	4818485.66	0.00	0	N	8000	59.1	4.1	0.0	0.0	0.0	48.3	8.6	-0.0	0.0	0.0	0.0	0.0	0.0	6.2
25	17564464.27	4818485.37	0.00	0	N	63	51.0	3.9	0.0	0.0	0.0	48.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	9.6
25	17564464.27	4818485.37	0.00	0	N	125	64.1	3.9	0.0	0.0	0.0	48.3	0.0	2.4	0.0	0.0	0.0	0.0	0.0	17.3
25	17564464.27	4818485.37	0.00	0	N	250	66.6	3.9	0.0	0.0	0.0	48.3	0.1	7.6	0.0	0.0	0.0	0.0	0.0	14.5
25	17564464.27	4818485.37	0.00	0	N	500	69.0	3.9	0.0	0.0	0.0	48.3	0.1	10.7	0.0	0.0	0.0	0.0	0.0	13.7
25	17564464.27	4818485.37	0.00	0	N	1000	69.2	3.9	0.0	0.0	0.0	48.3	0.3	3.8	0.0	0.0	0.0	0.0	0.0	20.7
25	17564464.27	4818485.37	0.00	0	N	2000	67.4	3.9	0.0	0.0	0.0	48.3	0.7	-0.0	0.0	0.0	0.0	0.0	0.0	22.4
25	17564464.27	4818485.37	0.00	0	N	4000	63.2	3.9	0.0	0.0	0.0	48.3	2.4	-0.0	0.0	0.0	0.0	0.0	0.0	16.5
25	17564464.27	4818485.37	0.00	0	N	8000	59.1	3.9	0.0	0.0	0.0	48.3	8.6	-0.0	0.0	0.0	0.0	0.0	0.0	6.2

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
28	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	5.0	0.0	0.0	4.1
28	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	51.7	0.0	2.6	0.0	0.0	2.6	0.0	0.0	11.0
28	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	51.7	0.1	1.2	0.0	0.0	4.3	0.0	0.0	17.0
28	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	51.7	0.2	0.0	0.0	0.0	6.2	0.0	0.0	13.7
28	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	51.7	0.4	0.0	0.0	0.0	7.3	0.0	0.0	11.6
28	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	51.7	1.0	0.0	0.0	0.0	8.9	0.0	0.0	8.6
28	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	51.7	3.6	0.0	0.0	0.0	11.0	0.0	0.0	1.8
28	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	51.7	12.7	0.0	0.0	0.0	13.4	0.0	0.0	-17.9

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
30	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	52.3	0.0	-3.0	0.0	0.0	4.7	0.0	0.0	3.7
30	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	52.3	0.0	0.7	0.0	0.0	5.1	0.0	0.0	9.8
30	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	52.3	0.1	-0.2	0.0	0.0	7.0	0.0	0.0	15.2
30	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	52.3	0.2	-1.0	0.0	0.0	8.7	0.0	0.0	11.6
30	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	52.3	0.4	-1.0	0.0	0.0	10.9	0.0	0.0	8.4
30	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	52.3	1.1	-1.0	0.0	0.0	13.4	0.0	0.0	4.4
30	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	52.3	3.8	-1.0	0.0	0.0	16.1	0.0	0.0	-3.2
30	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	52.3	13.6	-1.0	0.0	0.0	19.0	0.0	0.0	-23.9

50% DUTY CYCLE

Receiver
Name: R4
ID: R4
X: 17564495.38 m
Y: 4818562.27 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
11	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	51.3	0.0	-3.0	0.0	0.0	5.0	0.0	0.0	19.1
11	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	51.3	0.0	2.5	0.0	0.0	2.7	0.0	0.0	23.9
11	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	51.3	0.1	1.2	0.0	0.0	4.5	0.0	0.0	30.0
11	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	51.3	0.2	0.0	0.0	0.0	6.4	0.0	0.0	28.5
11	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	51.3	0.4	0.0	0.0	0.0	7.6	0.0	0.0	25.4
11	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	51.3	1.0	0.0	0.0	0.0	9.3	0.0	0.0	21.2
11	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	51.3	3.4	0.0	0.0	0.0	11.5	0.0	0.0	14.5
11	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	51.3	12.1	0.0	0.0	0.0	14.0	0.0	0.0	-1.8

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
32	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	52.4	0.0	-3.0	0.0	0.0	3.9	0.0	0.0	19.1
32	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	52.4	0.0	0.3	0.0	0.0	4.4	0.0	0.0	23.4
32	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	52.4	0.1	-0.5	0.0	0.0	5.6	0.0	0.0	29.5
32	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	52.4	0.2	-1.2	0.0	0.0	6.7	0.0	0.0	28.3
32	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	52.4	0.4	-1.2	0.0	0.0	8.4	0.0	0.0	24.7
32	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	52.4	1.1	-1.2	0.0	0.0	10.4	0.0	0.0	20.1
32	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	52.4	3.8	-1.2	0.0	0.0	12.9	0.0	0.0	12.8
32	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	52.4	13.7	-1.2	0.0	0.0	15.5	0.0	0.0	-4.8

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
37	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	51.2	0.0	-3.0	0.0	0.0	10.0	0.0	0.0	-0.4
37	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	51.2	0.0	2.5	0.0	0.0	10.1	0.0	0.0	4.0
37	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	51.2	0.1	1.2	0.0	0.0	14.1	0.0	0.0	7.8
37	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	51.2	0.2	0.0	0.0	0.0	18.0	0.0	0.0	2.4
37	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	51.2	0.4	0.0	0.0	0.0	19.8	0.0	0.0	-0.3
37	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	51.2	1.0	0.0	0.0	0.0	19.9	0.0	0.0	-1.8
37	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	51.2	3.3	0.0	0.0	0.0	20.0	0.0	0.0	-6.5
37	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	51.2	11.9	0.0	0.0	0.0	20.0	0.0	0.0	-23.2

Area Source, ISO 9613, Name: "", ID: ""																				
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)
50	17564463.16	4818485.66	0.00	0	N	63	51.0	4.1	0.0	0.0	0.0	49.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	8.6
50	17564463.16	4818485.66	0.00	0	N	125	64.1	4.1	0.0	0.0	0.0	49.4	0.0	2.4	0.0	0.0	0.0	0.0	0.0	16.3
50	17564463.16	4818485.66	0.00	0	N	250	66.6	4.1	0.0	0.0	0.0	49.4	0.1	8.0	0.0	0.0	0.0	0.0	0.0	13.2
50	17564463.16	4818485.66	0.00	0	N	500	69.0	4.1	0.0	0.0	0.0	49.4	0.2	11.3	0.0	0.0	0.0	0.0	0.0	12.2
50	17564463.16	4818485.66	0.00	0	N	1000	69.2	4.1	0.0	0.0	0.0	49.4	0.3	4.0	0.0	0.0	0.0	0.0	0.0	19.6
50	17564463.16	4818485.66	0.00	0	N	2000	67.4	4.1	0.0	0.0	0.0	49.4	0.8	-0.1	0.0	0.0	0.0	0.0	0.0	21.3
50	17564463.16	4818485.66	0.00	0	N	4000	63.2	4.1	0.0	0.0	0.0	49.4	2.7	-0.1	0.0	0.0	0.0	0.0	0.0	15.2
50	17564463.16	4818485.66	0.00	0	N	8000	59.1	4.1	0.0	0.0	0.0	49.4	9.7	-0.1	0.0	0.0	0.0	0.0	0.0	4.1
71	17564464.27	4818485.37	0.00	0	N	63	51.0	3.9	0.0	0.0	0.0	49.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	8.6
71	17564464.27	4818485.37	0.00	0	N	125	64.1	3.9	0.0	0.0	0.0	49.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	16.3
71	17564464.27	4818485.37	0.00	0	N	250	66.6	3.9	0.0	0.0	0.0	49.4	0.1	7.9	0.0	0.0	0.0	0.0	0.0	13.2
71	17564464.27	4818485.37	0.00	0	N	500	69.0	3.9	0.0	0.0	0.0	49.4	0.2	11.2	0.0	0.0	0.0	0.0	0.0	12.2
71	17564464.27	4818485.37	0.00	0	N	1000	69.2	3.9	0.0	0.0	0.0	49.4	0.3	3.9	0.0	0.0	0.0	0.0	0.0	19.5
71	17564464.27	4818485.37	0.00	0	N	2000	67.4	3.9	0.0	0.0	0.0	49.4	0.8	-0.1	0.0	0.0	0.0	0.0	0.0	21.3
71	17564464.27	4818485.37	0.00	0	N	4000	63.2	3.9	0.0	0.0	0.0	49.4	2.7	-0.1	0.0	0.0	0.0	0.0	0.0	15.2
71	17564464.27	4818485.37	0.00	0	N	8000	59.1	3.9	0.0	0.0	0.0	49.4	9.7	-0.1	0.0	0.0	0.0	0.0	0.0	4.1

