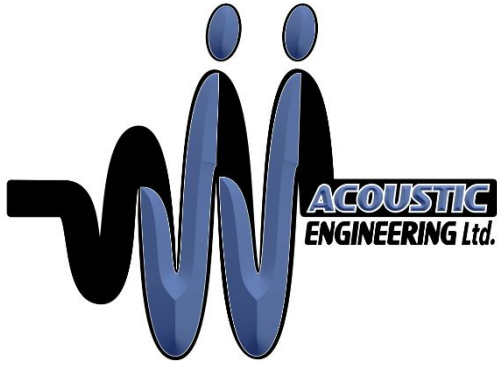




Road/Rail Traffic and Stationary Noise Impact Study

Livwell Stoney Creek – 1310 South Service Road, Hamilton

JJ-00823 NIS1



August 27, 2026,

Reference No. JJ-00823-NIS1

Dave Gerrard
Livwell
499 Brant Street, Burlington, Ontario
L7R 2G5

Dear Mr. Gerrard:

**Re: Road/Rail Traffic and Stationary Noise Impact Study
Livwell Stoney Creek – 1310 South Service Road, Hamilton, Ontario**

1. Introduction

JJ Acoustic Engineering Ltd. (JJAE) was retained to complete a Road/Rail Traffic and Stationary Noise Impact Study (Study) for the residential development located at 1310 South Service Road in Hamilton, Ontario (Site). The Site will be developed into two 9-storey apartment buildings. JJAE has provided a copy of the most up-to-date Site Plan in Attachment A.

The Study was prepared consistent with Ontario Ministry of the Environment, Conservation and Parks (MOECP) NPC 300, "Environmental Noise Guideline, Stationary and Transportation Sources—Approval and Planning" dated August 2013.

This Study has determined that the potential environmental noise impact from road and rail traffic noise is significant. The proposed development will need the following: a requirement for central air-conditioning, noise warning clauses, and special building components. Road traffic noise control requirements for the Site were determined based on road traffic volumes provided by the Region of Hamilton (Region) and forecasted to 10 years from the date of this study.

JJ Acoustic Engineering Ltd.
joey@jjae.ca
226-346-6473

The following attachments were included with this Study:

- Attachment A – Site Plan
- Attachment B – Traffic Data Summary Table & Sample Stamson Traffic Model Outputs
- Attachment C – Stationary Noise Impact Figures, Protocol Output
- Attachment D – Stationary Noise Impact Source Table

2. Road/Rail Traffic Analysis

2.1 Road Traffic Noise Modeling Methodology

The road traffic noise impact was conducted using STAMSON, the MOECP's computerized model of ORNAMENT. The Application of the model for the site was consistent with the ORNAMENT technical documents. The computer model input parameters include, among other data, the number of road segments, number of house rows, the positional relationship of the receptor to a noise source or barrier in terms of distance, elevation and angle of exposure to the source, the basic site topography, the ground surface type, traffic volumes, traffic composition and speed limit.

The predicted sound level is based on the 1-hour equivalent sound level, designated as Leq, and is adjusted by the STAMSON program to the 16-hour daytime and the 8-hour nighttime equivalent sound level. The applicable noise criteria for noise sensitive spaces are specified in terms of the 16-hour daytime period (7:00 a.m. to 11:00 p.m.) and 8-hour nighttime period (11:00 p.m. to 7:00 a.m.) enabling a direct comparison between the STAMSON model output and the noise limits.

Where there are multiple sources of noise, such as road and rail, JJAЕ evaluated noise control measures by combining both road and rail sources and applying measures as described in Section C7.3 of NPC 300.

2.2 Road and Rail Traffic Model Input Parameters

This section describes the STAMSON model input parameters used to predict road traffic noise impact for the Site.

The Site has one significant roadway in the vicinity of the development: Queen Elizabeth Highway approximately 95 meters to the North of Building A. Where there are intervening and off-site structures that provide line-of-sight obstruction to the roads, JJAЕ did not include line-of-sight obstruction in our analysis as to calculate worst-case noise impact.

JJAЕ reviewed other surrounding roadways in the vicinity of the Site and only the significant roadways were used in our modeling, other roadways were considered to be insignificant or beyond our red flag zone.

The highway noise impact is sufficient to dominate noise from South Service Road, located approximately 45 meters north of Building A; therefore, South Service Road was excluded from this study.

2.2.1 Road Traffic Parameters

The traffic data provided by the Region has been summarized below:

Queen Elizabeth Highway (QEW):

- Current AADT (2024): 151,408
- Forecast AADT (2036): 203,627
- Commercial Vehicle Rates: 3% medium trucks and 7% heavy trucks
- Posted Speed Limit: 100 km/h¹
- Day Night Splits: 66.67% day and 33.33% night

The traffic data is the foundation of this analysis and the Study will be updated if the values change. JJAЕ assumed 2.5% annual growth to forecast AADT. Traffic data was supplied by the Region with a 10% truck traffic, JJAЕ assumed a conservative 7% heavy trucks and 3% medium trucks. The Region's AADT report for this Noise Studies report has been supplied in Attachment B.

2.2.2 Rail Traffic Parameters

The Rail data provided by CN has been summarized below. Future values were determined using an assumed Percentage Annual Growth of 2.5% over 10 years and based on the existing combined two-way rail traffic volume parameters as summarized below:

CN Freight	CN Passenger
4 Daytime Trains	2 Daytime Train
0 Nighttime Trains	0 Nighttime Trains
4 Locomotives	2 Locomotives
140 Cars	10 Cars
Speed of 97km/h	Speed of 105km/h

It must be noted that JJAЕ used the following values for calculating the crossing angle for CN train whistles at the at-grade crossing on Winona Rd.

At Grade Crossing Angle for Whistling, Bldg A			At Grade Crossing Angle for Whistling, Bldg B		
At Winona Rd:			At Winona Rd:		
Distance to crossing	435	m	Distance to crossing	480	m
Perpendicular to South Façade	350	m	Perpendicular to South Façade	350	m
Angle:	36	Degrees	Angle:	43	Degrees

¹ The posted speed limit for the highway is 110 km/h. The STAMSON parameter is 100 km/h maximum.

2.3 Road Traffic and Rail Noise Modeling Results

JJAE calculated the Plane of Window (POW) noise exposure for each floor at the Site for the separate daytime and nighttime periods.

The STAMSON road traffic model outputs are provided in Attachment B.

2.4 Road Traffic Modeling Discussion

Noise control requirements will be defined based on NPC 300.

Daytime Outdoor Living Area Assessment (NPC 300, Section C7.1.1)

NPC 300 section A5 (pages 13-14) defines an Outdoor Living Area (OLA). As part of this definition, a balcony or terrace is considered an OLA if it has a minimum depth of 4 meters. All balconies are less than 4 m in depth and therefore will not be considered as OLAs.

The Site does not have any feasible location for an OLA and thus, JJAE has not provided any calculations for an OLA at the Site.

Plane of a Window – Ventilation Requirements (NPC 300, Section C7.1.2)

The predicted daytime and nighttime Plane of Window (POW) noise impact assumes a worst-case and direct line of sight noise exposure to both roads, unless the building itself blocks line-of-sight (full or partial).

JJAE has used the following criteria, which is a summary of NPC 300 requirements, to evaluate the Site noise impacts from road traffic noise:

Daytime Level (dBA)	Nighttime Level (dBA)	Ventilation Requirements and Warning Clauses	Special Building Components
55	50	Not Required	Not Required
55 – 65	50 – 60	Yes, with Type C Warning Clause	Not Required
66 or more	61 or more	Yes, with Type D Warning Clause	Yes

Table B.1 summarizes the predicted worst-case sound levels and the requirements for the units. The following warning clause is required:

Indoor Living Areas – Building Components (NPC 300, Section C7.1.3)

At minimum, the building must be constructed to standard Ontario Building Code requirements. Improved building components are required and summarized in Table B.1. JJAE has assumed 35% window to floor area coverage and that windows are thick and operable. In addition, exterior wall compositions must be a minimum of STC 54, with brick veneer or masonry equivalent.

3. Stationary Noise Impact Analysis

3.1 Stationary Noise Impact Sound Level Criteria

The general criteria for stationary noise sources are defined by NPC 300. The criteria defined in Table C-5 and C-6, "Exclusion Limit Values of One-Hour Equivalent Sound Level (Leq, dBA) Outdoor Points of Reception" and "Exclusion Limit Values of One-Hour Equivalent Sound Level

(Leq, dBA) Plane of Window of Noise Sensitive Spaces" are used to evaluate the noise impact at the proposed development.

The criteria for a Class 1 area have been summarized below:

Receiver Category	Time Period	Stationary Noise Criteria
Outdoor Living Area (OLA)	Day = 07:00 to 19:00	Leq = 50 dBA
	Evening = 19:00 to 23:00	Leq = 45 dBA
Plane of Window (POW)	Day = 07:00 to 23:00	Leq = 50 dBA
	Night = 23:00 to 07:00	Leq = 45 dBA

3.2 Modelling Methodology

The stationary noise impact was evaluated using the CADNA A acoustic modelling software that is based on the ISO 9613-2 standard. The data for all potential stationary noise sources was summarized in Attachment D.

- **Ground Absorption:** Default ground absorption coefficient of 0.7 was used.
- **Temperature:** 10°C
- **Humidity:** 70%
- **Building Reflection Coefficient:** Absorption Coefficient Alpha of 0.37 (Reflection Loss of 2dB, Structured Façade) was used.
- **Time-Weighted Adjustment:** where sources operate non-continuously JJAEE has provided operating times and as shown in Section 3.
- **Tonality:** A 5 dBA tonal penalty was applied to all tonal sources, where applicable. JJAEE has provided a (T) for sources identified as tonal in Section 3.
- **Reflection Order:** A maximum reflection order of 1 was used to evaluate indirect noise impact.

3.3 Site-Specific Noise Limit Justification

The area has elevated road traffic noise levels from the QEW located approximately 95 meters from the North façade. To determine the level for the Site-Specific Noise Limits for daytime and nighttime, JJAEE has used the lowest recorded traffic volumes for the time period of daytime and nighttime as described in the table below:

Wednesday, November 6, 2024	
486	Total Lowest Traffic at 2:00 AM
15	Medium trucks at 3%
34	Heavy trucks at 7%
437	Total Cars at 90%
Monday, November 4, 2024	
2115	Total Lowest Traffic at 10:00 PM

63	Medium trucks at 3%
148	Heavy trucks at 7%
1904	Total Cars at 90%

Traffic counts were provided by the Ministry of Transportation (MTO). JJAЕ used the lowest hourly traffic volume during the 7-day count for the nighttime period for the Queen Elizabeth Highway. The data provided by MTO has been supplied in Attachment B. Using these values for the lowest hourly traffic JJAЕ was able to provide the quantity of cars, medium trucks, and heavy trucks to complete our calculation. A summary of our calculation has been provided in Attachment B. JJAЕ has used the MOECP's STAMSON program to calculate the 1-hour Leq noise level during nighttime for the Site. JJAЕ has calculated the noise limits for the site to be 67 dBA during Daytime and 61 dBA during Nighttime. Given these elevated values, JJAЕ has conservatively adopted site-specific limits of 55 dBA for daytime and 50 dBA for nighttime. A summary of our calculation has been provided in Attachment B. The table below provides a summary of the site-specific noise limits for these buildings:

Receiver Category	Time Period	Site-Specific Stationary Noise Criteria
Outdoor Living Area (OLA)	Day = 7:00 to 23:00	Leq = 50 dBA
Plane of Window (POW)	Day = 7:00 to 23:00	Leq = 55 dBA
	Night = 23:00 to 7:00	Leq = 50 dBA

3.4 Noise Impact Summary – From Site to Environment

The noise from the Site to the neighboring buildings could not be accounted for because the site has not undergone mechanical design yet. An addendum to this report should be completed once a mechanical design is done to account for noise from the Site to the neighboring building.

3.5 Noise Impact Summary – From Environment to Site

There are several buildings near the site. JJAЕ has identified several potential stationary noise sources including:

- 1 Fan HVAC Units (60 minutes daytime, 30 minutes nighttime)
- 2 Fan HVAC Units (60 minutes daytime, 30 minutes nighttime)
- 4 Fan HVAC Units (60 minutes daytime, 30 minutes nighttime)
- Representative Chiller (60 minutes daytime, 30 minutes nighttime)

A summary of the noise sources used in our modelling is provided in Attachment D.

JJAЕ modelled the noise impact from all significant noise sources to the Site. The results are summarized in the table below and illustrated on Figure 1.

Building A	Worst Case Daytime Sound Level (dBA)	Site-Specific Daytime Noise Limit (dBA)	Worst Case Nighttime Sound Level (dBA)	Site-Specific Nighttime Noise Limit (dBA)	Limits met
North	<30	55	<30	50	Yes
East	43	55	40	50	Yes
South	44	55	41	50	Yes
West	<30	55	<30	50	Yes

From the table above it can be seen that all facades from Building A meet Site-specific noise limits.

Building B	Worst Case Daytime Sound Level (dBA)	Site-Specific Daytime Noise Limit (dBA)	Worst Case Nighttime Sound Level (dBA)	Site-Specific Nighttime Noise Limit (dBA)	Limits met
North	41	55	38	50	Yes
East	51	55	48	50	Yes
South	48	55	45	50	Yes
West	37	55	34	50	Yes
WCPOR @ 7-8th Floor	51	55	47	50	Yes

From the table above it can be seen that all facades from Building B meet Site-specific noise limits.

4. Recommendations and Implementation

4.1 Stationary Noise Impact Recommendations

The stationary noise impacts from neighboring buildings to the Site were evaluated and the sound level predictions were determined to be below the Site-specific noise limits for all buildings.

4.2 Road Traffic Impact Recommendations

The road traffic noise impacts were above the NPC 300 requirements. Noise mitigation measures include:

Buildings A and B:

- Warning Clause Type D to be registered on Title and/or included in all agreements of purchase and sale and/or leases and/or disclosure statements and declarations for all the units.
- North Façade requires a minimum of STC 40 glazing installed with a maximum window to floor area ratio of 35% and thick operable windows.
- East and West Façades requires a minimum of STC 36 glazing installed with a maximum window to floor area ratio of 35% and thick operable windows.
- West Façade requires a minimum of STC 30 glazing installed with a maximum window to floor area ratio of 35% and thick operable windows.
- In addition, exterior wall compositions must be a minimum of STC 56.
- JJAЕ and the client require air conditioning for all units.
- Canadian National Railway Company Warning Clause to be registered on Title and/or included in all agreements of purchase and sale and/or leases and/or disclosure statements and declarations for all the units.

These have been summarized in Attachment B under Table B1. Where there are discrepancies between this section and the results in Table B1, the recommendations in this section supersede Table B1, as this section provides worst-case solutions for the noise impact.

As the proposed residential development is located more than 75 m from the CN right-of-way, ground-borne railway vibration measurements, analyses and/or vibration mitigation measures are not required.

The noise from the Site to the neighboring buildings could not be accounted for because the site has not undergone mechanical design yet. An addendum to this report should be completed once a mechanical design is done to account for noise from the Site to the neighboring building.

4.3 Required Warning Clauses

Warning Clause B: "Purchasers/tenants are advised that despite the inclusion of noise control features in the development and within the building units, sound levels due to increasing road traffic may on occasions interfere with some activities of the dwelling occupants as the sound levels exceed the sound level limits of the Municipality and the Ministry of the Environment."

Warning Clause D: “This dwelling unit has been supplied with a central air conditioning system which will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment, Conservation and Parks.”

Rail Company Warning Clause: The Canadian National Railway or its assigns or successors in interest has or have a right-of-way within 1,000 meters from the land the subject hereof. There may be alterations to or expansions of the rail facilities on such right-of-way in the future including the possibility that the railway or its assigns or successors as aforesaid may expand its operations, which expansion may affect the living environment of the residents in the vicinity, notwithstanding the inclusion of any noise and vibration attenuating measures in the design of the development and individual dwellings(s). The Canadian National Railway will not be responsible for any complaints or claims arising from use of such facilities and/or operations on, over or under the aforesaid right-of-way.

5. Conclusions

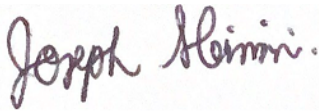
The results of this Study indicate that the potential environmental impact from road and rail traffic noise sources are significant. Mitigation measures will be required including ventilation requirements and noise warning clauses for each unit and special building components for Buildings A and B. With the mitigation measures provided in Section 6, there will be minimal noise impact from the neighboring roads, railways, or buildings to the Site.

Should you have any questions on the above, please do not hesitate to contact us.

