Acoustic Assessment Study
7260 No. 5 Side Road
Town of Milton

Prepared for:

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Feburary 17, 2026

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1.0 INTRODUCTION

Vintec Acoustics Inc. was retained by W.E. Oughtred & Associates Inc., to prepare an Environmental Noise and Vibration report (Acoustic Assessment) that addresses the potential noise impact of the proposed truck transportation terminal and service building on the surrounding areas. Specifically, this acoustic study deals with proposed operations from the subject facility that currently operates as a truck rental agency office and service building located at 7260 No. 5 Side Road in the Town of Milton. The study further considers the noise impact of the site upon the existing noise sensitive receptors. As noted, the property owner is proposing to develop the property as a truck transportation terminal with a total gross floor area (GFA) of approximately 20,074 square feet. There is presently a building that exists on site, and it is noteworthy that per information received and reviewed, there are no proposed changes for the building nor any proposed modifications or additions to any existing building equipment.

Access to the subject site is proposed via Side Road 5 connecting to James Snow Parkway (JSP), Regional Road 4. A total truck parking supply of 26 parking spaces is also provided for the subject site. An aerial view plan of the existing and proposed site is shown in Figure 1 and the proposed building arrangement is shown in Figure 2. The study area primarily comprises of commercial and light industrial use and presently contains significant vehicular traffic comprising of appreciable truck traffic due to its proximity to Highway 401 Noise emission data relating to any existing noise sources on site was based on information obtained from the Vintec Acoustics' sound source database. This information along with data from site specific studies and drawings has been used to predict noise levels at the nearest receptors. This information is relevant to establish noise assessment guidelines to realize acoustic compliance for the proposed transportation terminal located at 7260 No. 5 Side Road, Town of Milton.

Figure 1: Aerial Plan Imagery showing the Location of the subject site and surrounding area

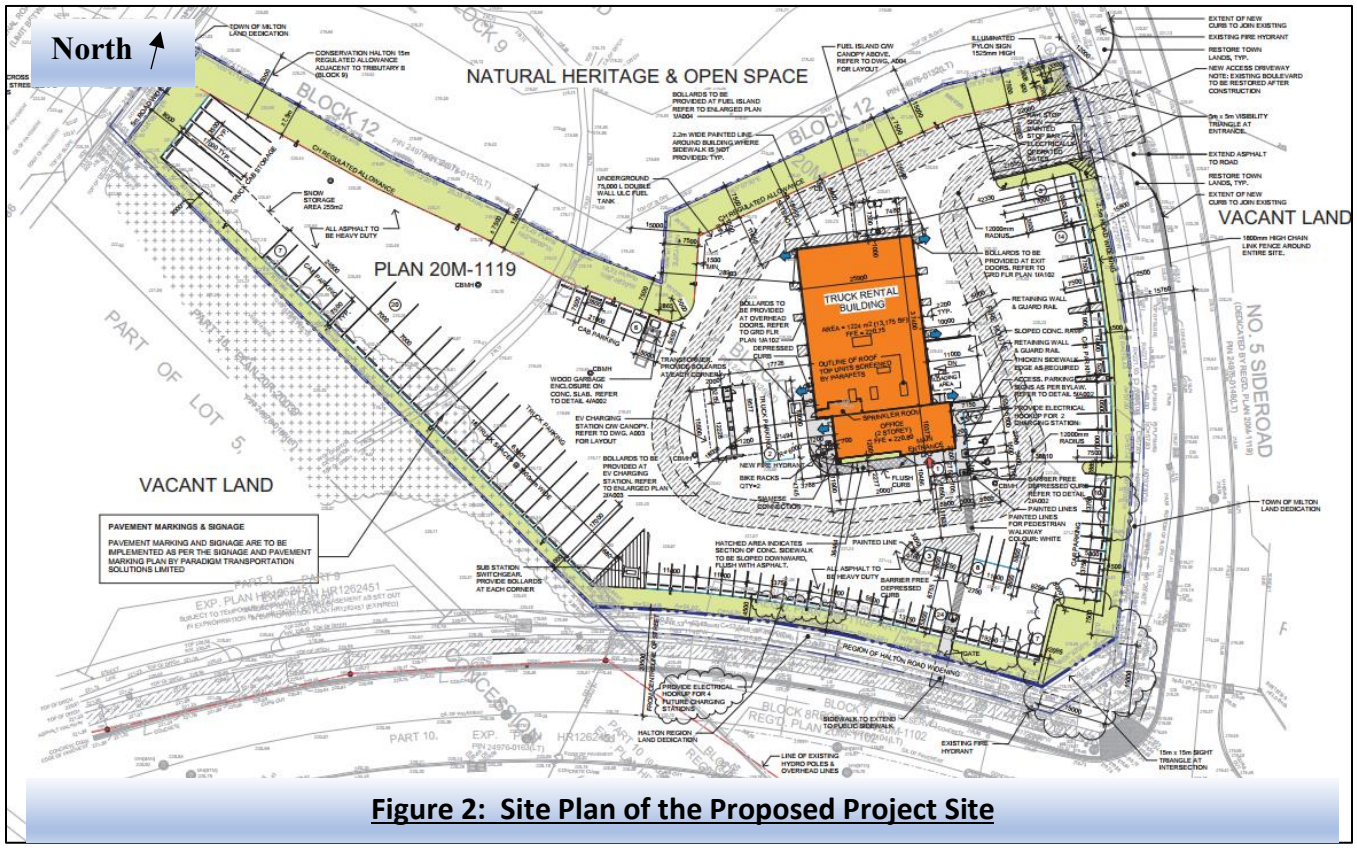


Figure 2: Site Plan of the Proposed Project Site

This report examines the subject facility and presents noise guidelines for realizing acoustic compliance of the potential impact from both the on-site and off-site truck marshalling operations and the sales/ leasing office and service on the subject study area. The noise emission profiles that have been used in this analysis are a conservative and appropriate estimate of project operations. This study serves as a reference to both technically support site plan approvals from the municipality and if required, an application for environmental approvals such as an Environmental Activity Sector Registry (EASR) to be acquired from the Ministry of Environment, Conservation and Parks (MECP) per the requirements defined in MECP publication NPC-300.

Therefore, in keeping with the review authority protocols per NPC 300, the study presents a predictable worst case. This acoustic assessment report examines the potential noise impact from the project site which includes on site truck movements, parking and maintenance and truck service activity within the building. This acoustic assessment also includes an assessment from current building noise sources, such as air handling, fan exhausts, vehicle maintenance tools and equipment alongside noise from site vehicle movement activity(ies). As a further conservatism, potential impulse noise from trailer coupling and decoupling has also been considered and included in this assessment to reflect a reasonably conservative and predictable worst-case scenario for assessing impact of truck and trailer decoupling and coupling impact sounds that may be detected at the nearest noise sensitive receptors. In this regard, 3 to 4 decoupling events in a peak is likely to represent a highly conservative assessment scenario. Reference

to experience with similar sites that comprise of truck service, maintenance and on-site marshalling/movements including entrance/egress to local roads and a review of potential off site truck traffic related noise impact has also been made. Off-site traffic noise impact has also been addressed.

To reiterate, the study has been conducted in accordance with the applicable Ministry of Environment, Conservation and Parks (MECP) Noise Guidelines as defined in publication NPC-300 [1], which serves as the acoustic basis for municipal approvals and environmental permitting throughout Ontario.

1.1 DISCUSSION OF TERMS, DESCRIPTORS USED IN THIS REPORT

To assist the reader in deciphering this study, the following provides a brief discussion of the acoustic terms used. Sound pressure levels (SPL) are measured in decibels (dB). Sound data and analysis are often given in terms of frequency distribution. The levels are grouped into octave bands, typically with centre frequencies at 31.5, 63, 125, 250, 500, 1000, 2000, 4000 and 8000 Hertz (Hz.). Added frequency resolution can be realized by examining 1/3 octave band sound levels or discrete narrowband sound data. Reference to sound power (PWL) expresses the overall sound intensity radiated by a source of given surface area.

It is also common practice to sum sound levels over the entire audible spectrum to give an overall sound level, often expressed as either an unweighted dBZ or some form of weighted level. To arrive at an overall weighted level, each octave band measured has a weighting or filter applied to it. The most common weighted level is typically expressed as 'dBA', which corresponds approximately to the hearing response of humans. The resulting "A-weighted" (dBA) sound level is often used as a criterion to indicate a maximum allowable sound level. In general, sound in the low frequency range (below ~250 Hz) is filtered and adjusted as hearing is less sensitive to low frequency sound in comparison to mid and higher frequency audible noise (above ~500 Hz). It is noteworthy that a change (reduction) in mid to high frequency sound level of 10 dB in the 500 Hz to 4kHz frequency range will be subjectively perceived as being half as loud.

In general terms, a change in environmental sound levels of up to 3 dB(A) is generally barely perceptible by humans and is not considered to be a significant change. Changes of 3 to 5 dB(A) are perceptible and do not typically represent any potential for noise impact. Changes of 6 to 10 dB(A) is a clearly noticeable change and may result in a moderate noise impact. A change of more than 10 dB(A) is a very significant change and will be perceived to be more than twice as loud and potential for noise impact is high. It is noteworthy that sensitivity to noise may vary from individual to individual.

The assessment protocol followed in this report is based on the MECP noise guidelines; namely, publication NPC-300 which expresses applicable sound level limits as a one-hour energy average sound level or Leq (dBA-1 hour). Each measurement that is conducted typically captures the A-weighted equivalent sound level (Leq) and the ninetieth percentile A-weighted equivalent sound level (L90) as well as other statistical indices. The L90 is a key descriptor that provides insight of the underlying

background sound character which is generally attributable to steady continuous sound in the environment.

It is noteworthy that human hearing ability, although less sensitive in general to low frequency sound, is aware of change or increase in low frequency sound level. The dBC descriptor may be used to address low frequency noise; whereby, the difference in the dBA and dBC level can be reviewed.

2.0 ACOUSTIC REVIEW SUMMARY

The facility hours are typically during AM and PM peak traffic on weekdays; hence from 7:00am to 8:00pm with a small number of employees working inside the facility. The hours are during the daytime and evening, but as a conservatism, it has been assumed that the facility may be accessed on a 24/7 basis, and this is reflected in the acoustic assessment. Truck access (i.e., entrance and egress) is anticipated daily with up to about 39 vehicles anticipated during AM and 37 vehicles during PM peak rush hour periods [5]. It is assumed that up to approximately 15-20% of the vehicles may return during quieter mid-day and evening periods of the day and evening (i.e., 11am – 12pm and 8pm – 9pm, respectively); and this is insignificant relative the current vehicular traffic that is present in the study area. Existing building noise sources presently comprise of grade level and elevated air handling equipment, etc. and these have been included in the assessment, as per source emission details from the Vintec Acoustics database as well as discussions with the client. This environmental noise assessment has been prepared in accordance with the MECP requirements defined by NPC-300 [1] and therefore includes the following key study points:

- Identification of the nearest points of reception (POR) and the applicable sound limits at the PORs
- Prediction of the predictable worst-case noise impact at each POR and
- Outline of noise control measures that are required to realize acoustic compliance at the PORs.

Satisfaction of the MECP noise guidelines at the most noise sensitive PORs typically ensures compliant noise levels at all other receptors as well. It is noteworthy that NPC 300 forms the basis of most municipal noise requirements in the Province of Ontario.

3.0 ACOUSTIC CRITERIA

The ambient sound environment at the existing site is dominated by major local roads; namely, James Snow Parkway (Regional Road 4) that is in proximity to the nearest sensitive points of reception which is typically nearby residences. The Dublin Line Road and Side Road 5 contribute lesser to the noise environment at receptor locations due to infrequent vehicle movements along these roads.

The nearest sensitive residential areas are shown in the aerial view given in Figure 3. These points of reception (POR) are typically residential homes; and due to proximity to James Snow Parkway Regional

Road, they can be characterized to be Class 2 as defined in NPC 300. Table A provides the setback distances to James Snow Parkway Regional Road, Side Road 5 (site access) and the subject site.

Figure 3: Identification of Nearest Receptors to proposed site

The applicable stationary noise source sound level limits for the on-site activity are a 1-hour Leq (dBA) of 50 daytime/evening (0700-2300) and 45 dBA nighttime (2300-0700) at the nearest receptor(s) as defined in NPC 300. The study area is Class 1 per NPC 3oo based on its proximity to Highway 401 and the prevalent commercial, light industrial land uses that define the acoustic character of the study area. It is understood that based on the subject site hours, there shall be no nighttime operations.

Based on the site's proximity to Highway 401 and James Snow Parkway, higher ambient sound levels that the minimum MECP requirements are likely applicable; however, the most restrictive limits have been applied; and thus represents a further conservatism. These sound limits apply to cumulative noise levels from the subject facility, typically at residential points of reception as required for fulfilling the predictable worst-case hour requirement defined in NPC-300.

As noted, a local zoning map obtained from the official Town of Milton Official Plan showing neighbouring land uses is provided in Appendix A. A review of the zoning map has shown there to be no future residential development within about 300m proximity to the study area, and thus the closest existing residential receptors around the site have been considered, as required for a robust acoustic assessment.

Table A: Receptor set back distances to James Snow Parkway and Side Road 5 (site access) and at Project Site.

POR ID	Location	Notes	Approx. Distance to Site (m)	Approx. Distance to James Snow Parkway (m)	Approx. Distance to Side Road 5 (site access) (m)
R1	Side Road 5 (Site access)	Existing residential dwellings	50	150	250
R1 OLA			60	160	260
R2			170	225	215
R2 OLA			180	235	225
R3			160	270	230
R4			210	160	370
R4 and R5 OLA			195	170	395
R5			200	165	400
R6	Dublin Line		330	260	500
R7			400	380	500

Furthermore, consideration is also given to potential impulse noise, where the applicable sound level limits that are used for impulsive sound from a stationary source are defined by the MECP in Tables C-7 and C-8 of NPC 300. Specifically, the exclusion sound limit values apply for outdoor points of reception during daytime/evening hours of 7am to 11pm and similarly, nighttime sound level limits apply during 11pm to 7 am for plane of window of a noise sensitive space. The impulse sound level limits are a given as a function of frequency of occurrence and the applicable limits for 1 event to 9 or more events for a given area classification, i.e., Class 2, are as follows:

Class 2

- 1 event at 80 dBAI for daytime and 75 dBAI for nighttime
- 2 events at 75 dBAI for daytime and 70 dBAI for nighttime
- *3 events at 70 dBAI for daytime and 65 dBAI for nighttime*
- *4 events at 65 dBAI for daytime and 60 dBAI for nighttime*
- 5 to 6 events at 60 dBAI for daytime and 55 dBAI for nighttime
- 7 to 8 events at 55 dBAI for daytime and 50 dBAI for nighttime
- 9 or more events at 50 dBAI for daytime and 45 dBAI for nighttime

The anticipated impulse noise due to truck trailer coupling/decoupling and 3 to 4 events in a peak worst case hour may be potentially expected during peak daytime/evening hours (0700-2300) where a 60 to 65 dBAI sound limit applies. The magnitude and frequency of occurrence for impulse noise is subject to implementation of internal best practices policies to minimize this specific noise impact. No nighttime activity is planned nor expected at this facility.

We have reviewed concept drawings for the site plan as part of our assessment and an arrangement plan for the facility is given in Figure 2. The concept renderings and related facility drawings are provided in the Appendix D of this report. Our analysis focuses on establishing noise impact for the site-specific case with the inclusion of the noise sources associated with site. It is noteworthy that the NPC 300 Guidelines also state that the specific sound sources are not considered as stationary noise sources and the list of exempted noise sources that are exempted from assessment includes the following:

- occasional movement of waste management vehicles on the property.
- automobiles driven by employees and clients that are entering, parking, and leaving the property.

The occasional movement of these vehicles would fall under this category and thus these sources would not normally be considered as stationary noise sources and are thus typically exempt from assessment.

The information summarized in Table B has been used as a basis for creating an acoustic model based on ISO 9613-2 outdoor sound propagation standard that is accepted as the protocol basis for noise impact assessment worldwide. In this regard, it is noteworthy that noise emissions from a sound source diminish geometrically over the distance between source and receptor at a rate of about 6 dB per doubling of distance. Overall sound levels are further reduced with the presence of intervening structures, buildings and barriers that behave in accordance with sight and light theory. Such barriers will add to sound propagation losses to further reduce noise levels at a given receptor.

Table B describes the sources of noise emissions and serve as a guideline regarding the level of detail that is required to confirm compliance with NPC 300 for the site-specific case.

Table B: Noise Sources at Project Site.