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
81	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	52.7	0.0	-3.0	0.0	0.0	4.3	0.0	0.0	3.8
81	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	52.7	0.0	0.3	0.0	0.0	4.7	0.0	0.0	10.2
81	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	52.7	0.1	-0.5	0.0	0.0	5.8	0.0	0.0	16.3
81	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	52.7	0.2	-1.2	0.0	0.0	7.0	0.0	0.0	13.1
81	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	52.7	0.4	-1.2	0.0	0.0	8.6	0.0	0.0	10.5
81	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	52.7	1.2	-1.2	0.0	0.0	10.7	0.0	0.0	6.9
81	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	52.7	4.0	-1.2	0.0	0.0	13.1	0.0	0.0	-0.6
81	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	52.7	14.2	-1.2	0.0	0.0	15.8	0.0	0.0	-21.6

50% DUTY CYCLE

Receiver
Name: R5
ID: R5
X: 17564503.71 m
Y: 4818573.52 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
7	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	15.7
7	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	51.7	0.0	2.6	0.0	0.0	8.6	0.0	0.0	17.7
7	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	51.7	0.1	1.2	0.0	0.0	12.3	0.0	0.0	21.8
7	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	51.7	0.2	0.0	0.0	0.0	16.0	0.0	0.0	18.6
7	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	51.7	0.4	0.0	0.0	0.0	18.6	0.0	0.0	14.0
7	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	51.7	1.0	0.0	0.0	0.0	19.2	0.0	0.0	10.9
7	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	51.7	3.5	0.0	0.0	0.0	19.6	0.0	0.0	5.8
7	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	51.7	12.6	0.0	0.0	0.0	19.8	0.0	0.0	-8.5

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
10	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	53.2	0.0	-3.0	0.0	0.0	3.4	0.0	0.0	18.8
10	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	53.2	0.1	0.7	0.0	0.0	3.4	0.0	0.0	23.2
10	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	53.2	0.1	-0.2	0.0	0.0	4.6	0.0	0.0	29.3
10	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	53.2	0.2	-1.1	0.0	0.0	5.3	0.0	0.0	28.7
10	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	53.2	0.5	-1.1	0.0	0.0	6.2	0.0	0.0	25.8
10	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	53.2	1.2	-1.1	0.0	0.0	7.5	0.0	0.0	21.9
10	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	53.2	4.2	-1.1	0.0	0.0	9.3	0.0	0.0	15.0
10	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	53.2	15.1	-1.1	0.0	0.0	11.5	0.0	0.0	-3.2

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
15	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	51.5	0.0	-3.0	0.0	0.0	9.5	0.0	0.0	-0.2
15	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	51.5	0.0	2.5	0.0	0.0	9.7	0.0	0.0	4.1
15	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	51.5	0.1	1.2	0.0	0.0	13.6	0.0	0.0	8.0
15	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	51.5	0.2	0.0	0.0	0.0	17.5	0.0	0.0	2.6
15	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	51.5	0.4	0.0	0.0	0.0	19.6	0.0	0.0	-0.4
15	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	51.5	1.0	0.0	0.0	0.0	19.8	0.0	0.0	-2.1
15	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	51.5	3.5	0.0	0.0	0.0	19.9	0.0	0.0	-6.9
15	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	51.5	12.4	0.0	0.0	0.0	20.0	0.0	0.0	-23.9

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
22	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	53.5	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	2.5
22	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	53.5	0.1	0.7	0.0	0.0	4.2	0.0	0.0	9.5
22	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	53.5	0.1	-0.2	0.0	0.0	5.0	0.0	0.0	16.1
22	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	53.5	0.3	-1.1	0.0	0.0	5.1	0.0	0.0	14.0
22	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	53.5	0.5	-1.1	0.0	0.0	5.5	0.0	0.0	12.6
22	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	53.5	1.3	-1.1	0.0	0.0	6.1	0.0	0.0	10.4
22	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	53.5	4.4	-1.1	0.0	0.0	7.1	0.0	0.0	4.1
22	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	53.5	15.6	-1.1	0.0	0.0	8.6	0.0	0.0	-16.7

Area Source, ISO 9613, Name: "", ID: ""																				
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)
44	17564463.16	4818485.66	0.00	0	N	63	51.0	4.1	0.0	0.0	0.0	50.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	7.3
44	17564463.16	4818485.66	0.00	0	N	125	64.1	4.1	0.0	0.0	0.0	50.7	0.0	2.6	0.0	0.0	0.0	0.0	0.0	14.8
44	17564463.16	4818485.66	0.00	0	N	250	66.6	4.1	0.0	0.0	0.0	50.7	0.1	8.4	0.0	0.0	0.0	0.0	0.0	11.4
44	17564463.16	4818485.66	0.00	0	N	500	69.0	4.1	0.0	0.0	0.0	50.7	0.2	11.9	0.0	0.0	0.0	0.0	0.0	10.3
44	17564463.16	4818485.66	0.00	0	N	1000	69.2	4.1	0.0	0.0	0.0	50.7	0.4	4.2	0.0	0.0	0.0	0.0	0.0	18.0

Area Source, ISO 9613, Name: "", ID: ""																				
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)
44	17564463.16	4818485.66	0.00	0	N	2000	67.4	4.1	0.0	0.0	0.0	50.7	0.9	-0.1	0.0	0.0	0.0	0.0	0.0	19.9
44	17564463.16	4818485.66	0.00	0	N	4000	63.2	4.1	0.0	0.0	0.0	50.7	3.2	-0.1	0.0	0.0	0.0	0.0	0.0	13.4
44	17564463.16	4818485.66	0.00	0	N	8000	59.1	4.1	0.0	0.0	0.0	50.7	11.3	-0.1	0.0	0.0	0.0	0.0	0.0	1.2
64	17564464.27	4818485.37	0.00	0	N	63	51.0	3.9	0.0	0.0	0.0	50.7	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	7.2
64	17564464.27	4818485.37	0.00	0	N	125	64.1	3.9	0.0	0.0	0.0	50.7	0.0	2.4	0.0	0.0	0.0	0.0	0.0	14.9
64	17564464.27	4818485.37	0.00	0	N	250	66.6	3.9	0.0	0.0	0.0	50.7	0.1	8.3	0.0	0.0	0.0	0.0	0.0	11.4
64	17564464.27	4818485.37	0.00	0	N	500	69.0	3.9	0.0	0.0	0.0	50.7	0.2	11.8	0.0	0.0	0.0	0.0	0.0	10.2
64	17564464.27	4818485.37	0.00	0	N	1000	69.2	3.9	0.0	0.0	0.0	50.7	0.4	4.1	0.0	0.0	0.0	0.0	0.0	18.0
64	17564464.27	4818485.37	0.00	0	N	2000	67.4	3.9	0.0	0.0	0.0	50.7	0.9	-0.1	0.0	0.0	0.0	0.0	0.0	19.8
64	17564464.27	4818485.37	0.00	0	N	4000	63.2	3.9	0.0	0.0	0.0	50.7	3.2	-0.1	0.0	0.0	0.0	0.0	0.0	13.4
64	17564464.27	4818485.37	0.00	0	N	8000	59.1	3.9	0.0	0.0	0.0	50.7	11.3	-0.1	0.0	0.0	0.0	0.0	0.0	1.2

Receiver
Name: R6
ID: R6
X: 17564514.63 m
Y: 4818582.05 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
24	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	51.9	0.0	-3.0	0.0	0.0	7.9	0.0	0.0	15.6
24	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	51.9	0.0	2.6	0.0	0.0	8.7	0.0	0.0	17.3
24	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	51.9	0.1	1.2	0.0	0.0	12.6	0.0	0.0	21.2
24	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	51.9	0.2	0.0	0.0	0.0	16.4	0.0	0.0	17.9
24	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	51.9	0.4	0.0	0.0	0.0	19.0	0.0	0.0	13.3
24	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	51.9	1.1	0.0	0.0	0.0	19.5	0.0	0.0	10.4
24	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	51.9	3.6	0.0	0.0	0.0	19.7	0.0	0.0	5.4
24	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	51.9	12.9	0.0	0.0	0.0	19.9	0.0	0.0	-9.1

