

**NOISE IMPACT STUDY
PECKS MARINA BOAT STORAGE
GRANITE RIDGE ROAD & FITZSIMMONS ROAD
LEEDS AND THE THOUSAND ISLANDS, ONTARIO**

FOR

PECK'S MARINA

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INTRODUCTION

At the request of Peck's Marina, J.E. COULTER ASSOCIATES LIMITED has prepared a noise impact study for the proposed Peck's Marina boat storage facility at the southeast corner of Granite Ridge Road & Fitzsimmons Road in Leeds and the Thousand Islands, Ontario (see Appendix A, Figure 1). A Site Plan is provided in Appendix A, Figure 2.

The scope of the study is to determine the potential noise impact from the storage buildings at the closest noise sensitive receiver locations (R1 to R5, north, east, and west of the proposed operation) and to recommend potential noise attenuation measures to comply with the noise objectives of MECP's *NPC-300* noise criteria, as necessary.

DESCRIPTION OF THE SITE AND SURROUNDING AREAS

As noted in the Traffic Memo (GHD, dated August 19, 2022), all the boats will be transported by trailer to the proposed development at the end of the season and would be transported back from the proposed development to Peck's Marina (505 Thousand Islands Parkway) at the start of the season. There would be approximately 100 to 150 boats stored on site. The traffic would mostly be from September 15th to December 1st in the fall and April 1st to May 30th in the spring. Over the approximately 11 weeks of the boat transport season, there would be about 10 to 12 boats moved each week, from Monday to Friday between 8:00 a.m. and 5:00 p.m., with the maximum number of 1 to 2 boats in one hour.

The area for the purposes of this noise review is considered by MECP classification to be a Class 2 Area (urban/rural mix) as Highway 401 to the north would dictate the sound levels at the various points of reception.

The proponent is seeking to construct a new boat storage facility on the property. Each building includes 3 access doors facing to the north (see Appendix A, Figure 3). Sample photos of the types of boats to be stored (from Peck's Marine current location) at the proposed site are shown in Appendix A, Figures 4 and 5.

According to the proponent, the proposed boat storage operation is to operate as follows:

1. Hours of operations: Monday to Friday, 7 a.m. to 5 p.m.
2. Number of Buildings: 2
3. Number of Access Doors: 3 per building (north side)
4. Repair Activities: No

NOISE CRITERIA

MECP recommends the guidelines found in *NPC-300* as the current noise criteria for non-transportation sources (service equipment and service activity noise). The MECP noise guideline states that the average sound level of the stationary source (mechanically generated noise or impulse noise such as banging) should not exceed the average sound level of the roadway traffic during the same hourly period. The sound level limit at a point of reception is set as the higher of either the applicable exclusion limit, or the minimum average background sound

level that occurs or is likely to occur during the time period corresponding to the operation of the stationary source under impact assessment.

This study has been based on the sound level criteria for a Class 2 Area (Urban/Rural) for plane-of-window and outdoor reception points.

Table 1: Exclusion Limit Values of One-Hour Equivalent Sound Level (L_{eq}, dBA) Plane-of-Window of Noise Sensitive Spaces				
Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00–19:00	50	50	45	55
19:00–23:00	50	50	40	60
23:00–07:00	45	45	40	55

Table 2: Exclusion Limit Values Of One-Hour Equivalent Sound Level (L_{eq}, dBA) Outdoor Points Of Reception				
Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00–19:00	50	50	45	55
19:00–23:00	50	45	40	55

EXISTING AMBIENT SOUND LEVELS

For the stationary noise sources, the criteria have been developed in accordance with the Ministry of the Environment, Conservation and Parks' noise guidelines. The guidelines state the sound levels due to a stationary source, including Quasi-Steady Impulsive Sound but not including other impulsive sound, if the sound level is expressed in terms of the One Hour Equivalent Sound Level (L_{eq}), should not, in any hour of the day, exceed the one hour equivalent sound level (L_{eq}) of the existing road traffic or MECP's minimum limits, noted in Tables 1 and 2, above.

The assessment identified eight noise sensitive receivers in the area of the proposed development. Table 3, below, provides the quietest daytime hourly sound level considered by MECP.

The most prominent transportation source is Highway 401. The traffic on Thousand Island Parkway was not considered because of the large setback, low truck mix, and dense woods between the points of reception and the roadway. Thousand Island Parkway is acoustically insignificant relative to Highway 401.

The most current traffic data available from MTO indicates Highway 401 carried 30,400 vehicles Average Annual Daily Traffic (AADT) in the year 2016 with 27% trucks (split 20.25% heavy and 6.75% medium) with a posted speed limit of 100 kph. Extrapolating the traffic data to the year 2023 (projected opening year of operation) based on a historical growth rate of 2% annual

growth (compounded), the traffic volume on Highway 401 is projected to be 34,920 vehicles AADT. Highway 401 is setback approximately 720m (with dense woods in between) from the closest point of reception to the proposed storage facility.

Eight points of reception were considered:

1. R1: 181 Granite Ridge – 2-Storey Dwelling – 2nd Level
2. R2: 181 Granite Ridge – Grade Level, 30m from dwelling to south
3. R3: Dwelling NW of Fitzsimmons Road & Granite Ridge
4. R4: Dwelling NW of Fitzsimmons Road & Granite Ridge – Grade Level, 30m from dwelling
5. R5: 136 Granite Ridge – 2-Storey Dwelling, 2nd Level
6. R6: 136 Granite Ridge – Grade Level, 30m from dwelling to west
7. R7: 159 Granite Ridge – Façade
8. R8: 159 Granite Ridge – Grade Level, 30m from dwelling.

For MECP classification, the area is considered a Class II area (Urban/Rural mix).

Based on the projected traffic, the ambient sound levels were calculated for the sensitive points of reception. The sound level limit at a point of reception applies anywhere within 30m of a dwelling. The receiver locations are shown in Appendix A, Figures 6 and 7.

Table 3: Lowest Ambient Sound Levels at Points of Reception (MECP Criteria, dB L_{eq}, 1 Hour)		
Time Period	Calculated Quietest Hourly Sound Level (dB L_{eq}, 1 Hour)	MECP Daytime (0700–1900 Hours) Exclusion Sound Level Limit (dB L_{eq}, 1 Hour)
R1, R3, R5, R7: Façade, 0700–1900 hours, (dB L _{eq} , 1 Hour)	49	50
R2, R4, R6, R8: Grade level, 30m from dwelling	47	50

Note: The higher (bolded) of the Calculated Quietest Hourly Sound Level or MECP Exclusion Sound Level Limit determines the noise criteria.

SOURCE SOUND LEVELS

The following table summarizes the estimated sound power levels of the main sources of potential equipment (see Appendix A, Figures 6 and 7).

Table 4: Noise Source Summary					
Source ID	Source Description	Sound Power Level	Source Location¹	Sound Characteristics²	Noise Control Measures³
S1	Trailer Movements	100 dBA	O	S	U
S2	Access Doors	90 dBA	O	S	U
S3	Impulse Noise (Uncoupling of trailer: banging, clanging)	105 dBAI	O	I	U

¹ Source Location:
 O - located/installed outside the building, including roof
 I - located/installed inside building

² Sound Characteristics:
 S: Steady
 Q: Quasi-Steady Impulsive
 I: Impulsive
 A: Buzzing
 T: Tonal (+5 dB included in PWL value)
 C: Cyclic

³ Noise Control Measures
 S: Silencer, acoustic louvre, muffler
 A: Acoustic lining, plenum
 B: Barrier, berm, screening
 L: Lagging
 E: Acoustic Enclosure
 O: Other
 U: Uncontrolled

PROPOSED EQUIPMENT AND OPERATION

The equipment anticipated to be on-site is as follows:

Trailer Movements (S1)

The analysis assumed that 2 trailers per hour would enter the site throughout the day for a total of 4 movements per hour. The speed of the trailer movements is 15 kph. The trailers would enter off from Fitzsimmons Road, enter the site and head towards the access doors on the north side of the buildings.

Access Doors (S2)

There are three access doors on the north façades of the each building (see Appendix A, Figure 3). It is assumed each door operates 120 seconds per hour (opening and closing).

Impulse Noise (Banging) (S3)

Impulse noise generated by activities in the outdoor storage are based on the banging sounds that are generated when using hammers, mallets, or other similar tools. It has been assumed 9 or more bangs occur during any one-hour period. With this number of impulses, MECP's minimum noise criteria (the quietest ambient traffic sound levels noted above) are applicable, considered to be a worst-case scenario.

HVAC

There will be no external HVAC equipment (rooftop or grade level). Each storage building will be fitted with interior propane resonator ceiling mount furnaces. With the access door closed, the heating system will not generate any noise impacts at any residential unit.

PREDICTED SOUND LEVELS

The sound levels generated by the above-noted equipment were calculated in order to determine the required noise control measures to meet MECP's *NPC-300* noise criteria. The sound data were projected back to the residences, with appropriate adjustments for shielding, ground effect, building reflections, and atmospheric conditions. All sound level predictions were calculated using CadnaA v.2023 based on the formulae in *ISO-9613-2*. Detailed calculations of each source were calculated for each receptor and are summarized in Appendix B.