Source	Sound emission reference	Relevant Notes
Exhaust	Vintec Sound Source database	Sound power level 86 dBA;
Vent		Sound power level 87 dBA;
Facade Louvre / Compressor		Sound power level 96 dBA;
MUA		Sound power level 87 dBA;
Office RTU		Sound power level 86 dBA;
Transformer / Inverter		Sound power level 83 dBA;
Condensing Unit		Sound power level 88 dBA;
Loading Bay Doors		Sound power level 84 dBA;
Site vehicle movements (60% of which are projected to be trucks)		Moving noise source (AM 39/hour PM 37/hour) 80-96 dBA PWL
Cars*	Cars entering, parking, egress, occasional; *NPC 300 exemption as a stationary source	
Waste Handling/Pick up*	*NPC 300 exemption as a stationary source	
Impulse Noise	Coupling and decoupling	Estimated sound Power of 104 dBAI, conservatively included

An acoustic impact summary table which lists the predicted sound levels for the subject facility is populated as part of this AAR. An acoustic model to address sound propagation outdoors has been created for the project site operations; and as per the following acoustic modelling details:

As noted, the acoustic model prepared for this study area is based on the ISO standard 9613-2, `Acoustics-Attenuation of Sound during Propagation Outdoors' as employed by the iNoise acoustic model algorithm. The ISO calculation method, considered conservative, looks at sound propagation outdoors and includes losses due to distance (geometrical spreading), air absorption, ground attenuation, and acoustic shielding. Calculation parameters are in accordance with the MECP protocols and as per the ISO standard as follows:

- Area made up of mixed ground (G=0.5) with ground absorption hard ground (G=0).
- Temperature of 10°C and relative humidity of 70%.
- All sources were modelled as point sources with sound power levels based on 1/1 octave band centre frequency analysis. Roof is modeled as an emitting roof. Truck movements are modelled as moving points sources.
- Buildings and structures include a reflection factor of 0.8 for all octave band frequency ranges.
- Reflection orders as per MECP requirements for ISO 9613-2 model.

This information demonstrates that the subject facility may operate within acceptable daytime and nighttime sound limits as defined by NPC 300. This assessment also illustrates that with the provision of modest noise control interventions, any noise impact at the nearest PORs have been determined to be within acceptable sound limits as defined by MECP. The noise sources used in this assessment shall be verified to ensure that the salient sound levels maintain compliance with the final equipment chosen.

It should be noted that the anticipated noise emissions from the equipment reflects a level of conservatism within the noise model predictions in assessing the predictable worst case; and lower noise emissions are likely most of the time. The conservatism is further enhanced when consideration is given to the ambient sound level conditions that are presently due to Highway 401 and JSP proximity.

4.0 ASSESSMENT RESULTS

Stationary Noise Impact - onsite operations

The acoustic assessment results for the anticipated predictable worst case of all equipment are discussed and summarized in noise source Tables 1 through 14 in Appendix A. An acoustic impact summary for all receptors is presented in Tables 2 through 12 for the anticipated equipment operation scenario, especially during truck movements and coupling and decoupling. Based on the impact assessment results presented in Tables 13 to 14, noise levels from the subject facility have been predicted to be compliant at all receptor points. Provision shall be made to substantiate the in-situ noise emissions for the site equipment mix and type. Evaluation guidelines have been provided; namely, that any future

facility modifications, modified or new equipment and/or capacity changes for the site shall be evaluated to confirm that sound levels are within allowable sound limits as defined in NPC 300 and as required for compliance.

Truck Traffic Noise Impact - offsite truck route

Additionally, off site road traffic noise has also been considered as part of this assessment by reviewing the existing sound levels in the study area due to vehicular traffic and assessing the change because of the project. The Annual Average Daily Traffic (AADT) was not available at the time of this assessment and therefore the AADT for the baseline scenario has been derived from site specific studies.

Vintec Acoustics undertook an online data search for other committed developments in the area where traffic assessments were completed. Following the online review one supporting document was found which assessed the traffic noise impact of another proposed commercial development within the area of the site. The assessment was completed on 2024 and has been used to support this ENVIS [6].

Please note that most of the site traffic (namely, truck) movements will leave and/or enter the site via the access to the south on Side Road 5 adjoining James Snow Parkway. The change in traffic noise that is attributable to site trucks movements has been assessed on JSP and Sideroad 5 per analysis that includes deriving base vehicle flows and projected traffic volumes that include the facility.

Furthermore, a traffic impact assessment has also been conducted for the site by Paradigm Transportation Solutions Limited. This document is used to support the assessment which provides the peak vehicle flows of the site for the morning and afternoon periods. In the absence of an AADT, the noise impact from this project is based on a review of current and future vehicle movements on James Snow Parkway and Side Road 5 derived using the peak and projected 1-hour AM and PM traffic volumes per details presented in the traffic impact assessments [5][6].

In the absence of the Annual Average Daily Traffic (AADT) data, the Traffic Impact Assessment [5] provided worst-case weekday AM and PM peak hour traffic volumes representing the 2025 and 2030 future background conditions. Based on average trip-generated rates, the proposed development is forecast to generate a total of 39 and 37 new vehicle trips during the weekday AM and PM peak hours, respectively.

Site observations at the driveway access to Sideroad 5 indicate that existing truck percentages currently range from 0% to 33% . However, given the proposed use of the site as a truck terminal, a conservative assumption of 60% truck traffic was applied to the total site-generated trips to represent a reasonable worst-case condition. This corresponds to approximately 23 and 22 truck trips during the respective weekday AM and PM peak hours.

The acoustic assessment was completed by comparing the future background (baseline) sound levels to the future total sound levels which include the additional site-generated truck traffic, for both the 2025 and 2030. The model considers the posted speed limits of 60km/hr on James Snow Parkway and No.5 Road and includes a vehicular composition of 10% medium trucks and 10% heavy trucks that is appropriate for the subject study area which as noted, is mostly commercial and light industrial and currently comprises of significant medium and heavy truck traffic. A representative off site traffic location was selected at 150m from the centerlines of the respective roadways to assess any change in local traffic volumes because of the site traffic introduced by the proposed transportation terminal.

Baseline sound levels were first calculated using the current traffic volumes without the site-generated traffic for 2025 and 2030. The site-generated truck traffic was then added to the roadway traffic volumes with the respective distribution of heavy to medium trucks of 23:4 during the AM peak hours and 22:3 during the PM peak hours. Using the projected road traffic data acquired per the above methodology, sound levels were calculated using STAMSON v. 5.04, per MECP protocol and the findings are included in Table C of this study. The specific traffic count dates, details of road traffic data provided by the Region, traffic projections and traffic impact assessment as well as STAMSON calculation samples are provided in Appendix C.

Offsite truck related traffic noise impact is based on the additional traffic introduced to the local roads: Side Road 5, and James Snow Parkway during AM and PM rush hour. It is noteworthy that about 15 to 20% of these volumes are seen during potential quieter periods (i.e. 11am-12pm and 2pm-3pm) which results in a negligible change to baseline traffic volumes and thus an insignificant increase in traffic noise further substantiating the AM and PM peak hours as the specific worst case for this assessment. Any change in sound levels is found to be less than 3 dB(A).

Table C summarizes the predicted road traffic sound levels and the associated change resulting from the addition of the proposed transportation terminal. Any resultant change in sound levels due to site traffic generated by the proposed transportation terminal site has been determined to be less than 3 dB(A). A 0-3 dB(A) change in environmental noise terms is typically negligible and can be considered as insignificant. It can be seen from the below table that there has been no significant change in road traffic noise level with the consideration of the additional site traffic movements; thus, the potential noise impact is concluded to be insignificant.

It can be seen from the below table that there is no significant change expected in road traffic noise level with the incorporation of the additional traffic movements generated by the proposed transportation facility; thus, the potential noise impact is concluded to be insignificant.

Table C: Road Traffic assessment of base 1 hours flows vs. projected flows with projected site vehicle movements

Receptor	2025					
Arbitrary Receptor	Baseline (AM) (dBA)	Baseline +Terminal (AM) (dBA)	**Difference (dBA)**	Baseline (PM) (dBA)	Baseline + Terminal (PM) (dBA)	**Difference (dBA)**
Side 5 North (150m, 60km/hr)	48.9	51.2	**2.3**	48.2	50.5	**2.3**
Side 5 South (150m, 60km/hr)	48.9	51.2	**2.3**	48.2	50.5	**2.3**
James Snow Pkwy West (150m, 60km/hr)	53.9	54.7	**0.8**	52.8	53.7	**0.9**
James Snow Pkwy East (150m, 60km/hr)	52.6	53.7	**1.1**	51.3	52.6	**1.3**

Receptor	2030					
Arbitrary Receptor	Baseline (AM) (dBA)	Baseline +Terminal (AM) (dBA)	**Difference (dBA)**	Baseline (PM) (dBA)	Baseline + Terminal (PM) (dBA)	**Difference (dBA)**
Side 5 North (150m, 60km/hr)	50.4	52.0	**1.6**	52.0	53.1	**1.1**
Side 5 South (150m, 60km/hr)	50.5	52.0	**1.5**	52.0	53.1	**1.1**
James Snow Pkwy West (150m, 60km/hr)	54.9	55.7	**0.8**	56.5	56.9	**0.4**
James Snow Pkwy East (150m, 60km/hr)	53.4	54.3	**0.9**	54.8	55.4	**0.6**

The data in Table C therefore illustrates that any impacts due to offsite truck traffic at the existing nearest receptors are less than 3 dB(A) and therefore, not significant. Furthermore, the offsite truck traffic assessment shows that any change will be significantly less than 5 dB(A); thus, well within the sound limits and the defined EA acceptance criteria for change in traffic noise from the arterial road network during the site operating hours

5.0 RECOMMENDATIONS and CONCLUSIONS

Vintec Acoustics Inc. has conducted an acoustic assessment of the future site of the truck rental agency located at 7260 No. 5 Side Road, Town of Milton. This AAR describes a cumulative noise assessment for the predictable worst case as required per MECP protocols. The proposed facility is compliant (<50 dBA daytime) with the stationary sound level limits defined by MECP in publication NPC 300. Recommendations for noise management are as follows to ensure that any noise emissions from the subject facility continue to be well within acceptable sound limits as defined in NPC 300:

- *To minimize impulse noise, there shall be no trailer decoupling/coupling activity occurring on site between the hours 2300 to 0700.*
- *To provide sustainable low noise emissions and subsequent minimal noise impact to nearby residential areas, a truck shunting and trailer coupling/decoupling best practices SOP (standard operating procedure) shall be prepared to ensure that operators practice care and caution of vehicle operation to minimize noise/speed/braking during truck marshalling yard activities and especially to minimize any loud impulse noise events such as decoupling/coupling and impact sounds during any time of the day.*
- *Any truck idling before 0700 or after 2300 (nighttime) shall be limited to less than 6 minutes in any given hour.*
- *Any planned changes to the truck transportation terminal and/or service building facility arrangement or any proposed changes to building equipment at grade and/or rooftop shall be reviewed for evaluation of noise emissions by the acoustic engineer.*

With the implementation of the subject controls, it is concluded that predicted sound levels from the project shall be within acceptable limits as defined by MECP at all neighbouring sensitive points of reception. In this respect, noise from the subject facility is expected to be `acoustically' compatible with the surrounding environment and at the nearest sensitive residential receptors for both steady state and impulse noise; thus, well within allowable limits as defined by MECP and publication NPC-300. In addition, the change in ambient noise due to offsite traffic generated by the project is negligible and insignificant; thus, satisfying any applicable acceptance criteria. This acoustic assessment provides a framework to ensure that the subject facility operates in compliance with NPC-300 which forms the basis of environmental permitting and noise management requirements in the Province of Ontario.

6.0 REFERENCES:

1. **Ministry of the Environment Publication NPC-300, "Environmental Noise Guideline Stationary and Transportation Sources-Approval and Planning", August 2013.**
2. **ISO 9613-2:1996, Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation.**
3. **Ministry of Environment Publication NPC-104, "Sound Level Adjustments", 1977.**
4. **Ministry of the Environment Publication D-6, Compatibility between Industrial Facilities and Sensitive Land Uses, July 1995.**
5. **Paradigm Transportation Solutions Limited – Transportation Impact Study-Draft & Appendices/Figures, January 2026**
6. **Next-Trans, 8584-8604-RR25---Noise-Impact-Study-Proposed Commercial Development, March 2024.**

APPENDIX: A Tables

Table 1 Noise Source Summary Table, Modelled noise sources

Source	Source height	Number of items	Sound characteristics	Proposed Noise control measures	Data Source	dB(A)	Frequency								
							31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
Exhaust	1.8	3	Steady	n/a	Measurement	86	80	87	90	88	83	79	75	73	66
Vent	8	2	Steady	n/a	Measurement	87	81	88	91	89	84	80	76	74	67
Facade Louvre / Compressor	tbc	3.7	Steady	n/a	Measurement	96	89	92	94	95	93	91	89	86	81
MAU	1.5	2	Steady	n/a	Measurement	87	81	92	93	89	87	79	69	62	57
Office RTU	1.5	4	Steady	n/a	Measurement	86	80	87	90	88	83	79	75	73	66
Transformer / Inverter	1.5	1 (internal)	Steady	n/a	Measurement	83	94	95	91	89	81	71	64	59	51
Condensing Unit	1.5	2	Steady	n/a	Measurement	88	82	93	94	90	88	80	70	63	58
Loading Bay Doors	1.5	2	Steady	n/a	Measurement	84	64	72	70	81	81	81	76	66	56
Site Movements	2	tbc	Moving point source	n/a	Measurement	96	96	100	92	91	90	90	89	88	83

Table 2 Calculated 1hr. Leq levels at POR1.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	33.2	-13.4	6.8	21.6	27.8	28	26.9	22.9	16.1	-9.7
2	Exhaust 2	8	32.7	-13.8	6.4	19.4	27.4	27.6	26.4	22.4	15.3	-11.4
3	Condensing Unit 1	1.5	34.9	-10	14.1	25.2	28.6	31.8	26.6	16.6	4.6	-20
4	Condensing Unit 2	1.5	34.9	-9.8	14.2	25.2	28.5	31.7	26.6	16.5	4.5	-20.2
5	Facade Louvre / Compressor	3.7	32.9	-8.1	7.5	18.9	26.4	28.3	27.4	23.2	12.8	-14.2
6	In	2	41.8	4.0	21.2	23.2	29.6	34.1	37.1	36.4	31.9	14.9
7	Loading Bay Door 1	2	33.3	-25.4	-4.3	3.8	22.2	27.4	30.2	25.2	10.4	-18.5

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
8	Loading Bay Door 2	2	33.2	-25.5	-4.4	3.7	22.1	27.3	30.1	25.1	10.2	-18.9
9	MAU 1	1.5	30.2	-15.7	8.6	19.7	23.3	26.9	22.8	15.7	3.8	-20.5
10	MAU 1	1.5	29.1	-16	8.2	19.3	22.7	26	21	11.3	0	-22.6
11	Office RTU 1	1.5	28.3	-16.9	3.3	16.4	21.9	22.5	22.1	20.3	14.2	-12.7
12	Office RTU 2	1.5	27.1	-17.1	3.1	16.1	21.5	21.8	20.8	17	10.4	-15.1
13	Office RTU 3	1.5	26.7	-17.3	2.8	15.9	21.2	21.4	20.3	16.1	8.8	-19.1
14	Office RTU 4	1.5	26.9	-17.2	3	16.1	21.4	21.7	20.5	16.5	9.4	-17.7
15	Out	2	41.6	3.8	20.9	23.1	29.6	34.0	37.1	36.3	31.5	13.8
16	Transformer / Inverter	3.7	23.4	-3	10.6	16	20.5	16.6	7.8	-1.3	-13.7	-43.7
17	Vent 1	4	34.6	-9.5	10.7	23.7	29.1	29.3	28.1	24.1	17.2	-9.3
18	Vent 2	4	34.4	-9.7	10.5	23.5	28.9	29.1	27.9	23.9	16.8	-10.2
Total SPL at POR1 [dBA]			**47.5**	**7.9**	**25.8**	**33.5**	**38.9**	**41.6**	**42.3**	**40.3**	**35.1**	**17.4**