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
48	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	53.9	0.0	-3.0	0.0	0.0	3.0	0.0	0.0	18.5
48	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	53.9	0.1	0.9	0.0	0.0	2.8	0.0	0.0	22.8
48	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	53.9	0.1	-0.1	0.0	0.0	4.1	0.0	0.0	29.0
48	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	53.9	0.3	-0.9	0.0	0.0	4.5	0.0	0.0	28.7
48	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	53.9	0.5	-0.9	0.0	0.0	4.9	0.0	0.0	26.2
48	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	53.9	1.3	-0.9	0.0	0.0	5.4	0.0	0.0	23.1
48	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	53.9	4.6	-0.9	0.0	0.0	6.2	0.0	0.0	16.9
48	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	53.9	16.3	-0.9	0.0	0.0	7.3	0.0	0.0	-1.0

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
53	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	51.7	0.0	-3.0	0.0	0.0	9.1	0.0	0.0	-0.0
53	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	51.7	0.0	2.6	0.0	0.0	9.5	0.0	0.0	4.1
53	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	51.7	0.1	1.2	0.0	0.0	13.4	0.0	0.0	8.0
53	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	51.7	0.2	0.0	0.0	0.0	17.3	0.0	0.0	2.6
53	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	51.7	0.4	0.0	0.0	0.0	19.4	0.0	0.0	-0.5
53	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	51.7	1.0	0.0	0.0	0.0	19.7	0.0	0.0	-2.2
53	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	51.7	3.5	0.0	0.0	0.0	19.9	0.0	0.0	-7.1
53	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	51.7	12.6	0.0	0.0	0.0	19.9	0.0	0.0	-24.3

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
74	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	54.1	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	1.9
74	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	54.1	0.1	0.9	0.0	0.0	3.8	0.0	0.0	8.9
74	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	54.1	0.1	-0.1	0.0	0.0	4.8	0.0	0.0	15.4
74	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	54.1	0.3	-1.0	0.0	0.0	4.8	0.0	0.0	13.6
74	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	54.1	0.5	-1.0	0.0	0.0	4.8	0.0	0.0	12.5
74	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	54.1	1.4	-1.0	0.0	0.0	4.9	0.0	0.0	10.8
74	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	54.1	4.7	-1.0	0.0	0.0	5.0	0.0	0.0	5.2
74	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	54.1	16.7	-1.0	0.0	0.0	5.2	0.0	0.0	-15.1

Area Source, ISO 9613, Name: "", ID: ""																				
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)
76	17564463.16	4818485.66	0.00	0	N	63	51.0	4.1	0.0	0.0	0.0	51.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	6.3
76	17564463.16	4818485.66	0.00	0	N	125	64.1	4.1	0.0	0.0	0.0	51.8	0.0	2.6	0.0	0.0	0.0	0.0	0.0	13.7
76	17564463.16	4818485.66	0.00	0	N	250	66.6	4.1	0.0	0.0	0.0	51.8	0.1	8.7	0.0	0.0	0.0	0.0	0.0	10.1
76	17564463.16	4818485.66	0.00	0	N	500	69.0	4.1	0.0	0.0	0.0	51.8	0.2	12.3	0.0	0.0	0.0	0.0	0.0	8.8
76	17564463.16	4818485.66	0.00	0	N	1000	69.2	4.1	0.0	0.0	0.0	51.8	0.4	4.3	0.0	0.0	0.0	0.0	0.0	16.8

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
76	17564463.16	4818485.66	0.00	0	N	2000	67.4	4.1	0.0	0.0	0.0	51.8	1.1	-0.1	0.0	0.0	0.0	0.0	0.0	18.7
76	17564463.16	4818485.66	0.00	0	N	4000	63.2	4.1	0.0	0.0	0.0	51.8	3.6	-0.1	0.0	0.0	0.0	0.0	0.0	12.0
76	17564463.16	4818485.66	0.00	0	N	8000	59.1	4.1	0.0	0.0	0.0	51.8	12.8	-0.1	0.0	0.0	0.0	0.0	0.0	-1.3
97	17564464.27	4818485.37	0.00	0	N	63	51.0	3.9	0.0	0.0	0.0	51.8	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	6.2
97	17564464.27	4818485.37	0.00	0	N	125	64.1	3.9	0.0	0.0	0.0	51.8	0.0	2.5	0.0	0.0	0.0	0.0	0.0	13.7
97	17564464.27	4818485.37	0.00	0	N	250	66.6	3.9	0.0	0.0	0.0	51.8	0.1	8.6	0.0	0.0	0.0	0.0	0.0	10.1
97	17564464.27	4818485.37	0.00	0	N	500	69.0	3.9	0.0	0.0	0.0	51.8	0.2	12.3	0.0	0.0	0.0	0.0	0.0	8.7
97	17564464.27	4818485.37	0.00	0	N	1000	69.2	3.9	0.0	0.0	0.0	51.8	0.4	4.3	0.0	0.0	0.0	0.0	0.0	16.7
97	17564464.27	4818485.37	0.00	0	N	2000	67.4	3.9	0.0	0.0	0.0	51.8	1.1	-0.2	0.0	0.0	0.0	0.0	0.0	18.7
97	17564464.27	4818485.37	0.00	0	N	4000	63.2	3.9	0.0	0.0	0.0	51.8	3.6	-0.2	0.0	0.0	0.0	0.0	0.0	12.0
97	17564464.27	4818485.37	0.00	0	N	8000	59.1	3.9	0.0	0.0	0.0	51.8	12.8	-0.2	0.0	0.0	0.0	0.0	0.0	-1.3

50% DUTY CYCLE

Receiver
Name: R7
ID: R7
X: 17564525.85 m
Y: 4818594.11 m
Z: 4.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
8	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	52.4	0.0	-3.0	0.0	0.0	8.2	0.0	0.0	14.8
8	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	52.4	0.0	2.6	0.0	0.0	8.7	0.0	0.0	16.7
8	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	52.4	0.1	1.2	0.0	0.0	12.6	0.0	0.0	20.6
8	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	52.4	0.2	0.0	0.0	0.0	16.5	0.0	0.0	17.3
8	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	52.4	0.4	0.0	0.0	0.0	19.3	0.0	0.0	12.5
8	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	52.4	1.1	0.0	0.0	0.0	19.7	0.0	0.0	9.6
8	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	52.4	3.9	0.0	0.0	0.0	19.8	0.0	0.0	4.5
8	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	52.4	13.8	0.0	0.0	0.0	19.9	0.0	0.0	-10.6

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
14	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	54.7	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	15.9
14	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	54.7	0.1	1.1	0.0	0.0	3.7	0.0	0.0	21.0
14	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	54.7	0.2	0.0	0.0	0.0	4.7	0.0	0.0	27.4
14	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	54.7	0.3	-0.9	0.0	0.0	4.8	0.0	0.0	27.5
14	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	54.7	0.6	-0.9	0.0	0.0	4.8	0.0	0.0	25.4
14	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	54.7	1.5	-0.9	0.0	0.0	4.8	0.0	0.0	22.7
14	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	54.7	5.0	-0.9	0.0	0.0	4.8	0.0	0.0	16.9
14	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	54.7	18.0	-0.9	0.0	0.0	4.8	0.0	0.0	-1.1

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
26	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	52.2	0.0	-3.0	0.0	0.0	8.9	0.0	0.0	-0.3
26	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	52.2	0.0	2.6	0.0	0.0	9.3	0.0	0.0	3.8
26	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	52.2	0.1	1.2	0.0	0.0	13.2	0.0	0.0	7.6
26	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	52.2	0.2	0.0	0.0	0.0	17.1	0.0	0.0	2.2
26	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	52.2	0.4	0.0	0.0	0.0	19.5	0.0	0.0	-1.1
26	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	52.2	1.1	0.0	0.0	0.0	19.8	0.0	0.0	-2.9
26	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	52.2	3.8	0.0	0.0	0.0	19.9	0.0	0.0	-7.9
26	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	52.2	13.4	0.0	0.0	0.0	19.9	0.0	0.0	-25.7