Three types of sounds were considered:

1. Steady (non-impulsive)
2. Impulsive (banging).

The sound levels of the proposed development were modelled assuming continuous operation (100% duty cycle) between 0700 and 1900 hours, to determine if a noise impact would occur over the criterion, a one-hour period.

Tables 5 and 6, below, summarize the impulse (banging) and non-impulse (vehicular movements and doors) sound levels of each source, unmitigated, at each Point of Reception (POR) based on the quietest ambient sound levels (50 dBA).

As summarized in Table 6, the sound levels generated by the proposed operation for non-impulsive sounds do not create a noise impact at R1 to R8, meeting MECP's *NPC-300* noise criteria from 0700 to 1900 hours. The combined sound levels generated from all mechanical sources are expected to be well below (4 to 20 dB) the quietest ambient traffic sound levels at R1 to R8 during the quietest hour of the day.

NOISE CONTROL MEASURES

The analysis found the proposed operation meets all MECP's noise criteria and there are no noise control measures required. Based on MECP's *NPC-300* noise criteria, the boat storage activities can take place between 7 a.m. and 7 p.m. Operations after 7 p.m. would require additional noise control measures.

CONCLUSIONS

Based on the proposed operation of the boat storage facility, it is feasible to meet MECP's *NPC-300* noise criteria. The analysis found that the projected sound levels from up to 2 boat trailers per hour will not generate any noise impacts at the noise sensitive points of reception.

RECOMMENDATIONS

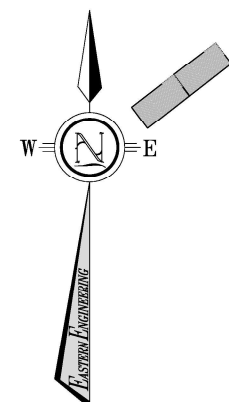
The following measures are recommended:

1. Based on the anticipated activities, the proposed boat storage facilities can operate between 0700 and 1900 hours (daytime) and meet MECP's *NPC-300* noise criteria at all sensitive points of reception without any need for additional noise control measures.

APPENDIX A: FIGURES



FIGURE 1



BENCHMARK

NOTE:
 CONTRACTOR TO CONTACT UTILITY COMPANIES TO DETERMINE TYPE, LOCATION, AND CONFIGURATION OF EXISTING PLANT.

No.	By	Date	Revisions

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The contractor must check and verify all dimensions on the job prior to start of construction.

Drawings are not to be scaled.

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Project Title:
PECK'S MARINA BOAT STORAGE

Drawing Title:
CONCEPT PLAN

Design: HS	Checked: CAJ	Approved: CAJ	Project No.: 10055
Drawn: HS	Checked: CAJ	Date: 2022-11-09	Contract No.:

Scale:
 Horizontal: 400

Drawing No.: **C1**

File No.: 10055 C.dwg

FIGURE 2



FIGURE 3



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Google Earth

FIGURE 5



FIGURE 6



FIGURE 7

APPENDIX B: TRAFFIC DATA

APPENDIX C: SOUND LEVEL CALCULATIONS

Filename: amb.te Time Period: 24 hours
Description: Ambient Sound Level - R1 - Hwy 401 - 2nd Storey

Road data, segment # 1: Hwy 401

Car traffic volume : 25492 veh/TimePeriod *
Medium truck volume : 2357 veh/TimePeriod *
Heavy truck volume : 7071 veh/TimePeriod *
Posted speed limit : 100 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: Hwy 401

Angle1 Angle2 : -90.00 deg 90.00 deg
Wood depth : 2 (Wood depth 60 metres or more)
No of house rows : 0
Surface : 1 (Absorptive ground surface)
Receiver source distance : 720.00 m
Receiver height : 4.50 m
Topography : 1 (Flat/gentle slope; no barrier)

Results segment # 1: Hwy 401

Source height = 2.12 m

ROAD (0.00 + 48.58 + 0.00) = 48.58 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.25	80.28	0.00	-21.04	-0.66	-10.00	0.00	0.00	48.58

Segment Leq : 48.58 dBA

Total Leq All Segments: 48.58 dBA

TOTAL Leq FROM ALL SOURCES: 48.58

Filename: amb_gr.te Time Period: 24 hours
Description: Ambient Sound Level - R1 - Hwy 401 - Grade

Road data, segment # 1: Hwy 401

Car traffic volume : 25492 veh/TimePeriod *
Medium truck volume : 2357 veh/TimePeriod *
Heavy truck volume : 7071 veh/TimePeriod *
Posted speed limit : 100 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: Hwy 401

Angle1 Angle2 : -90.00 deg 90.00 deg
Wood depth : 2 (Wood depth 60 metres or more)
No of house rows : 0
Surface : 1 (Absorptive ground surface)
Receiver source distance : 720.00 m
Receiver height : 1.50 m
Topography : 1 (Flat/gentle slope; no barrier)

Results segment # 1: Hwy 401

Source height = 2.12 m

ROAD (0.00 + 46.87 + 0.00) = 46.87 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.34	80.28	0.00	-22.55	-0.86	-10.00	0.00	0.00	46.87

Segment Leq : 46.87 dBA

Total Leq All Segments: 46.87 dBA

TOTAL Leq FROM ALL SOURCES: 46.87

CADNAA – IMPULSE SOUNDS – DAYTIME

Receiver

Name: R5 - 2nd Level

ID: R5

X: 18419323.44 m

Y: 4913668.25 m

Z: 5.59 m

Point Source, ISO 9613, Name: "Uncoupling", ID: "IMP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr	
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
7	18419257.26	4913644.01	3.82	0	D	500	92.2	0.0	0.0	0.0	0.0	48.0	0.1	1.7	2.0	0.0	8.5	0.0	0.0	0.0	31.9

Point Source, ISO 9613, Name: "Uncoupling", ID: "IMP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr	
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
9	18419248.74	4913637.52	4.03	0	D	500	92.2	0.0	0.0	0.0	0.0	49.1	0.2	1.8	2.0	0.0	12.5	0.0	0.0	0.0	26.6

Point Source, ISO 9613, Name: "Uncoupling", ID: "IMP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr	
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
11	18419238.56	4913629.76	4.28	0	D	500	92.2	0.0	0.0	0.0	0.0	50.4	0.2	1.9	2.0	0.0	14.2	0.0	0.0	0.0	23.5

Point Source, ISO 9613, Name: "Uncoupling", ID: "IMP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr	
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
13	18419220.49	4913615.98	4.72	0	D	500	92.2	0.0	0.0	0.0	0.0	52.2	0.2	2.0	2.0	0.0	15.5	0.0	0.0	0.0	20.3

Point Source, ISO 9613, Name: "Uncoupling", ID: "IMP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr	
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
15	18419212.73	4913610.06	4.91	0	D	500	92.2	0.0	0.0	0.0	0.0	52.9	0.2	2.0	2.0	0.0	15.3	0.0	0.0	0.0	19.7

Point Source, ISO 9613, Name: "Uncoupling", ID: "IMP"

Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr	
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
17	18419205.69	4913604.63	5.08	0	D	500	92.2	0.0	0.0	0.0	0.0	53.5	0.3	2.1	2.0	0.0	15.1	0.0	0.0	0.0	19.3

CADNAA – TRAILER & DOOR SOUND LEVELS – DAYTIME

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
273	18419241.29	4913645.99	4.50	1	D	500	64.3	13.8	0.0	0.0	0.0	53.7	0.3	0.9	0.0	0.0	0.0	0.0	0.0	23.1
303	18419187.24	4913575.52	5.04	0	D	500	64.3	11.5	0.0	0.0	0.0	51.3	0.2	0.9	0.0	0.0	0.0	0.0	0.0	23.4
305	18419248.60	4913454.17	2.89	0	D	500	64.3	17.7	0.0	0.0	0.0	58.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	22.0
307	18419256.10	4913438.21	2.61	1	D	500	64.3	13.6	0.0	0.0	0.0	60.6	0.6	1.0	0.0	0.0	0.0	0.0	0.0	15.8
314	18419243.69	4913464.60	3.08	1	D	500	64.3	15.5	0.0	0.0	0.0	59.7	0.5	1.0	0.0	0.0	0.0	0.0	0.0	18.5
316	18419225.36	4913496.58	3.64	0	D	500	64.3	15.9	0.0	0.0	0.0	56.5	0.4	1.0	0.0	0.0	0.0	0.0	0.0	22.3
318	18419233.98	4913483.83	3.42	1	D	500	64.3	9.0	0.0	0.0	0.0	59.1	0.5	1.0	0.0	0.0	0.0	0.0	0.0	12.7
324	18419184.75	4913563.00	4.82	0	D	500	64.3	10.8	0.0	0.0	0.0	51.9	0.2	0.9	0.0	0.0	0.0	0.0	0.0	22.0
326	18419178.46	4913554.22	4.66	0	D	500	64.3	10.2	0.0	0.0	0.0	52.3	0.2	0.9	0.0	0.0	0.0	0.0	0.0	21.0
332	18419253.67	4913648.99	4.25	0	D	500	64.3	8.2	0.0	0.0	0.0	53.4	0.3	0.9	0.0	0.0	0.0	0.0	0.0	17.8
334	18419256.44	4913645.15	4.23	0	D	500	64.3	4.6	0.0	0.0	0.0	53.6	0.3	0.9	0.0	0.0	0.0	0.0	0.0	14.0
335	18419254.52	4913647.82	4.24	1	D	500	64.3	9.8	0.0	0.0	0.0	53.9	0.3	0.9	0.0	0.0	0.0	0.0	0.0	18.9