Table 3 Calculated 1hr. Leq levels at POR1 OLA.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	32	-14.5	7	20.6	26.6	26.8	25.6	21.5	14	-14.1
2	Exhaust 2	8	31.6	-14.9	6.6	20.2	26.2	26.4	25.2	21	13.3	-15.7
3	Condensing Unit 1	1.5	29.1	-15	8.9	19.7	22.9	26	20.7	10.5	-2.2	-29.4
4	Condensing Unit 2	1.5	33.8	-10.9	13.2	24.2	27.5	30.7	25.4	15.2	2.5	-24.8
5	Facade Louvre / Compressor	3.7	31.3	-9	6.5	17.8	25	26.7	25.6	21.1	10	-19.6
6	In	2	38.4	1.9	18.8	20.6	26.7	31.1	34.0	32.8	26.9	5.3
7	Loading Bay Door 1	2	32.1	-26.4	-5.3	2.8	21.1	26.3	29.1	24	8.4	-23
8	Loading Bay Door 2	2	32	-26.6	-5.4	2.7	21	26.2	29	23.8	8.2	-23.5
9	MAU 1	1.5	29.2	-16.6	7.6	18.7	22.3	26	21.9	14.4	1.9	-24.9
10	MAU 1	1.5	28.1	-16.9	7.3	18.3	21.7	25	20	10.3	-1.3	-26.1
11	Office RTU 1	1.5	27.4	-17.9	2.3	15.4	20.9	21.5	21.2	19.7	12.3	-17.2
12	Office RTU 2	1.5	26.1	-18.1	2.1	15.1	20.5	20.8	19.8	15.9	9	-17.9
13	Office RTU 3	1.5	25.7	-18.3	1.9	14.9	20.3	20.4	19.2	14.9	6.9	-23.4

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
14	Office RTU 4	1.5	25.9	-18.1	2	15.1	20.4	20.7	19.5	15.4	7.8	-21.5
15	Out	2	38.1	106	18.5	20.3	26.4	30.9	33.7	32.7	26.7	4.5
16	Transformer / Inverter	3.7	22.1	-4	9.6	14.9	19.3	15.1	6	-3.4	-16.5	-49.1
17	Vent 1	4	33.6	-10.4	9.8	22.8	28.2	28.3	27.1	22.9	15.3	-13.7
18	Vent 2	4	33.4	-10.6	9.6	22.6	28	28.2	26.9	22.7	14.9	-14.7
Total SPL at POR1 OLA [dBA]			**45.1**	**6.0**	**23.7**	**31.9**	**37.2**	**39.5**	**39.9**	**37.3**	**30.5**	**8.1**

Table 4 Calculated 1hr. Leq levels at POR2.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	34.1	-11.4	9.2	23.1	28.5	28.8	27.6	23.7	17.3	-7.2
2	Exhaust 2	8	33.7	-11.7	8.8	22.8	28.2	28.4	27.3	23.3	16.7	-8.4
3	Condensing Unit 1	1.5	27.6	-14.3	9.3	19.7	22.2	24.1	17.2	5	-9.5	-36.7
4	Condensing Unit 2	1.5	26.3	-14.5	8.9	19	21	22.4	15.1	2.7	-11.9	-39.1
5	Facade Louvre / Compressor	3.7	28.7	-8.7	6.2	16.7	23.1	23.9	22.2	17.7	7.3	-19.4
6	In	2	40.5	3.2	20.3	22.3	28.7	33.1	36.0	35.2	30.0	9.4
7	Loading Bay Door 1	2	33.4	-27.8	-4.1	3.9	22.3	27.5	30.4	25.4	10.7	-17.9
8	Loading Bay Door 2	2	33.2	-25.5	-4.3	3.7	22.1	27.3	30.2	25.2	10.3	-18.8
9	MAU 1	1.5	29.8	-15.3	8.9	19.9	23.4	26.7	21.8	12.3	1.8	-19
10	MAU 1	1.5	29.2	-15.7	8.4	19.5	22.9	26.1	20.9	10.9	-1	-25.4
11	Office RTU 1	1.5	27.4	-16.9	3.3	16.3	21.7	22	21	17.3	11	-13.7
12	Office RTU 2	1.5	27.1	-17	3.2	16.2	21.6	21.8	20.6	16.5	9.4	-17.7
13	Office RTU 3	1.5	26.9	-17.2	3	16.1	21.4	21.6	20.5	16.4	9.1	-18.2
14	Office RTU 4	1.5	27.1	-17	3.2	16.2	21.6	21.8	20.6	16.6	9.4	-17.6
15	Out	2	40.6	3.0	20.2	22.3	28.7	33.1	36.1	35.3	29.9	8.8
16	Transformer / Inverter	3.7	20.4	-3.6	9.4	14	17.5	12.4	2.7	-6.8	-19.2	-49
17	Vent 1	4	34.5	-9.6	10.6	23.7	29	29.2	28.1	24	17	-9.5
18	Vent 2	4	34.3	-9.8	10.4	23.4	28.8	29	27.8	23.7	16.6	-10.7
Total SPL at POR2 [dBA]			**46.3**	**7.2**	**24.8**	**32.5**	**38.0**	**40.2**	**41.3**	**39.3**	**38.5**	**12.3**

Table 5 Calculated 1hr. Leq levels at POR2 OLA.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	19.4	-16.7	1.8	12.7	15.6	13.2	9.2	2.2	-5.2	-32.7
2	Exhaust 2	8	19.1	-16.9	1.5	12.4	15.3	12.9	8.9	1.8	-5.8	-33.9
3	Condensing Unit 1	1.5	13.5	-22	-0.8	7.3	7.9	9.1	2.5	-8.8	-22.2	-50.2
4	Condensing Unit 2	1.5	13.4	-22	-0.9	7.3	7.8	9	2.4	-8.8	-22.3	-50.3
5	Facade Louvre / Compressor	3.7	18.3	-15.9	-2.7	6.4	11.8	13.1	12.5	9.3	-0.1	-28
6	In	2	33.0	-1.5	14.2	14.2	18.4	20.7	29.0	29.0	22.7	-2.1
7	Loading Bay Door 1	2	13.5	-31.7	-12.5	-7.5	7.2	9.1	8.8	0.8	-15.6	-47.6
8	Loading Bay Door 2	2	13.4	-31.8	-12.7	-7.7	7.1	9	8.7	0.7	-15.9	-48.4
9	MAU 1	1.5	21.1	-15.8	6.5	15.2	16	16.5	8.5	-4.6	-17.6	-44.2
10	MAU 1	1.5	20.8	-16.1	6.2	14.9	15.7	16.2	8.1	-5	-18.3	-45.8
11	Office RTU 1	1.5	18.9	-17.2	1.3	12.2	15.1	12.7	8.6	1.5	-7.3	-37.3
12	Office RTU 2	1.5	18.8	-17.3	1.2	12.1	15	12.5	8.5	1.3	-7.5	-37.8
13	Office RTU 3	1.5	17.8	-18.9	-0.3	10.9	14	11.6	7.6	0.4	-8.2	-38.6
14	Office RTU 4	1.5	18.1	-18	0.5	11.4	14.3	11.8	7.8	0.6	-7.9	-37.9
15	Out	2	32.4	-1.7	13.9	13.9	17.9	19.9	27.9	28.7	22.3	-2.9
16	Transformer / Inverter	3.7	9.4	-10.8	0.4	3.5	5.9	1.1	-7.5	-15.7	-27.1	-58
17	Vent 1	4	18.3	-15.6	2.6	12.6	14.4	11.3	7	-0.2	-8.9	-38.9
18	Vent 2	4	18.1	-15.8	2.4	12.5	14.3	11.2	6.9	-0.5	-9.4	-40
Total SPL at POR2 OLA [dBA]			**36.7**	**2.4**	**18.7**	**24.2**	**26.9**	**26.9**	**31.8**	**31.9**	**25.5**	**0.5**

Table 6 Calculated 1hr. Leq levels at POR3.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	33.7	-11.7	8.9	22.8	28.1	28.4	27.2	23.3	16.7	-8.5
2	Exhaust 2	8	33.4	-11.9	8.7	22.5	27.9	28.2	27	23	16.3	-9.3
3	Condensing Unit 1	1.5	25.1	-15.1	8.2	18.1	20	21.2	13.7	1.2	-13.7	-42
4	Condensing Unit 2	1.5	23.2	-15.5	7.4	16.8	18.1	18.9	11.2	-1.4	-16.1	-44.1
5	Facade Louvre / Compressor	3.7	26.6	-9.6	5.1	15.2	21.3	21.8	20	15.5	5	-22.7
6	In	2	39.7	2.4	19.5	21.7	28.2	32.4	35.2	34.2	28.5	5.1
7	Loading Bay Door 1	2	32.9	-28.3	-7.1	0.9	21.8	27	29.9	24.8	9.8	-19.9
8	Loading Bay Door 2	2	32.6	-28.5	-7.4	3.2	21.6	26.8	29.6	24.5	9.3	-20.9
9	MAU 1	1.5	29.3	-15.7	8.5	19.5	22.9	26.2	21.1	11.2	-0.3	-23.8
10	MAU 1	1.5	28.8	-16.1	8.1	19.1	22.5	25.7	20.5	10.4	-1.8	-27
11	Office RTU 1	1.5	26.7	-17.4	2.8	15.9	21.2	21.4	20.2	16.1	8.7	-19.2
12	Office RTU 2	1.5	26.6	-17.4	2.8	15.8	21.2	21.4	20.2	16	8.6	-19.4
13	Office RTU 3	1.5	26.5	-17.5	2.7	15.7	21.1	21.3	20.1	15.9	8.5	-19.7
14	Office RTU 4	1.5	26.7	-17.4	2.8	15.9	21.2	21.4	20.2	16.1	8.7	-19.2
15	Out	2	39.4	2.3	19.4	21.6	27.9	32.1	34.9	33.9	28.1	4.4
16	Transformer / Inverter	3.7	18.7	-4.4	8.3	12.6	15.7	10.3	0.6	-9	-21.6	-52.3
17	Vent 1	4	34	-12.6	7.6	23.2	28.6	28.8	27.6	23.4	16.1	-11.7
18	Vent 2	4	24.8	-16	4.3	16.3	20.6	19.4	16.5	10.4	0.6	-30.2
Total SPL at POR3 [dBA]			**45.3**	**6.3**	**23.9**	**31.5**	**36.9**	**39.2**	**40.3**	**38.2**	**31.9**	**8.1**

Table 7 Calculated 1hr. Leq levels at POR4.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	22.6	-18.9	1	13.6	18.2	17.2	14.7	8.7	-2.2	-38.7
2	Exhaust 2	8	20.3	-19.2	0.5	12.6	16.4	14.7	11.3	4.2	-7.8	-45.8
3	Condensing Unit 1	1.5	34.6	-10.1	14.1	25.1	28.4	31.5	26.2	15.7	1.7	-30.1
4	Condensing Unit 2	1.5	34.6	-10.1	14.1	25.1	28.4	31.5	26.2	15.7	1.7	-30.1

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
5	Facade Louvre / Compressor	3.7	41.6	-3.8	12.4	24.4	32.7	35.8	36.5	35.6	25.6	-6.1
6	In	2	38.1	0.8	17.9	19.9	26.5	30.7	33.9	32.5	25.5	-0.2
7	Loading Bay Door 1	2	30.1	-28.2	-7	1	19.3	24.4	27.1	21.6	4.7	-32
8	Loading Bay Door 2	2	30.1	-28.2	-7	1	19.3	24.4	27.1	21.6	4.7	-31.9
9	MAU 1	1.5	27.7	-18.5	5.7	16.9	20.5	24.4	21.1	11.9	-2.2	-34.5
10	MAU 1	1.5	26.5	-18.7	5.5	16.6	20	23.4	18.6	9.3	-2.5	-35.1
11	Office RTU 1	1.5	26.1	-19.5	0.7	13.9	19.5	20.3	20.7	17.9	8.8	-25.4
12	Office RTU 2	1.5	24.8	-19.7	0.5	13.6	19	19.3	18.5	15.1	8.5	-26.1
13	Office RTU 3	1.5	24	-19.9	0.3	13.3	18.6	18.8	17.6	13.2	4.3	-29.9
14	Office RTU 4	1.5	24.4	-19.8	0.4	13.5	18.8	19.1	18	14	6.1	-26.6
15	Out	2	37.8	0.6	17.7	19.8	26.3	30.5	33.7	32.3	25.2	-0.8
16	Transformer / Inverter	3.7	30.3	1.2	15.4	21.4	26.7	25.5	18.2	10.6	-1.4	-36.1
17	Vent 1	4	32	-11.8	8.4	21.4	26.7	26.8	25.5	21	12.1	-21.5
18	Vent 2	4	31.9	-11.9	8.3	21.3	26.6	26.8	25.4	20.9	11.9	-21.9
Total SPL at POR4 [dBA]			**46.2**	**6.5**	**24.0**	**32.4**	**38.0**	**40.7**	**41.0**	**39.0**	**30.5**	**3.1**

Table 8 Calculated 1hr. Leq levels at POR5.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	19	-19.9	-0.4	11.6	15.2	13.1	9.3	1.8	-10.9	-50.4
2	Exhaust 2	8	15.9	-20.6	-1.6	9.5	12.2	9.5	5.3	-2.4	-15.5	-55.3
3	Condensing Unit 1	1.5	33.9	-10.8	13.3	24.4	27.7	30.8	25.4	14.7	0.1	-34.1
4	Condensing Unit 2	1.5	33.9	-10.8	13.3	24.4	27.7	30.8	25.4	14.7	0.1	-34.1
5	Facade Louvre / Compressor	3.7	42.1	-2.8	13.3	25.3	33.6	36.8	37.4	34.7	24.1	-10
6	In	2	36.8	-0.2	16.9	18.9	25.4	29.7	32.7	31.2	23.4	-5.5
7	Loading Bay Door 1	2	29.2	-29	-7.8	0.2	18.5	23.6	26.3	20.5	2.9	-36.3
8	Loading Bay Door 2	2	29.3	-28.9	-7.8	0.2	18.5	23.7	26.3	20.6	3	-36.1
9	MAU 1	1.5	26.9	-19.3	4.9	16.1	19.7	23.6	20.3	10.8	-4.1	-39
10	MAU 1	1.5	25.8	-19.4	4.8	15.9	19.3	22.6	17.8	8.5	-4.2	-39.4

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
11	Office RTU 1	1.5	25.3	-20.2	0	13.2	18.8	19.6	20	16.9	7.2	-29.4
12	Office RTU 2	1.5	24	-20.4	-0.2	12.9	18.3	18.6	17.8	14.3	6.9	-30.1
13	Office RTU 3	1.5	23.3	-20.6	-0.4	12.6	18	18.1	16.9	12.3	2.9	-33.2
14	Office RTU 4	1.5	23.6	-20.5	-0.3	12.8	18.1	18.4	17.3	13.1	4.9	-30.6
15	Out	2	36.7	-0.3	16.8	18.9	25.3	29.6	32.7	31.1	23.2	-6.0
16	Transformer / Inverter	3.7	30.7	2.2	16.3	22.3	27.6	24.8	17.4	9.7	-2.9	-40
17	Vent 1	4	31.3	-12.5	7.7	20.7	26	26.1	24.8	20.1	10.5	-25.4
18	Vent 2	4	31.2	-12.5	7.7	20.7	26	26.1	24.7	20	10.4	-25.7
Total SPL at POR5 [dBA]			**45.8**	**6.4**	**23.6**	**32.1**	**37.9**	**40.5**	**40.7**	**37.9**	**228.6**	**-1.9**

Table 9 Calculated 1hr. Leq levels at POR4 & POR 5 OLA.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	21	-19.6	0.2	12.6	16.9	15.5	12.4	5.6	-6.6	-45.9
2	Exhaust 2	8	18.3	-20	-0.5	11.2	14.5	12.3	8.5	0.9	-11.9	-52.2
3	Condensing Unit 1	1.5	33.9	-10.8	13.4	24.4	27.7	30.8	25.4	14.7	0.1	-34
4	Condensing Unit 2	1.5	33.9	-10.8	13.4	24.4	27.7	30.8	25.4	14.7	0.1	-34
5	Facade Louvre / Compressor	3.7	42.1	-4.4	11.7	23.8	33.7	36.8	37.4	34.7	24.1	-9.9
6	In	2	37.5	-0.1	17.0	19.0	25.6	30.3	33.5	32.0	24.1	-4.5
7	Loading Bay Door 1	2	29.3	-28.9	-7.8	0.3	18.6	23.7	26.3	20.6	3	-35.9
8	Loading Bay Door 2	2	29.3	-28.9	-7.7	0.3	18.6	23.7	26.4	20.6	3.1	-35.8
9	MAU 1	1.5	27	-19.2	5	16.2	19.8	23.7	20.5	10.9	-3.9	-38.6
10	MAU 1	1.5	25.8	-19.4	4.8	15.9	19.3	22.7	17.9	8.6	-4.1	-39.1
11	Office RTU 1	1.5	25.4	-20.2	0.1	13.2	18.8	19.6	20.1	17	7.2	-29.3
12	Office RTU 2	1.5	24.1	-20.4	-0.2	12.9	18.3	18.7	17.9	14.4	7	-30
13	Office RTU 3	1.5	23.3	-20.5	-0.4	12.7	18	18.1	16.9	12.4	3	-32.8
14	Office RTU 4	1.5	23.7	-20.4	-0.3	12.8	18.1	18.4	17.3	13.2	5.1	-30.4
15	Out	2	37.4	-0.2	16.9	19.0	25.4	30.1	33.5	31.9	24.0	-5.0
16	Transformer / Inverter	3.7	30.7	0.6	16.4	22.4	27.7	24.8	17.4	9.7	-2.9	-39.9

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
17	Vent 1	4	31.3	-12.5	7.7	20.7	26	26.2	24.8	20.1	10.6	-25.3
18	Vent 2	4	32.2	-12.5	7.7	20.7	26	27.5	26.2	21.4	11.7	-24.7
Total SPL at POR 4 & 5 OLA [dBA]			**46.0**	**5.8**	**23.5**	**31.9**	**38.0**	**40.7**	**41.1**	**38.3**	**29.1**	**-1.0**

Table 10 Calculated 1hr. Leq levels at POR6.