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
29	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	54.9	0.0	-3.0	0.0	0.0	1.8	0.0	0.0	4.1
29	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	54.9	0.1	1.1	0.0	0.0	1.2	0.0	0.0	10.6
29	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	54.9	0.2	0.0	0.0	0.0	1.7	0.0	0.0	17.5
29	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	54.9	0.3	-0.9	0.0	0.0	1.8	0.0	0.0	15.7
29	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	54.9	0.6	-0.9	0.0	0.0	1.8	0.0	0.0	14.6
29	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	54.9	1.5	-0.9	0.0	0.0	1.8	0.0	0.0	12.8
29	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	54.9	5.1	-0.9	0.0	0.0	1.8	0.0	0.0	7.0
29	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	54.9	18.4	-0.9	0.0	0.0	1.9	0.0	0.0	-14.4

Area Source, ISO 9613, Name: "", ID: ""																				
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)
59	17564463.16	4818485.66	0.00	0	N	63	51.0	4.1	0.0	0.0	0.0	53.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	5.1
59	17564463.16	4818485.66	0.00	0	N	125	64.1	4.1	0.0	0.0	0.0	53.0	0.1	2.7	0.0	0.0	0.0	0.0	0.0	12.4
59	17564463.16	4818485.66	0.00	0	N	250	66.6	4.1	0.0	0.0	0.0	53.0	0.1	8.9	0.0	0.0	0.0	0.0	0.0	8.6
59	17564463.16	4818485.66	0.00	0	N	500	69.0	4.1	0.0	0.0	0.0	53.0	0.2	12.7	0.0	0.0	0.0	0.0	0.0	7.1
59	17564463.16	4818485.66	0.00	0	N	1000	69.2	4.1	0.0	0.0	0.0	53.0	0.5	4.5	0.0	0.0	0.0	0.0	0.0	15.4

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
59	17564463.16	4818485.66	0.00	0	N	2000	67.4	4.1	0.0	0.0	0.0	53.0	1.2	-0.1	0.0	0.0	0.0	0.0	0.0	17.4
59	17564463.16	4818485.66	0.00	0	N	4000	63.2	4.1	0.0	0.0	0.0	53.0	4.1	-0.1	0.0	0.0	0.0	0.0	0.0	10.3
59	17564463.16	4818485.66	0.00	0	N	8000	59.1	4.1	0.0	0.0	0.0	53.0	14.7	-0.1	0.0	0.0	0.0	0.0	0.0	-4.3
63	17564464.27	4818485.37	0.00	0	N	63	51.0	3.9	0.0	0.0	0.0	52.9	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	5.0
63	17564464.27	4818485.37	0.00	0	N	125	64.1	3.9	0.0	0.0	0.0	52.9	0.1	2.6	0.0	0.0	0.0	0.0	0.0	12.4
63	17564464.27	4818485.37	0.00	0	N	250	66.6	3.9	0.0	0.0	0.0	52.9	0.1	8.9	0.0	0.0	0.0	0.0	0.0	8.6
63	17564464.27	4818485.37	0.00	0	N	500	69.0	3.9	0.0	0.0	0.0	52.9	0.2	12.7	0.0	0.0	0.0	0.0	0.0	7.1
63	17564464.27	4818485.37	0.00	0	N	1000	69.2	3.9	0.0	0.0	0.0	52.9	0.5	4.4	0.0	0.0	0.0	0.0	0.0	15.3
63	17564464.27	4818485.37	0.00	0	N	2000	67.4	3.9	0.0	0.0	0.0	52.9	1.2	-0.2	0.0	0.0	0.0	0.0	0.0	17.4
63	17564464.27	4818485.37	0.00	0	N	4000	63.2	3.9	0.0	0.0	0.0	52.9	4.1	-0.2	0.0	0.0	0.0	0.0	0.0	10.3
63	17564464.27	4818485.37	0.00	0	N	8000	59.1	3.9	0.0	0.0	0.0	52.9	14.6	-0.2	0.0	0.0	0.0	0.0	0.0	-4.3

50% DUTY CYCLE

Receiver
Name: R8
ID: R8
X: 17564543.27 m
Y: 4818381.98 m
Z: 13.50 m

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
12	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	50.8	0.0	-3.0	0.0	0.0	8.5	0.0	0.0	16.1
12	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	50.8	0.0	-0.9	0.0	0.0	10.9	0.0	0.0	19.8
12	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	50.8	0.1	-0.9	0.0	0.0	13.5	0.0	0.0	23.7
12	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	50.8	0.2	-0.9	0.0	0.0	16.2	0.0	0.0	20.2
12	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	50.8	0.4	-0.9	0.0	0.0	19.1	0.0	0.0	15.4
12	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	50.8	0.9	-0.9	0.0	0.0	19.9	0.0	0.0	12.2
12	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	50.8	3.2	-0.9	0.0	0.0	19.9	0.0	0.0	7.7
12	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	50.8	11.4	-0.9	0.0	0.0	20.0	0.0	0.0	-5.6

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
45	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	3.9	0.0	0.0	19.9
45	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	51.6	0.0	-1.7	0.0	0.0	4.7	0.0	0.0	25.9
45	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	51.6	0.1	-1.7	0.0	0.0	5.6	0.0	0.0	31.4
45	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	51.6	0.2	-1.7	0.0	0.0	6.8	0.0	0.0	29.5
45	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	51.6	0.4	-1.7	0.0	0.0	8.5	0.0	0.0	25.8
45	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	51.6	1.0	-1.7	0.0	0.0	10.6	0.0	0.0	21.3
45	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	51.6	3.5	-1.7	0.0	0.0	13.1	0.0	0.0	14.1
45	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	51.6	12.5	-1.7	0.0	0.0	15.8	0.0	0.0	-2.7

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
56	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	50.1	0.0	-3.0	0.0	0.0	8.1	0.0	0.0	2.6
56	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	50.1	0.0	-1.0	0.0	0.0	10.3	0.0	0.0	8.5
56	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	50.1	0.1	-1.0	0.0	0.0	12.9	0.0	0.0	12.4
56	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	50.1	0.2	-1.0	0.0	0.0	15.6	0.0	0.0	7.0
56	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	50.1	0.3	-1.0	0.0	0.0	18.4	0.0	0.0	3.2
56	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	50.1	0.9	-1.0	0.0	0.0	19.9	0.0	0.0	0.4
56	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	50.1	3.0	-1.0	0.0	0.0	19.9	0.0	0.0	-4.0
56	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	50.1	10.5	-1.0	0.0	0.0	20.0	0.0	0.0	-19.7

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
60	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	51.9	0.0	-3.0	0.0	0.0	4.8	0.0	0.0	4.1
60	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	51.9	0.0	-1.7	0.0	0.0	5.6	0.0	0.0	12.1
60	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	51.9	0.1	-1.7	0.0	0.0	6.7	0.0	0.0	17.4
60	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	51.9	0.2	-1.7	0.0	0.0	8.3	0.0	0.0	13.1
60	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	51.9	0.4	-1.7	0.0	0.0	10.3	0.0	0.0	10.1
60	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	51.9	1.1	-1.7	0.0	0.0	12.7	0.0	0.0	6.2
60	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	51.9	3.6	-1.7	0.0	0.0	15.4	0.0	0.0	-1.2
60	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	51.9	12.9	-1.7	0.0	0.0	18.2	0.0	0.0	-21.4

Area Source, ISO 9613, Name: "", ID: ""																				
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)
73	17564463.16	4818485.66	0.00	0	N	63	51.0	4.1	0.0	0.0	0.0	53.4	0.0	-3.0	0.0	0.0	12.2	0.0	0.0	-7.6
73	17564463.16	4818485.66	0.00	0	N	125	64.1	4.1	0.0	0.0	0.0	53.4	0.1	0.1	0.0	0.0	15.5	0.0	0.0	-0.9
73	17564463.16	4818485.66	0.00	0	N	250	66.6	4.1	0.0	0.0	0.0	53.4	0.1	7.6	0.0	0.0	15.2	0.0	0.0	-5.7
73	17564463.16	4818485.66	0.00	0	N	500	69.0	4.1	0.0	0.0	0.0	53.4	0.3	12.6	0.0	0.0	12.0	0.0	0.0	-5.2
73	17564463.16	4818485.66	0.00	0	N	1000	69.2	4.1	0.0	0.0	0.0	53.4	0.5	4.3	0.0	0.0	19.4	0.0	0.0	-4.3