Written By:

Reviewed by:

Aug. 27, 2026

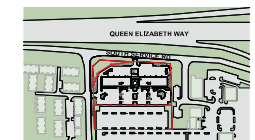


Joseph Sleiman
Acoustic Technician



Joey Jraige, P.Eng., B.A.Sc.
President (Owner)

ATTACHMENT A



A.002.

ATTACHMENT B

Table B1.A

Road Traffic Noise Levels and Mitigation Measures Summary
1310 South Service Road, Hamilton, Ontario
Building A

Point of Reception	Road Sound Level Daytime (dBA)	Road Sound Level Nighttime (dBA)	Rail Sound Level Daytime (dBA)	Rail Sound Level Nighttime (dBA)	Combined Daytime (dBA)	Combined Nighttime (dBA)	Ventilation Requirements NPC 300	Warning Clauses From NPC 300	Special Building Components
North Façade (1)									
Plane of Window Level 1	77 (dBA)	77 (dBA)	49 (dBA)	00 (dBA)	77 (dBA)	77 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 40
Plane of Window Level 2	77 (dBA)	77 (dBA)	49 (dBA)	00 (dBA)	77 (dBA)	77 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 40
Plane of Window Level 3	77 (dBA)	77 (dBA)	49 (dBA)	00 (dBA)	77 (dBA)	77 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 40
Plane of Window Level 4	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 5	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 6	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 7	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 8	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 9	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
East Façade									
Plane of Window Level 1	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 2	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 3	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 4	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 5	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 6	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 7	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 8	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 9	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36

Table B1.A

Road Traffic Noise Levels and Mitigation Measures Summary
1310 South Service Road, Hamilton, Ontario
Building A

Point of Reception	Road Sound Level Daytime (dBA)	Road Sound Level Nighttime (dBA)	Rail Sound Level Daytime (dBA)	Rail Sound Level Nighttime (dBA)	Combined Daytime (dBA)	Combined Nighttime (dBA)	Ventilation Requirements NPC 300	Warning Clauses From NPC 300	Special Building Components
South Façade (2)									
Plane of Window Level 1	67 (dBA)	67 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	67 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 30
Plane of Window Level 2	67 (dBA)	67 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	67 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 30
Plane of Window Level 3	67 (dBA)	67 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	67 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 30
Plane of Window Level 4	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 5	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 6	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 7	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 8	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 9	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
West Façade									
Plane of Window Level 1	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 2	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 3	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 4	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 5	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 6	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 7	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 8	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 9	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36

Notes

`(1) The North Facade is shielded by the building from the rail. JJAЕ has assumed a conservative 10 dBA reduction in sound level from the South Façade for the North Façade

`(1) The South Facade is shielded by the building from the Road. JJAЕ has assumed a conservative 10 dBA reduction in sound level from the North Façade for the South Façade

Building A

Outdoor Sound Level

77

Indoor Sound Level

40

Noise Reduction

40

Day/Night

Night

Road/Rail

Road

Angle of Sound

0 to 90 Degrees

Angle Correction

0

Sum

40

Component

Window

Sum

40

Sound Energy Transmitted

100

%

Table 3

0

Component Area

35

m²

Room Floor Area

100

m²

% Floor Area

31

%

Room Absorption Category

Intermediate

Table 4

-4

Noise Spectrum Type

Mixed Road Traffic, Distance Aircraft

Component Category

Openable Thick Window

Table 5

4

REQUIRED STC FOR COMPONENT

40

Component

Exterior Wall

Sum

40

Sound Energy Transmitted

10

%

Table 3

10

Component Area

65

% Floor Area

Room Floor Area

100

63

Room Absorption Category

Intermediate

Table 4

-1

Noise Spectrum Type

Mixed Road Traffic, Distance Aircraft

Component Category

Exterior Wall

Table 5

7

REQUIRED STC FOR COMPONENT

56

Table B1.A

Road Traffic Noise Levels and Mitigation Measures Summary
1310 South Service Road, Hamilton, Ontario
Building B

Point of Reception	Road Sound Level Daytime (dBA)	Road Sound Level Nighttime (dBA)	Rail Sound Level Daytime (dBA)	Rail Sound Level Nighttime (dBA)	Combined Daytime (dBA)	Combined Nighttime (dBA)	Ventilation Requirements NPC 300	Warning Clauses From NPC 300	Special Building Components
North Façade (1)									
Plane of Window Level 1	77 (dBA)	77 (dBA)	49 (dBA)	00 (dBA)	77 (dBA)	77 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 40
Plane of Window Level 2	77 (dBA)	77 (dBA)	49 (dBA)	00 (dBA)	77 (dBA)	77 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 40
Plane of Window Level 3	77 (dBA)	77 (dBA)	49 (dBA)	00 (dBA)	77 (dBA)	77 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 40
Plane of Window Level 4	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 5	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 6	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 7	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 8	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
Plane of Window Level 9	76 (dBA)	76 (dBA)	49 (dBA)	00 (dBA)	76 (dBA)	76 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 39
East Façade									
Plane of Window Level 1	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 2	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 3	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 4	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 5	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 6	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 7	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 8	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 9	73 (dBA)	73 (dBA)	57 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36

Table B1.A

Road Traffic Noise Levels and Mitigation Measures Summary
1310 South Service Road, Hamilton, Ontario
Building B

Point of Reception	Road Sound Level Daytime (dBA)	Road Sound Level Nighttime (dBA)	Rail Sound Level Daytime (dBA)	Rail Sound Level Nighttime (dBA)	Combined Daytime (dBA)	Combined Nighttime (dBA)	Ventilation Requirements NPC 300	Warning Clauses From NPC 300	Special Building Components
South Façade (2)									
Plane of Window Level 1	67 (dBA)	67 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	67 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 30
Plane of Window Level 2	67 (dBA)	67 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	67 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 30
Plane of Window Level 3	67 (dBA)	67 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	67 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 30
Plane of Window Level 4	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 5	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 6	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 7	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 8	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
Plane of Window Level 9	66 (dBA)	66 (dBA)	59 (dBA)	00 (dBA)	67 (dBA)	66 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 29
West Façade									
Plane of Window Level 1	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 2	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 3	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 4	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 5	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 6	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 7	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 8	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36
Plane of Window Level 9	73 (dBA)	73 (dBA)	56 (dBA)	00 (dBA)	73 (dBA)	73 (dBA)	Requirement for Air Conditioning	Type D	Minimum Window STC Rating of 36

Notes

`(1) The North Facade is shielded by the building from the rail. JJAЕ has assumed a conservative 10 dBA reduction in sound level from the South Façade for the North Façade

`(1) The South Facade is shielded by the building from the Road. JJAЕ has assumed a conservative 10 dBA reduction in sound level from the North Façade for the South Façade

Building B

Outdoor Sound Level

77

Day/Night

Night

Indoor Sound Level

40

Road/Rail

Road

Noise Reduction

40

Angle of Sound

0 to 90 Degrees

Angle Correction

0

Sum

40

Component

Window

Sum

40

Sound Energy Transmitted

100

%

Table 3

0

Component Area

35

m²

Room Floor Area

100

m²

% Floor Area

31

%

Room Absorption Category

Intermediate

Table 4

-4

Noise Spectrum Type

Mixed Road Traffic, Distance Aircraft

Component Category

Openable Thick Window

Table 5

4

REQUIRED STC FOR COMPONENT

40

Component

Exterior Wall

Sum

40

Sound Energy Transmitted

10

%

Table 3

10

Component Area

65

% Floor Area

Room Floor Area

100

63

Room Absorption Category

Intermediate

Table 4

-1

Noise Spectrum Type

Mixed Road Traffic, Distance Aircraft

Component Category

Exterior Wall

Table 5

7

REQUIRED STC FOR COMPONENT

56

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:16:18
 MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b1north.te Time Period: Day/Night 16/8 hours
 Description: Block A North facade floor 1

Road data, segment # 1: QE HWY (day/night)

```
-----
Car traffic volume   : 122182/61082 veh/TimePeriod *
Medium truck volume : 4073/2036  veh/TimePeriod *
Heavy truck volume  : 9503/4751  veh/TimePeriod *
Posted speed limit  : 100 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): 151408
Percentage of Annual Growth         : 2.50
Number of Years of Growth           : 12.00
Medium Truck % of Total Volume      : 3.00
Heavy Truck % of Total Volume       : 7.00
Day (16 hrs) % of Total Volume      : 66.67
```