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	16.1	-21.8	-2.4	9.3	12.5	9.9	5.6	-2.6	-17.5	-64.8
2	Exhaust 2	8	13	-22.6	-3.8	7	9.3	6.4	1.9	-6.5	-21.5	-68.9
3	Condensing Unit 1	1.5	31.7	-12.8	11.4	22.3	25.6	28.6	23.1	11.8	-4.9	-46.7
4	Condensing Unit 2	1.5	31.7	-12.8	11.4	22.3	25.6	28.6	23.1	11.8	-4.9	-46.7
5	Facade Louvre / Compressor	3.7	39.9	-4.7	11.5	23.5	31.7	34.7	35.2	32	19.2	-22.5
6	In	2	34.2	-2.5	14.7	16.6	23.0	27.3	30.3	28.2	18.2	-19.1
7	Loading Bay Door 1	2	26.9	-31	-9.8	-1.8	16.4	21.5	23.9	17.7	-2.1	-49.1
8	Loading Bay Door 2	2	27	-30.9	-9.8	-1.8	16.5	21.5	24	17.7	-2	-48.8
9	MAU 1	1.5	24.9	-21.3	3	14.1	17.7	21.6	18.5	7.9	-9.1	-51.8
10	MAU 1	1.5	23.8	-21.4	2.9	13.9	17.3	20.6	15.8	6.5	-9.2	-52
11	Office RTU 1	1.5	23.3	-22.2	-1.9	11.2	16.8	17.6	18.2	14.1	2.2	-42.1
12	Office RTU 2	1.5	22	-22.3	-2.1	10.9	16.3	16.7	15.8	12.3	2	-42.7
13	Office RTU 3	1.5	21.5	-22.5	-2.3	10.8	16.1	16.3	15.1	10.5	0.8	-43.6
14	Office RTU 4	1.5	21.6	-22.4	-2.2	10.8	16.1	16.4	15.2	10.8	1.8	-43.2
15	Out	2	34.0	-2.6	14.5	16.5	23.0	27.1	30.1	28.0	17.9	-19.5
16	Transformer / Inverter	3.7	28.7	0.3	14.5	20.5	25.7	22.7	15.2	7	-7.8	-52.5
17	Vent 1	4	29.2	-14.3	5.9	18.8	24.1	24.1	22.6	17.3	5.7	-37.9
18	Vent 2	4	29.2	-14.3	5.8	18.8	24.1	24.1	22.6	17.3	5.6	-38
Total SPL at POR6 [dBA]			**43.5**	**4.4**	**21.5**	**30.1**	**35.9**	**38.4**	**38.5**	**35.0**	**23.6**	**-15.3**

Table 11 Calculated 1hr. Leq levels at POR7

Source	Source Description	Source Height (m)	dB(A)	Frequency								
				31 Hz	63 Hz	125 Hz	250 Hz	500 Hz	1.0 kHz	2.0 kHz	4.0 kHz	8.0 kHz
1	Exhaust 1	8	23.3	-20.3	-0.2	12.8	18	18.6	16.8	10.7	-3.6	-56.1
2	Exhaust 2	8	21.2	-22.2	-2.1	10.9	16	16.5	14.3	7.7	-7.3	-61.4
3	Condensing Unit 1	1.5	27.6	-16.8	7.1	17.9	21	24.8	18.9	6.7	-13	-64.3
4	Condensing Unit 2	1.5	27.6	-16.8	7.1	17.9	20.9	24.8	18.9	6.6	-13.1	-64.6
5	Facade Louvre / Compressor	3.7	33	-11.4	4.5	16.2	24.2	28.4	28.6	24.5	9.1	-41.8
6	In	2	33.0	-4.3	12.6	14.4	20.8	26.8	29.3	26.5	14.3	-29.9
7	Loading Bay Door 1	2	25.4	-32.6	-11.4	-3.5	14.7	20.2	22.5	15.6	-6.4	-61.4
8	Loading Bay Door 2	2	25.4	-32.6	-11.4	-3.5	14.7	20.2	22.5	15.6	-6.4	-61.5
9	MAU 1	1.5	24.6	-22.9	1.4	12.6	16.2	21.8	18.3	6.4	-12.9	-63.6
10	MAU 1	1.5	23.5	-23	1.2	12.3	15.6	21.1	16	6.2	-13.1	-64.3
11	Office RTU 1	1.5	22.6	-23.9	-3.6	9.5	15.1	17.7	18.1	12.4	-1.9	-54.7
12	Office RTU 2	1.5	21.6	-24	-3.8	9.2	14.6	17	15.9	12	-2.1	-55.4
13	Office RTU 3	1.5	20.9	-24.1	-4	9	14.3	16.6	15.1	9.6	-3.4	-56.3
14	Office RTU 4	1.5	21.2	-24.1	-3.9	9.1	14.4	16.8	15.5	10.5	-2.3	-55.7
15	Out	2	32.9	-4.4	12.6	14.5	20.7	26.7	29.3	26.4	14.1	-30.6
16	Transformer / Inverter	3.7	21.6	-6.4	7.5	13.2	18.2	16.4	8.6	-0.5	-17.9	-71.8
17	Vent 1	4	25.2	-18.2	1.7	14.5	19.6	20.5	18.8	12.8	-1.3	-53.6
18	Vent 2	4	24.7	-18.2	1.7	14.4	19.3	20.1	18.1	11.8	-2.7	-55.8
Total SPL at POR7 [dBA]			**40.0**	**0.6**	**18.1**	**26.0**	**31.3**	**35.2**	**35.4**	**31.4**	**18.2**	**-27.0**

Table 12 Calculated 1hr. Leq levels Overall dBA – all POR.

Source	Source Description	POR 1 SPL (dBA)	POR 1 OLA SPL (dBA	POR 2 SPL (dBA)	POR 2 OLA SPL (dBA)	POR 3 SPL (dBA	POR 4 SPL (dBA)	POR 5 SPL (dBA)	POR 4 & 5 OLA SPL (dBA)	POR 6 SPL (dBA)	POR 7 SPL (dBA)
1	Exhaust 1	33.2	32	34.1	19.4	33.7	22.6	19	21	16.1	23.3
2	Exhaust 2	32.7	31.6	33.7	19.1	33.4	20.3	15.9	18.3	13	21.2
3	Condensing Unit 1	34.9	29.1	27.6	13.5	25.1	34.6	33.9	33.9	31.7	27.6

Source	Source Description	POR 1 SPL (dBA)	POR 1 OLA SPL (dBA	POR 2 SPL (dBA)	POR 2 OLA SPL (dBA)	POR 3 SPL (dBA	POR 4 SPL (dBA)	POR 5 SPL (dBA)	POR 4 & 5 OLA SPL (dBA)	POR 6 SPL (dBA)	POR 7 SPL (dBA)
4	Condensing Unit 2	34.9	33.8	26.3	13.4	23.2	34.6	33.9	33.9	31.7	27.6
5	Facade Louvre / Compressor	32.9	31.3	28.7	18.3	26.6	41.6	42.1	42.1	39.9	33
6	In	41.8	38.4	40.5	33.0	39.7	38.1	36.8	37.5	34.2	33.0
7	Loading Bay Door 1	33.3	32.1	33.4	13.5	32.9	30.1	29.2	29.3	26.9	25.4
8	Loading Bay Door 2	33.2	32	33.2	13.4	32.6	30.1	29.3	29.3	27	25.4
9	MAU 1	30.2	29.2	29.8	21.1	29.3	27.7	26.9	27	24.9	24.6
10	MAU 1	29.1	28.1	29.2	20.8	28.8	26.5	25.8	25.8	23.8	23.5
11	Office RTU 1	28.3	27.4	27.4	18.9	26.7	26.1	25.3	25.4	23.3	22.6
12	Office RTU 2	27.1	26.1	27.1	18.8	26.6	24.8	24	24.1	22	21.6
13	Office RTU 3	26.7	25.7	26.9	17.8	26.5	24	23.3	23.3	21.5	20.9
14	Office RTU 4	26.9	25.9	27.1	18.1	26.7	24.4	23.6	23.7	21.6	21.2
15	Out	41.6	38.1	40.6	32.4	39.4	37.8	36.7	37.4	34.0	32.9
16	Transformer / Inverter	23.4	22.1	20.4	9.4	18.7	30.3	30.7	30.7	28.7	21.6
17	Vent 1	34.6	33.6	34.5	18.3	34	32	31.3	31.3	29.2	25.2
18	Vent 2	34.4	33.4	34.3	18.1	24.8	31.9	31.2	32.2	29.2	24.7
Total SPL at POR's [dBA]		**47.5**	**45.1**	**46.3**	**36.7**	**45.3**	**46..2**	**45.8**	**46.0**	**43.5**	**40.0**

Table 13 Acoustic Assessment Summary.

Receptor	Calculated 1 h L_{eq} (dBA) Day & Evening	Verified by Acoustic Audit	MECP noise requirements			Cumulative Sound Levels including site equipment (dBA)			Compliance with Applicable sound level limit
			Day	Evening	Night	Day	Evening	Night	
POR1	47.5	no	50	50	45	47.5	45.2	n/a	Yes
POR1 OLA	45.1(43.4)	no	50	50	45	45.1	43.4	n/a	Yes
POR2	46.3(44.2)	no	50	50	45	46.3	44.2	n/a	Yes
POR2 OLA	36.7(32.9)	no	50	50	45	36.7	32.9	n/a	Yes

Receptor	Calculated 1 h L_{eq} (dBA) Day & Evening	Verified by Acoustic Audit	MECP noise requirements			Cumulative Sound Levels including site equipment (dBA)			Compliance with Applicable sound level limit
			Day	Evening	Night	Day	Evening	Night	
POR3	45.3(43.0)	no	50	50	45	45.3	43.0	n/a	Yes
POR4	46.2(45.1)	no	50	50	45	46.2	45.1	n/a	Yes
POR5	45.8(44.9)	no	50	50	45	45.8	44.9	n/a	Yes
POR4&5 OLA	46.0(45.0)	no	50	50	45	46.0	45.0	n/a	Yes
POR6	43.5(42.7)	no	50	50	45	43.5	42.7	n/a	Yes
POR7	40.0(38.5)	no	50	50	45	40.0	38.5	n/a	Yes

Table 14 Impulse Noise, dBAI Acoustic Assessment Summary.

Receptor	Verified by Acoustic Audit	MECP noise requirements (3 to 4 events)			Impulse noise level of trucks coupling and decoupling dBAI-mitigated			Compliance with Applicable sound level limit
		Day	Evening	Night	Day	Evening	Night	
POR1	no	65	65	60	51.8	51.5	n/a	Yes
POR1 OLA	no	65	65	60	55.6	55.4	n/a	Yes
POR2	no	65	65	60	53.7	53.6	n/a	Yes
POR2 OLA	no	65	65	60	53.4	53.1	n/a	Yes
POR3	no	65	65	60	52.9	52.6	n/a	Yes
POR4	no	65	65	60	51.7	51.4	n/a	Yes
POR5	no	65	65	60	51.3	51.0	n/a	Yes
POR4&5 OLA	no	65	65	60	49.0	48.8	n/a	Yes
POR6	no	65	65	60	48.4	48.1	n/a	Yes
POR7	no	65	65	60	59.4	59.2	n/a	Yes

APPENDIX B: Figures, Zoning Map and Raw Sound data

Figure 4 - Noise Model set up - Location of the significant noise sources

Figure 5 - Noise Model set up - Location of the significant noise sources – Impulse noise coupling and decoupling