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
73	17564463.16	4818485.66	0.00	0	N	2000	67.4	4.1	0.0	0.0	0.0	53.4	1.3	-0.3	0.0	0.0	23.4	0.0	0.0	-6.2
73	17564463.16	4818485.66	0.00	0	N	4000	63.2	4.1	0.0	0.0	0.0	53.4	4.3	-0.3	0.0	0.0	24.1	0.0	0.0	-14.2
73	17564463.16	4818485.66	0.00	0	N	8000	59.1	4.1	0.0	0.0	0.0	53.4	15.4	-0.3	0.0	0.0	24.5	0.0	0.0	-29.8
82	17564463.21	4818484.92	0.00	1	N	125	64.1	-10.2	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.4	0.0	2.0	-29.3
82	17564463.21	4818484.92	0.00	1	N	250	66.6	-10.2	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-27.1
82	17564463.21	4818484.92	0.00	1	N	500	69.0	-10.2	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-24.8
82	17564463.21	4818484.92	0.00	1	N	1000	69.2	-10.2	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-25.0
82	17564463.21	4818484.92	0.00	1	N	2000	67.4	-10.2	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-27.6
82	17564463.21	4818484.92	0.00	1	N	4000	63.2	-10.2	0.0	0.0	0.0	56.3	6.0	-0.2	0.0	0.0	25.0	0.0	2.0	-36.1
82	17564463.21	4818484.92	0.00	1	N	8000	59.1	-10.2	0.0	0.0	0.0	56.3	21.5	-0.2	0.0	0.0	25.0	0.0	2.0	-55.7
84	17564463.13	4818485.76	0.00	1	N	125	64.1	3.7	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.5	0.0	2.0	-15.5
84	17564463.13	4818485.76	0.00	1	N	250	66.6	3.7	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-13.2
84	17564463.13	4818485.76	0.00	1	N	500	69.0	3.7	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-11.0
84	17564463.13	4818485.76	0.00	1	N	1000	69.2	3.7	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-11.1
84	17564463.13	4818485.76	0.00	1	N	2000	67.4	3.7	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-13.8
84	17564463.13	4818485.76	0.00	1	N	4000	63.2	3.7	0.0	0.0	0.0	56.3	6.0	-0.2	0.0	0.0	25.0	0.0	2.0	-22.2
84	17564463.13	4818485.76	0.00	1	N	8000	59.1	3.7	0.0	0.0	0.0	56.3	21.5	-0.2	0.0	0.0	25.0	0.0	2.0	-41.8
86	17564464.27	4818485.37	0.00	0	N	63	51.0	3.9	0.0	0.0	0.0	53.3	0.0	-3.0	0.0	0.0	10.3	0.0	0.0	-5.6
86	17564464.27	4818485.37	0.00	0	N	125	64.1	3.9	0.0	0.0	0.0	53.3	0.1	0.1	0.0	0.0	13.4	0.0	0.0	1.3
86	17564464.27	4818485.37	0.00	0	N	250	66.6	3.9	0.0	0.0	0.0	53.3	0.1	7.6	0.0	0.0	14.6	0.0	0.0	-5.1
86	17564464.27	4818485.37	0.00	0	N	500	69.0	3.9	0.0	0.0	0.0	53.3	0.3	12.6	0.0	0.0	11.9	0.0	0.0	-5.2
86	17564464.27	4818485.37	0.00	0	N	1000	69.2	3.9	0.0	0.0	0.0	53.3	0.5	4.3	0.0	0.0	19.4	0.0	0.0	-4.3
86	17564464.27	4818485.37	0.00	0	N	2000	67.4	3.9	0.0	0.0	0.0	53.3	1.3	-0.3	0.0	0.0	23.3	0.0	0.0	-6.2
86	17564464.27	4818485.37	0.00	0	N	4000	63.2	3.9	0.0	0.0	0.0	53.3	4.3	-0.3	0.0	0.0	24.1	0.0	0.0	-14.2
86	17564464.27	4818485.37	0.00	0	N	8000	59.1	3.9	0.0	0.0	0.0	53.3	15.3	-0.3	0.0	0.0	24.5	0.0	0.0	-29.7
87	17564463.99	4818486.30	0.00	1	N	125	64.1	-4.2	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.5	0.0	2.0	-23.4
87	17564463.99	4818486.30	0.00	1	N	250	66.6	-4.2	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-21.1
87	17564463.99	4818486.30	0.00	1	N	500	69.0	-4.2	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-18.9
87	17564463.99	4818486.30	0.00	1	N	1000	69.2	-4.2	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-19.0
87	17564463.99	4818486.30	0.00	1	N	2000	67.4	-4.2	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-21.7
87	17564463.99	4818486.30	0.00	1	N	4000	63.2	-4.2	0.0	0.0	0.0	56.3	6.0	-0.2	0.0	0.0	25.0	0.0	2.0	-30.1
87	17564463.99	4818486.30	0.00	1	N	8000	59.1	-4.2	0.0	0.0	0.0	56.3	21.5	-0.2	0.0	0.0	25.0	0.0	2.0	-49.7
94	17564464.31	4818485.21	0.00	1	N	125	64.1	3.2	0.0	0.0	0.0	56.3	0.1	0.4	0.0	0.0	24.4	0.0	2.0	-15.9
94	17564464.31	4818485.21	0.00	1	N	250	66.6	3.2	0.0	0.0	0.0	56.3	0.2	8.1	0.0	0.0	16.9	0.0	2.0	-13.7
94	17564464.31	4818485.21	0.00	1	N	500	69.0	3.2	0.0	0.0	0.0	56.3	0.4	13.4	0.0	0.0	11.6	0.0	2.0	-11.5
94	17564464.31	4818485.21	0.00	1	N	1000	69.2	3.2	0.0	0.0	0.0	56.3	0.7	4.6	0.0	0.0	20.4	0.0	2.0	-11.6
94	17564464.31	4818485.21	0.00	1	N	2000	67.4	3.2	0.0	0.0	0.0	56.3	1.8	-0.2	0.0	0.0	25.0	0.0	2.0	-14.3
94	17564464.31	4818485.21	0.00	1	N	4000	63.2	3.2	0.0	0.0	0.0	56.3	6.1	-0.2	0.0	0.0	25.0	0.0	2.0	-22.8
94	17564464.31	4818485.21	0.00	1	N	8000	59.1	3.2	0.0	0.0	0.0	56.3	21.6	-0.2	0.0	0.0	25.0	0.0	2.0	-42.4

50% DUTY CYCLE

Receiver
Name: R9
ID: R9
X: 17564639.58 m
Y: 4818424.29 m
Z: 13.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
17	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	1.8	0.0	0.0	22.0
17	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	51.6	0.0	-1.7	0.0	0.0	1.8	0.0	0.0	28.8
17	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	51.6	0.1	-1.7	0.0	0.0	1.8	0.0	0.0	35.3
17	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	51.6	0.2	-1.7	0.0	0.0	1.8	0.0	0.0	34.6
17	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	51.6	0.4	-1.7	0.0	0.0	1.8	0.0	0.0	32.6
17	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	51.6	1.0	-1.7	0.0	0.0	1.8	0.0	0.0	30.1
17	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	51.6	3.5	-1.7	0.0	0.0	1.9	0.0	0.0	25.3
17	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	51.6	12.5	-1.7	0.0	0.0	2.0	0.0	0.0	11.1

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
20	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	55.3	0.0	-3.0	0.0	0.0	2.2	0.0	0.0	18.0
20	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	55.3	0.1	-1.8	0.0	0.0	2.5	0.0	0.0	24.5
20	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	55.3	0.2	-1.8	0.0	0.0	2.9	0.0	0.0	30.5
20	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	55.3	0.3	-1.8	0.0	0.0	3.4	0.0	0.0	29.2
20	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	55.3	0.6	-1.8	0.0	0.0	3.9	0.0	0.0	26.7
20	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	55.3	1.6	-1.8	0.0	0.0	4.3	0.0	0.0	23.5
20	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	55.3	5.4	-1.8	0.0	0.0	4.6	0.0	0.0	17.2
20	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	55.3	19.1	-1.8	0.0	0.0	4.9	0.0	0.0	-1.9