Data for Segment # 1: QE HWY (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 : 95.00 / 95.00 m
Receiver height      : 2.00 / 2.00 m
Topography           : 1          (Flat/gentle slope; no barrier)
Reference angle      : 0.00
```

Results segment # 1: QE HWY (day)

Source height = 1.63 m

ROAD (0.00 + 76.53 + 0.00) = 76.53 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	84.54	0.00	-8.02	0.00	0.00	0.00	0.00	76.53

Segment Leq : 76.53 dBA

Total Leq All Segments: 76.53 dBA

Results segment # 1: QE HWY (night)

Source height = 1.63 m

ROAD (0.00 + 76.52 + 0.00) = 76.52 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	-------	--------

-90	90	0.00	84.54	0.00	-8.02	0.00	0.00	0.00	0.00	76.52
-----	----	------	-------	------	-------	------	------	------	------	-------

Segment Leq : 76.52 dBA

Total Leq All Segments: 76.52 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 76.53
(NIGHT): 76.52

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:16:10
 MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b1east.te Time Period: Day/Night 16/8 hours
 Description: Block A East facade floor 1

Rail data, segment # 1: CN (day/night)

Train Type	! Trains (Left)	! Trains (Right)	! Speed (km/h)	!# loc /Train	!# Cars /Train	! Eng type	!Cont weld
* 1. Freight	2.6/0.0	2.6/0.0	97.0	4.0	140.0	Diesel	Yes
* 2. Passenger	1.3/0.0	1.3/0.0	105.0	2.0	10.0	Diesel	Yes

* The identified number of trains have been adjusted for future growth using the following parameters:

Train No	Train Name	! Unadj. Trains Left	! Trains Right	! Annual % Increase	! Years of Growth
1.	Freight	2.0/0.0	2.0/0.0	2.50	10.00
2.	Passenger	1.0/0.0	1.0/0.0	2.50	10.00

Data for Segment # 1: CN (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	:	365.00 / 365.00 m		
Receiver height	:	2.00 / 2.00 m		
Topography	:	1	(Flat/gentle slope; no barrier)	
Whistle Angle	:	36 deg	Track 1	
Reference angle	:	0.00		

Results segment # 1: CN (day)

LOCOMOTIVE (0.00 + 54.75 + 0.00) = 54.75 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	71.62	-13.86	-3.01	0.00	0.00	0.00	54.75

WHEEL (0.00 + 48.12 + 0.00) = 48.12 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	65.00	-13.86	-3.01	0.00	0.00	0.00	48.12

LEFT WHISTLE (0.00 + 46.74 + 0.00) = 46.74 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

0	36	0.00	67.59	-13.86	-6.99	0.00	0.00	0.00	46.74
---	----	------	-------	--------	-------	------	------	------	-------

RIGHT WHISTLE (0.00 + 45.20 + 0.00) = 45.20 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

36	61	0.00	67.59	-13.86	-8.53	0.00	0.00	0.00	45.20
----	----	------	-------	--------	-------	------	------	------	-------

Segment Leq : 56.47 dBA

Total Leq All Segments: 56.47 dBA

Results segment # 1: CN (night)

LOCOMOTIVE (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

0	90	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
---	----	------	------	--------	-------	------	------	------	--------

WHEEL (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

0	90	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
---	----	------	------	--------	-------	------	------	------	--------

LEFT WHISTLE (0.00 + 46.74 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

0	36	0.00	0.00	-13.86	-6.99	0.00	0.00	0.00	46.74
---	----	------	------	--------	-------	------	------	------	-------

Segment Leq : 0.00 dBA

Total Leq All Segments: 0.00 dBA

Road data, segment # 1: QE HWY (day/night)

Car traffic volume : 122182/61082 veh/TimePeriod *

Medium truck volume : 4073/2036 veh/TimePeriod *

Heavy truck volume : 9503/4751 veh/TimePeriod *

Posted speed limit : 100 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): 151408
Percentage of Annual Growth : 2.50
Number of Years of Growth : 12.00
Medium Truck % of Total Volume : 3.00
Heavy Truck % of Total Volume : 7.00
Day (16 hrs) % of Total Volume : 66.67

Data for Segment # 1: QE HWY (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 : 105.00 / 105.00 m
Receiver height : 2.00 / 2.00 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Results segment # 1: QE HWY (day)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

Results segment # 1: QE HWY (night)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 73.17
(NIGHT): 73.08

Filename: b1south.te Time Period: Day/Night 16/8 hours
 Description: Block A South facade floor 1

Rail data, segment # 1: CN (day/night)

Train Type	! Trains ! (Left)	! Trains ! (Right)	! Speed !(km/h)	!# loc !/Train	!# Cars !/Train	! Eng ! type	!Cont !weld
* 1. Freight	! 2.6/0.0	! 2.6/0.0	! 97.0	! 4.0	!140.0	!Diesel	! Yes
* 2. Passenger	! 1.3/0.0	! 1.3/0.0	! 105.0	! 2.0	! 10.0	!Diesel	! Yes

* The identified number of trains have been adjusted for
 future growth using the following parameters:

Train type: No Name	! Unadj. Trains ! Left	! Trains ! Right	! Annual % ! Increase	! Years of ! Growth
1. Freight	! 2.0/0.0	! 2.0/0.0	! 2.50	! 10.00
2. Passenger	! 1.0/0.0	! 1.0/0.0	! 2.50	! 10.00

Data for Segment # 1: CN (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 : 350.00 / 350.00 m
 Receiver height : 2.00 / 2.00 m
 Topography : 1 (Flat/gentle slope; no barrier)
 Whistle Angle : 36 deg Track 1
 Reference angle : 0.00

Results segment # 1: CN (day)

LOCOMOTIVE (0.00 + 57.94 + 0.00) = 57.94 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	71.62	-13.68	0.00	0.00	0.00	0.00	57.94

WHEEL (0.00 + 51.32 + 0.00) = 51.32 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	65.00	-13.68	0.00	0.00	0.00	0.00	51.32

LEFT WHISTLE (0.00 + 49.04 + 0.00) = 49.04 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-23	36	0.00	67.59	-13.68	-4.87	0.00	0.00	0.00	49.04
-----	----	------	-------	--------	-------	------	------	------	-------

RIGHT WHISTLE (0.00 + 45.49 + 0.00) = 45.49 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

36	62	0.00	67.59	-13.68	-8.43	0.00	0.00	0.00	45.49
----	----	------	-------	--------	-------	------	------	------	-------

Segment Leq : 59.41 dBA

Total Leq All Segments: 59.41 dBA

Results segment # 1: CN (night)

LOCOMOTIVE (0.00 + -13.68 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-90	90	0.00	0.00	-13.68	0.00	0.00	0.00	0.00	-13.68
-----	----	------	------	--------	------	------	------	------	--------

WHEEL (0.00 + -13.68 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-90	90	0.00	0.00	-13.68	0.00	0.00	0.00	0.00	-13.68
-----	----	------	------	--------	------	------	------	------	--------

LEFT WHISTLE (0.00 + 49.04 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-23	36	0.00	0.00	-13.68	-4.87	0.00	0.00	0.00	49.04
-----	----	------	------	--------	-------	------	------	------	-------

Segment Leq : 0.00 dBA

Total Leq All Segments: 0.00 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.41

(NIGHT): 0.00

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:16:34
 MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b1west.te Time Period: Day/Night 16/8 hours
 Description: Block A West facade floor 1

Rail data, segment # 1: CN (day/night)

Train Type	! Trains ! (Left)	! Trains ! (Right)	! Speed !(km/h)	!# loc !/Train!	!# Cars !/Train!	Eng type	!Cont !weld
* 1. Freight	! 2.6/0.0	! 2.6/0.0	! 97.0	! 4.0	!140.0	!Diesel	! Yes
* 2. Passenger	! 1.3/0.0	! 1.3/0.0	! 105.0	! 2.0	! 10.0	!Diesel	! Yes

* The identified number of trains have been adjusted for
 future growth using the following parameters:

Train type: No Name	! Unadj. Trains ! Left	! Trains ! Right	! Annual % ! Increase	! Years of ! Growth
1. Freight	! 2.0/0.0	! 2.0/0.0	! 2.50	! 10.00
2. Passenger	! 1.0/0.0	! 1.0/0.0	! 2.50	! 10.00

Data for Segment # 1: CN (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	: 365.00 / 365.00 m	
Receiver height	: 2.00 / 2.00 m	
Topography	: 1	(Flat/gentle slope; no barrier)
Whistle Angle	: 36 deg	Track 1
Reference angle	: 0.00	

Results segment # 1: CN (day)

LOCOMOTIVE (0.00 + 54.75 + 0.00) = 54.75 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	71.62	-13.86	-3.01	0.00	0.00	0.00	54.75

WHEEL (0.00 + 48.12 + 0.00) = 48.12 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	65.00	-13.86	-3.01	0.00	0.00	0.00	48.12

LEFT WHISTLE (0.00 + 44.25 + 0.00) = 44.25 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-20	0	0.00	67.59	0.00	-9.48	0.00	0.00	0.00	44.25
-----	---	------	-------	------	-------	------	------	------	-------

Segment Leq : 55.91 dBA

Total Leq All Segments: 55.91 dBA

Results segment # 1: CN (night)

LOCOMOTIVE (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-90	0	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
-----	---	------	------	--------	-------	------	------	------	--------

WHEEL (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-90	0	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
-----	---	------	------	--------	-------	------	------	------	--------

LEFT WHISTLE (0.00 + 44.25 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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-20	0	0.00	0.00	0.00	-9.48	0.00	0.00	0.00	44.25
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Segment Leq : 0.00 dBA

Total Leq All Segments: 0.00 dBA

Road data, segment # 1: QE HWY (day/night)

Car traffic volume : 122182/61082 veh/TimePeriod *

Medium truck volume : 4073/2036 veh/TimePeriod *

Heavy truck volume : 9503/4751 veh/TimePeriod *

Posted speed limit : 100 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): 151408
 Percentage of Annual Growth : 2.50
 Number of Years of Growth : 12.00
 Medium Truck % of Total Volume : 3.00
 Heavy Truck % of Total Volume : 7.00
 Day (16 hrs) % of Total Volume : 66.67

Data for Segment # 1: QE HWY (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 : 105.00 / 105.00 m
 Receiver height : 2.00 / 2.00 m
 Topography : 1 (Flat/gentle slope; no barrier)
 Reference angle : 0.00

Results segment # 1: QE HWY (day)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

Results segment # 1: QE HWY (night)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 73.16
(NIGHT): 73.08

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:16:51
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b2north.te Time Period: Day/Night 16/8 hours
Description: Block B North facade floor 1

Road data, segment # 1: QE HWY (day/night)

Car traffic volume : 122182/61082 veh/TimePeriod *
Medium truck volume : 4073/2036 veh/TimePeriod *
Heavy truck volume : 9503/4751 veh/TimePeriod *
Posted speed limit : 100 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): 151408
Percentage of Annual Growth : 2.50
Number of Years of Growth : 12.00
Medium Truck % of Total Volume : 3.00
Heavy Truck % of Total Volume : 7.00
Day (16 hrs) % of Total Volume : 66.67

Data for Segment # 1: QE HWY (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 : 95.00 / 95.00 m
Receiver height : 2.00 / 2.00 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Results segment # 1: QE HWY (day)

Source height = 1.63 m

ROAD (0.00 + 76.53 + 0.00) = 76.53 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	84.54	0.00	-8.02	0.00	0.00	0.00	0.00	76.53

Segment Leq : 76.53 dBA

Total Leq All Segments: 76.53 dBA

Results segment # 1: QE HWY (night)

Source height = 1.63 m

ROAD (0.00 + 76.52 + 0.00) = 76.52 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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-90	90	0.00	84.54	0.00	-8.02	0.00	0.00	0.00	0.00	76.52
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Segment Leq : 76.52 dBA

Total Leq All Segments: 76.52 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 76.53
(NIGHT): 76.52

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:16:43
 MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b2east.te Time Period: Day/Night 16/8 hours
 Description: Block B East facade floor 1

Rail data, segment # 1: CN (day/night)

Train Type	! Trains (Left)	! Trains (Right)	! Speed (km/h)	!# loc /Train	!# Cars /Train	! Eng type	!Cont weld
* 1. Freight	! 2.6/0.0	! 2.6/0.0	! 97.0	! 4.0	!140.0	!Diesel	! Yes
* 2. Passenger	! 1.3/0.0	! 1.3/0.0	! 105.0	! 2.0	! 10.0	!Diesel	! Yes

* The identified number of trains have been adjusted for future growth using the following parameters:

Train No	Train Name	! Unadj. Trains Left	! Trains Right	! Annual % Increase	! Years of Growth
1.	Freight	! 2.0/0.0	! 2.0/0.0	! 2.50	! 10.00
2.	Passenger	! 1.0/0.0	! 1.0/0.0	! 2.50	! 10.00

Data for Segment # 1: CN (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	:	365.00 / 365.00 m		
Receiver height	:	2.00 / 2.00 m		
Topography	:	1	(Flat/gentle slope; no barrier)	
Whistle Angle	:	43 deg	Track 1	
Reference angle	:	0.00		

Results segment # 1: CN (day)

LOCOMOTIVE (0.00 + 54.75 + 0.00) = 54.75 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	71.62	-13.86	-3.01	0.00	0.00	0.00	54.75

WHEEL (0.00 + 48.12 + 0.00) = 48.12 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	65.00	-13.86	-3.01	0.00	0.00	0.00	48.12

LEFT WHISTLE (0.00 + 47.51 + 0.00) = 47.51 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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0	43	0.00	67.59	-13.86	-6.22	0.00	0.00	0.00	47.51
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RIGHT WHISTLE (0.00 + 44.35 + 0.00) = 44.35 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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43	64	0.00	67.59	-13.86	-9.38	0.00	0.00	0.00	44.35
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Segment Leq : 56.50 dBA

Total Leq All Segments: 56.50 dBA

Results segment # 1: CN (night)

LOCOMOTIVE (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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0	90	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
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WHEEL (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

0	90	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
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LEFT WHISTLE (0.00 + 47.51 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

0	43	0.00	0.00	-13.86	-6.22	0.00	0.00	0.00	47.51
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Segment Leq : 0.00 dBA

Total Leq All Segments: 0.00 dBA

Road data, segment # 1: QE HWY (day/night)

Car traffic volume : 122182/61082 veh/TimePeriod *

Medium truck volume : 4073/2036 veh/TimePeriod *

Heavy truck volume : 9503/4751 veh/TimePeriod *

Posted speed limit : 100 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): 151408
Percentage of Annual Growth : 2.50
Number of Years of Growth : 12.00
Medium Truck % of Total Volume : 3.00
Heavy Truck % of Total Volume : 7.00
Day (16 hrs) % of Total Volume : 66.67

Data for Segment # 1: QE HWY (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 : 105.00 / 105.00 m
Receiver height : 2.00 / 2.00 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Results segment # 1: QE HWY (day)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

Results segment # 1: QE HWY (night)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 73.17
(NIGHT): 73.08

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:16:59
 MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b2south.te Time Period: Day/Night 16/8 hours
 Description: Block B South facade floor 1

Rail data, segment # 1: CN (day/night)

Train Type	! Trains (Left)	! Trains (Right)	! Speed (km/h)	! # loc /Train	! # Cars /Train	! Eng type	! Cont weld
* 1. Freight	! 2.6/0.0	! 2.6/0.0	! 97.0	! 4.0	! 140.0	! Diesel	! Yes
* 2. Passenger	! 1.3/0.0	! 1.3/0.0	! 105.0	! 2.0	! 10.0	! Diesel	! Yes

* The identified number of trains have been adjusted for future growth using the following parameters:

Train No	Train Name	! Unadj. Trains Left	! Trains Right	! Annual % Increase	! Years of Growth
1.	Freight	! 2.0/0.0	! 2.0/0.0	! 2.50	! 10.00
2.	Passenger	! 1.0/0.0	! 1.0/0.0	! 2.50	! 10.00

Data for Segment # 1: CN (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	:	350.00 / 350.00 m	
Receiver height	:	2.00 / 2.00 m	
Topography	:	1	(Flat/gentle slope; no barrier)
Whistle Angle	:	43 deg	Track 1
Reference angle	:	0.00	

Results segment # 1: CN (day)

LOCOMOTIVE (0.00 + 57.94 + 0.00) = 57.94 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	71.62	-13.68	0.00	0.00	0.00	0.00	57.94

WHEEL (0.00 + 51.32 + 0.00) = 51.32 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	65.00	-13.68	0.00	0.00	0.00	0.00	51.32

LEFT WHISTLE (0.00 + 48.75 + 0.00) = 48.75 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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-12	43	0.00	67.59	-13.68	-5.16	0.00	0.00	0.00	48.75
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RIGHT WHISTLE (0.00 + 44.64 + 0.00) = 44.64 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

43	64	0.00	67.59	-13.68	-9.27	0.00	0.00	0.00	44.64
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Segment Leq : 59.35 dBA

Total Leq All Segments: 59.35 dBA

Results segment # 1: CN (night)

LOCOMOTIVE (0.00 + -13.68 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-90	90	0.00	0.00	-13.68	0.00	0.00	0.00	0.00	-13.68
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WHEEL (0.00 + -13.68 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-90	90	0.00	0.00	-13.68	0.00	0.00	0.00	0.00	-13.68