Figure 6 – Receptor Locations

Figure 7 - Noise Model set up – LAeq,1hr – Daytime 1.5m above ground level

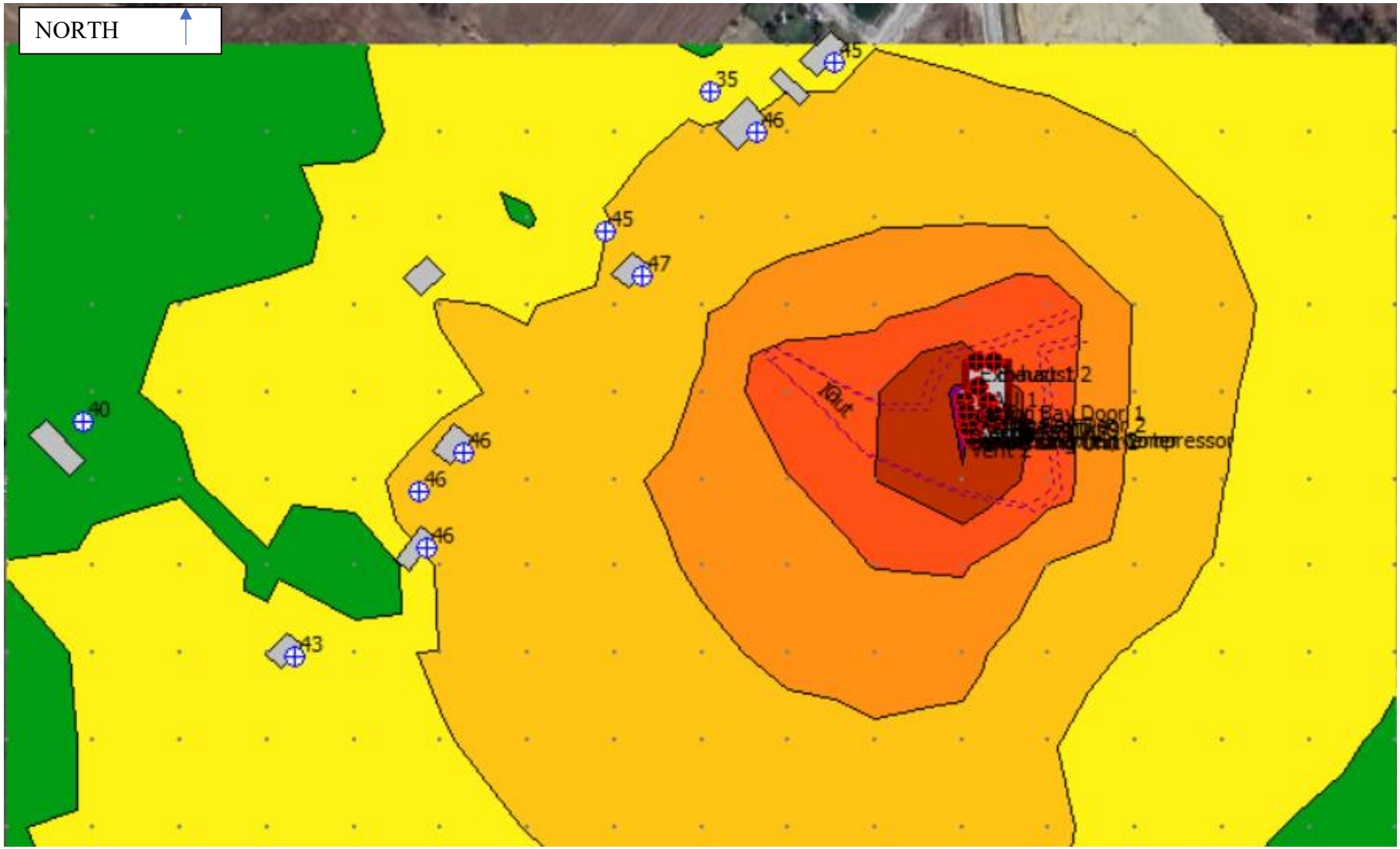
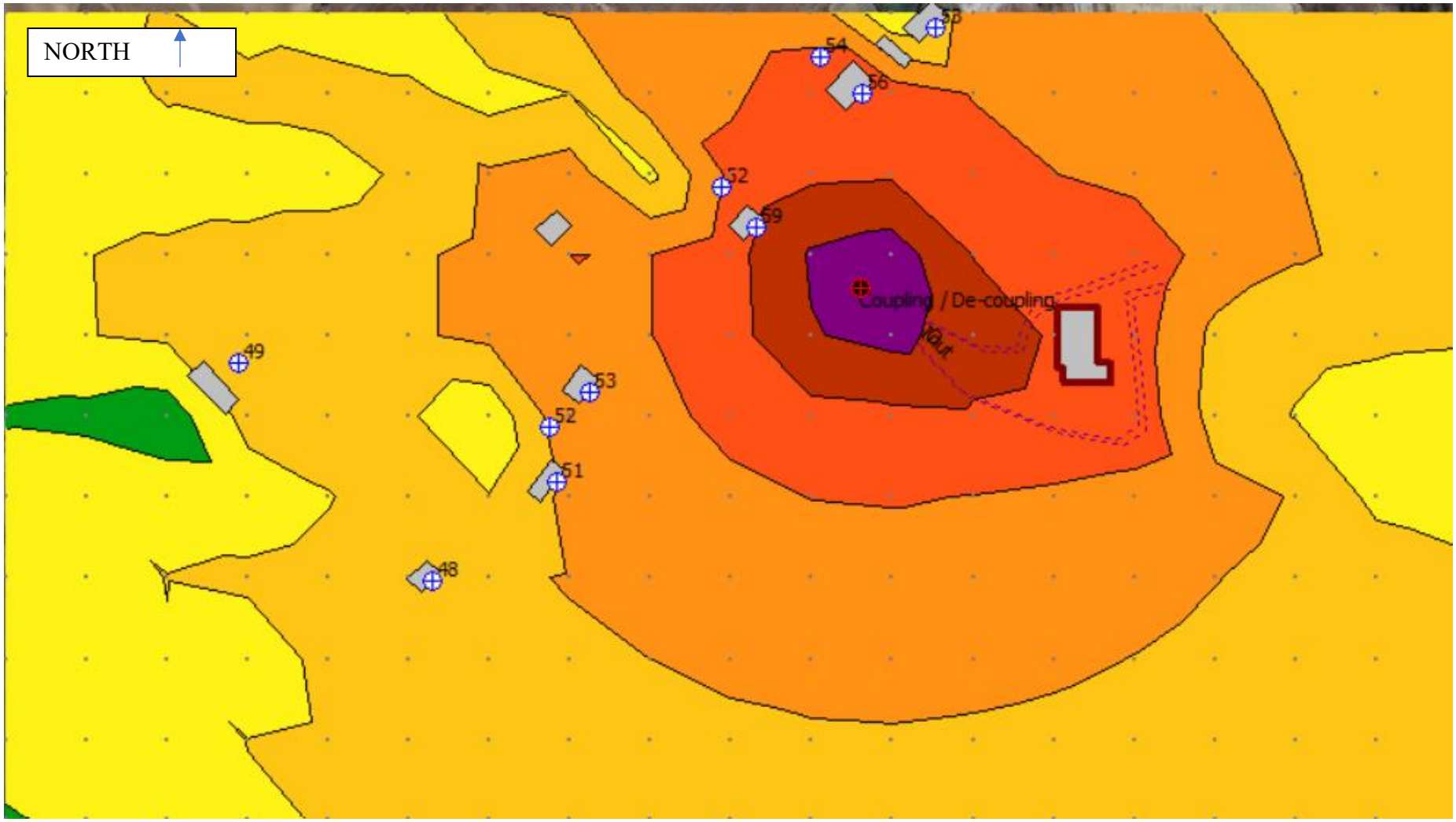
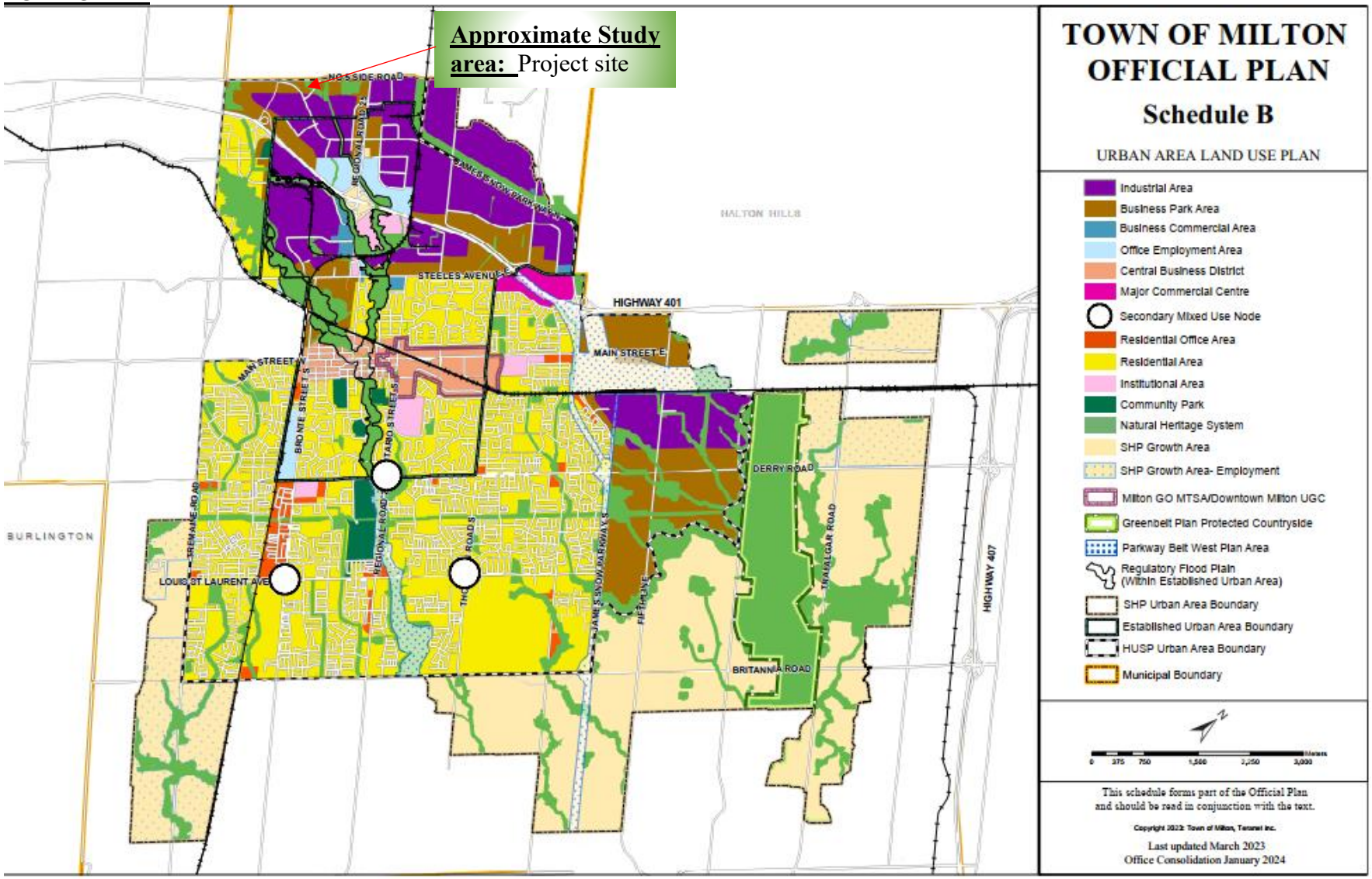


Figure 8 - Noise Model set up – dBAI – Daytime 4.5 above ground level



ZONING MAP


Approximate Study area: Project site
NO. 5 SIDE ROAD
STEELES AVENUE
HIGHWAY 401
MAIN STREET E
MAIN STREET S
BRONTE STREET S
TAVO STREET S
REGIONAL ROAD
THOMPSON ROAD S
JAMES SNOW PARKWAY
DERRY ROAD
TRAFALGAR ROAD
HIGHWAY 407
BRITANNIA ROAD
LOUIS ST LAURENT AVE
BURLINGTON
HALTON HILLS
TOWN OF MILTON
OFFICIAL PLAN
Schedule B
URBAN AREA LAND USE PLAN
Industrial Area
Business Park Area
Business Commercial Area
Office Employment Area
Central Business District
Major Commercial Centre
Secondary Mixed Use Node
Residential Office Area
Residential Area
Institutional Area
Community Park
Natural Heritage System
SHP Growth Area
SHP Growth Area- Employment
Milton GO MTSA/Downtown Milton UGC
Greenbelt Plan Protected Countryside
Parkway Belt West Plan Area
Regulatory Flood Plain (Within Established Urban Area)
SHP Urban Area Boundary
Established Urban Area Boundary
HUSP Urban Area Boundary
Municipal Boundary
0 375 750 1,500 2,250 3,000 Metres
This schedule forms part of the Official Plan and should be read in conjunction with the text.
Last updated March 2023
Office Consolidation January 2024