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
33	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	51.6	0.0	-3.0	0.0	0.0	4.9	0.0	0.0	4.3
33	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	51.6	0.0	-1.7	0.0	0.0	5.1	0.0	0.0	12.9
33	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	51.6	0.1	-1.7	0.0	0.0	5.3	0.0	0.0	19.1
33	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	51.6	0.2	-1.7	0.0	0.0	5.8	0.0	0.0	15.9
33	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	51.6	0.4	-1.7	0.0	0.0	6.6	0.0	0.0	14.1
33	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	51.6	1.0	-1.7	0.0	0.0	7.9	0.0	0.0	11.4
33	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	51.6	3.5	-1.7	0.0	0.0	9.7	0.0	0.0	4.9
33	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	51.6	12.5	-1.7	0.0	0.0	12.0	0.0	0.0	-14.5

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
55	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	55.0	0.0	-3.0	0.0	0.0	1.9	0.0	0.0	3.9
55	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	55.0	0.1	-1.9	0.0	0.0	2.0	0.0	0.0	12.8
55	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	55.0	0.2	-1.9	0.0	0.0	2.2	0.0	0.0	19.0
55	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	55.0	0.3	-1.9	0.0	0.0	2.5	0.0	0.0	16.0
55	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	55.0	0.6	-1.9	0.0	0.0	2.9	0.0	0.0	14.5
55	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	55.0	1.5	-1.9	0.0	0.0	3.5	0.0	0.0	12.1
55	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	55.0	5.2	-1.9	0.0	0.0	4.1	0.0	0.0	5.7
55	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	55.0	18.4	-1.9	0.0	0.0	4.8	0.0	0.0	-16.4

Area Source, ISO 9613, Name: "", ID: ""																				
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)
70	17564463.36	4818485.01	0.00	0	N	63	51.0	0.2	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	7.9	0.0	0.0	-10.2
70	17564463.36	4818485.01	0.00	0	N	125	64.1	0.2	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.0	0.0	0.0	-2.0
70	17564463.36	4818485.01	0.00	0	N	250	66.6	0.2	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.4	0.0	0.0	-8.8
70	17564463.36	4818485.01	0.00	0	N	500	69.0	0.2	0.0	0.0	0.0	56.4	0.4	12.8	0.0	0.0	10.5	0.0	0.0	-10.9
70	17564463.36	4818485.01	0.00	0	N	1000	69.2	0.2	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.3	0.0	0.0	-8.0

Area Source, ISO 9613, Name: "", ID: ""																				
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)
70	17564463.36	4818485.01	0.00	0	N	2000	67.4	0.2	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.5	0.0	0.0	-9.3
70	17564463.36	4818485.01	0.00	0	N	4000	63.2	0.2	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.4	0.0	0.0	-19.7
70	17564463.36	4818485.01	0.00	0	N	8000	59.1	0.2	0.0	0.0	0.0	56.4	21.8	-0.9	0.0	0.0	22.8	0.0	0.0	-41.0
88	17564462.93	4818485.59	0.00	0	N	63	51.0	-12.3	0.0	0.0	0.0	56.5	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	-22.7
88	17564462.93	4818485.59	0.00	0	N	125	64.1	-12.3	0.0	0.0	0.0	56.5	0.1	-0.2	0.0	0.0	10.1	0.0	0.0	-14.6
88	17564462.93	4818485.59	0.00	0	N	250	66.6	-12.3	0.0	0.0	0.0	56.5	0.2	7.5	0.0	0.0	11.5	0.0	0.0	-21.3
88	17564462.93	4818485.59	0.00	0	N	500	69.0	-12.3	0.0	0.0	0.0	56.5	0.4	12.8	0.0	0.0	10.5	0.0	0.0	-23.4
88	17564462.93	4818485.59	0.00	0	N	1000	69.2	-12.3	0.0	0.0	0.0	56.5	0.7	4.0	0.0	0.0	16.4	0.0	0.0	-20.6
88	17564462.93	4818485.59	0.00	0	N	2000	67.4	-12.3	0.0	0.0	0.0	56.5	1.8	-0.9	0.0	0.0	19.6	0.0	0.0	-21.9
88	17564462.93	4818485.59	0.00	0	N	4000	63.2	-12.3	0.0	0.0	0.0	56.5	6.1	-0.9	0.0	0.0	21.5	0.0	0.0	-32.3
88	17564462.93	4818485.59	0.00	0	N	8000	59.1	-12.3	0.0	0.0	0.0	56.5	21.9	-0.9	0.0	0.0	22.9	0.0	0.0	-53.6
95	17564463.02	4818486.13	0.00	0	N	63	51.0	1.6	0.0	0.0	0.0	56.5	0.0	-3.0	0.0	0.0	8.1	0.0	0.0	-9.0
95	17564463.02	4818486.13	0.00	0	N	125	64.1	1.6	0.0	0.0	0.0	56.5	0.1	-0.2	0.0	0.0	10.3	0.0	0.0	-0.9
95	17564463.02	4818486.13	0.00	0	N	250	66.6	1.6	0.0	0.0	0.0	56.5	0.2	7.5	0.0	0.0	11.7	0.0	0.0	-7.6
95	17564463.02	4818486.13	0.00	0	N	500	69.0	1.6	0.0	0.0	0.0	56.5	0.4	12.8	0.0	0.0	10.6	0.0	0.0	-9.6
95	17564463.02	4818486.13	0.00	0	N	1000	69.2	1.6	0.0	0.0	0.0	56.5	0.7	4.0	0.0	0.0	16.6	0.0	0.0	-6.9
95	17564463.02	4818486.13	0.00	0	N	2000	67.4	1.6	0.0	0.0	0.0	56.5	1.8	-0.9	0.0	0.0	19.8	0.0	0.0	-8.2
95	17564463.02	4818486.13	0.00	0	N	4000	63.2	1.6	0.0	0.0	0.0	56.5	6.1	-0.9	0.0	0.0	21.7	0.0	0.0	-18.6
95	17564463.02	4818486.13	0.00	0	N	8000	59.1	1.6	0.0	0.0	0.0	56.5	21.9	-0.9	0.0	0.0	23.0	0.0	0.0	-39.8
100	17564464.10	4818485.94	0.00	0	N	63	51.0	0.7	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	8.2	0.0	0.0	-9.9
100	17564464.10	4818485.94	0.00	0	N	125	64.1	0.7	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.4	0.0	0.0	-1.8
100	17564464.10	4818485.94	0.00	0	N	250	66.6	0.7	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.7	0.0	0.0	-8.5
100	17564464.10	4818485.94	0.00	0	N	500	69.0	0.7	0.0	0.0	0.0	56.4	0.4	12.7	0.0	0.0	10.6	0.0	0.0	-10.5
100	17564464.10	4818485.94	0.00	0	N	1000	69.2	0.7	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.6	0.0	0.0	-7.8
100	17564464.10	4818485.94	0.00	0	N	2000	67.4	0.7	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.9	0.0	0.0	-9.1
100	17564464.10	4818485.94	0.00	0	N	4000	63.2	0.7	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.7	0.0	0.0	-19.4
100	17564464.10	4818485.94	0.00	0	N	8000	59.1	0.7	0.0	0.0	0.0	56.4	21.8	-0.9	0.0	0.0	23.0	0.0	0.0	-40.5
103	17564464.50	4818485.19	0.00	0	N	63	51.0	-3.3	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	-13.7
103	17564464.50	4818485.19	0.00	0	N	125	64.1	-3.3	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.2	0.0	0.0	-5.6
103	17564464.50	4818485.19	0.00	0	N	250	66.6	-3.3	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.6	0.0	0.0	-12.3
103	17564464.50	4818485.19	0.00	0	N	500	69.0	-3.3	0.0	0.0	0.0	56.4	0.4	12.8	0.0	0.0	10.6	0.0	0.0	-14.3
103	17564464.50	4818485.19	0.00	0	N	1000	69.2	-3.3	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.5	0.0	0.0	-11.6
103	17564464.50	4818485.19	0.00	0	N	2000	67.4	-3.3	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.7	0.0	0.0	-12.9
103	17564464.50	4818485.19	0.00	0	N	4000	63.2	-3.3	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.6	0.0	0.0	-23.2
103	17564464.50	4818485.19	0.00	0	N	8000	59.1	-3.3	0.0	0.0	0.0	56.4	21.7	-0.9	0.0	0.0	23.0	0.0	0.0	-44.3
106	17564464.37	4818484.66	0.00	0	N	63	51.0	-0.8	0.0	0.0	0.0	56.4	0.0	-3.0	0.0	0.0	7.9	0.0	0.0	-11.1
106	17564464.37	4818484.66	0.00	0	N	125	64.1	-0.8	0.0	0.0	0.0	56.4	0.1	-0.2	0.0	0.0	10.0	0.0	0.0	-2.9
106	17564464.37	4818484.66	0.00	0	N	250	66.6	-0.8	0.0	0.0	0.0	56.4	0.2	7.5	0.0	0.0	11.4	0.0	0.0	-9.7
106	17564464.37	4818484.66	0.00	0	N	500	69.0	-0.8	0.0	0.0	0.0	56.4	0.4	12.8	0.0	0.0	10.5	0.0	0.0	-11.8
106	17564464.37	4818484.66	0.00	0	N	1000	69.2	-0.8	0.0	0.0	0.0	56.4	0.7	4.0	0.0	0.0	16.3	0.0	0.0	-8.9
106	17564464.37	4818484.66	0.00	0	N	2000	67.4	-0.8	0.0	0.0	0.0	56.4	1.8	-0.9	0.0	0.0	19.5	0.0	0.0	-10.2
106	17564464.37	4818484.66	0.00	0	N	4000	63.2	-0.8	0.0	0.0	0.0	56.4	6.1	-0.9	0.0	0.0	21.4	0.0	0.0	-20.6
106	17564464.37	4818484.66	0.00	0	N	8000	59.1	-0.8	0.0	0.0	0.0	56.4	21.7	-0.9	0.0	0.0	22.9	0.0	0.0	-41.8