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
289	18419202.57	4913613.53	5.46	0	D	500	64.3	12.4	0.0	0.0	0.0	50.2	0.2	0.8	0.0	0.0	0.0	0.0	0.0	25.5

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
291	18419209.18	4913617.87	5.31	0	D	500	64.3	12.3	0.0	0.0	0.0	50.6	0.2	0.8	0.0	0.0	0.0	0.0	0.0	25.0

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
293	18419212.58	4913624.96	5.19	0	D	500	64.3	9.3	0.0	0.0	0.0	50.6	0.2	0.8	0.0	0.0	0.0	0.0	0.0	21.9
294	18419217.38	4913618.36	5.16	0	D	500	64.3	8.9	0.0	0.0	0.0	51.2	0.2	0.9	0.0	0.0	0.0	0.0	0.0	20.8

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
320	18419234.52	4913634.92	4.71	0	D	500	64.3	11.2	0.0	0.0	0.0	52.2	0.2	0.9	0.0	0.0	0.0	0.0	0.0	22.1
322	18419234.66	4913634.74	4.71	1	D	500	64.3	11.0	0.0	0.0	0.0	52.9	0.2	0.9	0.0	0.0	0.0	0.0	0.0	21.2

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
328	18419245.37	4913641.95	4.46	0	D	500	64.3	10.4	0.0	0.0	0.0	52.9	0.2	0.9	0.0	0.0	0.0	0.0	0.0	20.6
330	18419245.37	4913641.95	4.46	1	D	500	64.3	10.4	0.0	0.0	0.0	53.5	0.3	0.9	0.0	0.0	0.0	0.0	0.0	20.1

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
203	18419259.86	4913430.22	2.47	1	D	500	64.3	7.3	0.0	0.0	0.0	63.9	0.9	1.0	4.0	0.0	0.0	0.0	0.0	1.8
209	18419247.45	4913456.61	2.94	1	D	500	64.3	17.2	0.0	0.0	0.0	63.4	0.8	1.0	3.4	0.0	0.0	0.0	0.0	12.9
211	18419184.99	4913596.95	5.42	0	D	500	64.3	14.7	0.0	0.0	0.0	57.6	0.4	1.0	2.4	0.0	0.0	0.0	0.0	17.5
213	18419225.36	4913496.58	3.64	0	D	500	64.3	15.9	0.0	0.0	0.0	59.6	0.5	1.0	7.7	0.0	0.0	0.0	0.0	11.4
221	18419225.36	4913496.58	3.64	1	D	500	64.3	15.9	0.0	0.0	0.0	62.7	0.7	1.0	2.5	0.0	0.0	0.0	0.0	13.2
223	18419235.53	4913642.86	4.63	0	D	500	64.3	15.7	0.0	0.0	0.0	59.7	0.5	1.0	1.6	0.0	0.0	0.0	0.0	17.2
246	18419246.13	4913648.60	4.39	1	D	500	64.3	11.1	0.0	0.0	0.0	60.3	0.6	1.0	1.8	0.0	0.0	0.0	0.0	11.7
257	18419187.24	4913575.52	5.04	0	D	500	64.3	11.5	0.0	0.0	0.0	57.7	0.4	1.0	3.3	0.0	0.0	0.0	0.0	13.3
276	18419184.75	4913563.00	4.82	0	D	500	64.3	10.8	0.0	0.0	0.0	57.7	0.4	1.0	4.2	0.0	0.0	0.0	0.0	11.8
278	18419178.46	4913554.22	4.66	0	D	500	64.3	10.2	0.0	0.0	0.0	57.4	0.4	1.0	5.8	0.0	0.0	0.0	0.0	9.8
309	18419254.05	4913648.47	4.25	0	D	500	64.3	8.9	0.0	0.0	0.0	60.3	0.6	1.0	1.6	0.0	0.0	0.0	0.0	9.8
311	18419256.81	4913644.63	4.23	0	D	500	64.3	2.0	0.0	0.0	0.0	60.3	0.6	1.0	1.6	0.0	0.0	0.0	0.0	2.8
313	18419254.52	4913647.82	4.24	1	D	500	64.3	9.8	0.0	0.0	0.0	60.4	0.6	1.0	1.7	0.0	0.0	0.0	0.0	10.4

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
249	18419199.24	4913617.98	5.49	0	D	500	64.3	8.0	0.0	0.0	0.0	58.3	0.4	1.0	1.9	0.0	0.0	0.0	0.0	10.7
251	18419204.47	4913610.99	5.45	0	D	500	64.3	10.5	0.0	0.0	0.0	58.4	0.5	1.0	2.0	0.0	0.0	0.0	0.0	12.8

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
253	18419207.16	4913620.69	5.32	0	D	500	64.3	10.0	0.0	0.0	0.0	58.6	0.5	1.0	1.8	0.0	0.0	0.0	0.0	12.4
255	18419212.10	4913613.79	5.29	0	D	500	64.3	8.4	0.0	0.0	0.0	58.7	0.5	1.0	2.0	0.0	0.0	0.0	0.0	10.5

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
272	18419213.98	4913623.04	5.18	0	D	500	64.3	11.3	0.0	0.0	0.0	58.8	0.5	1.0	1.8	0.0	0.0	0.0	0.0	13.4
274	18419218.77	4913616.44	5.15	0	D	500	64.3	4.7	0.0	0.0	0.0	59.0	0.5	1.0	2.0	0.0	0.0	0.0	0.0	6.6

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
280	18419234.52	4913634.92	4.71	0	D	500	64.3	11.2	0.0	0.0	0.0	59.6	0.5	1.0	1.7	0.0	0.0	0.0	0.0	12.7
282	18419236.91	4913631.76	4.69	1	D	500	64.3	7.2	0.0	0.0	0.0	59.7	0.5	1.0	1.8	0.0	0.0	0.0	0.0	8.4

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
284	18419243.35	4913644.58	4.47	0	D	500	64.3	6.5	0.0	0.0	0.0	59.9	0.5	1.0	1.6	0.0	0.0	0.0	0.0	7.7
286	18419246.72	4913640.20	4.45	0	D	500	64.3	8.2	0.0	0.0	0.0	60.0	0.5	1.0	1.7	0.0	0.0	0.0	0.0	9.3
301	18419245.37	4913641.95	4.46	1	D	500	64.3	10.4	0.0	0.0	0.0	60.1	0.6	1.0	1.8	0.0	0.0	0.0	0.0	11.3

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Receiver
 Name: R4- Grade
 ID: R4
 X: 18418997.96 m
 Y: 4913577.39 m
 Z: 3.29 m

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
20	18419213.17	4913610.40	6.40	0	D	500	70.2	8.8	0.0	5.0	0.0	57.8	0.4	5.0	2.1	0.0	0.0	0.0	0.0	18.8
22	18419213.17	4913610.40	7.40	0	D	500	70.2	8.8	0.0	5.0	0.0	57.8	0.4	4.9	2.1	0.0	0.0	0.0	0.0	18.8
24	18419213.17	4913610.40	4.40	0	D	500	70.2	8.8	0.0	5.0	0.0	57.8	0.4	9.8	2.1	0.0	0.0	0.0	0.0	13.9
34	18419213.17	4913610.40	5.40	0	D	500	70.2	8.8	0.0	5.0	0.0	57.8	0.4	5.7	2.1	0.0	0.0	0.0	0.0	18.0

vert. Area Source, ISO 9613, Name: "Door (2 out of 6 per hr) - 5dB", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	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	18419206.48	4913605.29	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	57.5	0.4	5.7	2.2	0.0	0.0	0.0	0.0	16.3
38	18419206.48	4913605.29	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	57.5	0.4	4.9	2.2	0.0	0.0	0.0	0.0	17.0
46	18419206.48	4913605.29	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	57.5	0.4	17.2	2.2	0.0	0.0	0.0	0.0	4.8
48	18419206.48	4913605.29	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	57.5	0.4	9.8	2.2	0.0	0.0	0.0	0.0	12.2