Appendix C - STAMSON SAMPLE CACLUATIONS AND TRAFFIC DATA

Figure 1C: 1hour road traffic counts for existing site conditions in 2025

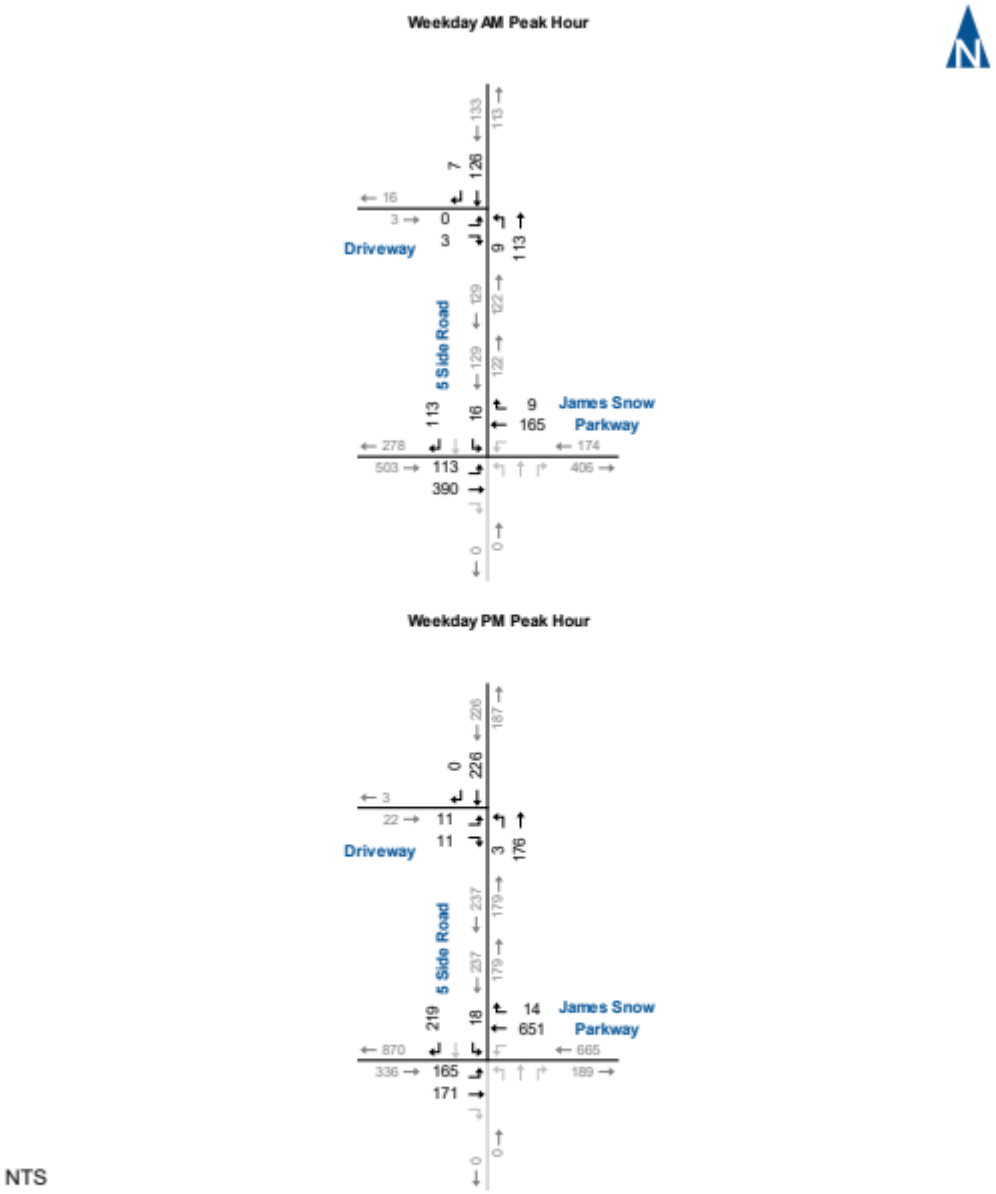


Figure 2C: 1hour road traffic counts for site generated traffic volumes

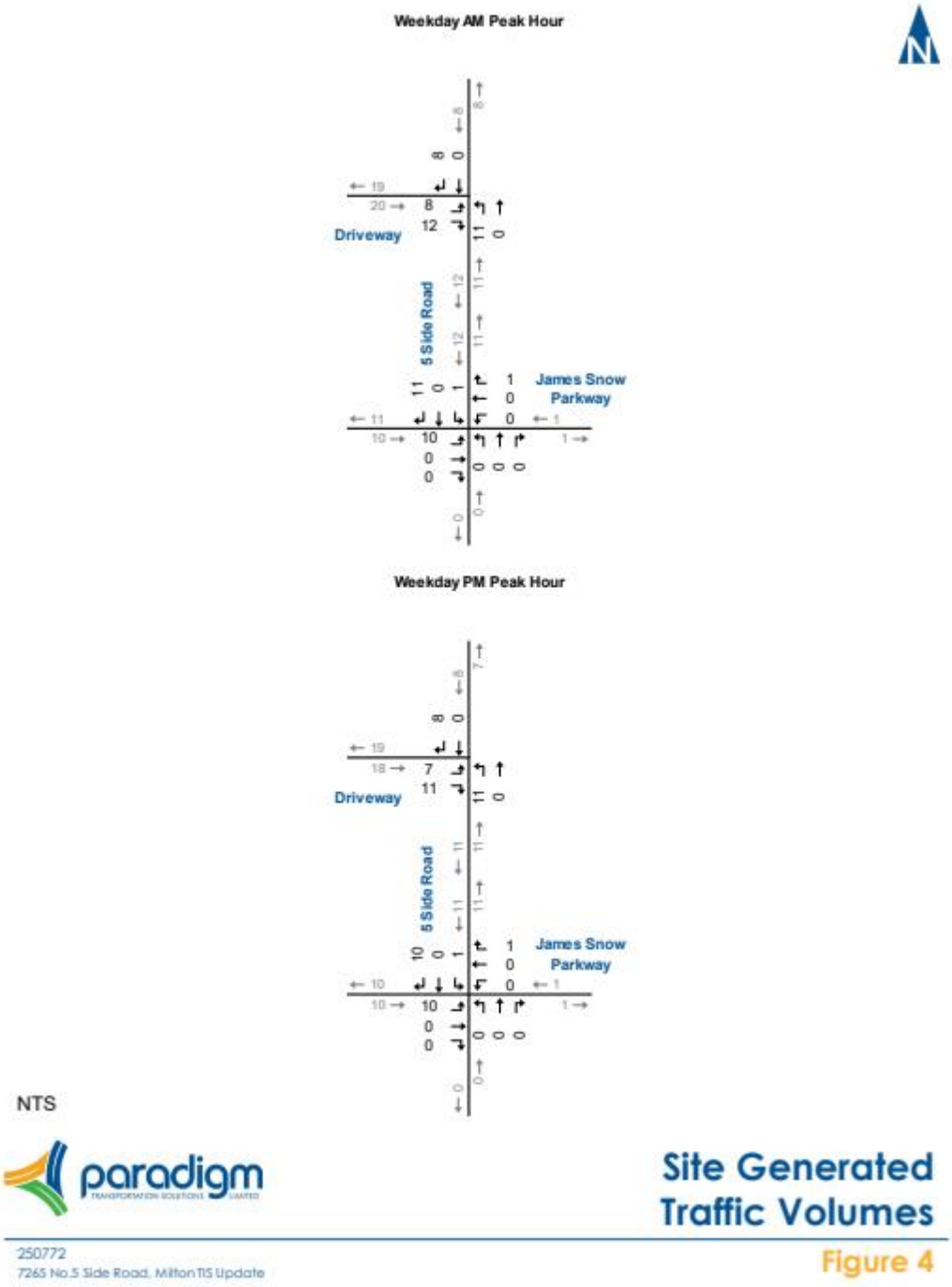


Figure 3C: 1hour road traffic counts for 2030 background traffic volumes

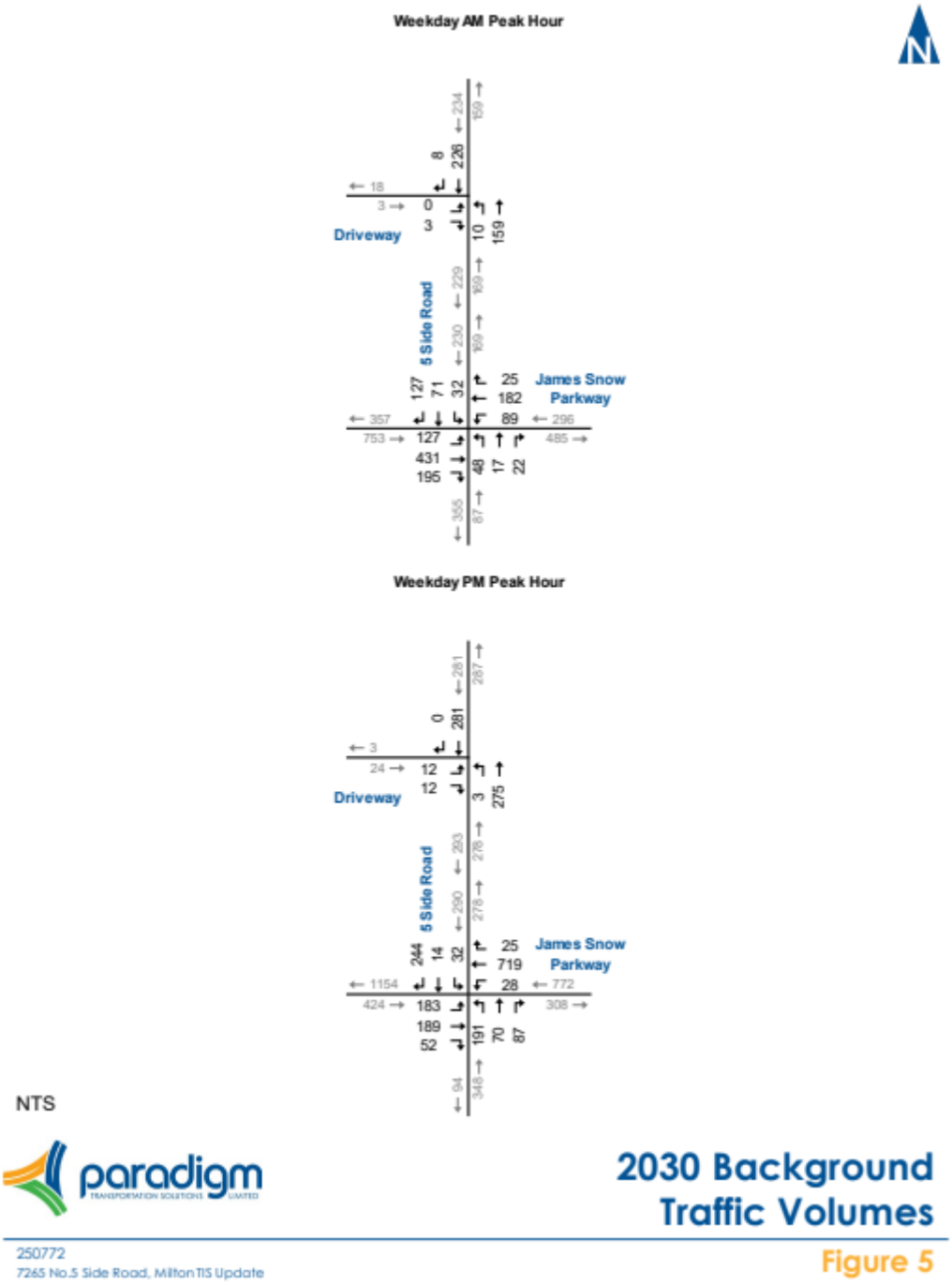
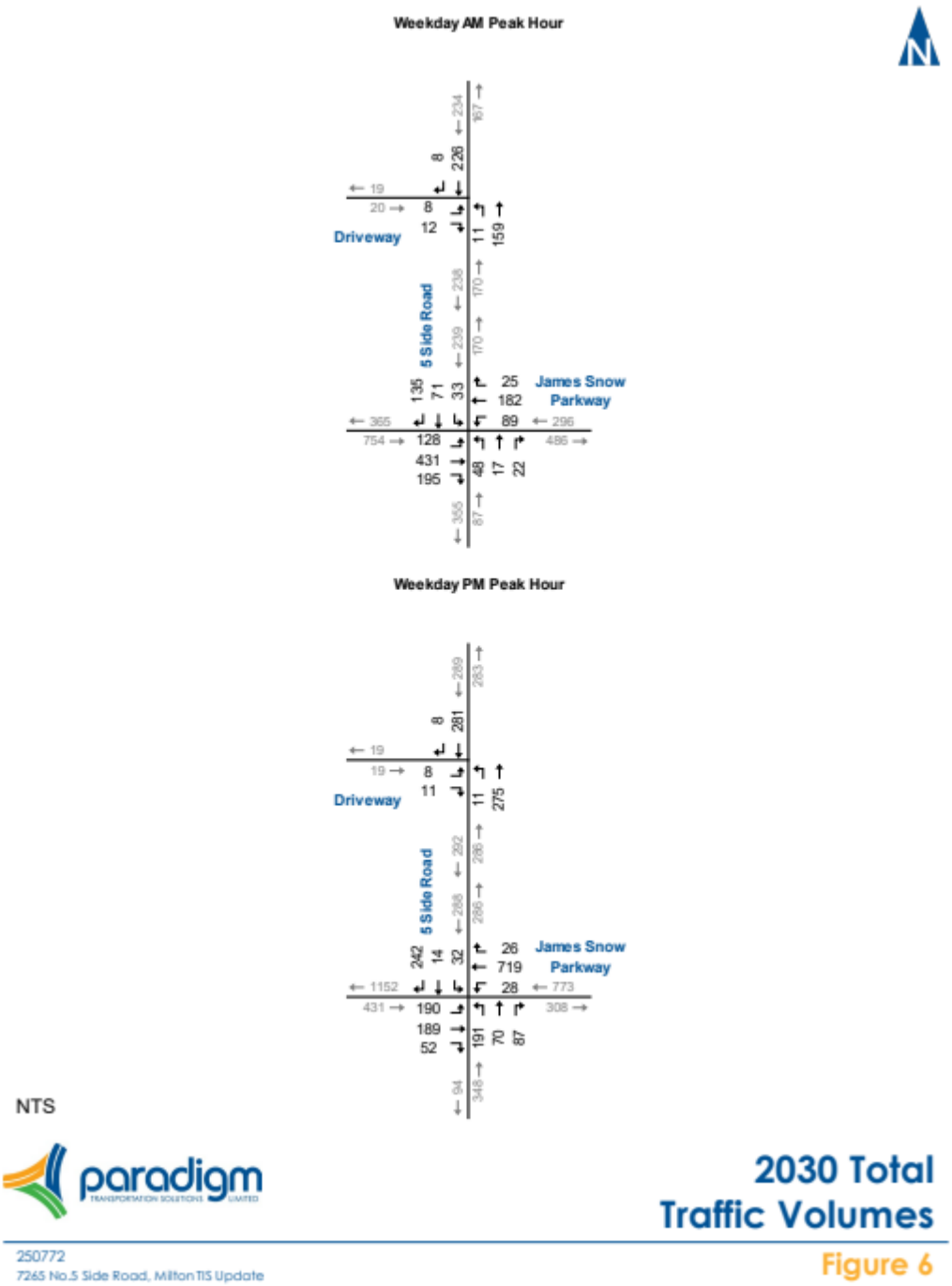


Figure 4C: 1hour road traffic counts for 2030 total traffic volumes



1hr vehicle movements at AM BASELINE 2025 : TRAFFIC NOISE CALCULATIONS

```
STAMSON 5.0         NORMAL REPORT         Date: 16-02-2026 18:04:46
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT

Filename: am2025.te             Time Period: 1 hours
Description:


Road data, segment # 1: Line 5 North
----------------------------------
Car traffic volume  :   246 veh/TimePeriod
Medium truck volume :    25 veh/TimePeriod
Heavy truck volume  :    25 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 1: Line 5 North
----------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00Road data, segment # 2: Line 5 South
----------------------------------
Car traffic volume  :   251 veh/TimePeriod
Medium truck volume :    25 veh/TimePeriod
Heavy truck volume  :    25 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 2: Line 5 South
----------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00
```

```
Road data, segment # 3: JSP West
------------------------------
Car traffic volume  :   781 veh/TimePeriod
Medium truck volume :    78 veh/TimePeriod
Heavy truck volume  :    78 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 3: JSP West
------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00

Road data, segment # 4: JSP East
------------------------------
Car traffic volume  :   580 veh/TimePeriod
Medium truck volume :    58 veh/TimePeriod
Heavy truck volume  :    58 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 4: JSP East
------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00

Results segment # 1: Line 5 North
---------------------------------

Source height = 1.70 m

ROAD (0.00 + 48.92 + 0.00) = 48.92 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  66.90   0.00 -16.54  -1.45   0.00   0.00   0.00  48.92
-------------------------------------------------------------------------------
Segment Leq : 48.92 dBA

Results segment # 2: Line 5 South
---------------------------------
```

```
Source height = 1.70 m

ROAD (0.00 + 48.93 + 0.00) = 48.93 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  66.91   0.00 -16.54  -1.45   0.00   0.00   0.00  48.93
-------------------------------------------------------------------------------

Segment Leq : 48.93 dBA

Results segment # 3: JSP West
------------------------------

Source height = 1.70 m

ROAD (0.00 + 53.87 + 0.00) = 53.87 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  71.85   0.00 -16.54  -1.45   0.00   0.00   0.00  53.87
-------------------------------------------------------------------------------

Segment Leq : 53.87 dBA

Results segment # 4: JSP East
------------------------------

Source height = 1.70 m

ROAD (0.00 + 52.58 + 0.00) = 52.58 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  70.57   0.00 -16.54  -1.45   0.00   0.00   0.00  52.58
-------------------------------------------------------------------------------

Segment Leq : 52.58 dBA

Total Leq All Segments: 57.64 dBA
TOTAL Leq FROM ALL SOURCES:       57.64
```

1hr vehicle movements at AM BASELINE+ New Terminal 2025 : TRAFFIC NOISE CALCULATIONS

```
STAMSON 5.0         NORMAL REPORT         Date: 16-02-2026 18:05:01
MINISTRY OF ENVIRONMENT AND ENERGY / NOISE ASSESSMENT
Filename: am2025n.te            Time Period: 1 hours
Description:

Road data, segment # 1: Line 5 North
-----------------------------------
Car traffic volume  :   258 veh/TimePeriod
Medium truck volume :    29 veh/TimePeriod
Heavy truck volume  :    48 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 1: Line 5 North
-----------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00

Road data, segment # 2: Line 5 South
-----------------------------------
Car traffic volume  :   263 veh/TimePeriod
Medium truck volume :    29 veh/TimePeriod
Heavy truck volume  :    48 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 2: Line 5 South
-----------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00
```

```
Road data, segment # 3: JSP West
-------------------------------
Car traffic volume  :   793 veh/TimePeriod
Medium truck volume :    82 veh/TimePeriod
Heavy truck volume  :   101 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 3: JSP West
-------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00

Road data, segment # 4: JSP East
-------------------------------
Car traffic volume  :   592 veh/TimePeriod
Medium truck volume :    62 veh/TimePeriod
Heavy truck volume  :    81 veh/TimePeriod
Posted speed limit  :    60 km/h
Road gradient       :     0 %
Road pavement       :     1 (Typical asphalt or concrete)

Data for Segment # 4: JSP East
-------------------------------
Angle1   Angle2           : -90.00 deg   90.00 deg
Wood depth                :      0       (No woods.)
No of house rows          :      0
Surface                   :      1       (Absorptive ground surface)
Receiver source distance  : 150.00 m
Receiver height           :   1.50 m
Topography                :      1       (Flat/gentle slope; no barrier)
Reference angle           :   0.00

Results segment # 1: Line 5 North
---------------------------------

Source height = 1.95 m

ROAD (0.00 + 51.20 + 0.00) = 51.20 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  69.10   0.00 -16.47  -1.43   0.00   0.00   0.00  51.20
-------------------------------------------------------------------------------

Segment Leq : 51.20 dBA

Results segment # 2: Line 5 South
```

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

Source height = 1.94 m

ROAD (0.00 + 51.20 + 0.00) = 51.20 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  69.11   0.00 -16.47  -1.43   0.00   0.00   0.00  51.20
-------------------------------------------------------------------------------

Segment Leq : 51.20 dBA

Results segment # 3: JSP West
------------------------------

Source height = 1.79 m

ROAD (0.00 + 54.73 + 0.00) = 54.73 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  72.68   0.00 -16.51  -1.44   0.00   0.00   0.00  54.73
-------------------------------------------------------------------------------

Segment Leq : 54.73 dBA

Results segment # 4: JSP East
------------------------------

Source height = 1.82 m

ROAD (0.00 + 53.70 + 0.00) = 53.70 dBA
Angle1 Angle2  Alpha RefLeq  P.Adj  D.Adj  F.Adj  W.Adj  H.Adj  B.Adj SubLeq
-------------------------------------------------------------------------------
   -90     90   0.65  71.65   0.00 -16.50  -1.44   0.00   0.00   0.00  53.70
-------------------------------------------------------------------------------

Segment Leq : 53.70 dBA
Total Leq All Segments: 59.00 dBA
TOTAL Leq FROM ALL SOURCES:       59.00
```

SAMPLE iNoise Calculations (ISO 9613)

```
================================================================================
========
Testfile openend: 2026-02-16 6:09:53 PM
================================================================================
========


================================================================================
========
>>> CALCULATION SPECIFICATION
Version                : 3.60 (64-bit)
Mapname                : Stationary
MethodID               : 513
Model bounds - Min     : (-137.18, 524.94)
Model bounds - Max     : (928.05, 1281.77)
Min. ground level      : 0.00
CalcTestLevel          : 6
Do Shape Export        : No
Fetching radius        : 5000.00
ErrorMargin            : 0.00
Max.reflection distance: --
Max.reflection depth   : 1
Meteo correction       : None
Max.barrier attenuation: According to standard
Dmax1 / Dmax2          : 20.00 / 25.00
Full DTM               : Yes
Ground attenuation     : Avoid overestimating screening effect
Barrier attenuation    : According to ISO 9613-2:1996; also for direct sight
DIcalculation          : No
TemperatureK           : 283.15
Humidity               : 70.00
Pressure               : 101.33
GroundAttAlternative   : No
SpeedOfSound           : 337.30
Alu                    : 0.032 \ 0.122 \ 0.411 \ 1.043 \ 1.928 \ 3.658 \ 9.664
\ 32.770 \ 116.882
================================================================================
========


--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-64

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-64         267.032      606.13      990.39      0.00
2.00      0.00
--------------------------------------------------------------------------------
--------
```

```
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.82   -4.82   -4.82   -4.82   -4.82   -4.82   -4.82   -4.82
-4.82

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.28    0.51    0.98    2.58    8.75
31.21
A(geo)             59.52   59.52   59.52   59.52   59.52   59.52   59.52   59.52
59.52
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                1.89   19.06   21.09   27.42   31.58   34.32   32.92   25.55
-4.01 |    38.59

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-64
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             224.058      555.30      967.26      0.00
8.60      0.00
Pointsource     Id=-64        279.902      606.13      990.39      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87
-4.87

A(barrier)          3.15    0.53    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00

A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(air)              0.01    0.03    0.12    0.29    0.54    1.02    2.70    9.17
32.72
A(geo)             59.93   59.93   59.93   59.93   59.93   59.93   59.93   59.93
59.93
A(refl)              --      --      --      --      --      --      --   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                 --      --      --      --      --      --      --   23.80
-6.84 |    23.80

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-63

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-63         246.838      583.36      981.24      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.72   -4.72   -4.72   -4.72   -4.72   -4.72   -4.72   -4.72
-4.72

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.26    0.48    0.90    2.39    8.09
28.85
A(geo)             58.84   58.84   58.84   58.84   58.84   58.84   58.84   58.84
58.84
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                2.48   19.65   21.68   28.03   32.21   34.98   33.70   26.79
-1.07 |    39.30