Receiver
Name: R10
ID: R10
X: 17564604.27 m
Y: 4818482.64 m
Z: 13.50 m

Point Source, ISO 9613, Name: "Bldg 2 - CT", ID: "125GOR_B"																				
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)
21	17564554.95	4818485.17	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	45.9	0.0	-3.0	0.0	0.0	7.3	0.0	0.0	22.2
21	17564554.95	4818485.17	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	45.9	0.0	-1.3	0.0	0.0	9.3	0.0	0.0	26.5
21	17564554.95	4818485.17	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	45.9	0.1	-1.3	0.0	0.0	11.7	0.0	0.0	30.6
21	17564554.95	4818485.17	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	45.9	0.1	-1.3	0.0	0.0	14.4	0.0	0.0	27.3
21	17564554.95	4818485.17	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	45.9	0.2	-1.3	0.0	0.0	17.2	0.0	0.0	22.5
21	17564554.95	4818485.17	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	45.9	0.5	-1.3	0.0	0.0	19.6	0.0	0.0	18.1
21	17564554.95	4818485.17	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	45.9	1.8	-1.3	0.0	0.0	19.8	0.0	0.0	14.4
21	17564554.95	4818485.17	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	45.9	6.5	-1.3	0.0	0.0	19.9	0.0	0.0	4.5

Point Source, ISO 9613, Name: "Bldg 1 - CT", ID: "125GOR_A"																				
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)
34	17564480.26	4818451.47	39.00	0	N	63	72.4	0.0	0.0	0.0	0.0	53.3	0.0	-3.0	0.0	0.0	10.1	0.0	0.0	12.0
34	17564480.26	4818451.47	39.00	0	N	125	80.5	0.0	0.0	0.0	0.0	53.3	0.1	-1.1	0.0	0.0	12.6	0.0	0.0	15.7
34	17564480.26	4818451.47	39.00	0	N	250	87.0	0.0	0.0	0.0	0.0	53.3	0.1	-1.1	0.0	0.0	15.3	0.0	0.0	19.4
34	17564480.26	4818451.47	39.00	0	N	500	86.4	0.0	0.0	0.0	0.0	53.3	0.3	-1.1	0.0	0.0	18.1	0.0	0.0	15.8
34	17564480.26	4818451.47	39.00	0	N	1000	84.6	0.0	0.0	0.0	0.0	53.3	0.5	-1.1	0.0	0.0	19.8	0.0	0.0	12.2
34	17564480.26	4818451.47	39.00	0	N	2000	82.8	0.0	0.0	0.0	0.0	53.3	1.3	-1.1	0.0	0.0	19.9	0.0	0.0	9.5
34	17564480.26	4818451.47	39.00	0	N	4000	80.6	0.0	0.0	0.0	0.0	53.3	4.3	-1.1	0.0	0.0	19.9	0.0	0.0	4.2
34	17564480.26	4818451.47	39.00	0	N	8000	75.5	0.0	0.0	0.0	0.0	53.3	15.2	-1.1	0.0	0.0	20.0	0.0	0.0	-11.9

Point Source, ISO 9613, Name: "Bldg 2 - MUA", ID: "125GOR_B"																				
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)
38	17564557.62	4818488.73	38.00	0	N	63	57.8	0.0	0.0	0.0	0.0	45.5	0.0	-3.0	0.0	0.0	8.0	0.0	0.0	7.3
38	17564557.62	4818488.73	38.00	0	N	125	67.9	0.0	0.0	0.0	0.0	45.5	0.0	-0.6	0.0	0.0	10.1	0.0	0.0	12.9
38	17564557.62	4818488.73	38.00	0	N	250	74.4	0.0	0.0	0.0	0.0	45.5	0.1	-0.6	0.0	0.0	12.6	0.0	0.0	16.9
38	17564557.62	4818488.73	38.00	0	N	500	71.8	0.0	0.0	0.0	0.0	45.5	0.1	-0.6	0.0	0.0	15.4	0.0	0.0	11.5
38	17564557.62	4818488.73	38.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	45.5	0.2	-0.6	0.0	0.0	18.2	0.0	0.0	7.7
38	17564557.62	4818488.73	38.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	45.5	0.5	-0.6	0.0	0.0	19.7	0.0	0.0	5.1
38	17564557.62	4818488.73	38.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	45.5	1.7	-0.6	0.0	0.0	19.9	0.0	0.0	1.5
38	17564557.62	4818488.73	38.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	45.5	6.2	-0.6	0.0	0.0	19.9	0.0	0.0	-11.1

Point Source, ISO 9613, Name: "Bldg 1 - MUA", ID: "125GOR_A"																				
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)
42	17564485.40	4818446.23	39.00	0	N	63	57.8	0.0	0.0	0.0	0.0	53.1	0.0	-3.0	0.0	0.0	9.2	0.0	0.0	-1.5
42	17564485.40	4818446.23	39.00	0	N	125	67.9	0.0	0.0	0.0	0.0	53.1	0.1	-1.2	0.0	0.0	11.5	0.0	0.0	4.5
42	17564485.40	4818446.23	39.00	0	N	250	74.4	0.0	0.0	0.0	0.0	53.1	0.1	-1.2	0.0	0.0	14.1	0.0	0.0	8.3
42	17564485.40	4818446.23	39.00	0	N	500	71.8	0.0	0.0	0.0	0.0	53.1	0.2	-1.2	0.0	0.0	16.9	0.0	0.0	2.8
42	17564485.40	4818446.23	39.00	0	N	1000	71.0	0.0	0.0	0.0	0.0	53.1	0.5	-1.2	0.0	0.0	19.7	0.0	0.0	-1.0
42	17564485.40	4818446.23	39.00	0	N	2000	70.2	0.0	0.0	0.0	0.0	53.1	1.2	-1.2	0.0	0.0	19.8	0.0	0.0	-2.7
42	17564485.40	4818446.23	39.00	0	N	4000	68.0	0.0	0.0	0.0	0.0	53.1	4.2	-1.2	0.0	0.0	19.9	0.0	0.0	-7.9
42	17564485.40	4818446.23	39.00	0	N	8000	59.9	0.0	0.0	0.0	0.0	53.1	14.8	-1.2	0.0	0.0	20.0	0.0	0.0	-26.7

Area Source, ISO 9613, Name: "", ID: ""																				
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)
47	17564463.30	4818485.21	0.00	0	N	63	51.0	1.8	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-12.8
47	17564463.30	4818485.21	0.00	0	N	125	64.1	1.8	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-5.8
47	17564463.30	4818485.21	0.00	0	N	250	66.6	1.8	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-9.6
47	17564463.30	4818485.21	0.00	0	N	500	69.0	1.8	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-8.3
47	17564463.30	4818485.21	0.00	0	N	1000	69.2	1.8	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-8.0