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
78	18419220.22	4913615.77	5.23	0	D	500	70.2	8.8	0.0	3.0	0.0	58.1	0.4	5.7	2.0	0.0	0.0	0.0	0.0	15.8
80	18419220.22	4913615.77	6.23	0	D	500	70.2	8.8	0.0	3.0	0.0	58.1	0.4	5.0	2.0	0.0	0.0	0.0	0.0	16.5
82	18419220.22	4913615.77	3.23	0	D	500	70.2	8.8	0.0	3.0	0.0	58.1	0.4	17.3	2.0	0.0	0.0	0.0	0.0	4.2
84	18419220.22	4913615.77	4.23	0	D	500	70.2	8.8	0.0	3.0	0.0	58.1	0.4	9.8	2.0	0.0	0.0	0.0	0.0	11.6

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
93	18419238.10	4913629.40	5.79	0	D	500	70.2	8.8	0.0	3.0	0.0	58.8	0.5	5.0	1.9	0.0	0.0	0.0	0.0	15.8
96	18419238.10	4913629.40	4.79	0	D	500	70.2	8.8	0.0	3.0	0.0	58.8	0.5	5.7	1.9	0.0	0.0	0.0	0.0	15.1
106	18419238.10	4913629.40	2.79	0	D	500	70.2	8.8	0.0	3.0	0.0	58.8	0.5	17.3	1.9	0.0	0.0	0.0	0.0	3.5
109	18419238.10	4913629.40	3.79	0	D	500	70.2	8.8	0.0	3.0	0.0	58.8	0.5	9.9	1.9	0.0	0.0	0.0	0.0	10.9

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
118	18419247.79	4913636.80	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	59.2	0.5	9.9	1.9	0.0	0.0	0.0	0.0	10.6
134	18419247.79	4913636.80	2.56	0	D	500	70.2	8.8	0.0	3.0	0.0	59.2	0.5	17.3	1.9	0.0	0.0	0.0	0.0	3.1
135	18419247.79	4913636.80	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	59.2	0.5	5.7	1.9	0.0	0.0	0.0	0.0	14.7
144	18419247.79	4913636.80	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	59.2	0.5	4.9	1.9	0.0	0.0	0.0	0.0	15.5
152	18419247.79	4913636.80	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	59.2	0.5	5.0	1.9	0.0	0.0	0.0	0.0	15.5

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
167	18419256.31	4913643.29	3.35	0	D	500	70.2	8.8	0.0	3.0	0.0	59.5	0.5	9.9	1.8	0.0	0.0	0.0	0.0	10.3
181	18419256.31	4913643.29	5.35	0	D	500	70.2	8.8	0.0	3.0	0.0	59.5	0.5	5.0	1.8	0.0	0.0	0.0	0.0	15.2
194	18419256.31	4913643.29	4.35	0	D	500	70.2	8.8	0.0	3.0	0.0	59.5	0.5	5.7	1.8	0.0	0.0	0.0	0.0	14.4
196	18419256.31	4913643.29	2.35	0	D	500	70.2	8.8	0.0	3.0	0.0	59.5	0.5	17.4	1.8	0.0	0.0	0.0	0.0	2.8

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
198	18419194.49	4913531.78	4.27	0	D	500	64.3	17.4	0.0	0.0	0.0	57.1	0.4	5.9	5.7	0.0	0.0	0.0	0.0	12.6
206	18419203.41	4913523.24	4.12	1	D	500	64.3	14.9	0.0	0.0	0.0	61.6	0.7	6.0	2.1	0.0	0.0	0.0	0.0	8.7
225	18419190.10	4913535.98	4.34	1	D	500	64.3	7.8	0.0	0.0	0.0	61.5	0.6	6.0	2.0	0.0	0.0	0.0	0.0	2.0
237	18419200.91	4913622.73	5.33	0	D	500	64.3	16.4	0.0	0.0	0.0	57.4	0.4	5.9	1.9	0.0	0.0	0.0	0.0	15.1
258	18419248.60	4913454.17	2.89	0	D	500	64.3	17.7	0.0	0.0	0.0	59.9	0.5	5.9	8.1	0.0	0.0	0.0	0.0	7.4

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
260	18419259.11	4913431.80	2.50	1	D	500	64.3	9.5	0.0	0.0	0.0	63.3	0.8	6.0	4.9	0.0	0.0	0.0	0.0	-1.2
262	18419246.71	4913458.19	2.96	1	D	500	64.3	16.9	0.0	0.0	0.0	62.8	0.7	6.0	4.8	0.0	0.0	0.0	0.0	6.9
270	18419184.99	4913596.95	5.42	0	D	500	64.3	14.7	0.0	0.0	0.0	56.5	0.4	5.8	2.4	0.0	0.0	0.0	0.0	13.8
306	18419225.36	4913496.58	3.64	0	D	500	64.3	15.9	0.0	0.0	0.0	58.7	0.5	5.9	6.7	0.0	0.0	0.0	0.0	8.4
319	18419225.36	4913496.58	3.64	1	D	500	64.3	15.9	0.0	0.0	0.0	62.1	0.7	6.0	2.9	0.0	0.0	0.0	0.0	8.5
355	18419235.53	4913642.86	4.63	0	D	500	64.3	15.7	0.0	0.0	0.0	58.8	0.5	5.9	1.8	0.0	0.0	0.0	0.0	12.9
357	18419247.02	4913649.09	4.37	1	D	500	64.3	10.3	0.0	0.0	0.0	59.5	0.5	5.9	1.9	0.0	0.0	0.0	0.0	6.7
363	18419187.24	4913575.52	5.04	0	D	500	64.3	11.5	0.0	0.0	0.0	56.5	0.4	5.8	4.7	0.0	0.0	0.0	0.0	8.3
376	18419184.75	4913563.00	4.82	0	D	500	64.3	10.8	0.0	0.0	0.0	56.5	0.4	5.8	4.9	0.0	0.0	0.0	0.0	7.5
390	18419178.46	4913554.22	4.66	0	D	500	64.3	10.2	0.0	0.0	0.0	56.2	0.4	5.8	5.2	0.0	0.0	0.0	0.0	6.9
416	18419254.11	4913648.39	4.25	0	D	500	64.3	9.1	0.0	0.0	0.0	59.5	0.5	5.9	1.8	0.0	0.0	0.0	0.0	5.6
418	18419256.87	4913644.55	4.23	0	D	500	64.3	1.5	0.0	0.0	0.0	59.5	0.5	5.9	1.8	0.0	0.0	0.0	0.0	-2.1
420	18419254.52	4913647.82	4.24	1	D	500	64.3	9.8	0.0	0.0	0.0	59.6	0.5	5.9	1.9	0.0	0.0	0.0	0.0	6.1

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
359	18419199.62	4913617.48	5.49	0	D	500	64.3	8.8	0.0	0.0	0.0	57.3	0.4	5.9	2.0	0.0	0.0	0.0	0.0	7.6
361	18419204.84	4913610.49	5.45	0	D	500	64.3	9.9	0.0	0.0	0.0	57.4	0.4	5.9	2.1	0.0	0.0	0.0	0.0	8.4

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
367	18419207.38	4913620.39	5.32	0	D	500	64.3	10.3	0.0	0.0	0.0	57.6	0.4	5.9	1.9	0.0	0.0	0.0	0.0	8.7
369	18419212.31	4913613.48	5.29	0	D	500	64.3	7.9	0.0	0.0	0.0	57.7	0.4	5.9	2.1	0.0	0.0	0.0	0.0	6.1

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
384	18419214.07	4913622.91	5.18	0	D	500	64.3	11.4	0.0	0.0	0.0	57.9	0.4	5.9	1.9	0.0	0.0	0.0	0.0	9.5
387	18419218.87	4913616.31	5.15	0	D	500	64.3	4.2	0.0	0.0	0.0	58.0	0.4	5.9	2.0	0.0	0.0	0.0	0.0	2.1

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
403	18419231.14	4913639.40	4.73	0	D	500	64.3	2.8	0.0	0.0	0.0	58.7	0.5	5.9	1.8	0.0	0.0	0.0	0.0	0.2
406	18419235.10	4913634.16	4.71	0	D	500	64.3	10.5	0.0	0.0	0.0	58.7	0.5	5.9	1.9	0.0	0.0	0.0	0.0	7.8
408	18419237.09	4913631.52	4.69	1	D	500	64.3	6.7	0.0	0.0	0.0	58.9	0.5	5.9	1.9	0.0	0.0	0.0	0.0	3.7

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
410	18419243.60	4913644.25	4.47	0	D	500	64.3	7.2	0.0	0.0	0.0	59.1	0.5	5.9	1.8	0.0	0.0	0.0	0.0	4.2
412	18419246.97	4913639.87	4.44	0	D	500	64.3	7.6	0.0	0.0	0.0	59.2	0.5	5.9	1.8	0.0	0.0	0.0	0.0	4.5
414	18419245.43	4913641.88	4.46	1	D	500	64.3	10.4	0.0	0.0	0.0	59.3	0.5	5.9	1.9	0.0	0.0	0.0	0.0	7.0