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-63
[Reflection in facade 4 (Id=13)]
```

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Building(R)	4	221.694	552.75	967.15	0.00	8.60	0.00	
Pointsource	Id=-63	255.384	583.36	981.24	0.00	2.00	0.00	

L(wr)	56.60	73.80	75.90	82.40	86.80	90.00	90.20	89.00
81.90								
A(ground)	-4.77	-4.77	-4.77	-4.77	-4.77	-4.77	-4.77	-4.77
-4.77								
A(barrier)	2.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(sit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(bld)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(air)	0.01	0.03	0.10	0.27	0.49	0.93	2.47	8.37
29.85								
A(geo)	59.14	59.14	59.14	59.14	59.14	59.14	59.14	59.14
59.14								
A(refl)	--	--	--	--	--	--	-0.97	-0.97
-0.97								
C(meteo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								

L(p)	--	--	--	--	--	--	32.39	25.29
-3.29 |	33.17							

Cross section for receiver 1 (Id=-71) and source Id=-62

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Pointsource	Id=-62	226.554	560.07	973.57	0.00	2.00	0.00	

L(wr)	56.60	73.80	75.90	82.40	86.80	90.00	90.20	89.00
81.90								
A(ground)	-4.61	-4.61	-4.61	-4.61	-4.61	-4.61	-4.61	-4.61
-4.61								

```
A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.09    0.24    0.44    0.83    2.19    7.42
26.48
A(geo)             58.10   58.10   58.10   58.10   58.10   58.10   58.10   58.10
58.10
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                3.11   20.29   22.32   28.68   32.88   35.69   34.52   28.09
1.93 |    40.06

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-61

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-61        211.559      539.97      962.14      0.00
2.00      0.00
--------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.51   -4.51   -4.51   -4.51   -4.51   -4.51   -4.51   -4.51
-4.51

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.09    0.22    0.41    0.77    2.04    6.93
24.73
A(geo)             57.50   57.50   57.50   57.50   57.50   57.50   57.50   57.50
57.50
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                3.60   20.78   22.82   29.19   33.40   36.24   35.17   29.08
4.18 |    40.66
```

```
-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-60

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-60         212.872      530.65      939.63      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.52   -4.52   -4.52   -4.52   -4.52   -4.52   -4.52   -4.52
-4.52

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.09    0.22    0.41    0.78    2.06    6.98
24.88
A(geo)            57.55   57.55   57.55   57.55   57.55   57.55   57.55   57.55
57.55
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)               3.56   20.74   22.78   29.14   33.36   36.19   35.11   28.99
3.98 |    40.60

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-60
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             227.221      552.28      951.05      0.00
8.60      0.00
Pointsource     Id=-60         251.674      530.65      939.63      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
```

```
A(ground)          -4.75   -4.75   -4.75   -4.75   -4.75   -4.75   -4.75   -4.75
-4.75

A(barrier)          0.64    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.26    0.49    0.92    2.43    8.25
29.42
A(geo)             59.01   59.01   59.01   59.01   59.01   59.01   59.01   59.01
59.01
A(refl)              --      --      --      --    -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                 --      --      --      --    31.09   33.85   32.54   25.52
-2.75 |    37.68

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-59

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-59        191.413      506.43      940.75      0.00
2.00      0.00
--------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.35   -4.35   -4.35   -4.35   -4.35   -4.35   -4.35   -4.35
-4.35

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.02    0.08    0.20    0.37    0.70    1.85    6.27
22.37
A(geo)             56.63   56.63   56.63   56.63   56.63   56.63   56.63   56.63
56.63
```

```
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)               4.32   21.50   23.54   29.92   34.15   37.02   36.07   30.45
7.25 |    41.51

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-59
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             222.603      551.87      962.19      0.00
8.60      0.00
Pointsource     Id=-59        272.853      506.43      940.75      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.85   -4.85   -4.85   -4.85   -4.85   -4.85   -4.85   -4.85
-4.85

A(barrier)         2.97    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.11    0.28    0.53    1.00    2.64    8.94
31.89
A(geo)            59.71   59.71   59.71   59.71   59.71   59.71   59.71   59.71
59.71
A(refl)             --      --      --      --    -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                --      --      --      --    30.44   33.17   31.73   24.22
-5.83 |    36.93

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-58

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
```

```
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-58        167.010      484.42      951.61      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.11   -4.11   -4.11   -4.11   -4.11   -4.11   -4.11   -4.11
-4.11

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.02    0.07    0.17    0.32    0.61    1.61    5.47
19.52
A(geo)            55.45   55.45   55.45   55.45   55.45   55.45   55.45   55.45
55.45
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)               5.26   22.45   24.50   30.89   35.14   38.06   37.25   32.19
11.05 |    42.63

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-57

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-57        142.553      462.96      963.50      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -3.79   -3.79   -3.79   -3.79   -3.79   -3.79   -3.79   -3.79
-3.79

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.00    0.02    0.06    0.15    0.27    0.52    1.38    4.67
16.66
A(geo)             54.07   54.07   54.07   54.07   54.07   54.07   54.07   54.07
54.07
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                6.31   23.50   25.56   31.97   36.24   39.20   38.54   34.05
14.96 |    43.87

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-56

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        1              19.502      359.80     1030.64      0.00
8.00      0.00         2
Building        1              31.524      369.42     1023.43      0.00
8.00      0.00         2
Pointsource     Id=-56        121.299      441.24      969.56      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -3.40   -3.40   -3.40   -3.40   -3.40   -3.40   -3.40   -3.40
-3.40

A(barrier)          2.36    3.10    3.87    4.46    4.78    5.04    5.40    5.98
6.95
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.00    0.01    0.05    0.13    0.23    0.44    1.17    3.98
14.18
A(geo)             52.67   52.67   52.67   52.67   52.67   52.67   52.67   52.67
52.67
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                4.97   21.42   22.71   28.55   32.52   35.25   34.36   29.78
11.51 |    39.95
```

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-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-55

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        1              19.464      359.47     1030.27      0.00
8.00      0.00         2
Building        1              32.079      369.36     1022.44      0.00
8.00      0.00         2
Pointsource     Id=-55         142.458      455.92      953.95      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -3.79   -3.79   -3.79   -3.79   -3.79   -3.79   -3.79   -3.79
-3.79

A(barrier)         2.32    3.12    4.07    5.18    6.54    8.23   10.29   12.59
15.05
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.00    0.02    0.06    0.15    0.27    0.52    1.38    4.67
16.65
A(geo)            54.07   54.07   54.07   54.07   54.07   54.07   54.07   54.07
54.07
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)               4.00   20.39   21.49   26.79   29.71   30.97   28.26   21.47
-0.08 |    35.71

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-54

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        1              19.449      359.28     1030.06      0.00
8.00      0.00         2
Building        1              32.052      369.06     1022.11      0.00
8.00      0.00         2
Pointsource     Id=-54         166.892      473.63      936.98      0.00
2.00      0.00
```

```
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.11   -4.11   -4.11   -4.11   -4.11   -4.11   -4.11   -4.11
-4.11

A(barrier)          2.29    3.12    4.21    5.67    7.52    9.68   12.10   14.56
17.02
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.02    0.07    0.17    0.32    0.61    1.61    5.47
19.51
A(geo)             55.44   55.44   55.44   55.44   55.44   55.44   55.44   55.44
55.44
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                2.98   19.33   20.29   25.23   27.63   28.38   25.16   17.65
-5.96 |    33.39

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-53

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building        1             19.436      359.08     1029.84      0.00
8.00      0.00         2
Building        1             32.029      368.72     1021.74      0.00
8.00      0.00         2
Pointsource     Id=-53        191.278      490.64      919.28      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.35   -4.35   -4.35   -4.35   -4.35   -4.35   -4.35   -4.35
-4.35

A(barrier)          2.27    3.17    4.43    6.31    8.67   11.22   13.89   16.39
18.74
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.02    0.08    0.20    0.37    0.70    1.85    6.27
22.36
A(geo)             56.63   56.63   56.63   56.63   56.63   56.63   56.63   56.63
56.63
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                2.05   18.34   19.12   23.62   25.49   25.81   22.19   14.07
-11.47 |    31.17

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-53
[Reflection in facade 4 (Id=13)]

ItemType         Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver         1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)      4             226.963      552.25      951.64      0.00
8.60      0.00
Pointsource      Id=-53        296.558      490.64      919.28      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.94   -4.94   -4.94   -4.94   -4.94   -4.94   -4.94   -4.94
-4.94

A(barrier)          3.44    1.52    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.04    0.12    0.31    0.57    1.08    2.87    9.72
34.66
A(geo)             60.43   60.43   60.43   60.43   60.43   60.43   60.43   60.43
60.43
A(refl)              --      --      --      --      --   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                 --      --      --      --      --   32.45   30.87   22.82
-9.23 |    35.01
```

```
--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-52

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building        1             19.452      359.33     1030.11      0.00
8.00      0.00         2
Building        1             32.058      369.13     1022.18      0.00
8.00      0.00         2
Pointsource     Id=-52        215.058      511.42      907.11      0.00
2.00      0.00
--------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.54   -4.54   -4.54   -4.54   -4.54   -4.54   -4.54   -4.54
-4.54

A(barrier)         2.21    3.02    4.07    5.44    7.16    9.20   11.54   13.97
16.45
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.09    0.22    0.41    0.79    2.08    7.05
25.14
A(geo)            57.64   57.64   57.64   57.64   57.64   57.64   57.64   57.64
57.64
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)               1.28   17.65   18.63   23.62   26.11   26.91   23.48   14.87
-12.79 |    31.80

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-52
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4            235.696      552.94      932.88      0.00
8.60      0.00
Pointsource     Id=-52        284.561      511.42      907.11      0.00
2.00      0.00
```

```
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.89   -4.89   -4.89   -4.89   -4.89   -4.89   -4.89   -4.89
-4.89

A(barrier)          2.95    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.12    0.30    0.55    1.04    2.75    9.33
33.26
A(geo)             60.08   60.08   60.08   60.08   60.08   60.08   60.08   60.08
60.08
A(refl)              --      --      --      --    -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                 --      --      --      --    30.10   32.81   31.30   23.52
-7.51 |    36.54

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-51

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        1              19.490      359.71     1030.53      0.00
8.00      0.00         2
Building        1              32.124      369.76     1022.88      0.00
8.00      0.00         2
Pointsource     Id=-51        238.701      534.09      897.70      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.68   -4.68   -4.68   -4.68   -4.68   -4.68   -4.68   -4.68
-4.68

A(barrier)          2.16    2.89    3.73    4.42    4.86    5.26    5.84    6.73
8.09
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.46    0.87    2.31    7.82
27.90
A(geo)             58.55   58.55   58.55   58.55   58.55   58.55   58.55   58.55
58.55
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                0.56   17.01   18.21   23.86   27.61   30.00   28.18   20.58
-7.96 |    34.33

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-50

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-50        262.157      557.08      889.35      0.00
2.00      0.00
--------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.80   -4.80   -4.80   -4.80   -4.80   -4.80   -4.80   -4.80
-4.80

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.27    0.51    0.96    2.53    8.59
30.64
A(geo)             59.36   59.36   59.36   59.36   59.36   59.36   59.36   59.36
59.36
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                2.03   19.20   21.23   27.56   31.73   34.48   33.10   25.84
-3.31 |    38.75

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-49
```

```
ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-49        284.744      581.12      884.40      0.00
2.00      0.00
-------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.89   -4.89   -4.89   -4.89   -4.89   -4.89   -4.89   -4.89
-4.89

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.12    0.30    0.55    1.04    2.75    9.33
33.28
A(geo)            60.08   60.08   60.08   60.08   60.08   60.08   60.08   60.08
60.08
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------
--------
L(p)               1.40   18.58   20.60   26.92   31.06   33.77   32.26   24.48
-6.57 |    38.00

-------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-48

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-48        301.128      603.29      888.88      0.00
2.00      0.00
-------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.95   -4.95   -4.95   -4.95   -4.95   -4.95   -4.95   -4.95
-4.95

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.04    0.12    0.31    0.58    1.10    2.91    9.87
35.20
A(geo)             60.57   60.57   60.57   60.57   60.57   60.57   60.57   60.57
60.57
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                0.98   18.15   20.16   26.47   30.61   33.29   31.68   23.52
-8.91 |    37.47

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-47

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             233.258      552.75      937.87      0.00
8.60      0.00        10
Barrier         Id=14         233.292      552.78      937.85      8.60
0.65      0.00        10
Barrier         Id=14         270.287      585.86      921.28      8.60
0.65      0.00        10
Building        4             270.320      585.89      921.27      0.00
8.60      0.00        10
Pointsource     Id=-47        292.221      605.47      911.46      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.92   -4.92   -4.92   -4.92   -4.92   -4.92   -4.92   -4.92
-4.92

A(barrier)          4.46    6.76    9.66   12.63   15.58   18.53   21.51   22.91
23.83
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.04    0.12    0.30    0.56    1.07    2.82    9.58
34.16
A(geo)             60.31   60.31   60.31   60.31   60.31   60.31   60.31   60.31
60.31
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

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-------------------------------------------------------------------------------
--------
L(p)              -3.25   11.62   10.74   14.08   15.28   15.02   10.48    1.13
-31.47 |    21.15

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-46

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             224.731      552.06      956.92      0.00
8.60      0.00        10
Barrier         Id=14         224.786      552.11      956.90      8.60
0.65      0.00        10
Barrier         Id=14         251.755      577.06      946.64      8.60
0.65      0.00        10
Building        4             251.809      577.11      946.62      0.00
8.60      0.00        10
Pointsource     Id=-46        280.039      603.22      935.89      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.88   -4.88   -4.88   -4.88   -4.88   -4.88   -4.88   -4.88
-4.88

A(barrier)         4.91    7.00   10.01   13.27   16.35   19.34   22.32   24.01
24.48
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.12    0.29    0.54    1.02    2.71    9.18
32.73
A(geo)            59.94   59.94   59.94   59.94   59.94   59.94   59.94   59.94
59.94
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -3.38   11.71   10.72   13.77   14.85   14.57   10.11    0.75
-30.37 |    20.85

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-45
```

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Building	4	243.126	575.72	968.13	0.00	8.60	0.00	10
Barrier	Id=14	243.158	575.76	968.12	8.60	0.65	0.00	10
Barrier	Id=14	244.149	576.70	967.82	8.60	0.65	0.00	10
Building	4	244.169	576.72	967.81	0.00	8.60	0.00	10
Pointsource	Id=-45	268.911	600.28	960.26	0.00	2.00	0.00	

L(wr)	56.60	73.80	75.90	82.40	86.80	90.00	90.20	89.00
81.90								
A(ground)	-4.83	-4.83	-4.83	-4.83	-4.83	-4.83	-4.83	-4.83
-4.83								
A(barrier)	2.45	2.95	3.49	3.99	4.41	4.75	5.10	5.53
6.20								
A(veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(sit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(bld)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(air)	0.01	0.03	0.11	0.28	0.52	0.98	2.60	8.81
31.43								
A(geo)	59.58	59.58	59.58	59.58	59.58	59.58	59.58	59.58
59.58								
C(meteo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								

L(p)	-0.62	16.06	17.55	23.37	27.12	29.51	27.75	19.90
-10.49 |	33.83							

Cross section for receiver 1 (Id=-71) and source Id=-44

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Pointsource	Id=-44	274.103	610.14	975.93	0.00	2.00	0.00	