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LEFT WHISTLE (0.00 + 48.75 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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-12	43	0.00	0.00	-13.68	-5.16	0.00	0.00	0.00	48.75
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Segment Leq : 0.00 dBA

Total Leq All Segments: 0.00 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 59.35

(NIGHT): 0.00

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:17:08
 MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: b2west.te Time Period: Day/Night 16/8 hours
 Description: Block B West facade floor 1

Rail data, segment # 1: CN (day/night)

Train Type	! Trains (Left)	! Trains (Right)	! Speed (km/h)	! # loc /Train	! # Cars /Train	! Eng type	! Cont weld
* 1. Freight	! 2.6/0.0	! 2.6/0.0	! 97.0	! 4.0	! 140.0	! Diesel	! Yes
* 2. Passenger	! 1.3/0.0	! 1.3/0.0	! 105.0	! 2.0	! 10.0	! Diesel	! Yes

* The identified number of trains have been adjusted for future growth using the following parameters:

Train No	Train Name	! Unadj. Trains Left	! Trains Right	! Annual % Increase	! Years of Growth
1.	Freight	! 2.0/0.0	! 2.0/0.0	! 2.50	! 10.00
2.	Passenger	! 1.0/0.0	! 1.0/0.0	! 2.50	! 10.00

Data for Segment # 1: CN (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		: 365.00 / 365.00 m	
Receiver height		: 2.00 / 2.00 m	
Topography		: 1	(Flat/gentle slope; no barrier)
Whistle Angle		: 43 deg	Track 1
Reference angle		: 0.00	

Results segment # 1: CN (day)

LOCOMOTIVE (0.00 + 54.75 + 0.00) = 54.75 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	71.62	-13.86	-3.01	0.00	0.00	0.00	54.75

WHEEL (0.00 + 48.12 + 0.00) = 48.12 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	65.00	-13.86	-3.01	0.00	0.00	0.00	48.12

LEFT WHISTLE (0.00 + 40.85 + 0.00) = 40.85 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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-9	0	0.00	67.59	0.00	-12.88	0.00	0.00	0.00	40.85
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Segment Leq : 55.75 dBA

Total Leq All Segments: 55.75 dBA

Results segment # 1: CN (night)

LOCOMOTIVE (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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-90	0	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
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WHEEL (0.00 + -16.87 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
--------	--------	-------	--------	-------	-------	-------	-------	-------	--------

-90	0	0.00	0.00	-13.86	-3.01	0.00	0.00	0.00	-16.87
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LEFT WHISTLE (0.00 + 40.85 + 0.00) = 0.00 dBA

Angle1	Angle2	Alpha	RefLeq	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
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-9	0	0.00	0.00	0.00	-12.88	0.00	0.00	0.00	40.85
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Segment Leq : 0.00 dBA

Total Leq All Segments: 0.00 dBA

Road data, segment # 1: QE HWY (day/night)

Car traffic volume : 122182/61082 veh/TimePeriod *

Medium truck volume : 4073/2036 veh/TimePeriod *

Heavy truck volume : 9503/4751 veh/TimePeriod *

Posted speed limit : 100 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): 151408
 Percentage of Annual Growth : 2.50
 Number of Years of Growth : 12.00
 Medium Truck % of Total Volume : 3.00
 Heavy Truck % of Total Volume : 7.00
 Day (16 hrs) % of Total Volume : 66.67

Data for Segment # 1: QE HWY (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 : 105.00 / 105.00 m
 Receiver height : 2.00 / 2.00 m
 Topography : 1 (Flat/gentle slope; no barrier)
 Reference angle : 0.00

Results segment # 1: QE HWY (day)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

Results segment # 1: QE HWY (night)

Source height = 1.63 m

ROAD (0.00 + 73.08 + 0.00) = 73.08 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
0	90	0.00	84.54	0.00	-8.45	-3.01	0.00	0.00	0.00	73.08

Segment Leq : 73.08 dBA

Total Leq All Segments: 73.08 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 73.16
(NIGHT): 73.08

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:58:32
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: 1hrday.te Time Period: 1 hours
Description: 1 Hour Daytime East Facade 10PM

Road data, segment # 1: QE HWY

Car traffic volume : 2115 veh/TimePeriod
Medium truck volume : 63 veh/TimePeriod
Heavy truck volume : 148 veh/TimePeriod
Posted speed limit : 100 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: QE HWY

Angle1 Angle2 : -90.00 deg 0.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0
Surface : 2 (Reflective ground surface)
Receiver source distance : 105.00 m
Receiver height : 2.00 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Results segment # 1: QE HWY

Source height = 1.59 m

ROAD (0.00 + 67.19 + 0.00) = 67.19 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	78.65	0.00	-8.45	-3.01	0.00	0.00	0.00	67.19

Segment Leq : 67.19 dBA

Total Leq All Segments: 67.19 dBA

TOTAL Leq FROM ALL SOURCES: 67.19

STAMSON 5.0 NORMAL REPORT Date: 09-07-2026 17:57:53
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: 1hrnight.te Time Period: 1 hours
Description: 1 Hour Nighttime East Facade 2AM

Road data, segment # 1: QE HWY

Car traffic volume : 486 veh/TimePeriod
Medium truck volume : 15 veh/TimePeriod
Heavy truck volume : 34 veh/TimePeriod
Posted speed limit : 100 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: QE HWY

Angle1 Angle2 : -90.00 deg 0.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0
Surface : 2 (Reflective ground surface)
Receiver source distance : 105.00 m
Receiver height : 2.00 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Results segment # 1: QE HWY

Source height = 1.59 m

ROAD (0.00 + 60.82 + 0.00) = 60.82 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	0	0.00	72.28	0.00	-8.45	-3.01	0.00	0.00	0.00	60.82

Segment Leq : 60.82 dBA

Total Leq All Segments: 60.82 dBA

TOTAL Leq FROM ALL SOURCES: 60.82

Hwy: **1** TS: **145** Start: **10090.0000** End: **10094.0000**
 Btwn.: **FIFTY RD** and: **FRUITLAND RD**
 Regn: **CR** Pattern: **CR** PDCS: **37** Factor: **1.03**
 ICS: **145** LHRs: **10090** Locn: **2.080 KM W OF FIFTY RD IC-78**
 Dir: **Combined** Lanes: **6** Speed: **110 km/h** Dates: **04-Nov-2024 to 11-Nov-2024**

Summary

	11/04	11/05	11/06	11/07	11/08	11/09	11/10	11/11
Part of Day	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
AM		51,323	49,909	52,845	53,832	45,760	38,128	50,492
PM	69,413	71,197	72,463	77,658	85,021	88,769	77,948	
24-hour Total	69,413	122,520	122,372	130,503	138,853	134,529	116,076	50,492
Noon - Noon		120,736	121,106	125,308	131,490	130,781	126,897	128,440

Peak Hour	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
AM		8,278	7,644	7,867	7,770	6,074	4,184	7,224
Mid-Day	6,951	6,972	7,022	7,334	8,627	9,568	8,889	7,031
PM	9,166	9,315	9,466	9,578	9,579	9,653	9,038	

ADT	AWD	AADT	SADT	SAWDT	WADT	DHV	% Trucks	AADTT
126,394	124,660	130,600	151,408	152,243	117,195	10,896	10.0%	13,022

Dir. Split	Highest Dir.	Trk Dir. Split	Trk Highest Dir.
50%	EB	52%	EB

Data collection note:

Note / Comment:

Hwy: **1** TS: **145** Start: **10090.0000** End: **10094.0000**
 Btwn.: **FIFTY RD** and: **FRUITLAND RD**
 Regn: **CR** Pattern: **CR** PDCS: **37** Factor: **1.03**
 ICS: **145** LHRs: **10090** Locn: **2.080 KM W OF FIFTY RD IC-78**
 Dir: **E** Lanes: **3** Speed: **110 km/h** Dates: **04-Nov-2024 to 11-Nov-2024**

		11/04	11/05	11/06	11/07	11/08	11/09	11/10	11/11
Part of Day	Interval	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
AM	00:00-01:00		447	678	650	720	912	1,049	479
	01:00-02:00		302	342	591	588	588	616	318
	02:00-03:00		258	243	258	303	349	403	211
	03:00-04:00		234	236	275	305	273	275	219
	04:00-05:00		373	396	438	442	358	273	410
	05:00-06:00		1,046	959	1,056	995	548	428	997
	06:00-07:00		2,173	2,016	2,233	2,229	1,011	678	2,185
	07:00-08:00		3,293	2,988	2,916	3,364	2,000	1,475	3,026
	08:00-09:00		3,384	3,419	3,814	3,655	3,274	2,216	3,505
	09:00-10:00		3,308	3,212	3,448	3,726	4,539	3,125	3,820
	10:00-11:00		3,330	3,396	3,335	4,034	5,010	3,851	3,968
	11:00-12:00		3,403	3,466	3,876	4,413	5,070	4,184	3,725
AM Total			21,551	21,351	22,890	24,774	23,932	18,573	22,863
PM	12:00-13:00	3,530	3,587	3,485	3,763	4,372	5,183	4,229	
	13:00-14:00	3,621	3,689	3,656	3,779	4,375	5,157	4,330	
	14:00-15:00	3,983	3,953	4,176	4,245	4,952	5,007	4,294	
	15:00-16:00	5,031	5,085	5,001	5,242	4,499	4,777	4,413	
	16:00-17:00	5,264	5,328	5,333	5,371	4,866	4,610	4,078	
	17:00-18:00	4,811	4,931	5,048	5,251	5,206	4,279	3,762	
	18:00-19:00	3,492	3,810	4,019	4,486	4,888	3,885	3,365	
	19:00-20:00	2,615	2,916	3,084	3,698	4,161	3,224	2,925	
	20:00-21:00	2,059	2,179	2,149	2,595	2,690	2,467	2,461	
	21:00-22:00	1,502	1,592	1,767	2,014	2,239	2,129	1,864	
	22:00-23:00	1,173	1,295	1,261	1,442	1,714	1,876	1,268	
	23:00-00:00	864	1,125	930	1,082	1,523	1,547	763	
PM Total		37,945	39,490	39,909	42,968	45,485	44,141	37,752	
24-hour Total		37,945	61,041	61,260	65,858	70,259	68,073	56,325	22,863
Noon - Noon			59,496	60,841	62,799	67,742	69,417	62,714	60,615

Hwy: **1** TS: **145** Start: **10090.0000** End: **10094.0000**
 Btwn.: **FIFTY RD** and: **FRUITLAND RD**
 Regn: **CR** Pattern: **CR** PDCS: **37** Factor: **1.03**
 ICS: **145** LHRs: **10090** Locn: **2.080 KM W OF FIFTY RD IC-78**
 Dir: **W** Lanes: **3** Speed: **110 km/h** Dates: **04-Nov-2024 to 11-Nov-2024**

		11/04	11/05	11/06	11/07	11/08	11/09	11/10	11/11
Part of Day	Interval	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
AM	00:00-01:00		386	429	416	513	924	1,168	474
	01:00-02:00		284	303	339	350	621	709	324
	02:00-03:00		274	243	294	296	469	486	282
	03:00-04:00		346	348	395	368	373	356	330
	04:00-05:00		1,054	1,033	1,032	944	499	386	1,017
	05:00-06:00		3,294	3,159	3,238	2,720	968	687	3,030
	06:00-07:00		4,941	4,725	4,834	4,073	1,334	878	4,238
	07:00-08:00		4,985	3,867	4,837	4,302	1,838	1,108	4,129
	08:00-09:00		4,136	4,225	4,053	4,115	2,800	1,968	3,719
	09:00-10:00		3,677	3,715	3,824	3,865	3,476	3,110	3,479
	10:00-11:00		3,223	3,335	3,329	3,719	4,028	3,994	3,301
	11:00-12:00		3,172	3,176	3,364	3,793	4,498	4,705	3,306
AM Total			29,772	28,558	29,955	29,058	21,828	19,555	27,629
PM	12:00-13:00	3,374	3,203	3,317	3,485	3,904	4,349	4,412	
	13:00-14:00	3,330	3,283	3,366	3,555	4,252	4,263	4,317	
	14:00-15:00	3,415	3,460	3,529	3,722	4,345	4,397	4,130	
	15:00-16:00	3,609	3,807	3,746	3,973	4,372	4,797	4,625	
	16:00-17:00	3,902	3,987	4,133	4,207	4,443	5,043	4,421	
	17:00-18:00	3,945	3,945	4,030	4,222	4,373	4,541	4,285	
	18:00-19:00	2,922	2,975	3,041	3,276	3,688	4,314	4,011	
	19:00-20:00	2,302	2,151	2,301	2,492	2,997	3,672	3,279	
	20:00-21:00	1,753	1,762	1,812	2,011	2,296	3,038	2,575	
	21:00-22:00	1,403	1,338	1,474	1,711	1,961	2,540	1,939	
	22:00-23:00	942	1,088	1,137	1,236	1,597	2,148	1,443	
	23:00-00:00	571	708	668	800	1,308	1,526	759	
PM Total		31,468	31,707	32,554	34,690	39,536	44,628	40,196	
24-hour Total		31,468	61,479	61,112	64,645	68,594	66,456	59,751	27,629
Noon - Noon			61,240	60,265	62,509	63,748	61,364	64,183	67,825

Hwy: **1** TS: **145** Start: **10090.0000** End: **10094.0000**
 Btwn.: **FIFTY RD** and: **FRUITLAND RD**
 Regn: **CR** Pattern: **CR** PDCS: **37** Factor: **1.03**
 ICS: **145** LHRS: **10090** Locn: **2.080 KM W OF FIFTY RD IC-78**
 Dir: **Combined** Lanes: **6** Speed: **110 km/h** Dates: **04-Nov-2024 to 11-Nov-2024**

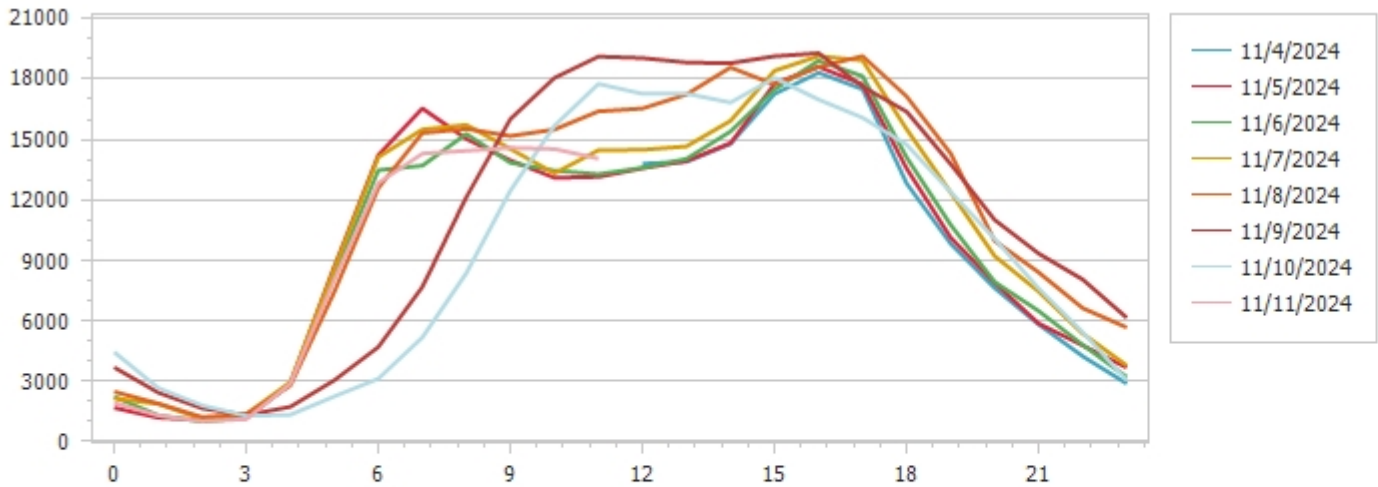
Lowest Hourly
Road Traffic

		11/04	11/05	11/06	11/07	11/08	11/09	11/10	11/11
Part of Day	Interval	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
AM	00:00-01:00		833	1,107	1,066	1,233	1,836	2,217	953
	01:00-02:00		586	645	930	938	1,209	1,325	642
	02:00-03:00		532	486	552	599	818	889	493
	03:00-04:00		580	584	670	673	646	631	549
	04:00-05:00		1,427	1,429	1,470	1,386	857	659	1,427
	05:00-06:00		4,340	4,118	4,294	3,715	1,516	1,115	4,027
	06:00-07:00		7,114	6,741	7,067	6,302	2,345	1,556	6,423
	07:00-08:00		8,278	6,855	7,753	7,666	3,838	2,583	7,155
	08:00-09:00		7,520	7,644	7,867	7,770	6,074	4,184	7,224
	09:00-10:00		6,985	6,927	7,272	7,591	8,015	6,235	7,299
	10:00-11:00		6,553	6,731	6,664	7,753	9,038	7,845	7,269
	11:00-12:00		6,575	6,642	7,240	8,206	9,568	8,889	7,031
AM Total			51,323	49,909	52,845	53,832	45,760	38,128	50,492
PM	12:00-13:00	6,904	6,790	6,802	7,248	8,276	9,532	8,641	
	13:00-14:00	6,951	6,972	7,022	7,334	8,627	9,420	8,647	
	14:00-15:00	7,398	7,413	7,705	7,967	9,297	9,404	8,424	
	15:00-16:00	8,640	8,892	8,747	9,215	8,871	9,574	9,038	
	16:00-17:00	9,166	9,315	9,466	9,578	9,309	9,653	8,499	
	17:00-18:00	8,756	8,876	9,078	9,473	9,579	8,820	8,047	
	18:00-19:00	6,414	6,785	7,060	7,762	8,576	8,199	7,376	
	19:00-20:00	4,917	5,067	5,385	6,190	7,158	6,896	6,204	
	20:00-21:00	3,812	3,941	3,961	4,606	4,986	5,505	5,036	
	21:00-22:00	2,905	2,930	3,241	3,725	4,200	4,669	3,803	
	22:00-23:00	2,115	2,383	2,398	2,678	3,311	4,024	2,711	
	23:00-00:00	1,435	1,833	1,598	1,882	2,831	3,073	1,522	
PM Total		69,413	71,197	72,463	77,658	85,021	88,769	77,948	
24-hour Total		69,413	122,520	122,372	130,503	138,853	134,529	116,076	50,492
Noon - Noon			120,736	121,106	125,308	131,490	130,781	126,897	128,440

ADT	AWD	AADT	SADT	SAWDT	WADT	DHV	% Trucks	AADTT
126,394	124,660	130,600	151,408	152,243	117,195	10,896	10.0%	13,022

Dir. Split	Highest Dir.	Trk Dir. Split	Trk Highest Dir.
50%	EB	52%	EB

Hwy: **1** TS: **145** Start: **10090.0000** End: **10094.0000**
 Btwn.: **FIFTY RD** and: **FRUITLAND RD**
 Regn: **CR** Pattern: **CR** PDCS: **37** Factor: **1.03**
 ICS: **145** LHRS: **10090** Locn: **2.080 KM W OF FIFTY RD IC-78**
 Dir: **Combined** Lanes: **6** Speed: **110 km/h** Dates: **04-Nov-2024 to 11-Nov-2024**





Train Count Data

TRANSMITTAL

To: 21342 Klondyke Drive Project : GRM - 31.96 - 1310 South Service Road, Stoney
Destinataire : Wheatley, ON Creek ON
NoP 2Po

Att'n: Emmanuel Ghiorghis Routing: Emmanuel@jjae.ca

From: Victoria Awor Date: 2026/06/09
Expéditeur :

Cc: Adjacent Development
CN via e-mail

☐ Urgent ☐ For Your Use ☐ For Review ☒ For Your Information ☐ Confidential

**Re: Train Traffic Data – CN Grimsby Subdivision near South Service Rd
in Stoney Creek, ON**

Please find attached the requested Train Traffic Data; this data does not reflect GO Metrolinx Traffic. The application fee in the amount of **\$550.00 +HST** will be invoiced.

Should you have any questions, please do not hesitate to contact the undersigned at permits.gld@cn.ca.

Sincerely,

Victoria Awor
For Adrian Tena-Russell
Manager Public Works – Eastern Region
Permits.gld@cn.ca

Date: 2026/06/09

Project Number: GRM - 31.96 - 1310 South Service Road, Stoney Creek ON

Dear Emmanuel:

Re: Train Traffic Data – CN Grimsby Subdivision near South Service Road in Stoney Creek, ON

The following is provided in response to Brett's 2026/06/02 request for information regarding rail traffic in the vicinity of South Service Road in Stoney Creek, ON at approximately Mile 31.96 on CN's Grimsby Subdivision.

Typical daily traffic volumes are recorded below. However, traffic volumes may fluctuate due to overall economic conditions, varying traffic demands, weather conditions, track maintenance programs, statutory holidays and traffic detours that when required may be heavy although temporary. For the purpose of noise and vibration reports, train volumes must be escalated by 2.5% per annum for a 10-year period.

Typical daily traffic volumes at this site location are as follows:

***Maximum train speed is given in Miles per Hour**

	0700-2300			
Type of Train	Volumes	Max.Consist	Max. Speed	Max. Power
Freight	4	140	60	4
Way Freight	0	25	60	4
Passenger	2	10	65	2

	2300-0700			
Type of Train	Volumes	Max.Consist	Max. Speed	Max. Power
Freight	0	140	60	4
Way Freight	0	25	60	4
Passenger	0	10	65	2

The volumes recorded reflect westbound and eastbound freight and passenger operations on CN's Grimsby Subdivision.

Except where anti-whistling bylaws are in effect, engine-warning whistles and bells are normally sounded at all at-grade crossings. There are three (3) at-grade crossings in the immediate vicinity of the study area at Mile 31.67 Fifty Road, Mile 32.17 Winona Road and Mile 32.69 Lewis Street. Anti-whistling bylaws are in effect at these crossings. Please note that engine warning whistles may be sounded in cases of emergency, as a safety and or warning precaution at station locations and pedestrian crossings and occasionally for operating requirements.

With respect to equipment restrictions, the gross weight of the heaviest permissible car is 286,000 lbs.

The double mainline track is considered continuously welded rail throughout the study area.

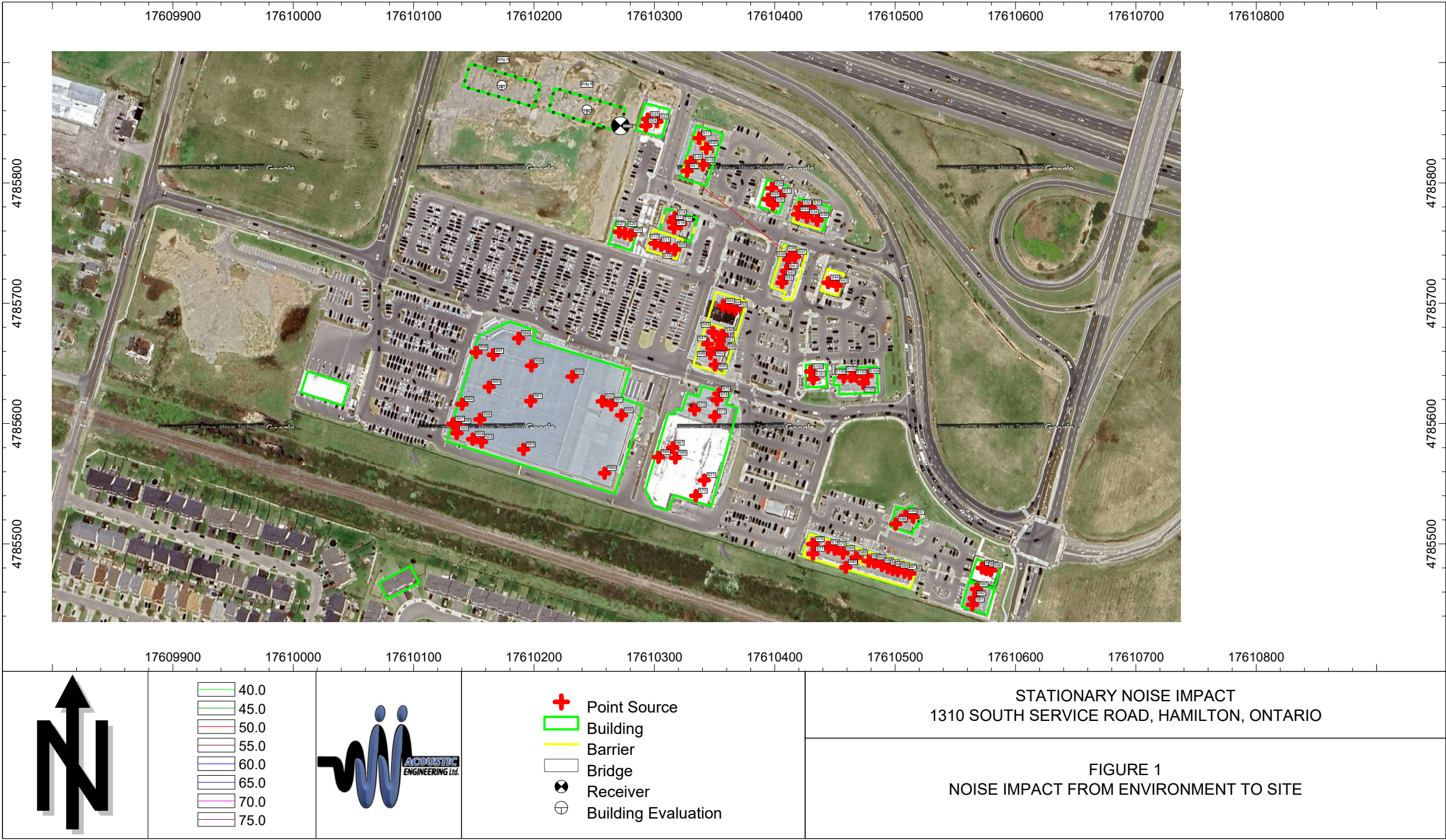
The Canadian National Railway continues to be strongly opposed to locating developments near railway facilities and rights-of-way due to potential safety and environmental conflicts. Development adjacent to the Railway Right-of-Way is not appropriate without sound impact mitigation measures to reduce the incompatibility. For confirmation of the applicable rail noise, vibration and safety standards, Adjacent Development, Canadian National Railway Properties at Proximity@cn.ca should be contacted directly.

I trust the above information will satisfy your current request.