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Receiver

Name: R5 - 2nd Level

ID: R5

X: 18419323.44 m

Y: 4913668.25 m

Z: 5.59 m

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
17	18419256.31	4913643.29	4.35	0	D	500	70.2	8.8	0.0	3.0	0.0	48.1	0.1	0.6	2.0	0.0	9.3	0.0	0.0	21.8
26	18419256.31	4913643.29	5.35	0	D	500	70.2	8.8	0.0	3.0	0.0	48.1	0.1	0.0	2.0	0.0	9.3	0.0	0.0	22.3
42	18419256.31	4913643.29	2.35	0	D	500	70.2	8.8	0.0	3.0	0.0	48.1	0.1	9.5	2.0	0.0	8.5	0.0	0.0	13.7
44	18419256.31	4913643.29	3.35	0	D	500	70.2	8.8	0.0	3.0	0.0	48.1	0.1	3.8	2.0	0.0	9.2	0.0	0.0	18.8

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
53	18419247.79	4913636.80	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	49.3	0.2	0.0	2.0	0.0	12.9	0.0	0.0	17.6
55	18419247.79	4913636.80	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	49.3	0.2	0.0	2.0	0.0	12.9	0.0	0.0	17.7
57	18419247.79	4913636.80	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	49.3	0.2	0.6	2.0	0.0	12.8	0.0	0.0	17.1
59	18419247.79	4913636.80	2.56	0	D	500	70.2	8.8	0.0	3.0	0.0	49.3	0.2	10.1	2.0	0.0	11.0	0.0	0.0	9.5
61	18419247.79	4913636.80	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	49.3	0.2	4.0	2.0	0.0	12.5	0.0	0.0	14.0

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
63	18419238.10	4913629.40	4.79	0	D	500	70.2	8.8	0.0	3.0	0.0	50.4	0.2	0.7	2.0	0.0	14.4	0.0	0.0	14.3
65	18419238.10	4913629.40	5.79	0	D	500	70.2	8.8	0.0	3.0	0.0	50.4	0.2	0.0	2.0	0.0	14.5	0.0	0.0	14.8
75	18419238.10	4913629.40	2.79	0	D	500	70.2	8.8	0.0	3.0	0.0	50.4	0.2	10.6	2.0	0.0	11.7	0.0	0.0	7.2
86	18419238.10	4913629.40	3.79	0	D	500	70.2	8.8	0.0	3.0	0.0	50.4	0.2	4.2	2.0	0.0	13.9	0.0	0.0	11.3

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
95	18419213.17	4913610.40	6.40	0	D	500	70.2	8.8	0.0	5.0	0.0	52.9	0.2	0.0	2.0	0.0	15.6	0.0	0.0	13.3
98	18419213.17	4913610.40	7.40	0	D	500	70.2	8.8	0.0	5.0	0.0	52.9	0.2	0.0	2.0	0.0	15.4	0.0	0.0	13.5
100	18419213.17	4913610.40	4.40	0	D	500	70.2	8.8	0.0	5.0	0.0	52.9	0.2	4.6	2.0	0.0	14.6	0.0	0.0	9.7
108	18419213.17	4913610.40	5.40	0	D	500	70.2	8.8	0.0	5.0	0.0	52.9	0.2	0.7	2.0	0.0	15.6	0.0	0.0	12.6

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
124	18419220.22	4913615.77	5.23	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	0.7	2.0	0.0	15.7	0.0	0.0	11.1
126	18419220.22	4913615.77	6.23	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	0.0	2.0	0.0	15.7	0.0	0.0	11.8
133	18419220.22	4913615.77	3.23	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	11.2	2.0	0.0	11.9	0.0	0.0	4.4
140	18419220.22	4913615.77	4.23	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	4.5	2.0	0.0	15.0	0.0	0.0	8.1

vert. Area Source, ISO 9613, Name: "Door (2 out of 6 per hr) - 5dB", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
162	18419206.48	4913605.29	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.5	0.3	0.7	2.0	0.0	15.5	0.0	0.0	10.1
170	18419206.48	4913605.29	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.5	0.3	11.6	2.0	0.0	9.9	0.0	0.0	4.8
178	18419206.48	4913605.29	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.5	0.3	4.6	2.0	0.0	14.2	0.0	0.0	7.5
191	18419206.48	4913605.29	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.5	0.3	0.0	2.0	0.0	15.4	0.0	0.0	10.8

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
202	18419235.53	4913642.86	4.63	0	D	500	64.3	15.7	0.0	0.0	0.0	50.2	0.2	0.8	2.1	0.0	0.0	0.0	0.0	26.6
204	18419196.65	4913620.11	5.41	0	D	500	64.3	15.2	0.0	0.0	0.0	53.6	0.3	0.9	2.0	0.0	6.0	0.0	0.0	16.6
229	18419215.05	4913631.45	5.07	0	D	500	64.3	10.0	0.0	0.0	0.0	52.2	0.2	0.9	2.1	0.0	0.0	0.0	0.0	18.9
231	18419254.20	4913648.26	4.25	0	D	500	64.3	9.2	0.0	0.0	0.0	48.2	0.1	0.8	2.1	0.0	0.0	0.0	0.0	22.3
244	18419256.96	4913644.43	4.23	0	D	500	64.3	0.4	0.0	0.0	0.0	48.0	0.1	0.7	2.0	0.0	6.1	0.0	0.0	7.7

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
283	18419194.49	4913531.78	4.27	0	D	500	64.3	17.4	0.0	0.0	0.0	56.5	0.4	1.0	1.9	0.0	17.3	0.0	0.0	4.7
315	18419254.12	4913442.42	2.69	0	D	500	64.3	15.1	0.0	0.0	0.0	58.5	0.5	1.0	2.3	0.0	14.9	0.0	0.0	2.2
317	18419241.71	4913468.81	3.15	0	D	500	64.3	14.1	0.0	0.0	0.0	57.7	0.4	1.0	2.2	0.0	16.1	0.0	0.0	1.0
338	18419186.07	4913590.69	5.31	0	D	500	64.3	12.2	0.0	0.0	0.0	55.0	0.3	0.9	2.0	0.0	14.9	0.0	0.0	3.3
340	18419183.58	4913605.12	5.57	0	D	500	64.3	11.0	0.0	0.0	0.0	54.7	0.3	0.9	2.0	0.0	11.1	0.0	0.0	6.2
370	18419225.36	4913496.58	3.64	0	D	500	64.3	15.9	0.0	0.0	0.0	56.9	0.4	1.0	2.1	0.0	16.9	0.0	0.0	2.9
378	18419187.24	4913575.52	5.04	0	D	500	64.3	11.5	0.0	0.0	0.0	55.3	0.3	1.0	1.9	0.0	17.5	0.0	0.0	-0.3
380	18419184.75	4913563.00	4.82	0	D	500	64.3	10.8	0.0	0.0	0.0	55.8	0.3	1.0	1.9	0.0	17.4	0.0	0.0	-1.4
382	18419178.46	4913554.22	4.66	0	D	500	64.3	10.2	0.0	0.0	0.0	56.3	0.4	1.0	1.9	0.0	17.0	0.0	0.0	-2.2

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
252	18419243.99	4913643.74	4.47	0	D	500	64.3	8.2	0.0	0.0	0.0	49.4	0.2	0.8	2.1	0.0	0.0	0.0	0.0	20.0
254	18419247.37	4913639.36	4.44	0	D	500	64.3	6.5	0.0	0.0	0.0	49.2	0.2	0.8	2.0	0.0	8.3	0.0	0.0	10.3

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
292	18419231.88	4913638.41	4.73	0	D	500	64.3	6.4	0.0	0.0	0.0	50.7	0.2	0.8	2.1	0.0	0.0	0.0	0.0	16.9
312	18419235.84	4913633.17	4.70	0	D	500	64.3	9.4	0.0	0.0	0.0	50.5	0.2	0.8	2.0	0.0	9.6	0.0	0.0	10.5

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
349	18419214.56	4913622.25	5.18	0	D	500	64.3	11.8	0.0	0.0	0.0	52.5	0.2	0.9	2.0	0.0	10.3	0.0	0.0	10.2
351	18419219.35	4913615.65	5.14	0	D	500	64.3	0.0	0.0	0.0	0.0	52.3	0.2	0.9	2.0	0.0	15.5	0.0	0.0	-6.6

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
358	18419208.49	4913618.83	5.31	0	D	500	64.3	11.6	0.0	0.0	0.0	52.9	0.2	0.9	2.0	0.0	10.6	0.0	0.0	9.2
365	18419213.43	4913611.93	5.28	0	D	500	64.3	3.8	0.0	0.0	0.0	52.8	0.2	0.9	2.0	0.0	15.2	0.0	0.0	-3.1

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
372	18419201.51	4913614.94	5.47	0	D	500	64.3	11.4	0.0	0.0	0.0	53.5	0.3	0.9	2.0	0.0	10.8	0.0	0.0	8.2
374	18419206.73	4913607.96	5.43	0	D	500	64.3	5.5	0.0	0.0	0.0	53.4	0.3	0.9	2.0	0.0	14.9	0.0	0.0	-1.7