ON-SITE ROOFTOP HVAC MECHANICAL SYSTEMS -NIGHTTIME

Area Source, ISO 9613, Name: "", ID: ""																				
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)
47	17564463.30	4818485.21	0.00	0	N	2000	67.4	1.8	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-9.8
47	17564463.30	4818485.21	0.00	0	N	4000	63.2	1.8	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-17.6
47	17564463.30	4818485.21	0.00	0	N	8000	59.1	1.8	0.0	0.0	0.0	54.0	16.6	-0.9	0.0	0.0	24.9	0.0	0.0	-33.7
67	17564462.84	4818485.88	0.00	0	N	63	51.0	-14.5	0.0	0.0	0.0	54.1	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-29.1
67	17564462.84	4818485.88	0.00	0	N	125	64.1	-14.5	0.0	0.0	0.0	54.1	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-22.0
67	17564462.84	4818485.88	0.00	0	N	250	66.6	-14.5	0.0	0.0	0.0	54.1	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-25.9
67	17564462.84	4818485.88	0.00	0	N	500	69.0	-14.5	0.0	0.0	0.0	54.1	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-24.6
67	17564462.84	4818485.88	0.00	0	N	1000	69.2	-14.5	0.0	0.0	0.0	54.1	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-24.3
67	17564462.84	4818485.88	0.00	0	N	2000	67.4	-14.5	0.0	0.0	0.0	54.1	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-26.1
67	17564462.84	4818485.88	0.00	0	N	4000	63.2	-14.5	0.0	0.0	0.0	54.1	4.7	-0.9	0.0	0.0	24.8	0.0	0.0	-33.9
67	17564462.84	4818485.88	0.00	0	N	8000	59.1	-14.5	0.0	0.0	0.0	54.1	16.6	-0.9	0.0	0.0	24.9	0.0	0.0	-50.1
91	17564462.96	4818486.32	0.00	0	N	63	51.0	0.0	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-14.6
91	17564462.96	4818486.32	0.00	0	N	125	64.1	0.0	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-7.5
91	17564462.96	4818486.32	0.00	0	N	250	66.6	0.0	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-11.3
91	17564462.96	4818486.32	0.00	0	N	500	69.0	0.0	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-10.1
91	17564462.96	4818486.32	0.00	0	N	1000	69.2	0.0	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-9.8
91	17564462.96	4818486.32	0.00	0	N	2000	67.4	0.0	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-11.6
91	17564462.96	4818486.32	0.00	0	N	4000	63.2	0.0	0.0	0.0	0.0	54.0	4.7	-0.9	0.0	0.0	24.8	0.0	0.0	-19.4
91	17564462.96	4818486.32	0.00	0	N	8000	59.1	0.0	0.0	0.0	0.0	54.0	16.6	-0.9	0.0	0.0	24.9	0.0	0.0	-35.5
107	17564463.81	4818486.29	0.00	0	N	63	51.0	-2.0	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.6	0.0	0.0	-16.6
107	17564463.81	4818486.29	0.00	0	N	125	64.1	-2.0	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-9.5
107	17564463.81	4818486.29	0.00	0	N	250	66.6	-2.0	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-13.3
107	17564463.81	4818486.29	0.00	0	N	500	69.0	-2.0	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-12.1
107	17564463.81	4818486.29	0.00	0	N	1000	69.2	-2.0	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-11.8
107	17564463.81	4818486.29	0.00	0	N	2000	67.4	-2.0	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-13.6
107	17564463.81	4818486.29	0.00	0	N	4000	63.2	-2.0	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-21.3
107	17564463.81	4818486.29	0.00	0	N	8000	59.1	-2.0	0.0	0.0	0.0	54.0	16.5	-0.9	0.0	0.0	24.9	0.0	0.0	-37.4
112	17564464.37	4818485.41	0.00	0	N	63	51.0	-0.1	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-14.6
112	17564464.37	4818485.41	0.00	0	N	125	64.1	-0.1	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-7.6
112	17564464.37	4818485.41	0.00	0	N	250	66.6	-0.1	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-11.4
112	17564464.37	4818485.41	0.00	0	N	500	69.0	-0.1	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-10.1
112	17564464.37	4818485.41	0.00	0	N	1000	69.2	-0.1	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-9.8
112	17564464.37	4818485.41	0.00	0	N	2000	67.4	-0.1	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-11.6
112	17564464.37	4818485.41	0.00	0	N	4000	63.2	-0.1	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-19.4
112	17564464.37	4818485.41	0.00	0	N	8000	59.1	-0.1	0.0	0.0	0.0	54.0	16.4	-0.9	0.0	0.0	24.9	0.0	0.0	-35.4
113	17564464.47	4818484.66	0.00	0	N	63	51.0	-0.6	0.0	0.0	0.0	54.0	0.0	-3.0	0.0	0.0	14.5	0.0	0.0	-15.0
113	17564464.47	4818484.66	0.00	0	N	125	64.1	-0.6	0.0	0.0	0.0	54.0	0.1	-0.4	0.0	0.0	18.0	0.0	0.0	-8.0
113	17564464.47	4818484.66	0.00	0	N	250	66.6	-0.6	0.0	0.0	0.0	54.0	0.1	7.2	0.0	0.0	16.6	0.0	0.0	-11.8
113	17564464.47	4818484.66	0.00	0	N	500	69.0	-0.6	0.0	0.0	0.0	54.0	0.3	12.3	0.0	0.0	12.5	0.0	0.0	-10.6
113	17564464.47	4818484.66	0.00	0	N	1000	69.2	-0.6	0.0	0.0	0.0	54.0	0.5	3.8	0.0	0.0	20.6	0.0	0.0	-10.3
113	17564464.47	4818484.66	0.00	0	N	2000	67.4	-0.6	0.0	0.0	0.0	54.0	1.4	-0.9	0.0	0.0	24.5	0.0	0.0	-12.1
113	17564464.47	4818484.66	0.00	0	N	4000	63.2	-0.6	0.0	0.0	0.0	54.0	4.6	-0.9	0.0	0.0	24.8	0.0	0.0	-19.8
113	17564464.47	4818484.66	0.00	0	N	8000	59.1	-0.6	0.0	0.0	0.0	54.0	16.4	-0.9	0.0	0.0	24.9	0.0	0.0	-35.8

50% DUTY CYCLE

APPENDIX D: NOISE CRITERIA

The noise study will be based on the following criteria for residential units as required by the City of Guelph and the Ministry of the Environment, Conservation and Parks:

SOUND LEVEL LIMITS ROAD AND RAIL			
Type of Space	**Time Period**	**L_{eq} (dBA)**	
		Road	**Rail**
INDOOR LIMITS			
Living/dining, den areas of residences, hospitals, nursing homes, schools, daycare centres, etc.	07:00 – 23:00	45	40
Living/dining, den areas of residences, hospitals, nursing homes, etc. (except schools or daycare centres)	23:00 – 07:00	45	40
Sleeping quarters	07:00 – 23:00	45	40
	23:00 – 07:00	40	35
OUTDOOR LIMITS			
Outdoor recreation areas[1]	07:00 – 23:00	55	55
Plane of window	23:00 – 07:00	50	50
Plane of window	07:00 – 23:00	55	55

[1] Up to 5 dB excess above criteria is allowed, provided a warning clause is given. Above 60 dB L_{eq}, exterior noise mitigation measures (i.e. noise barriers, intervening structures, additional setback from source) are required.

All calculations were based on the Site Plan provided by Stantec, dated August 5, 2020.

L_{eq}

The L_{eq} is defined as the mean energy of the sound level averaged over the measurement period. It can be considered as the continuous steady sound level which would have the same acoustic energy as the real fluctuating noise measured over the same period of time.

APPENDIX E: REFERENCES

1. City of Guelph Noise Control Guidelines, Version 1.0, November 2018.

2. Ministry of the Environment, “Publication NPC-300, Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning”, August 2013.

3. Ministry of Environment and Energy *STAMSON* Computer Programme (*Version 5.04* for the IBM PC.

4. Ministry of Environment and Energy, *ORNAMENT*, Ontario Road Noise Analysis Method for Environment and Transportation, November 1988.

5. Cadna/A Computer Aided Noise Abatement, Version 2022 Build: 189.5221.