Sincerely,

Victoria Awor
For Adrian Tena-Russell
Manager Public Works – Eastern Region
Permits.gld@cn.ca

ATTACHMENT C



Receiver

Name: WCPOR

ID: WCPOR

X: 17610271.92 m

Y: 4785847.50 m

Z: 22.00 m

Point Source, ISO 9613, Name: "S24", ID: "HVAC_1FAN"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahours (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
4	17610292.95	4785847.43	8.25	0	D	63	58.6	0.0	0.0	0.0	0.0	39.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	22.6
4	17610292.95	4785847.43	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	39.0	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	29.2
4	17610292.95	4785847.43	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	39.0	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	32.7
4	17610292.95	4785847.43	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	39.0	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	39.5
4	17610292.95	4785847.43	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	39.0	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	38.6
4	17610292.95	4785847.43	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	39.0	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	34.3
4	17610292.95	4785847.43	8.25	0	D	4000	66.0	0.0	0.0	0.0	0.0	39.0	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	27.0
4	17610292.95	4785847.43	8.25	0	N	63	58.6	0.0	-3.0	0.0	0.0	39.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	19.6
4	17610292.95	4785847.43	8.25	0	N	125	67.5	0.0	-3.0	0.0	0.0	39.0	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	26.1
4	17610292.95	4785847.43	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	39.0	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	29.7
4	17610292.95	4785847.43	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	39.0	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	36.5
4	17610292.95	4785847.43	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	39.0	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	35.6
4	17610292.95	4785847.43	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	39.0	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	31.3
4	17610292.95	4785847.43	8.25	0	N	4000	66.0	0.0	-3.0	0.0	0.0	39.0	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	24.0

Point Source, ISO 9613, Name: "S23", ID: "HVAC_1FAN"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahours (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
6	17610294.53	4785853.00	8.25	0	D	63	58.6	0.0	0.0	0.0	0.0	39.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	21.9
6	17610294.53	4785853.00	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	39.6	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	28.5
6	17610294.53	4785853.00	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	39.6	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	32.1
6	17610294.53	4785853.00	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	39.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	38.9
6	17610294.53	4785853.00	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	39.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	37.9
6	17610294.53	4785853.00	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	39.6	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	33.7
6	17610294.53	4785853.00	8.25	0	D	4000	66.0	0.0	0.0	0.0	0.0	39.6	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	26.4
6	17610294.53	4785853.00	8.25	0	N	63	58.6	0.0	-3.0	0.0	0.0	39.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	18.9
6	17610294.53	4785853.00	8.25	0	N	125	67.5	0.0	-3.0	0.0	0.0	39.6	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	25.5
6	17610294.53	4785853.00	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	39.6	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	29.1
6	17610294.53	4785853.00	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	39.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	35.9
6	17610294.53	4785853.00	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	39.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	34.9
6	17610294.53	4785853.00	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	39.6	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	30.7
6	17610294.53	4785853.00	8.25	0	N	4000	66.0	0.0	-3.0	0.0	0.0	39.6	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	23.3

Point Source, ISO 9613, Name: "S22", ID: "HVAC_1FAN"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahours (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
8	17610302.14	4785850.96	8.25	0	D	63	58.6	0.0	0.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	20.1
8	17610302.14	4785850.96	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	41.5	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	26.6
8	17610302.14	4785850.96	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	41.5	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	30.3
8	17610302.14	4785850.96	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	41.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	37.0
8	17610302.14	4785850.96	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	41.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	36.1
8	17610302.14	4785850.96	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	41.5	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	31.8
8	17610302.14	4785850.96	8.25	0	D	4000	66.0	0.0	0.0	0.0	0.0	41.5	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	24.3
8	17610302.14	4785850.96	8.25	0	N	63	58.6	0.0	-3.0	0.0	0.0	41.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	17.1
8	17610302.14	4785850.96	8.25	0	N	125	67.5	0.0	-3.0	0.0	0.0	41.5	0.0	-0.6	0.0	0.0	0.0	0.0	0.0	23.6
8	17610302.14	4785850.96	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	41.5	0.0	-0.9	0.0	0.0	0.0	0.0	0.0	27.3
8	17610302.14	4785850.96	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	41.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	34.0
8	17610302.14	4785850.96	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	41.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	33.1
8	17610302.14	4785850.96	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	41.5	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	28.8
8	17610302.14	4785850.96	8.25	0	N	4000	66.0	0.0	-3.0	0.0	0.0	41.5	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	21.3

Point Source, ISO 9613, Name: "S19", ID: "HVAC_2FAN"																				
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	17610330.25	4785817.32	9.25	0	D	63	60.2	0.0	0.0	0.0	0.0	47.5	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	15.6
10	17610330.25	4785817.32	9.25	0	D	125	69.7	0.0	0.0	0.0	0.0	47.5	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	22.8
10	17610330.25	4785817.32	9.25	0	D	250	73.2	0.0	0.0	0.0	0.0	47.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	26.5
10	17610330.25	4785817.32	9.25	0	D	500	76.6	0.0	0.0	0.0	0.0	47.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	29.8
10	17610330.25	4785817.32	9.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	47.5	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	32.1
10	17610330.25	4785817.32	9.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	47.5	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	27.1
10	17610330.25	4785817.32	9.25	0	D	4000	68.3	0.0	0.0	0.0	0.0	47.5	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	19.5
10	17610330.25	4785817.32	9.25	0	N	125	69.7	0.0	-3.0	0.0	0.0	47.5	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	19.8
10	17610330.25	4785817.32	9.25	0	N	250	73.2	0.0	-3.0	0.0	0.0	47.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	23.5
10	17610330.25	4785817.32	9.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	47.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	26.8
10	17610330.25	4785817.32	9.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	47.5	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	29.1
10	17610330.25	4785817.32	9.25	0	N	2000	74.4	0.0	-3.0	0.0	0.0	47.5	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	24.1
10	17610330.25	4785817.32	9.25	0	N	4000	68.3	0.0	-3.0	0.0	0.0	47.5	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	16.4

Point Source, ISO 9613, Name: "S17", ID: "HVAC_2FAN"																				
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	17610337.29	4785837.01	9.25	0	D	63	60.2	0.0	0.0	0.0	0.0	47.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	15.6
14	17610337.29	4785837.01	9.25	0	D	125	69.7	0.0	0.0	0.0	0.0	47.6	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	22.8
14	17610337.29	4785837.01	9.25	0	D	250	73.2	0.0	0.0	0.0	0.0	47.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	26.4
14	17610337.29	4785837.01	9.25	0	D	500	76.6	0.0	0.0	0.0	0.0	47.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	29.8
14	17610337.29	4785837.01	9.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	47.6	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	32.0
14	17610337.29	4785837.01	9.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	47.6	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	27.0
14	17610337.29	4785837.01	9.25	0	D	4000	68.3	0.0	0.0	0.0	0.0	47.6	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	19.4
14	17610337.29	4785837.01	9.25	0	N	125	69.7	0.0	-3.0	0.0	0.0	47.6	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	19.8
14	17610337.29	4785837.01	9.25	0	N	250	73.2	0.0	-3.0	0.0	0.0	47.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	23.4
14	17610337.29	4785837.01	9.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	47.6	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	26.7
14	17610337.29	4785837.01	9.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	47.6	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	29.0
14	17610337.29	4785837.01	9.25	0	N	2000	74.4	0.0	-3.0	0.0	0.0	47.6	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	24.0
14	17610337.29	4785837.01	9.25	0	N	4000	68.3	0.0	-3.0	0.0	0.0	47.6	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	16.4

Point Source, ISO 9613, Name: "S18", ID: "HVAC_2FAN"																				
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	17610340.43	4785814.84	9.25	0	D	125	69.7	0.0	0.0	0.0	0.0	48.7	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	21.6
16	17610340.43	4785814.84	9.25	0	D	250	73.2	0.0	0.0	0.0	0.0	48.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	25.3
16	17610340.43	4785814.84	9.25	0	D	500	76.6	0.0	0.0	0.0	0.0	48.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	28.6
16	17610340.43	4785814.84	9.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	48.7	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	30.9
16	17610340.43	4785814.84	9.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	48.7	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	25.8
16	17610340.43	4785814.84	9.25	0	D	4000	68.3	0.0	0.0	0.0	0.0	48.7	2.5	-0.9	0.0	0.0	0.0	0.0	0.0	17.9
16	17610340.43	4785814.84	9.25	0	N	125	69.7	0.0	-3.0	0.0	0.0	48.7	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	18.6
16	17610340.43	4785814.84	9.25	0	N	250	73.2	0.0	-3.0	0.0	0.0	48.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	22.2
16	17610340.43	4785814.84	9.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	48.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	25.6
16	17610340.43	4785814.84	9.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	48.7	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	27.8
16	17610340.43	4785814.84	9.25	0	N	2000	74.4	0.0	-3.0	0.0	0.0	48.7	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	22.8

Point Source, ISO 9613, Name: "S21", ID: "HVAC_1FAN"																				
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	17610327.20	4785809.97	9.25	0	D	125	67.5	0.0	0.0	0.0	0.0	47.7	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	20.5
17	17610327.20	4785809.97	9.25	0	D	250	70.9	0.0	0.0	0.0	0.0	47.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	24.0
17	17610327.20	4785809.97	9.25	0	D	500	77.7	0.0	0.0	0.0	0.0	47.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	30.8
17	17610327.20	4785809.97	9.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	47.7	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	29.8
17	17610327.20	4785809.97	9.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	47.7	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	25.3
17	17610327.20	4785809.97	9.25	0	D	4000	66.0	0.0	0.0	0.0	0.0	47.7	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	17.0
17	17610327.20	4785809.97	9.25	0	N	125	67.5	0.0	-3.0	0.0	0.0	47.7	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	17.5
17	17610327.20	4785809.97	9.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	47.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	21.0
17	17610327.20	4785809.97	9.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	47.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	27.8
17	17610327.20	4785809.97	9.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	47.7	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	26.8
17	17610327.20	4785809.97	9.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	47.7	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	22.3

Point Source, ISO 9613, Name: "S02", ID: "Representative_Chiller"																				
Nr.	X	Y	Z	Ref.	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)
19	17610256.78	4785618.41	10.75	0	D	500	83.8	0.0	0.0	0.0	0.0	58.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	26.0
19	17610256.78	4785618.41	10.75	0	D	1000	88.0	0.0	0.0	0.0	0.0	58.2	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	29.8
19	17610256.78	4785618.41	10.75	0	D	2000	85.2	0.0	0.0	0.0	0.0	58.2	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	25.6
19	17610256.78	4785618.41	10.75	0	D	4000	80.0	0.0	0.0	0.0	0.0	58.2	7.5	-0.9	0.0	0.0	0.0	0.0	0.0	15.1
19	17610256.78	4785618.41	10.75	0	N	500	83.8	0.0	-3.0	0.0	0.0	58.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	23.0
19	17610256.78	4785618.41	10.75	0	N	1000	88.0	0.0	-3.0	0.0	0.0	58.2	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	26.8
19	17610256.78	4785618.41	10.75	0	N	2000	85.2	0.0	-3.0	0.0	0.0	58.2	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	22.6

Point Source, ISO 9613, Name: "S01", ID: "Representative_Chiller"																				
Nr.	X	Y	Z	Ref.	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	17610264.21	4785615.58	10.75	0	D	500	83.8	0.0	0.0	0.0	0.0	58.3	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	25.9
21	17610264.21	4785615.58	10.75	0	D	1000	88.0	0.0	0.0	0.0	0.0	58.3	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	29.7
21	17610264.21	4785615.58	10.75	0	D	2000	85.2	0.0	0.0	0.0	0.0	58.3	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	25.5
21	17610264.21	4785615.58	10.75	0	N	500	83.8	0.0	-3.0	0.0	0.0	58.3	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	22.9
21	17610264.21	4785615.58	10.75	0	N	1000	88.0	0.0	-3.0	0.0	0.0	58.3	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	26.7
21	17610264.21	4785615.58	10.75	0	N	2000	85.2	0.0	-3.0	0.0	0.0	58.3	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	22.5

Point Source, ISO 9613, Name: "S20", ID: "HVAC_1FAN"																				
Nr.	X	Y	Z	Ref.	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	17610343.18	4785828.74	9.25	0	D	125	67.5	0.0	0.0	0.0	0.0	48.5	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	19.7
22	17610343.18	4785828.74	9.25	0	D	250	70.9	0.0	0.0	0.0	0.0	48.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	23.2
22	17610343.18	4785828.74	9.25	0	D	500	77.7	0.0	0.0	0.0	0.0	48.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	30.0
22	17610343.18	4785828.74	9.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	48.5	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	28.9
22	17610343.18	4785828.74	9.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	48.5	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	24.4
22	17610343.18	4785828.74	9.25	0	D	4000	66.0	0.0	0.0	0.0	0.0	48.5	2.5	-0.9	0.0	0.0	0.0	0.0	0.0	15.9
22	17610343.18	4785828.74	9.25	0	N	125	67.5	0.0	-3.0	0.0	0.0	48.5	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	16.7
22	17610343.18	4785828.74	9.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	48.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.2
22	17610343.18	4785828.74	9.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	48.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	26.9
22	17610343.18	4785828.74	9.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	48.5	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	25.9
22	17610343.18	4785828.74	9.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	48.5	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	21.4

Point Source, ISO 9613, Name: "S14", ID: "HVAC_2FAN"																				
Nr.	X	Y	Z	Ref.	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	17610316.93	4785771.16	8.25	0	D	125	69.7	0.0	0.0	0.0	0.0	50.1	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	20.0
26	17610316.93	4785771.16	8.25	0	D	250	73.2	0.0	0.0	0.0	0.0	50.1	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	23.9
26	17610316.93	4785771.16	8.25	0	D	500	76.6	0.0	0.0	0.0	0.0	50.1	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	27.2