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Receiver

Name: R6 - Grade Level

ID: R6

X: 18419292.69 m

Y: 4913672.09 m

Z: 2.84 m

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
13	18419256.31	4913643.29	4.35	0	D	500	70.2	8.8	0.0	3.0	0.0	44.3	0.1	3.5	1.5	0.0	0.0	0.0	0.0	0.0	32.5
28	18419256.31	4913643.29	5.35	0	D	500	70.2	8.8	0.0	3.0	0.0	44.3	0.1	3.0	1.5	0.0	0.0	0.0	0.0	0.0	33.0
30	18419256.31	4913643.29	2.35	0	D	500	70.2	8.8	0.0	3.0	0.0	44.3	0.1	10.6	1.5	0.0	0.0	0.0	0.0	0.0	25.5
79	18419256.31	4913643.29	3.35	0	D	500	70.2	8.8	0.0	3.0	0.0	44.3	0.1	6.0	1.5	0.0	0.0	0.0	0.0	0.0	30.0

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
81	18419247.79	4913636.80	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	46.1	0.1	3.4	1.5	0.0	0.0	0.0	0.0	0.0	30.8
83	18419247.79	4913636.80	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	46.2	0.1	3.4	1.5	0.0	0.0	0.0	0.0	0.0	30.8
92	18419247.79	4913636.80	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	46.1	0.1	3.9	1.5	0.0	0.0	0.0	0.0	0.0	30.3
94	18419247.79	4913636.80	2.56	0	D	500	70.2	8.8	0.0	3.0	0.0	46.1	0.1	11.9	1.5	0.0	0.0	0.0	0.0	0.0	22.3
102	18419247.79	4913636.80	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	46.1	0.1	6.8	1.5	0.0	0.0	0.0	0.0	0.0	27.4

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
111	18419238.10	4913629.40	4.79	0	D	500	70.2	8.8	0.0	3.0	0.0	47.8	0.1	4.3	1.5	0.0	0.0	0.0	0.0	0.0	28.2
113	18419238.10	4913629.40	5.79	0	D	500	70.2	8.8	0.0	3.0	0.0	47.8	0.1	3.8	1.5	0.0	0.0	0.0	0.0	0.0	28.7
115	18419238.10	4913629.40	2.79	0	D	500	70.2	8.8	0.0	3.0	0.0	47.8	0.1	13.1	1.5	0.0	0.0	0.0	0.0	0.0	19.4
116	18419238.10	4913629.40	3.79	0	D	500	70.2	8.8	0.0	3.0	0.0	47.8	0.1	7.5	1.5	0.0	0.0	0.0	0.0	0.0	25.0

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
117	18419213.17	4913610.40	6.40	0	D	500	70.2	8.8	0.0	5.0	0.0	51.1	0.2	4.4	1.5	0.0	0.0	0.0	0.0	0.0	26.9
119	18419213.17	4913610.40	7.40	0	D	500	70.2	8.8	0.0	5.0	0.0	51.1	0.2	4.3	1.5	0.0	0.0	0.0	0.0	0.0	26.9
132	18419213.17	4913610.40	4.40	0	D	500	70.2	8.8	0.0	5.0	0.0	51.1	0.2	8.6	1.5	0.0	0.0	0.0	0.0	0.0	22.6
141	18419213.17	4913610.40	5.40	0	D	500	70.2	8.8	0.0	5.0	0.0	51.1	0.2	5.0	1.5	0.0	0.0	0.0	0.0	0.0	26.2

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
143	18419220.22	4913615.77	5.23	0	D	500	70.2	8.8	0.0	3.0	0.0	50.3	0.2	4.8	1.5	0.0	0.0	0.0	0.0	0.0	25.2
145	18419220.22	4913615.77	6.23	0	D	500	70.2	8.8	0.0	3.0	0.0	50.3	0.2	4.2	1.5	0.0	0.0	0.0	0.0	0.0	25.8
153	18419220.22	4913615.77	3.23	0	D	500	70.2	8.8	0.0	3.0	0.0	50.3	0.2	14.7	1.5	0.0	0.0	0.0	0.0	0.0	15.4
155	18419220.22	4913615.77	4.23	0	D	500	70.2	8.8	0.0	3.0	0.0	50.3	0.2	8.4	1.5	0.0	0.0	0.0	0.0	0.0	21.7

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
157	18419227.42	4913638.47	4.81	0	D	500	64.3	12.7	0.0	0.0	0.0	48.3	0.1	4.6	1.6	0.0	0.0	0.0	0.0	0.0	22.3
159	18419243.64	4913647.26	4.44	0	D	500	64.3	12.7	0.0	0.0	0.0	45.8	0.1	4.0	1.6	0.0	0.0	0.0	0.0	0.0	25.5
168	18419200.91	4913622.73	5.33	0	D	500	64.3	16.4	0.0	0.0	0.0	51.4	0.2	5.2	1.6	0.0	0.0	0.0	0.0	0.0	22.3
176	18419254.41	4913647.96	4.24	0	D	500	64.3	9.6	0.0	0.0	0.0	44.1	0.1	3.6	1.5	0.0	0.0	0.0	0.0	0.0	24.5
185	18419257.17	4913644.13	4.23	0	D	500	64.3	-4.4	0.0	0.0	0.0	44.1	0.1	3.5	1.5	0.0	0.0	0.0	0.0	0.0	10.6
200	18419194.49	4913531.78	4.27	0	D	500	64.3	17.4	0.0	0.0	0.0	55.7	0.3	5.8	1.6	0.0	14.9	0.0	0.0	0.0	3.4
230	18419186.91	4913585.79	5.22	0	D	500	64.3	8.2	0.0	0.0	0.0	53.7	0.3	5.6	1.5	0.0	5.9	0.0	0.0	0.0	5.5
232	18419184.43	4913600.23	5.48	0	D	500	64.3	13.6	0.0	0.0	0.0	53.3	0.3	5.5	1.5	0.0	0.0	0.0	0.0	0.0	17.2
277	18419248.60	4913454.17	2.89	0	D	500	64.3	17.7	0.0	0.0	0.0	57.9	0.4	5.9	2.1	0.0	14.0	0.0	0.0	0.0	1.6
279	18419251.76	4913447.44	2.77	1	D	500	64.3	14.8	0.0	0.0	0.0	59.4	0.5	5.9	3.0	0.0	11.6	0.0	0.0	0.0	-1.4
281	18419240.79	4913470.78	3.19	1	D	500	64.3	13.4	0.0	0.0	0.0	58.8	0.5	5.9	2.8	0.0	12.2	0.0	0.0	0.0	-2.6
296	18419225.36	4913496.58	3.64	0	D	500	64.3	15.9	0.0	0.0	0.0	56.5	0.4	5.8	1.8	0.0	14.8	0.0	0.0	0.0	0.8
298	18419230.69	4913488.70	3.50	1	D	500	64.3	12.9	0.0	0.0	0.0	58.4	0.4	5.9	2.8	0.0	12.5	0.0	0.0	0.0	-2.8

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
300	18419187.24	4913575.52	5.04	0	D	500	64.3	11.5	0.0	0.0	0.0	54.1	0.3	5.6	1.6	0.0	11.2	0.0	0.0	3.0
302	18419184.75	4913563.00	4.82	0	D	500	64.3	10.8	0.0	0.0	0.0	54.7	0.3	5.7	1.6	0.0	13.1	0.0	0.0	-0.3
304	18419178.46	4913554.22	4.66	0	D	500	64.3	10.2	0.0	0.0	0.0	55.3	0.3	5.7	1.6	0.0	13.1	0.0	0.0	-1.6

vert. Area Source, ISO 9613, Name: "Door (2 out of 6 per hr) - 5dB", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
161	18419206.48	4913605.29	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	51.8	0.2	15.5	1.5	0.0	0.0	0.0	0.0	13.0
163	18419206.48	4913605.29	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	51.8	0.2	8.8	1.5	0.0	0.0	0.0	0.0	19.7
164	18419206.48	4913605.29	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	51.8	0.2	5.1	1.5	0.0	0.0	0.0	0.0	23.4
166	18419206.48	4913605.29	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	51.8	0.2	4.5	1.5	0.0	0.0	0.0	0.0	24.0

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
186	18419245.32	4913642.02	4.46	0	D	500	64.3	10.4	0.0	0.0	0.0	46.0	0.1	4.0	1.5	0.0	0.0	0.0	0.0	23.0
187	18419248.69	4913637.64	4.43	0	D	500	64.3	-7.9	0.0	0.0	0.0	45.9	0.1	4.0	1.5	0.0	0.0	0.0	0.0	4.7

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
188	18419234.50	4913634.95	4.71	0	D	500	64.3	11.2	0.0	0.0	0.0	47.8	0.1	4.5	1.5	0.0	0.0	0.0	0.0	21.5
189	18419238.46	4913629.71	4.68	0	D	500	64.3	-11.6	0.0	0.0	0.0	47.8	0.1	4.5	1.5	0.0	0.0	0.0	0.0	-1.2

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
208	18419214.78	4913621.94	5.17	0	D	500	64.3	12.1	0.0	0.0	0.0	50.3	0.2	5.0	1.5	0.0	0.0	0.0	0.0	19.2
215	18419219.57	4913615.34	5.14	0	D	500	64.3	-6.2	0.0	0.0	0.0	50.3	0.2	5.0	1.5	0.0	0.0	0.0	0.0	1.0

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
234	18419209.11	4913617.97	5.31	0	D	500	64.3	12.2	0.0	0.0	0.0	51.0	0.2	5.1	1.5	0.0	0.0	0.0	0.0	18.6
239	18419214.05	4913611.06	5.28	0	D	500	64.3	-6.0	0.0	0.0	0.0	51.0	0.2	5.1	1.5	0.0	0.0	0.0	0.0	0.4

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
268	18419202.57	4913613.53	5.46	0	D	500	64.3	12.4	0.0	0.0	0.0	51.6	0.2	5.3	1.5	0.0	0.0	0.0	0.0	18.0

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

Receiver

Name: R8 - 2nd Level

ID: R8

X: 18419202.55 m

Y: 4913744.28 m

Z: 4.50 m

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	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	18419213.17	4913610.40	6.40	0	D	500	70.2	8.8	0.0	5.0	0.0	53.6	0.3	4.7	0.0	0.0	0.0	0.0	0.0	25.5
21	18419211.40	4913609.05	6.44	1	D	500	70.2	4.9	0.0	5.0	0.0	54.0	0.3	4.7	0.0	0.0	0.0	0.0	0.0	21.1
39	18419214.40	4913611.33	6.37	1	D	500	70.2	6.5	0.0	5.0	0.0	53.9	0.3	4.7	0.0	0.0	0.0	0.0	0.0	22.8
41	18419213.17	4913610.40	7.40	0	D	500	70.2	8.8	0.0	5.0	0.0	53.6	0.3	4.6	0.0	0.0	0.0	0.0	0.0	25.5
43	18419211.40	4913609.05	7.44	1	D	500	70.2	4.9	0.0	5.0	0.0	54.0	0.3	4.7	0.0	0.0	0.0	0.0	0.0	21.1
45	18419214.40	4913611.33	7.37	1	D	500	70.2	6.5	0.0	5.0	0.0	53.9	0.3	4.7	0.0	0.0	0.0	0.0	0.0	22.9
47	18419213.17	4913610.40	4.40	0	D	500	70.2	8.8	0.0	5.0	0.0	53.6	0.3	9.3	0.0	0.0	0.0	0.0	0.0	20.9
62	18419211.40	4913609.05	4.44	1	D	500	70.2	4.9	0.0	5.0	0.0	54.0	0.3	9.4	0.0	0.0	0.0	0.0	0.0	16.4
64	18419214.40	4913611.33	4.37	1	D	500	70.2	6.5	0.0	5.0	0.0	53.9	0.3	9.3	0.0	0.0	0.0	0.0	0.0	18.2
72	18419213.17	4913610.40	5.40	0	D	500	70.2	8.8	0.0	5.0	0.0	53.6	0.3	5.4	0.0	0.0	0.0	0.0	0.0	24.8
74	18419211.40	4913609.05	5.44	1	D	500	70.2	4.9	0.0	5.0	0.0	54.0	0.3	5.4	0.0	0.0	0.0	0.0	0.0	20.4
85	18419214.40	4913611.33	5.37	1	D	500	70.2	6.5	0.0	5.0	0.0	53.9	0.3	5.4	0.0	0.0	0.0	0.0	0.0	22.1

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
87	18419256.31	4913643.29	4.35	0	D	500	70.2	8.8	0.0	3.0	0.0	52.2	0.2	5.2	0.0	0.0	0.0	0.0	0.0	24.4
89	18419256.31	4913643.29	4.35	1	D	500	70.2	8.8	0.0	3.0	0.0	52.7	0.2	5.3	0.0	0.0	0.0	0.0	0.0	23.8
91	18419256.31	4913643.29	5.35	0	D	500	70.2	8.8	0.0	3.0	0.0	52.2	0.2	4.5	0.0	0.0	0.0	0.0	0.0	25.1
99	18419256.31	4913643.29	5.35	1	D	500	70.2	8.8	0.0	3.0	0.0	52.7	0.2	4.6	0.0	0.0	0.0	0.0	0.0	24.5
101	18419256.31	4913643.29	2.35	0	D	500	70.2	8.8	0.0	3.0	0.0	52.2	0.2	15.7	0.0	0.0	0.0	0.0	0.0	13.9
103	18419256.31	4913643.29	2.35	1	D	500	70.2	8.8	0.0	3.0	0.0	52.7	0.2	15.9	0.0	0.0	0.0	0.0	0.0	13.1
112	18419256.31	4913643.29	3.35	0	D	500	70.2	8.8	0.0	3.0	0.0	52.2	0.2	8.9	0.0	0.0	0.0	0.0	0.0	20.7
122	18419256.31	4913643.29	3.35	1	D	500	70.2	8.8	0.0	3.0	0.0	52.7	0.2	9.1	0.0	0.0	0.0	0.0	0.0	20.0

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	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	18419247.79	4913636.80	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	5.2	0.0	0.0	0.0	0.0	0.0	24.2
137	18419247.79	4913636.80	4.56	1	D	500	70.2	8.8	0.0	3.0	0.0	52.9	0.2	5.3	0.0	0.0	0.0	0.0	0.0	23.6
146	18419247.79	4913636.80	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	4.5	0.0	0.0	0.0	0.0	0.0	24.9
154	18419247.79	4913636.80	5.56	1	D	500	70.2	8.8	0.0	3.0	0.0	52.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	24.3
169	18419247.79	4913636.80	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	4.5	0.0	0.0	0.0	0.0	0.0	24.9
177	18419247.79	4913636.80	6.56	1	D	500	70.2	8.8	0.0	3.0	0.0	52.9	0.2	4.6	0.0	0.0	0.0	0.0	0.0	24.3
190	18419247.79	4913636.80	2.56	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	15.8	0.0	0.0	0.0	0.0	0.0	13.7
207	18419247.79	4913636.80	2.56	1	D	500	70.2	8.8	0.0	3.0	0.0	52.9	0.2	16.0	0.0	0.0	0.0	0.0	0.0	12.9
214	18419247.79	4913636.80	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	52.3	0.2	9.0	0.0	0.0	0.0	0.0	0.0	20.5
216	18419247.79	4913636.80	3.56	1	D	500	70.2	8.8	0.0	3.0	0.0	52.9	0.2	9.1	0.0	0.0	0.0	0.0	0.0	19.8

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
218	18419238.10	4913629.40	5.79	0	D	500	70.2	8.8	0.0	3.0	0.0	52.6	0.2	4.6	0.0	0.0	0.0	0.0	0.0	24.6
220	18419238.10	4913629.40	5.79	1	D	500	70.2	8.8	0.0	3.0	0.0	53.1	0.2	4.6	0.0	0.0	0.0	0.0	0.0	24.0
222	18419238.10	4913629.40	4.79	0	D	500	70.2	8.8	0.0	3.0	0.0	52.6	0.2	5.2	0.0	0.0	0.0	0.0	0.0	23.9
224	18419238.10	4913629.40	4.79	1	D	500	70.2	8.8	0.0	3.0	0.0	53.1	0.2	5.3	0.0	0.0	0.0	0.0	0.0	23.3
226	18419238.10	4913629.40	3.79	0	D	500	70.2	8.8	0.0	3.0	0.0	52.6	0.2	9.0	0.0	0.0	0.0	0.0	0.0	20.1
228	18419238.10	4913629.40	3.79	1	D	500	70.2	8.8	0.0	3.0	0.0	53.1	0.2	9.2	0.0	0.0	0.0	0.0	0.0	19.5
248	18419238.10	4913629.40	2.79	0	D	500	70.2	8.8	0.0	3.0	0.0	52.6	0.2	15.9	0.0	0.0	0.0	0.0	0.0	13.3
266	18419238.10	4913629.40	2.79	1	D	500	70.2	8.8	0.0	3.0	0.0	53.1	0.2	16.1	0.0	0.0	0.0	0.0	0.0	12.6