26	17610316.93	4785771.16	8.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	50.1	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	29.5
26	17610316.93	4785771.16	8.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	50.1	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	24.3
26	17610316.93	4785771.16	8.25	0	D	4000	68.3	0.0	0.0	0.0	0.0	50.1	2.9	-0.9	0.0	0.0	0.0	0.0	0.0	16.2
26	17610316.93	4785771.16	8.25	0	N	125	69.7	0.0	-3.0	0.0	0.0	50.1	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	17.0
26	17610316.93	4785771.16	8.25	0	N	250	73.2	0.0	-3.0	0.0	0.0	50.1	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.9
26	17610316.93	4785771.16	8.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	50.1	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	24.2
26	17610316.93	4785771.16	8.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	50.1	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	26.5
26	17610316.93	4785771.16	8.25	0	N	2000	74.4	0.0	-3.0	0.0	0.0	50.1	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	21.3

Point Source, ISO 9613, Name: "S15", ID: "HVAC_2FAN"																				
Nr.	X	Y	Z	Ref.	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	17610321.92	4785765.95	8.25	0	D	125	69.7	0.0	0.0	0.0	0.0	50.7	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	19.3
30	17610321.92	4785765.95	8.25	0	D	250	73.2	0.0	0.0	0.0	0.0	50.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	23.2
30	17610321.92	4785765.95	8.25	0	D	500	76.6	0.0	0.0	0.0	0.0	50.7	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	26.6
30	17610321.92	4785765.95	8.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	50.7	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	28.8
30	17610321.92	4785765.95	8.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	50.7	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	23.6
30	17610321.92	4785765.95	8.25	0	D	4000	68.3	0.0	0.0	0.0	0.0	50.7	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	15.3
30	17610321.92	4785765.95	8.25	0	N	125	69.7	0.0	-3.0	0.0	0.0	50.7	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	16.3
30	17610321.92	4785765.95	8.25	0	N	250	73.2	0.0	-3.0	0.0	0.0	50.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.2
30	17610321.92	4785765.95	8.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	50.7	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	23.6
30	17610321.92	4785765.95	8.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	50.7	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	25.8
30	17610321.92	4785765.95	8.25	0	N	2000	74.4	0.0	-3.0	0.0	0.0	50.7	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	20.6

Point Source, ISO 9613, Name: "S16", ID: "HVAC_2FAN"																				
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)
31	17610316.35	4785762.60	8.25	0	D	125	69.7	0.0	0.0	0.0	0.0	50.7	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	19.3
31	17610316.35	4785762.60	8.25	0	D	250	73.2	0.0	0.0	0.0	0.0	50.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	23.2
31	17610316.35	4785762.60	8.25	0	D	500	76.6	0.0	0.0	0.0	0.0	50.7	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	26.6
31	17610316.35	4785762.60	8.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	50.7	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	28.8
31	17610316.35	4785762.60	8.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	50.7	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	23.6
31	17610316.35	4785762.60	8.25	0	D	4000	68.3	0.0	0.0	0.0	0.0	50.7	3.2	-0.9	0.0	0.0	0.0	0.0	0.0	15.3
31	17610316.35	4785762.60	8.25	0	N	125	69.7	0.0	-3.0	0.0	0.0	50.7	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	16.3
31	17610316.35	4785762.60	8.25	0	N	250	73.2	0.0	-3.0	0.0	0.0	50.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.2
31	17610316.35	4785762.60	8.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	50.7	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	23.5
31	17610316.35	4785762.60	8.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	50.7	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	25.8
31	17610316.35	4785762.60	8.25	0	N	2000	74.4	0.0	-3.0	0.0	0.0	50.7	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	20.6

Point Source, ISO 9613, Name: "S67", ID: "Representative_Chiller"																				
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	17610315.19	4785579.82	7.75	0	D	500	83.8	0.0	0.0	0.0	0.0	59.7	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	24.5
32	17610315.19	4785579.82	7.75	0	D	1000	88.0	0.0	0.0	0.0	0.0	59.7	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	28.2
32	17610315.19	4785579.82	7.75	0	D	2000	85.2	0.0	0.0	0.0	0.0	59.7	2.6	-0.9	0.0	0.0	0.0	0.0	0.0	23.8
32	17610315.19	4785579.82	7.75	0	N	500	83.8	0.0	-3.0	0.0	0.0	59.7	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	21.5
32	17610315.19	4785579.82	7.75	0	N	1000	88.0	0.0	-3.0	0.0	0.0	59.7	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	25.2
32	17610315.19	4785579.82	7.75	0	N	2000	85.2	0.0	-3.0	0.0	0.0	59.7	2.6	-0.9	0.0	0.0	0.0	0.0	0.0	20.8

Point Source, ISO 9613, Name: "S69", ID: "Representative_Chiller"																				
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	17610317.44	4785571.53	7.75	0	D	500	83.8	0.0	0.0	0.0	0.0	59.9	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	24.2
33	17610317.44	4785571.53	7.75	0	D	1000	88.0	0.0	0.0	0.0	0.0	59.9	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	27.9
33	17610317.44	4785571.53	7.75	0	D	2000	85.2	0.0	0.0	0.0	0.0	59.9	2.7	-0.9	0.0	0.0	0.0	0.0	0.0	23.4
33	17610317.44	4785571.53	7.75	0	N	500	83.8	0.0	-3.0	0.0	0.0	59.9	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	21.2
33	17610317.44	4785571.53	7.75	0	N	1000	88.0	0.0	-3.0	0.0	0.0	59.9	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	24.9
33	17610317.44	4785571.53	7.75	0	N	2000	85.2	0.0	-3.0	0.0	0.0	59.9	2.7	-0.9	0.0	0.0	0.0	0.0	0.0	20.4

Point Source, ISO 9613, Name: "S27", ID: "HVAC_1FAN"																				
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	17610270.98	4785759.29	11.25	0	D	250	70.9	0.0	0.0	0.0	0.0	50.0	0.1	-0.9	0.0	0.0	5.4	0.0	0.0	16.3
34	17610270.98	4785759.29	11.25	0	D	500	77.7	0.0	0.0	0.0	0.0	50.0	0.2	-0.9	0.0	0.0	6.0	0.0	0.0	22.4
34	17610270.98	4785759.29	11.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	50.0	0.3	-0.9	0.0	0.0	7.0	0.0	0.0	20.4
34	17610270.98	4785759.29	11.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	50.0	0.2	-0.9	0.0	0.0	6.0	0.0	0.0	19.4
34	17610270.98	4785759.29	11.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	50.0	0.3	-0.9	0.0	0.0	7.0	0.0	0.0	17.4

Point Source, ISO 9613, Name: "S26", ID: "HVAC_1FAN"																				
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	17610275.61	4785758.01	11.25	0	D	250	70.9	0.0	0.0	0.0	0.0	50.1	0.1	-0.9	0.0	0.0	5.5	0.0	0.0	16.0
35	17610275.61	4785758.01	11.25	0	D	500	77.7	0.0	0.0	0.0	0.0	50.1	0.2	-0.9	0.0	0.0	6.2	0.0	0.0	22.1
35	17610275.61	4785758.01	11.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	50.1	0.3	-0.9	0.0	0.0	7.3	0.0	0.0	20.0
35	17610275.61	4785758.01	11.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	50.1	0.2	-0.9	0.0	0.0	6.2	0.0	0.0	19.1
35	17610275.61	4785758.01	11.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	50.1	0.3	-0.9	0.0	0.0	7.3	0.0	0.0	17.0

Point Source, ISO 9613, Name: "S25", ID: "HVAC_1FAN"																				
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	17610280.35	4785756.67	11.25	0	D	250	70.9	0.0	0.0	0.0	0.0	50.3	0.1	-0.9	0.0	0.0	5.6	0.0	0.0	15.8
36	17610280.35	4785756.67	11.25	0	D	500	77.7	0.0	0.0	0.0	0.0	50.3	0.2	-0.9	0.0	0.0	6.3	0.0	0.0	21.8
36	17610280.35	4785756.67	11.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	50.3	0.3	-0.9	0.0	0.0	7.5	0.0	0.0	19.6
36	17610280.35	4785756.67	11.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	50.3	0.2	-0.9	0.0	0.0	6.3	0.0	0.0	18.8
36	17610280.35	4785756.67	11.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	50.3	0.3	-0.9	0.0	0.0	7.5	0.0	0.0	16.5
37	17610280.35	4785756.67	11.25	1	D	250	70.9	0.0	0.0	0.0	0.0	50.6	0.1	-0.9	0.0	0.0	4.8	0.0	1.0	15.3
37	17610280.35	4785756.67	11.25	1	D	500	77.7	0.0	0.0	0.0	0.0	50.6	0.2	-0.9	0.0	0.0	4.8	0.0	1.0	22.0
37	17610280.35	4785756.67	11.25	1	D	1000	76.8	0.0	0.0	0.0	0.0	50.6	0.3	-0.9	0.0	0.0	4.8	0.0	1.0	21.0
37	17610280.35	4785756.67	11.25	1	D	2000	72.7	0.0	0.0	0.0	0.0	50.6	0.9	-0.9	0.0	0.0	4.8	0.0	1.0	16.3
37	17610280.35	4785756.67	11.25	1	N	500	77.7	0.0	-3.0	0.0	0.0	50.6	0.2	-0.9	0.0	0.0	4.8	0.0	1.0	19.0
37	17610280.35	4785756.67	11.25	1	N	1000	76.8	0.0	-3.0	0.0	0.0	50.6	0.3	-0.9	0.0	0.0	4.8	0.0	1.0	18.0

Point Source, ISO 9613, Name: "S13", ID: "HVAC_1FAN"																				
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	17610315.62	4785767.59	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	50.3	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	17.6
39	17610315.62	4785767.59	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	50.3	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	21.4
39	17610315.62	4785767.59	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	50.3	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	28.1
39	17610315.62	4785767.59	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	50.3	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	27.0
39	17610315.62	4785767.59	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	50.3	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	22.4
39	17610315.62	4785767.59	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	50.3	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	18.4
39	17610315.62	4785767.59	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	50.3	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	25.1
39	17610315.62	4785767.59	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	50.3	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	24.0
39	17610315.62	4785767.59	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	50.3	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	19.4

Point Source, ISO 9613, Name: "S12", ID: "HVAC_1FAN"																				
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	17610300.47	4785749.80	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	51.2	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	16.6
40	17610300.47	4785749.80	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	51.2	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.4
40	17610300.47	4785749.80	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	51.2	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	27.1
40	17610300.47	4785749.80	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	51.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	26.1
40	17610300.47	4785749.80	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	51.2	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	21.3
40	17610300.47	4785749.80	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	51.2	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	17.4
40	17610300.47	4785749.80	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	51.2	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	24.1
40	17610300.47	4785749.80	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	51.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	23.1
40	17610300.47	4785749.80	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	51.2	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	18.3

Point Source, ISO 9613, Name: "S11", ID: "HVAC_1FAN"																				
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	17610305.88	4785748.18	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	51.5	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	16.3
41	17610305.88	4785748.18	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	51.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.2
41	17610305.88	4785748.18	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	51.5	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	26.9
41	17610305.88	4785748.18	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	51.5	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	25.8
41	17610305.88	4785748.18	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	51.5	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	21.1
41	17610305.88	4785748.18	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	51.5	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	17.1
41	17610305.88	4785748.18	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	51.5	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	23.9
41	17610305.88	4785748.18	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	51.5	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	22.8
41	17610305.88	4785748.18	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	51.5	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	18.0

Point Source, ISO 9613, Name: "S10", ID: "HVAC_1FAN"																				
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	17610311.57	4785746.22	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	51.8	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	16.0
42	17610311.57	4785746.22	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	51.8	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	19.8
42	17610311.57	4785746.22	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	51.8	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	26.6
42	17610311.57	4785746.22	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	51.8	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	25.5
42	17610311.57	4785746.22	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	51.8	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.7
42	17610311.57	4785746.22	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	51.8	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	16.8
42	17610311.57	4785746.22	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	51.8	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	23.6
42	17610311.57	4785746.22	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	51.8	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	22.5
42	17610311.57	4785746.22	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	51.8	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	17.7

Point Source, ISO 9613, Name: "S09", ID: "HVAC_1FAN"																				
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)
43	17610316.91	4785744.46	8.25	0	D	125	67.5	0.0	0.0	0.0	0.0	52.1	0.0	-0.4	0.0	0.0	0.0	0.0	0.0	15.7
43	17610316.91	4785744.46	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	52.1	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	19.6
43	17610316.91	4785744.46	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	52.1	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	26.3
43	17610316.91	4785744.46	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	52.1	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	25.2
43	17610316.91	4785744.46	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	52.1	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.4
43	17610316.91	4785744.46	8.25	0	N	250	70.9	0.0	-3.0	0.0	0.0	52.1	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	16.5
43	17610316.91	4785744.46	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	52.1	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	23.3
43	17610316.91	4785744.46	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	52.1	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	22.2
43	17610316.91	4785744.46	8.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	52.1	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	17.4

Point Source, ISO 9613, Name: "S28", ID: "HVAC_2FAN"																				
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	17610397.63	4785795.43	7.25	0	D	125	69.7	0.0	0.0	0.0	0.0	53.7	0.1	0.2	0.0	0.0	0.0	0.0	0.0	15.7
44	17610397.63	4785795.43	7.25	0	D	250	73.2	0.0	0.0	0.0	0.0	53.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.1
44	17610397.63	4785795.43	7.25	0	D	500	76.6	0.0	0.0	0.0	0.0	53.7	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	23.5
44	17610397.63	4785795.43	7.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	53.7	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	25.6
44	17610397.63	4785795.43	7.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	53.7	1.3	-0.9	0.0	0.0	0.0	0.0	0.0	20.2
44	17610397.63	4785795.43	7.25	0	N	250	73.2	0.0	-3.0	0.0	0.0	53.7	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	17.1
44	17610397.63	4785795.43	7.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	53.7	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	20.5
44	17610397.63	4785795.43	7.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	53.7	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	22.6
44	17610397.63	4785795.43	7.25	0	N	2000	74.4	0.0	-3.0	0.0	0.0	53.7	1.3	-0.9	0.0	0.0	0.0	0.0	0.0	17.2

Point Source, ISO 9613, Name: "S59", ID: "HVAC_4_Fan"																				
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	17610231.71	4785639.02	10.75	0	D	250	77.7	0.0	0.0	0.0	0.0	57.6	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	20.9
45	17610231.71	4785639.02	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	57.6	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	24.4
45	17610231.71	4785639.02	10.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	57.6	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	23.5
45	17610231.71	4785639.02	10.75	0	D	2000	76.8	0.0	0.0	0.0	0.0	57.6	2.1	-0.9	0.0	0.0	0.0	0.0	0.0	18.1
45	17610231.71	4785639.02	10.75	0	N	250	77.7	0.0	-3.0	0.0	0.0	57.6	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	17.9
45	17610231.71	4785639.02	10.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	57.6	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	21.4
45	17610231.71	4785639.02	10.75	0	N	1000	80.9	0.0	-3.0	0.0	0.0	57.6	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	20.5
45	17610231.71	4785639.02	10.75	0	N	2000	76.8	0.0	-3.0	0.0	0.0	57.6	2.1	-0.9	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "S58", ID: "HVAC_4_Fan"																				
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)
52	17610197.90	4785647.96	10.75	0	D	250	77.7	0.0	0.0	0.0	0.0	57.6	0.2	-0.9	0.0	0.0	4.9	0.0	0.0	16.0
52	17610197.90	4785647.96	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	57.6	0.4	-0.9	0.0	0.0	5.1	0.0	0.0	19.2
52	17610197.90	4785647.96	10.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	57.6	0.8	-0.9	0.0	0.0	5.5	0.0	0.0	18.0
52	17610197.90	4785647.96	10.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	57.6	0.4	-0.9	0.0	0.0	5.1	0.0	0.0	16.2

Point Source, ISO 9613, Name: "S57", ID: "HVAC_4_Fan"																				
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	17610166.13	4785657.17	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	57.8	0.4	-0.9	0.0	0.0	7.9	0.0	0.0	16.2

Point Source, ISO 9613, Name: "S29", ID: "HVAC_1FAN"																				
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	17610394.39	4785786.40	7.25	0	D	250	70.9	0.0	0.0	0.0	0.0	53.8	0.1	-0.9	0.0	0.0	0.0	0.0	0.0	17.8
56	17610394.39	4785786.40	7.25	0	D	500	77.7	0.0	0.0	0.0	0.0	53.8	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	24.5
56	17610394.39	4785786.40	7.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	53.8	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	23.4
56	17610394.39	4785786.40	7.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	53.8	1.3	-0.9	0.0	0.0	0.0	0.0	0.0	18.5
56	17610394.39	4785786.40	7.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	53.8	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	21.5
56	17610394.39	4785786.40	7.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	53.8	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	20.4
56	17610394.39	4785786.40	7.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	53.8	1.3	-0.9	0.0	0.0	0.0	0.0	0.0	15.5

Point Source, ISO 9613, Name: "S30", ID: "HVAC_1FAN"																				
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)
58	17610398.52	4785781.93	7.25	0	D	250	70.9	0.0	0.0	0.0	0.0	54.1	0.1	-0.8	0.0	0.0	0.0	0.0	0.0	17.4
58	17610398.52	4785781.93	7.25	0	D	500	77.7	0.0	0.0	0.0	0.0	54.1	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	24.2
58	17610398.52	4785781.93	7.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	54.1	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	23.0
58	17610398.52	4785781.93	7.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	54.1	1.4	-0.9	0.0	0.0	0.0	0.0	0.0	18.1
58	17610398.52	4785781.93	7.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	54.1	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	21.2
58	17610398.52	4785781.93	7.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	54.1	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	20.0
58	17610398.52	4785781.93	7.25	0	N	2000	72.7	0.0	-3.0	0.0	0.0	54.1	1.4	-0.9	0.0	0.0	0.0	0.0	0.0	15.0

Point Source, ISO 9613, Name: "S31", ID: "HVAC_1FAN"																				
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	17610404.21	4785789.29	7.25	0	D	250	70.9	0.0	0.0	0.0	0.0	54.2	0.2	-0.8	0.0	0.0	0.0	0.0	0.0	17.3
60	17610404.21	4785789.29	7.25	0	D	500	77.7	0.0	0.0	0.0	0.0	54.2	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	24.0
60	17610404.21	4785789.29	7.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	54.2	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	22.9
60	17610404.21	4785789.29	7.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	54.2	1.4	-0.9	0.0	0.0	0.0	0.0	0.0	17.9

Point Source, ISO 9613, Name: "S31", ID: "HVAC_1FAN"																				
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	17610404.21	4785789.29	7.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	54.2	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	21.0
60	17610404.21	4785789.29	7.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	54.2	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	19.9

Point Source, ISO 9613, Name: "S65", ID: "HVAC_4_Fan"																				
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)
63	17610272.69	4785606.90	10.75	0	D	250	77.7	0.0	0.0	0.0	0.0	58.6	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	19.8
63	17610272.69	4785606.90	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	58.6	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	23.2
63	17610272.69	4785606.90	10.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	58.6	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	22.3
63	17610272.69	4785606.90	10.75	0	D	2000	76.8	0.0	0.0	0.0	0.0	58.6	2.3	-0.9	0.0	0.0	0.0	0.0	0.0	16.8
63	17610272.69	4785606.90	10.75	0	N	250	77.7	0.0	-3.0	0.0	0.0	58.6	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	16.8
63	17610272.69	4785606.90	10.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	58.6	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	20.2
63	17610272.69	4785606.90	10.75	0	N	1000	80.9	0.0	-3.0	0.0	0.0	58.6	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	19.3
64	17610272.69	4785606.90	10.75	1	D	250	77.7	0.0	0.0	0.0	0.0	60.0	0.3	-0.9	0.0	0.0	0.0	0.0	1.0	17.4
64	17610272.69	4785606.90	10.75	1	D	500	81.4	0.0	0.0	0.0	0.0	60.0	0.5	-0.9	0.0	0.0	0.0	0.0	1.0	20.8
64	17610272.69	4785606.90	10.75	1	D	1000	80.9	0.0	0.0	0.0	0.0	60.0	1.0	-0.9	0.0	0.0	0.0	0.0	1.0	19.9
64	17610272.69	4785606.90	10.75	1	N	500	81.4	0.0	-3.0	0.0	0.0	60.0	0.5	-0.9	0.0	0.0	0.0	0.0	1.0	17.8
64	17610272.69	4785606.90	10.75	1	N	1000	80.9	0.0	-3.0	0.0	0.0	60.0	1.0	-0.9	0.0	0.0	0.0	0.0	1.0	16.8

Point Source, ISO 9613, Name: "S61", ID: "HVAC_4_Fan"																				
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)
65	17610197.29	4785618.67	10.75	0	D	250	77.7	0.0	0.0	0.0	0.0	58.6	0.3	-0.9	0.0	0.0	4.7	0.0	0.0	15.1
65	17610197.29	4785618.67	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	58.6	0.5	-0.9	0.0	0.0	4.8	0.0	0.0	18.5
65	17610197.29	4785618.67	10.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	58.6	0.9	-0.9	0.0	0.0	4.8	0.0	0.0	17.5
65	17610197.29	4785618.67	10.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	58.6	0.5	-0.9	0.0	0.0	4.8	0.0	0.0	15.5

Point Source, ISO 9613, Name: "S60", ID: "HVAC_4_Fan"																				
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)
67	17610162.77	4785630.35	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	58.7	0.5	-0.9	0.0	0.0	7.1	0.0	0.0	16.1

Point Source, ISO 9613, Name: "S72", ID: "HVAC_4_Fan"																				
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)
69	17610333.39	4785611.53	7.75	0	D	250	77.7	0.0	0.0	0.0	0.0	58.8	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	19.6
69	17610333.39	4785611.53	7.75	0	D	500	81.4	0.0	0.0	0.0	0.0	58.8	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	23.1
69	17610333.39	4785611.53	7.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	58.8	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	22.2
69	17610333.39	4785611.53	7.75	0	D	2000	76.8	0.0	0.0	0.0	0.0	58.8	2.4	-0.9	0.0	0.0	0.0	0.0	0.0	16.6
69	17610333.39	4785611.53	7.75	0	N	250	77.7	0.0	-3.0	0.0	0.0	58.8	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	16.6
69	17610333.39	4785611.53	7.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	58.8	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	20.1
69	17610333.39	4785611.53	7.75	0	N	1000	80.9	0.0	-3.0	0.0	0.0	58.8	0.9	-0.9	0.0	0.0	0.0	0.0	0.0	19.2

Point Source, ISO 9613, Name: "S73", ID: "HVAC_4_Fan"																				
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)
71	17610350.11	4785605.91	7.75	0	D	250	77.7	0.0	0.0	0.0	0.0	59.1	0.3	-0.9	0.0	0.0	3.6	0.0	0.0	15.6
71	17610350.11	4785605.91	7.75	0	D	500	81.4	0.0	0.0	0.0	0.0	59.1	0.5	-0.9	0.0	0.0	4.8	0.0	0.0	17.9
71	17610350.11	4785605.91	7.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	59.1	0.9	-0.9	0.0	0.0	6.4	0.0	0.0	15.4

Point Source, ISO 9613, Name: "S00", ID: "HVAC_4_Fan"																				
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	17610429.92	4785643.25	1.75	0	D	500	81.4	0.0	0.0	0.0	0.0	59.3	0.5	1.5	0.0	0.0	0.0	0.0	0.0	20.2
72	17610429.92	4785643.25	1.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	59.3	0.9	-0.7	0.0	0.0	0.0	0.0	0.0	21.4
72	17610429.92	4785643.25	1.75	0	D	2000	76.8	0.0	0.0	0.0	0.0	59.3	2.5	-0.9	0.0	0.0	0.0	0.0	0.0	16.0
72	17610429.92	4785643.25	1.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	59.3	0.5	1.5	0.0	0.0	0.0	0.0	0.0	17.2
72	17610429.92	4785643.25	1.75	0	N	1000	80.9	0.0	-3.0	0.0	0.0	59.3	0.9	-0.7	0.0	0.0	0.0	0.0	0.0	18.4

Point Source, ISO 9613, Name: "S41", ID: "HVAC_2FAN"																				
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)
75	17610409.66	4785726.82	8.25	0	D	500	76.6	0.0	0.0	0.0	0.0	56.3	0.4	-0.9	0.0	0.0	4.8	0.0	0.0	16.1
75	17610409.66	4785726.82	8.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	56.3	0.7	-0.9	0.0	0.0	4.8	0.0	0.0	18.1

Point Source, ISO 9613, Name: "S41", ID: "HVAC_2FAN"																				
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)
75	17610409.66	4785726.82	8.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	56.3	0.7	-0.9	0.0	0.0	4.8	0.0	0.0	15.1

Point Source, ISO 9613, Name: "S42", ID: "HVAC_2FAN"																				
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	17610406.09	4785717.12	8.25	0	D	500	76.6	0.0	0.0	0.0	0.0	56.5	0.4	-0.9	0.0	0.0	4.8	0.0	0.0	15.9
76	17610406.09	4785717.12	8.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	56.5	0.7	-0.9	0.0	0.0	4.8	0.0	0.0	17.9

Point Source, ISO 9613, Name: "S45", ID: "HVAC_2FAN"																				
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)
84	17610348.70	4785675.80	12.25	0	D	500	76.6	0.0	0.0	0.0	0.0	56.5	0.4	-0.9	0.0	0.0	4.7	0.0	0.0	15.9
84	17610348.70	4785675.80	12.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	56.5	0.7	-0.9	0.0	0.0	6.3	0.0	0.0	16.3

Point Source, ISO 9613, Name: "S63", ID: "HVAC_4_Fan"																				
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)
85	17610191.36	4785578.49	10.75	0	D	250	77.7	0.0	0.0	0.0	0.0	60.0	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	18.4
85	17610191.36	4785578.49	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	60.0	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	21.8
85	17610191.36	4785578.49	10.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	60.0	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	20.8
85	17610191.36	4785578.49	10.75	0	D	2000	76.8	0.0	0.0	0.0	0.0	60.0	2.7	-0.9	0.0	0.0	0.0	0.0	0.0	15.1
85	17610191.36	4785578.49	10.75	0	N	250	77.7	0.0	-3.0	0.0	0.0	60.0	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	15.4
85	17610191.36	4785578.49	10.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	60.0	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	18.8
85	17610191.36	4785578.49	10.75	0	N	1000	80.9	0.0	-3.0	0.0	0.0	60.0	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	17.8

Point Source, ISO 9613, Name: "S47", ID: "HVAC_2FAN"																				
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)
95	17610344.27	4785666.11	12.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	56.8	0.7	-0.9	0.0	0.0	7.1	0.0	0.0	15.2

Point Source, ISO 9613, Name: "S35", ID: "HVAC_1FAN"																				
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(A)	dB(A)
97	17610429.41	4785779.54	4.05	0	D	500	77.7	0.0	0.0	0.0	0.0	55.7	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	22.5
97	17610429.41	4785779.54	4.05	0	D	1000	76.8	0.0	0.0	0.0	0.0	55.7	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	21.3
97	17610429.41	4785779.54	4.05	0	D	2000	72.7	0.0	0.0	0.0	0.0	55.7	1.7	-0.9	0.0	0.0	0.0	0.0	0.0	16.2
97	17610429.41	4785779.54	4.05	0	N	500	77.7	0.0	-3.0	0.0	0.0	55.7	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	19.5
97	17610429.41	4785779.54	4.05	0	N	1000	76.8	0.0	-3.0	0.0	0.0	55.7	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	18.3

Point Source, ISO 9613, Name: "S55", ID: "HVAC_1FAN"																				
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)
101	17610357.13	4785697.79	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	55.8	0.3	-0.9	0.0	0.0	5.1	0.0	0.0	17.4
101	17610357.13	4785697.79	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	55.8	0.6	-0.9	0.0	0.0	5.3	0.0	0.0	15.9

Point Source, ISO 9613, Name: "S34", ID: "HVAC_1FAN"																				
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)
103	17610426.79	4785771.79	4.05	0	D	500	77.7	0.0	0.0	0.0	0.0	55.8	0.3	-0.9	0.0	0.0	5.0	0.0	0.0	17.5
103	17610426.79	4785771.79	4.05	0	D	1000	76.8	0.0	0.0	0.0	0.0	55.8	0.6	-0.9	0.0	0.0	5.2	0.0	0.0	16.1

Point Source, ISO 9613, Name: "S51", ID: "HVAC_2FAN"																				
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)
105	17610354.53	4785669.20	12.25	0	D	500	76.6	0.0	0.0	0.0	0.0	56.9	0.4	-0.9	0.0	0.0	4.5	0.0	0.0	15.7
105	17610354.53	4785669.20	12.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	56.9	0.7	-0.9	0.0	0.0	5.2	0.0	0.0	17.0

Point Source, ISO 9613, Name: "S64", ID: "HVAC_4_Fan"																				
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)
106	17610258.71	4785558.75	10.75	0	D	250	77.7	0.0	0.0	0.0	0.0	60.2	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	18.1
106	17610258.71	4785558.75	10.75	0	D	500	81.4	0.0	0.0	0.0	0.0	60.2	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	21.6
106	17610258.71	4785558.75	10.75	0	D	1000	80.9	0.0	0.0	0.0	0.0	60.2	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	20.6
106	17610258.71	4785558.75	10.75	0	N	250	77.7	0.0	-3.0	0.0	0.0	60.2	0.3	-0.9	0.0	0.0	0.0	0.0	0.0	15.1

Point Source, ISO 9613, Name: "S64", ID: "HVAC_4_Fan"																				
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)
106	17610258.71	4785558.75	10.75	0	N	500	81.4	0.0	-3.0	0.0	0.0	60.2	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	18.6
106	17610258.71	4785558.75	10.75	0	N	1000	80.9	0.0	-3.0	0.0	0.0	60.2	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	17.6

Point Source, ISO 9613, Name: "S54", ID: "HVAC_1FAN"																				
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)
108	17610362.11	4785696.60	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	55.9	0.3	-0.9	0.0	0.0	4.9	0.0	0.0	17.4
108	17610362.11	4785696.60	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	55.9	0.6	-0.9	0.0	0.0	5.1	0.0	0.0	16.0

Point Source, ISO 9613, Name: "S38", ID: "HVAC_1FAN"																				
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)
111	17610413.01	4785739.98	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	56.0	0.3	-0.9	0.0	0.0	4.8	0.0	0.0	17.5
111	17610413.01	4785739.98	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	56.0	0.7	-0.9	0.0	0.0	4.8	0.0	0.0	16.2

Point Source, ISO 9613, Name: "S39", ID: "HVAC_1FAN"																				
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)
112	17610411.67	4785736.19	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	56.1	0.3	-0.9	0.0	0.0	4.8	0.0	0.0	17.4
112	17610411.67	4785736.19	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	56.1	0.7	-0.9	0.0	0.0	4.8	0.0	0.0	16.2

Point Source, ISO 9613, Name: "S49", ID: "HVAC_2FAN"																				
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)
113	17610346.59	4785658.17	12.25	0	D	500	76.6	0.0	0.0	0.0	0.0	57.2	0.4	-0.9	0.0	0.0	4.6	0.0	0.0	15.3
113	17610346.59	4785658.17	12.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	57.2	0.7	-0.9	0.0	0.0	5.0	0.0	0.0	17.0
114	17610346.59	4785658.17	12.25	1	D	1000	79.0	0.0	0.0	0.0	0.0	58.0	0.8	-0.9	0.0	0.0	4.8	0.0	1.0	15.2
116	17610346.59	4785658.17	12.25	1	D	1000	79.0	0.0	0.0	0.0	0.0	58.0	0.8	-0.9	0.0	0.0	5.0	0.0	1.0	15.0

Point Source, ISO 9613, Name: "S48", ID: "HVAC_2FAN"																				
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)
117	17610356.70	4785662.18	12.25	0	D	500	76.6	0.0	0.0	0.0	0.0	57.2	0.4	-0.9	0.0	0.0	3.6	0.0	0.0	16.3
117	17610356.70	4785662.18	12.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	57.2	0.7	-0.9	0.0	0.0	4.1	0.0	0.0	17.9
118	17610356.70	4785662.18	12.25	1	D	1000	79.0	0.0	0.0	0.0	0.0	57.6	0.8	-0.9	0.0	0.0	4.8	0.0	1.0	15.6

Point Source, ISO 9613, Name: "S53", ID: "HVAC_1FAN"																				
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)
121	17610367.38	4785694.84	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	56.1	0.3	-0.9	0.0	0.0	4.9	0.0	0.0	17.2
121	17610367.38	4785694.84	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	56.1	0.7	-0.9	0.0	0.0	5.1	0.0	0.0	15.8