DAYTIME - MECHANICAL SOURCES (TRAILERS, DOORS)

vert. Area Source, ISO 9613, Name: "Door", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
275	18419220.22	4913615.77	3.23	0	D	500	70.2	8.8	0.0	3.0	0.0	53.3	0.3	16.1	0.0	0.0	0.0	0.0	0.0	12.3
310	18419220.22	4913615.77	3.23	1	D	500	70.2	8.8	0.0	3.0	0.0	53.7	0.3	16.3	0.0	0.0	0.0	0.0	0.0	11.7
337	18419220.22	4913615.77	4.23	0	D	500	70.2	8.8	0.0	3.0	0.0	53.3	0.3	9.2	0.0	0.0	0.0	0.0	0.0	19.3
347	18419220.22	4913615.77	4.23	1	D	500	70.2	8.8	0.0	3.0	0.0	53.7	0.3	9.3	0.0	0.0	0.0	0.0	0.0	18.8
352	18419220.22	4913615.77	5.23	0	D	500	70.2	8.8	0.0	3.0	0.0	53.3	0.3	5.3	0.0	0.0	0.0	0.0	0.0	23.2
354	18419220.22	4913615.77	5.23	1	D	500	70.2	8.8	0.0	3.0	0.0	53.7	0.3	5.4	0.0	0.0	0.0	0.0	0.0	22.7
356	18419220.22	4913615.77	6.23	0	D	500	70.2	8.8	0.0	3.0	0.0	53.3	0.3	4.6	0.0	0.0	0.0	0.0	0.0	23.8
371	18419220.22	4913615.77	6.23	1	D	500	70.2	8.8	0.0	3.0	0.0	53.7	0.3	4.7	0.0	0.0	0.0	0.0	0.0	23.4

vert. Area Source, ISO 9613, Name: "Door (2 out of 6 per hr) - 5dB", ID: "DOOR"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
373	18419206.48	4913605.29	5.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.9	0.3	5.4	0.0	0.0	0.0	0.0	0.0	22.5
375	18419206.48	4913605.29	5.56	1	D	500	70.2	8.8	0.0	3.0	0.0	54.2	0.3	5.4	0.0	0.0	0.0	0.0	0.0	22.0
381	18419206.48	4913605.29	6.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.9	0.3	4.7	0.0	0.0	0.0	0.0	0.0	23.2
385	18419206.48	4913605.29	6.56	1	D	500	70.2	8.8	0.0	3.0	0.0	54.2	0.3	4.7	0.0	0.0	0.0	0.0	0.0	22.7
388	18419206.48	4913605.29	3.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.9	0.3	16.4	0.0	0.0	0.0	0.0	0.0	11.5
391	18419206.48	4913605.29	3.56	1	D	500	70.2	8.8	0.0	3.0	0.0	54.2	0.3	16.5	0.0	0.0	0.0	0.0	0.0	11.0
393	18419206.48	4913605.29	4.56	0	D	500	70.2	8.8	0.0	3.0	0.0	53.9	0.3	9.3	0.0	0.0	0.0	0.0	0.0	18.5
394	18419206.48	4913605.29	4.56	1	D	500	70.2	8.8	0.0	3.0	0.0	54.2	0.3	9.4	0.0	0.0	0.0	0.0	0.0	18.1

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
396	18419200.91	4913622.73	5.33	0	D	500	64.3	16.4	0.0	0.0	0.0	52.7	0.2	5.4	0.0	0.0	0.0	0.0	0.0	22.2
398	18419196.58	4913620.07	5.41	1	D	500	64.3	15.2	0.0	0.0	0.0	53.3	0.3	5.5	0.0	0.0	0.0	0.0	0.0	20.4
399	18419214.98	4913631.41	5.07	1	D	500	64.3	10.1	0.0	0.0	0.0	52.6	0.2	5.4	0.0	0.0	0.0	0.0	0.0	16.1
401	18419217.84	4913633.18	5.02	2	D	500	64.3	5.4	0.0	0.0	0.0	54.3	0.3	5.6	0.0	0.0	0.0	0.0	0.0	9.4
404	18419217.64	4913633.05	5.02	1	D	500	64.3	5.9	0.0	0.0	0.0	53.9	0.3	5.6	0.0	0.0	0.0	0.0	0.0	10.4
407	18419235.53	4913642.86	4.63	0	D	500	64.3	15.7	0.0	0.0	0.0	51.6	0.2	5.3	0.0	0.0	0.0	0.0	0.0	22.9
409	18419235.53	4913642.86	4.63	1	D	500	64.3	15.7	0.0	0.0	0.0	52.1	0.2	5.4	0.0	0.0	0.0	0.0	0.0	22.2
411	18419235.53	4913642.86	4.63	2	D	500	64.3	15.7	0.0	0.0	0.0	53.8	0.3	5.6	0.0	0.0	0.0	0.0	0.0	20.3
413	18419235.53	4913642.86	4.63	1	D	500	64.3	15.7	0.0	0.0	0.0	53.3	0.3	5.5	0.0	0.0	0.0	0.0	0.0	20.9
417	18419184.99	4913596.95	5.42	0	D	500	64.3	14.7	0.0	0.0	0.0	54.4	0.3	5.7	0.0	0.0	0.0	0.0	0.0	18.6
419	18419184.99	4913596.95	5.42	1	D	500	64.3	14.7	0.0	0.0	0.0	54.7	0.3	5.7	0.0	0.0	0.0	0.0	0.0	18.2
422	18419202.99	4913523.65	4.12	0	D	500	64.3	15.0	0.0	0.0	0.0	57.9	0.4	5.9	0.0	0.0	0.0	0.0	0.0	15.1
424	18419182.94	4913542.83	4.46	0	D	500	64.3	13.7	0.0	0.0	0.0	57.1	0.4	5.9	0.0	0.0	0.0	0.0	0.0	14.6
426	18419203.96	4913522.71	4.11	1	D	500	64.3	14.7	0.0	0.0	0.0	58.1	0.4	5.9	0.0	0.0	0.0	0.0	0.0	14.4
427	18419183.91	4913541.90	4.45	1	D	500	64.3	14.2	0.0	0.0	0.0	57.4	0.4	5.9	0.0	0.0	0.0	0.0	0.0	14.8
444	18419254.52	4913647.82	4.24	0	D	500	64.3	9.8	0.0	0.0	0.0	51.8	0.2	5.3	0.0	0.0	0.0	0.0	0.0	16.7
445	18419254.52	4913647.82	4.24	1	D	500	64.3	9.8	0.0	0.0	0.0	52.4	0.2	5.4	0.0	0.0	0.0	0.0	0.0	16.0
446	18419254.52	4913647.82	4.24	2	D	500	64.3	9.8	0.0	0.0	0.0	53.0	0.2	5.5	0.0	0.0	0.0	0.0	0.0	15.2
447	18419254.52	4913647.82	4.24	1	D	500	64.3	9.8	0.0	0.0	0.0	52.5	0.2	5.4	0.0	0.0	0.0	0.0	0.0	15.9
448	18419248.60	4913454.17	2.89	0	D	500	64.3	17.7	0.0	0.0	0.0	60.4	0.6	5.9	0.0	0.0	0.0	0.0	0.0	15.0
449	18419248.60	4913454.17	2.89	1	D	500	64.3	17.7	0.0	0.0	0.0	60.6	0.6	5.9	0.0	0.0	0.0	0.0	0.0	14.8
450	18419225.36	4913496.58	3.64	0	D	500	64.3	15.9	0.0	0.0	0.0	58.9	0.5	5.9	0.0	0.0	0.0	0.0	0.0	14.8
451	18419230.30	4913489.28	3.51	1	D	500	64.3	13.2	0.0	0.0	0.0	59.4	0.5	5.9	0.0	0.0	0.0	0.0	0.0	11.7
452	18419219.47	4913505.29	3.80	1	D	500	64.3	12.5	0.0	0.0	0.0	58.8	0.5	5.9	0.0	0.0	0.0	0.0	0.0	11.5
453	18419187.24	4913575.52	5.04	0	D	500	64.3	11.5	0.0	0.0	0.0	55.6	0.3	5.8	0.0	0.0	0.0	0.0	0.0	14.1
454	18419187.24	4913575.52	5.04	1	D	500	64.3	11.5	0.0	0.0	0.0	55.9	0.3	5.8	0.0	0.0	0.0	0.0	0.0	13.7
455	18419184.75	4913563.00	4.82	0	D	500	64.3	10.8	0.0	0.0	0.0	56.2	0.4	5.8	0.0	0.0	0.0	0.0	0.0	12.7
456	18419184.75	4913563.00	4.82	1	D	500	64.3	10.8	0.0	0.0	0.0	56.5	0.4	5.8	0.0	0.0	0.0	0.0	0.0	12.4
457	18419178.46	4913554.22	4.66	0	D	500	64.3	10.2	0.0	0.0	0.0	56.6	0.4	5.8	0.0	0.0	0.0	0.0	0.0	11.6
458	18419178.46	4913554.22	4.66	1	D	500	64.3	10.2	0.0	0.0	0.0	56.9	0.4	5.8	0.0	0.0	0.0	0.0	0.0	11.3

Line Source, ISO 9613, Name: "Trailers", ID: "TRK"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	I/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
428	18419214.85	4913621.84	5.17	0	D	500	64.3	12.1	0.0	0.0	0.0	52.8	0.2	5.5	0.0	0.0	0.0	0.0	0.0	17.9
429	18419210.43	4913627.93	5.20	1	D	500	64.3	1.0	0.0	0.0	0.0	52.8	0.2	5.5	0.0	0.0	0.0	0.0	0.0	6.8
430	18419215.22	4913621.33	5.17	1	D	500	64.3	11.8	0.0	0.0	0.0	53.3	0.3	5.5	0.0	0.0	0.0	0.0	0.0	17.0

APPENDIX D: REFERENCES

1. Ministry of Environment's *STAMSON* Computer Programme (Version 5.04) for the IBM PC.
2. Ministry of the Environment, "Publication NPC-300, Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning," August 2013.
3. Cadna/A Computer Aided Noise Abatement, Version 2023.