122	17610367.38	4785694.84	8.25	1	D	500	77.7	0.0	0.0	0.0	0.0	57.3	0.4	-0.9	0.0	0.0	0.0	0.0	2.0	18.9
122	17610367.38	4785694.84	8.25	1	D	1000	76.8	0.0	0.0	0.0	0.0	57.3	0.8	-0.9	0.0	0.0	0.0	0.0	2.0	17.7
122	17610367.38	4785694.84	8.25	1	N	500	77.7	0.0	-3.0	0.0	0.0	57.3	0.4	-0.9	0.0	0.0	0.0	0.0	2.0	15.9
125	17610367.38	4785694.84	8.25	1	D	500	77.7	0.0	0.0	0.0	0.0	56.6	0.4	-0.9	0.0	0.0	4.9	0.0	1.0	15.7

Point Source, ISO 9613, Name: "S37", ID: "HVAC_1FAN"																				
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)
127	17610416.69	4785738.53	8.25	0	D	250	70.9	0.0	0.0	0.0	0.0	56.2	0.2	-0.9	0.0	0.0	0.0	0.0	0.0	15.4
127	17610416.69	4785738.53	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	56.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	22.0
127	17610416.69	4785738.53	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	56.2	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	20.8
127	17610416.69	4785738.53	8.25	0	D	2000	72.7	0.0	0.0	0.0	0.0	56.2	1.8	-0.9	0.0	0.0	0.0	0.0	0.0	15.6
127	17610416.69	4785738.53	8.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	56.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	19.0
127	17610416.69	4785738.53	8.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	56.2	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	17.8
129	17610416.69	4785738.53	8.25	1	D	500	77.7	0.0	0.0	0.0	0.0	56.9	0.4	-0.9	0.0	0.0	0.0	0.0	1.0	20.3
129	17610416.69	4785738.53	8.25	1	D	1000	76.8	0.0	0.0	0.0	0.0	56.9	0.7	-0.9	0.0	0.0	0.0	0.0	1.0	19.0
129	17610416.69	4785738.53	8.25	1	N	500	77.7	0.0	-3.0	0.0	0.0	56.9	0.4	-0.9	0.0	0.0	0.0	0.0	1.0	17.3
129	17610416.69	4785738.53	8.25	1	N	1000	76.8	0.0	-3.0	0.0	0.0	56.9	0.7	-0.9	0.0	0.0	0.0	0.0	1.0	16.0

Point Source, ISO 9613, Name: "S36", ID: "HVAC_1FAN"																				
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)
130	17610435.21	4785768.94	4.05	0	D	500	77.7	0.0	0.0	0.0	0.0	56.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	22.0

Point Source, ISO 9613, Name: "S36", ID: "HVAC_1FAN"																				
Nr.	X	Y	Z	Ref.	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)
130	17610435.21	4785768.94	4.05	0	D	1000	76.8	0.0	0.0	0.0	0.0	56.2	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	20.8
130	17610435.21	4785768.94	4.05	0	D	2000	72.7	0.0	0.0	0.0	0.0	56.2	1.8	-0.9	0.0	0.0	0.0	0.0	0.0	15.6
130	17610435.21	4785768.94	4.05	0	N	500	77.7	0.0	-3.0	0.0	0.0	56.2	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	19.0
130	17610435.21	4785768.94	4.05	0	N	1000	76.8	0.0	-3.0	0.0	0.0	56.2	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	17.8

Point Source, ISO 9613, Name: "S40", ID: "HVAC_1FAN"																				
Nr.	X	Y	Z	Ref.	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)
132	17610407.54	4785721.36	8.25	0	D	500	77.7	0.0	0.0	0.0	0.0	56.4	0.4	-0.9	0.0	0.0	4.8	0.0	0.0	17.1
132	17610407.54	4785721.36	8.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	56.4	0.7	-0.9	0.0	0.0	4.8	0.0	0.0	15.8

Point Source, ISO 9613, Name: "S50", ID: "HVAC_2FAN"																				
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)
134	17610350.38	4785648.69	12.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	57.6	0.8	-0.9	0.0	0.0	4.8	0.0	0.0	16.7
136	17610350.38	4785648.69	12.25	1	D	500	76.6	0.0	0.0	0.0	0.0	58.1	0.4	-0.9	0.0	0.0	0.0	0.0	1.0	17.9
136	17610350.38	4785648.69	12.25	1	D	1000	79.0	0.0	0.0	0.0	0.0	58.1	0.8	-0.9	0.0	0.0	0.0	0.0	1.0	19.9
136	17610350.38	4785648.69	12.25	1	N	1000	79.0	0.0	-3.0	0.0	0.0	58.1	0.8	-0.9	0.0	0.0	0.0	0.0	1.0	16.9
139	17610350.38	4785648.69	12.25	1	D	1000	79.0	0.0	0.0	0.0	0.0	57.9	0.8	-0.9	0.0	0.0	4.8	0.0	1.0	15.4

Point Source, ISO 9613, Name: "S44", ID: "HVAC_2FAN"																				
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)
141	17610444.27	4785717.11	7.25	0	D	250	73.2	0.0	0.0	0.0	0.0	57.7	0.2	-0.8	0.0	0.0	0.0	0.0	0.0	16.1
141	17610444.27	4785717.11	7.25	0	D	500	76.6	0.0	0.0	0.0	0.0	57.7	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	19.3
141	17610444.27	4785717.11	7.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	57.7	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	21.4
141	17610444.27	4785717.11	7.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	57.7	2.1	-0.9	0.0	0.0	0.0	0.0	0.0	15.5
141	17610444.27	4785717.11	7.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	57.7	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	16.3
141	17610444.27	4785717.11	7.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	57.7	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	18.3
143	17610444.27	4785717.11	7.25	1	D	500	76.6	0.0	0.0	0.0	0.0	60.1	0.5	-0.9	0.0	0.0	0.0	0.0	1.0	15.8
143	17610444.27	4785717.11	7.25	1	D	1000	79.0	0.0	0.0	0.0	0.0	60.1	1.0	-0.9	0.0	0.0	0.0	0.0	1.0	17.8

Point Source, ISO 9613, Name: "S43", ID: "HVAC_2FAN"																				
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)
148	17610451.41	4785714.72	7.25	0	D	250	73.2	0.0	0.0	0.0	0.0	58.0	0.2	-0.8	0.0	0.0	0.0	0.0	0.0	15.8
148	17610451.41	4785714.72	7.25	0	D	500	76.6	0.0	0.0	0.0	0.0	58.0	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	19.0
148	17610451.41	4785714.72	7.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	58.0	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	21.0
148	17610451.41	4785714.72	7.25	0	D	2000	74.4	0.0	0.0	0.0	0.0	58.0	2.2	-0.9	0.0	0.0	0.0	0.0	0.0	15.1
148	17610451.41	4785714.72	7.25	0	N	500	76.6	0.0	-3.0	0.0	0.0	58.0	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	16.0
148	17610451.41	4785714.72	7.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	58.0	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	18.0
149	17610451.41	4785714.72	7.25	1	D	500	76.6	0.0	0.0	0.0	0.0	60.2	0.6	-0.9	0.0	0.0	0.0	0.0	1.0	15.7
149	17610451.41	4785714.72	7.25	1	D	1000	79.0	0.0	0.0	0.0	0.0	60.2	1.1	-0.9	0.0	0.0	0.0	0.0	1.0	17.6

Point Source, ISO 9613, Name: "S52", ID: "HVAC_1FAN"																				
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)
151	17610352.70	4785662.18	12.25	0	D	500	77.7	0.0	0.0	0.0	0.0	57.1	0.4	-0.9	0.0	0.0	1.8	0.0	0.0	19.3
151	17610352.70	4785662.18	12.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	57.1	0.7	-0.9	0.0	0.0	1.8	0.0	0.0	18.0
151	17610352.70	4785662.18	12.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	57.1	0.4	-0.9	0.0	0.0	1.8	0.0	0.0	16.3
151	17610352.70	4785662.18	12.25	0	N	1000	76.8	0.0	-3.0	0.0	0.0	57.1	0.7	-0.9	0.0	0.0	1.8	0.0	0.0	15.0

Point Source, ISO 9613, Name: "S01", ID: "HVAC_2FAN"																				
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)
157	17610431.96	4785637.16	1.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	59.5	1.0	-0.0	0.0	0.0	0.0	0.0	0.0	18.6
157	17610431.96	4785637.16	1.25	0	N	1000	79.0	0.0	-3.0	0.0	0.0	59.5	1.0	-0.0	0.0	0.0	0.0	0.0	0.0	15.6

Point Source, ISO 9613, Name: "S02", ID: "HVAC_2FAN"																				
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)
163	17610463.41	4785638.94	1.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	60.1	1.0	-0.0	0.0	0.0	0.0	0.0	0.0	17.9

Point Source, ISO 9613, Name: "S03", ID: "HVAC_2FAN"																				
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)
165	17610467.42	4785639.39	1.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	60.1	1.0	-0.0	0.0	0.0	1.9	0.0	0.0	16.0

Point Source, ISO 9613, Name: "S05", ID: "HVAC_2FAN"																				
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)
169	17610473.67	4785633.59	1.25	0	D	1000	79.0	0.0	0.0	0.0	0.0	60.4	1.1	-0.0	0.0	0.0	1.8	0.0	0.0	15.7

Point Source, ISO 9613, Name: "S68", ID: "HVAC_1FAN"																				
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)
174	17610303.49	4785572.02	7.25	0	D	500	77.7	0.0	0.0	0.0	0.0	59.9	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	18.2
174	17610303.49	4785572.02	7.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	59.9	1.0	-0.9	0.0	0.0	0.0	0.0	0.0	16.8
174	17610303.49	4785572.02	7.25	0	N	500	77.7	0.0	-3.0	0.0	0.0	59.9	0.5	-0.9	0.0	0.0	0.0	0.0	0.0	15.2

Point Source, ISO 9613, Name: "S06", ID: "HVAC_1FAN"																				
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)
176	17610457.25	4785638.63	1.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	59.9	1.0	-0.0	0.0	0.0	0.0	0.0	0.0	15.8

Point Source, ISO 9613, Name: "S71", ID: "HVAC_1FAN"																				
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)
187	17610341.43	4785552.91	7.25	0	D	500	77.7	0.0	0.0	0.0	0.0	60.6	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	17.4
187	17610341.43	4785552.91	7.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	60.6	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	15.9

Point Source, ISO 9613, Name: "S70", ID: "HVAC_1FAN"																				
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)
189	17610334.40	4785539.99	7.25	0	D	500	77.7	0.0	0.0	0.0	0.0	60.9	0.6	-0.9	0.0	0.0	0.0	0.0	0.0	17.0
189	17610334.40	4785539.99	7.25	0	D	1000	76.8	0.0	0.0	0.0	0.0	60.9	1.1	-0.9	0.0	0.0	0.0	0.0	0.0	15.6

ATTACHMENT D

Table C1
Stationary Noise Impact Source Data
Point Sources

1310 South Service Road, Hamilton, Ontario

Noise Source Description	Cadna ID	Total SWL (dBA)	Data Source or Representative Data	Height Absolute (m)	Above Roof (m)	Operating Time		x	y
						Day	Night		
						(min)	(min)		
S01	Representative_Chiller	91.7	Representative_Chiller	10.75	1.75	60	30	17610264	4785616
S02	Representative_Chiller	91.7	Representative_Chiller	10.75	1.75	60	30	17610257	4785618
S03	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610157	4785585
S04	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610149	4785587
S05	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610136	4785592
S06	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610138	4785598
S07	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610133	4785600
S08	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610152	4785659
S09	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610317	4785744
S10	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610312	4785746
S11	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610306	4785748
S12	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610300	4785750
S13	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610316	4785768
S14	HVAC_2FAN	82.8	HVAC_2FAN	8.25	1.25	60	30	17610317	4785771
S15	HVAC_2FAN	82.8	HVAC_2FAN	8.25	1.25	60	30	17610322	4785766
S16	HVAC_2FAN	82.8	HVAC_2FAN	8.25	1.25	60	30	17610316	4785763
S17	HVAC_2FAN	82.8	HVAC_2FAN	9.25	1.25	60	30	17610337	4785837
S18	HVAC_2FAN	82.8	HVAC_2FAN	9.25	1.25	60	30	17610340	4785815
S19	HVAC_2FAN	82.8	HVAC_2FAN	9.25	1.25	60	30	17610330	4785817
S20	HVAC_1FAN	81.7	HVAC_1FAN	9.25	1.25	60	30	17610343	4785829
S21	HVAC_1FAN	81.7	HVAC_1FAN	9.25	1.25	60	30	17610327	4785810
S22	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610302	4785851
S23	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610295	4785853
S24	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610293	4785847
S25	HVAC_1FAN	81.7	HVAC_1FAN	11.25	1.25	60	30	17610280	4785757
S26	HVAC_1FAN	81.7	HVAC_1FAN	11.25	1.25	60	30	17610276	4785758
S27	HVAC_1FAN	81.7	HVAC_1FAN	11.25	1.25	60	30	17610271	4785759
S28	HVAC_2FAN	82.8	HVAC_2FAN	7.25	1.25	60	30	17610398	4785795
S29	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610394	4785786
S30	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610399	4785782

Noise Source Description	Cadna ID	Total SWL (dBA)	Data Source or Representative Data	Height Absolute (m)	Above Roof (m)	Operating Time		x	y
						Day	Night		
						(min)	(min)		
S31	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610404	4785789
S32	HVAC_2FAN	82.8	HVAC_2FAN	4.05	1.25	60	30	17610421	4785780
S33	HVAC_2FAN	82.8	HVAC_2FAN	4.05	1.25	60	30	17610419	4785774
S34	HVAC_1FAN	81.7	HVAC_1FAN	4.05	1.25	60	30	17610427	4785772
S35	HVAC_1FAN	81.7	HVAC_1FAN	4.05	1.25	60	30	17610429	4785780
S36	HVAC_1FAN	81.7	HVAC_1FAN	4.05	1.25	60	30	17610435	4785769
S37	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610417	4785739
S38	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610413	4785740
S39	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610412	4785736
S40	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610408	4785721
S41	HVAC_2FAN	82.8	HVAC_2FAN	8.25	1.25	60	30	17610410	4785727
S42	HVAC_2FAN	82.8	HVAC_2FAN	8.25	1.25	60	30	17610406	4785717
S43	HVAC_2FAN	82.8	HVAC_2FAN	7.25	1.25	60	30	17610451	4785715
S44	HVAC_2FAN	82.8	HVAC_2FAN	7.25	1.25	60	30	17610444	4785717
S45	HVAC_2FAN	82.8	HVAC_2FAN	12.25	1.25	60	30	17610349	4785676
S46	HVAC_2FAN	82.8	HVAC_2FAN	12.25	1.25	60	30	17610356	4785673
S47	HVAC_2FAN	82.8	HVAC_2FAN	12.25	1.25	60	30	17610344	4785666
S48	HVAC_2FAN	82.8	HVAC_2FAN	12.25	1.25	60	30	17610357	4785662
S49	HVAC_2FAN	82.8	HVAC_2FAN	12.25	1.25	60	30	17610347	4785658
S50	HVAC_2FAN	82.8	HVAC_2FAN	12.25	1.25	60	30	17610350	4785649
S51	HVAC_2FAN	82.8	HVAC_2FAN	12.25	1.25	60	30	17610355	4785669
S52	HVAC_1FAN	81.7	HVAC_1FAN	12.25	1.25	60	30	17610353	4785662
S53	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610367	4785695
S54	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610362	4785697
S55	HVAC_1FAN	81.7	HVAC_1FAN	8.25	1.25	60	30	17610357	4785698
S56	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610155	4785603
S57	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610166	4785657
S58	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610198	4785648
S59	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610232	4785639
S60	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610163	4785630
S61	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610197	4785619
S62	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610140	4785616
S63	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610191	4785578
S64	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610259	4785559

Noise Source Description	Cadna ID	Total SWL (dBA)	Data Source or Representative Data	Height Absolute (m)	Above Roof (m)	Operating Time		x	y
						Day	Night		
						(min)	(min)		
S65	HVAC_4_Fan	86.1	HVAC_4_Fan	10.75	1.75	60	30	17610273	4785607
S66	HVAC_1FAN	81.7	HVAC_1FAN	10.25	1.25	60	30	17610187	4785671
S67	Representative_Chiller	91.7	Representative_Chiller	7.75	1.75	60	30	17610315	4785580
S68	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610303	4785572
S69	Representative_Chiller	91.7	Representative_Chiller	7.75	1.75	60	30	17610317	4785572
S70	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610334	4785540
S71	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610341	4785553
S72	HVAC_4_Fan	86.1	HVAC_4_Fan	7.75	1.75	60	30	17610333	4785612
S73	HVAC_4_Fan	86.1	HVAC_4_Fan	7.75	1.75	60	30	17610350	4785606
S74	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610352	4785620
S75	HVAC_1FAN	81.7	HVAC_1FAN	7.25	1.25	60	30	17610354	4785625
S76	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610432	4785500
S77	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610432	4785492
S78	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610444	4785497
S79	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610450	4785496
S80	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610459	4785481
S81	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610478	4785486
S82	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610483	4785485
S83	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610489	4785482
S84	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610494	4785480
S85	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610498	4785479
S86	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610512	4785475
S87	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610508	4785477
S88	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610502	4785478
S89	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610468	4785489
S90	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610457	4785492
S91	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610564	4785450
S92	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610566	4785455
S93	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610568	4785462
S94	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610572	4785480
S95	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610576	4785479
S96	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610580	4785478
S97	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610515	4785522
S98	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610509	4785523

Noise Source Description	Cadna ID	Total SWL (dBA)	Data Source or Representative Data	Height Absolute (m)	Above Roof (m)	Operating Time		x	y
						Day	Night		
						(min)	(min)		
S99	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610500	4785516
S100	HVAC_4_Fan	86.1	HVAC_4_Fan	1.75	1.75	60	30	17610430	4785643
S101	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610432	4785637
S102	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610463	4785639
S103	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610467	4785639
S104	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610477	4785640
S105	HVAC_2FAN	82.8	HVAC_2FAN	1.25	1.25	60	30	17610474	4785634
S106	HVAC_1FAN	81.7	HVAC_1FAN	1.25	1.25	60	30	17610457	4785639