L(wr)	56.60	73.80	75.90	82.40	86.80	90.00	90.20	89.00
81.90								

```
A(ground)          -4.85   -4.85   -4.85   -4.85   -4.85   -4.85   -4.85   -4.85
-4.85

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.29    0.53    1.00    2.65    8.98
32.04
A(geo)             59.75   59.75   59.75   59.75   59.75   59.75   59.75   59.75
59.75
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                1.69   18.87   20.89   27.21   31.37   34.10   32.65   25.12
-5.04 |    38.35

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-43

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-43         262.009      601.67      993.78      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.80   -4.80   -4.80   -4.80   -4.80   -4.80   -4.80   -4.80
-4.80

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.27    0.51    0.96    2.53    8.59
30.62
A(geo)             59.36   59.36   59.36   59.36   59.36   59.36   59.36   59.36
59.36
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

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-------------------------------------------------------------------------------
--------
L(p)                2.03   19.21   21.23   27.57   31.73   34.48   33.11   25.85
-3.28 |    38.76

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-42

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-42         241.688      578.90      984.62      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.70   -4.70   -4.70   -4.70   -4.70   -4.70   -4.70   -4.70
-4.70

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.47    0.88    2.34    7.92
28.25
A(geo)             58.66   58.66   58.66   58.66   58.66   58.66   58.66   58.66
58.66
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                2.63   19.81   21.84   28.19   32.37   35.16   33.90   27.12
-0.31 |    39.49

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-41

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-41         221.284      555.61      976.96      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
```

```
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.58   -4.58   -4.58   -4.58   -4.58   -4.58   -4.58   -4.58
-4.58

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.09    0.23    0.43    0.81    2.14    7.25
25.86
A(geo)             57.89   57.89   57.89   57.89   57.89   57.89   57.89   57.89
57.89
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                3.28   20.46   22.49   28.85   33.06   35.88   34.75   28.43
2.72 |    40.27

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-40

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-40        206.153      535.51      965.53      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.47   -4.47   -4.47   -4.47   -4.47   -4.47   -4.47   -4.47
-4.47

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.08    0.22    0.40    0.75    1.99    6.76
24.10
A(geo)             57.28   57.28   57.28   57.28   57.28   57.28   57.28   57.28
57.28
```

```
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                3.79   20.97   23.01   29.38   33.60   36.44   35.40   29.44
5.00 |    40.88

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-39

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-39         207.333      526.19      943.02      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.48   -4.48   -4.48   -4.48   -4.48   -4.48   -4.48   -4.48
-4.48

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.09    0.22    0.40    0.76    2.00    6.79
24.23
A(geo)             57.33   57.33   57.33   57.33   57.33   57.33   57.33   57.33
57.33
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                3.75   20.93   22.97   29.34   33.56   36.40   35.35   29.36
4.82 |    40.83

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-39
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             225.095      552.10      956.04      0.00
8.60      0.00
```

```
Pointsource     Id=-39        254.087      526.19      943.02      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.76   -4.76   -4.76   -4.76   -4.76   -4.76   -4.76   -4.76
-4.76

A(barrier)         1.48    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.10    0.27    0.49    0.93    2.46    8.33
29.70
A(geo)            59.09   59.09   59.09   59.09   59.09   59.09   59.09   59.09
59.09
A(refl)             --      --      --      --    -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                --      --      --      --    31.01   33.77   32.44   25.37
-3.10 |    37.59

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-38

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-38        185.836      501.97      944.13      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.30   -4.30   -4.30   -4.30   -4.30   -4.30   -4.30   -4.30
-4.30

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.02    0.08    0.19    0.36    0.68    1.80    6.09
21.72
A(geo)             56.37   56.37   56.37   56.37   56.37   56.37   56.37   56.37
56.37
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                4.52   21.71   23.75   30.14   34.37   37.25   36.33   30.84
8.11 |    41.76

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-38
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             220.933      551.72      966.52      0.00
8.60      0.00
Pointsource     Id=-38        275.487      501.97      944.13      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.86   -4.86   -4.86   -4.86   -4.86   -4.86   -4.86   -4.86
-4.86

A(barrier)          3.11    0.37    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.29    0.53    1.01    2.66    9.03
32.20
A(geo)             59.79   59.79   59.79   59.79   59.79   59.79   59.79   59.79
59.79
A(refl)              --      --      --      --   -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                 --      --      --      --   30.36   33.09   31.63   24.07
-6.21 |    36.84
```

```
------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-37

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-37        161.427      479.96      955.00      0.00
2.00      0.00
------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.05   -4.05   -4.05   -4.05   -4.05   -4.05   -4.05   -4.05
-4.05

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.02    0.07    0.17    0.31    0.59    1.56    5.29
18.87
A(geo)            55.15   55.15   55.15   55.15   55.15   55.15   55.15   55.15
55.15
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
------------------------------------------------------------------------------
--------
L(p)               5.49   22.68   24.73   31.13   35.39   38.31   37.54   32.61
11.93 |    42.90

------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-36

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-36        136.964      458.50      966.88      0.00
2.00      0.00
------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -3.70   -3.70   -3.70   -3.70   -3.70   -3.70   -3.70   -3.70
-3.70
```

```
A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.00    0.02    0.06    0.14    0.26    0.50    1.32    4.49
16.01
A(geo)             53.72   53.72   53.72   53.72   53.72   53.72   53.72   53.72
53.72
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                6.57   23.76   25.82   32.23   36.51   39.47   38.85   34.49
15.87 |    44.18

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-35

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building        1             19.503      359.81     1030.65      0.00
8.00      0.00         2
Building        1             31.243      369.20     1023.60      0.00
8.00      0.00         2
Pointsource     Id=-35        115.699      436.78      972.95      0.00
2.00      0.00
--------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -3.28   -3.28   -3.28   -3.28   -3.28   -3.28   -3.28   -3.28
-3.28

A(barrier)          2.38    3.11    3.88    4.46    4.78    5.03    5.38    5.96
6.91
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.00    0.01    0.05    0.12    0.22    0.42    1.12    3.79
13.52
A(geo)             52.26   52.26   52.26   52.26   52.26   52.26   52.26   52.26
52.26
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
-------------------------------------------------------------------------------
--------
L(p)                5.24   21.69   22.99   28.84   32.82   35.56   34.72   30.27
12.48 |    40.28

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-34

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building        1             19.463      359.45     1030.25      0.00
8.00      0.00         2
Building        1             32.077      369.34     1022.42      0.00
8.00      0.00         2
Pointsource     Id=-34        136.859      451.46      957.33      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -3.70   -3.70   -3.70   -3.70   -3.70   -3.70   -3.70   -3.70
-3.70

A(barrier)         2.33    3.14    4.09    5.22    6.61    8.34   10.43   12.74
15.21
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.00    0.02    0.06    0.14    0.26    0.50    1.32    4.48
16.00
A(geo)            53.72   53.72   53.72   53.72   53.72   53.72   53.72   53.72
53.72
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                4.24   20.63   21.73   27.01   29.91   31.14   28.43   21.75
0.68 |    35.91

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-33

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
```

```
Building        1              19.448      359.27     1030.05      0.00
8.00      0.00         2
Building        1              32.050      369.03     1022.08      0.00
8.00      0.00         2
Pointsource     Id=-33        161.295      469.17      940.36      0.00
2.00      0.00
-------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.05   -4.05   -4.05   -4.05   -4.05   -4.05   -4.05   -4.05
-4.05

A(barrier)         2.30    3.14    4.24    5.73    7.63    9.83   12.27   14.74
17.20
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.02    0.07    0.17    0.31    0.59    1.56    5.29
18.85
A(geo)            55.14   55.14   55.14   55.14   55.14   55.14   55.14   55.14
55.14
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------
--------
L(p)               3.20   19.54   20.49   25.40   27.76   28.48   25.27   17.88
-5.25 |    33.52

-------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-32

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building        1              19.435      359.06     1029.82      0.00
8.00      0.00         2
Building        1              32.027      368.69     1021.70      0.00
8.00      0.00         2
Pointsource     Id=-32        185.685      486.18      922.67      0.00
2.00      0.00
-------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.30   -4.30   -4.30   -4.30   -4.30   -4.30   -4.30   -4.30
-4.30
```

```
A(barrier)          2.28    3.19    4.47    6.39    8.80   11.38   14.07   16.57
18.91
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.02    0.08    0.19    0.36    0.68    1.79    6.08
21.70
A(geo)             56.37   56.37   56.37   56.37   56.37   56.37   56.37   56.37
56.37
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                2.25   18.53   19.29   23.75   25.58   25.88   22.27   14.29
-10.77 |    31.27

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-32
[Reflection in facade 4 (Id=13)]

ItemType         Id           Distance           X           Y      Hgrnd
Height  GrndFact   Cluster
Receiver         1               0.000      344.20     1042.34       0.00
1.50      0.00
Building(R)      4             225.163      552.10      955.88       0.00
8.60      0.00
Pointsource      Id=-32        298.976      486.18      922.67       0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.95   -4.95   -4.95   -4.95   -4.95   -4.95   -4.95   -4.95
-4.95

A(barrier)          3.51    1.71    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.04    0.12    0.31    0.58    1.09    2.89    9.80
34.94
A(geo)             60.50   60.50   60.50   60.50   60.50   60.50   60.50   60.50
60.50
A(refl)              --      --      --      --      --   -0.97   -0.97   -0.97
-0.97
```

```
C(meteo)            0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                  --       --       --       --       --    32.38    30.78    22.67
-9.57 |    34.93

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-31

ItemType         Id            Distance            X            Y      Hgrnd
Height  GrndFact   Cluster
Receiver         1               0.000      344.20     1042.34       0.00
1.50      0.00
Building         1              19.451      359.32     1030.10       0.00
8.00      0.00         2
Building         1              32.056      369.11     1022.16       0.00
8.00      0.00         2
Pointsource      Id=-31        209.461      506.96      910.49       0.00
2.00      0.00
--------------------------------------------------------------------------------
--------
L(wr)              56.60    73.80    75.90    82.40    86.80    90.00    90.20    89.00
81.90
A(ground)          -4.50    -4.50    -4.50    -4.50    -4.50    -4.50    -4.50    -4.50
-4.50

A(barrier)          2.22     3.03     4.09     5.49     7.24     9.30    11.66    14.10
16.57
A(veg)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(sit)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(bld)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(air)              0.01     0.03     0.09     0.22     0.40     0.77     2.02     6.86
24.48
A(geo)             57.41    57.41    57.41    57.41    57.41    57.41    57.41    57.41
57.41
C(meteo)            0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                1.46    17.83    18.80    23.78    26.24    27.02    23.60    15.12
-12.07 |    31.94

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-31
[Reflection in facade 4 (Id=13)]

ItemType         Id            Distance            X            Y      Hgrnd
Height  GrndFact   Cluster
```

```
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             233.302      552.76      937.78      0.00
8.60      0.00
Pointsource     Id=-31        286.613      506.96      910.49      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.90   -4.90   -4.90   -4.90   -4.90   -4.90   -4.90   -4.90
-4.90

A(barrier)         3.09    0.33    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.12    0.30    0.55    1.05    2.77    9.39
33.50
A(geo)            60.14   60.14   60.14   60.14   60.14   60.14   60.14   60.14
60.14
A(refl)             --      --      --      --      --   -0.97   -0.97   -0.97
-0.97
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                --      --      --      --      --   32.75   31.22   23.40
-7.81 |    35.35

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-30

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        1              19.490      359.71     1030.53      0.00
8.00      0.00         2
Building        1              32.124      369.76     1022.88      0.00
8.00      0.00         2
Pointsource     Id=-30        233.101      529.63      901.09      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.65   -4.65   -4.65   -4.65   -4.65   -4.65   -4.65   -4.65
-4.65
```

```
A(barrier)          2.17    2.90    3.73    4.43    4.86    5.26    5.85    6.74
8.10
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.24    0.45    0.85    2.25    7.64
27.25
A(geo)             58.34   58.34   58.34   58.34   58.34   58.34   58.34   58.34
58.34
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                0.73   17.18   18.38   24.03   27.80   30.19   28.41   20.93
-7.14 |    34.53

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-29

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-29        256.559      552.62      892.73      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.77   -4.77   -4.77   -4.77   -4.77   -4.77   -4.77   -4.77
-4.77

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.27    0.49    0.94    2.48    8.41
29.99
A(geo)             59.18   59.18   59.18   59.18   59.18   59.18   59.18   59.18
59.18
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
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```

```
L(p)                2.19   19.37   21.39   27.73   31.90   34.66   33.32   26.19
-2.49 |    38.95

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-28

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-28         279.155      576.66      887.78      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87
-4.87

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.29    0.54    1.02    2.70    9.15
32.63
A(geo)             59.91   59.91   59.91   59.91   59.91   59.91   59.91   59.91
59.91
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                1.55   18.73   20.75   27.07   31.22   33.94   32.46   24.81
-5.77 |    38.18

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-27

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-27         295.565      598.83      892.27      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
```

```
A(ground)          -4.93   -4.93   -4.93   -4.93   -4.93   -4.93   -4.93   -4.93
-4.93

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.04    0.12    0.31    0.57    1.08    2.86    9.69
34.55
A(geo)             60.41   60.41   60.41   60.41   60.41   60.41   60.41   60.41
60.41
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                1.12   18.29   20.31   26.62   30.76   33.45   31.87   23.84
-8.12 |    37.65

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-26

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             232.802      552.72      938.82      0.00
8.60      0.00        10
Barrier         Id=14         232.837      552.75      938.80      8.60
0.65      0.00        10
Barrier         Id=14         269.749      585.81      922.39      8.60
0.65      0.00        10
Building        4             269.784      585.84      922.37      0.00
8.60      0.00        10
Pointsource     Id=-26        286.718      601.01      914.84      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.90   -4.90   -4.90   -4.90   -4.90   -4.90   -4.90   -4.90
-4.90

A(barrier)          5.00    7.52   10.55   13.59   16.57   19.54   21.94   23.20
24.01
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.12    0.30    0.55    1.05    2.77    9.40
33.51
A(geo)             60.14   60.14   60.14   60.14   60.14   60.14   60.14   60.14
60.14
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)               -3.65   11.00    9.99   13.27   14.44   14.17   10.25    1.16
-30.86 |    20.42

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-25

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             224.202      552.02      958.20      0.00
8.60      0.00         10
Barrier         Id=14         224.258      552.07      958.18      8.60
0.65      0.00         10
Barrier         Id=14         251.192      577.03      948.07      8.60
0.65      0.00         10
Building        4             251.243      577.08      948.06      0.00
8.60      0.00         10
Pointsource     Id=-25        274.630      598.76      939.28      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)          -4.85   -4.85   -4.85   -4.85   -4.85   -4.85   -4.85   -4.85
-4.85

A(barrier)          5.22    7.48   10.64   13.96   17.06   20.07   23.06   24.03
24.49
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.29    0.53    1.00    2.65    9.00
32.10
A(geo)             59.77   59.77   59.77   59.77   59.77   59.77   59.77   59.77
59.77
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
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```

```
L(p)              -3.55   11.37   10.24   13.24   14.29   14.01    9.57    1.06
-29.60 |    20.34

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-24

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-24         263.636      595.82      963.65      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
A(ground)         -4.81   -4.81   -4.81   -4.81   -4.81   -4.81   -4.81   -4.81
-4.81

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.11    0.28    0.51    0.96    2.55    8.64
30.81
A(geo)            59.41   59.41   59.41   59.41   59.41   59.41   59.41   59.41
59.41
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)               1.98   19.16   21.18   27.52   31.68   34.43   33.05   25.75
-3.52 |    38.70

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=-23

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=-23         268.964      605.68      979.32      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             56.60   73.80   75.90   82.40   86.80   90.00   90.20   89.00
81.90
```

```
A(ground)          -4.83   -4.83   -4.83   -4.83   -4.83   -4.83   -4.83   -4.83
-4.83

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.11    0.28    0.52    0.98    2.60    8.81
31.44
A(geo)             59.59   59.59   59.59   59.59   59.59   59.59   59.59   59.59
59.59
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                1.83   19.01   21.03   27.36   31.52   34.26   32.84   25.43
-4.29 |    38.52

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=15

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             233.294      552.76      937.79      0.00
8.60      0.00        10
Barrier         Id=14         233.328      552.79      937.78      8.60
0.65      0.00        10
Pointsource     Id=15         242.350      560.85      933.73      8.60
1.50      0.00
-------------------------------------------------------------------------------
--------
L(wr)              40.60   60.80   73.90   79.40   79.80   79.00   76.20   74.00
64.90
A(ground)          -4.89   -4.89   -4.89   -4.89   -4.89   -4.89   -4.89   -4.89
-4.89

A(barrier)          4.73    4.68    4.60    4.41    4.02    3.11    0.38    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.47    0.89    2.34    7.95
28.34
```

```
A(geo)             58.69    58.69    58.69    58.69    58.69    58.69    58.69    58.69
58.69
C(meteo)            0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -17.94     2.29    15.40    20.93    21.51    21.20    19.67    12.25
-17.24 |    27.35

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=16

ItemType         Id            Distance            X            Y      Hgrnd
Height  GrndFact   Cluster
Receiver         1               0.000       344.20      1042.34       0.00
1.50      0.00
Building         4             232.052       552.66       940.40       0.00
8.60      0.00        10
Barrier          Id=14         232.089       552.70       940.38       8.60
0.65      0.00        10
Pointsource      Id=16         246.633       565.76       933.99       8.60
1.50      0.00
-------------------------------------------------------------------------------
--------
L(wr)              40.60    60.80    73.90    79.40    79.80    79.00    76.20    74.00
64.90
A(ground)          -4.91    -4.91    -4.91    -4.91    -4.91    -4.91    -4.91    -4.91
-4.91

A(barrier)          4.76     4.75     4.73     4.68     4.58     4.39     3.97     2.98
0.00
A(veg)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(sit)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(bld)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(air)              0.01     0.03     0.10     0.26     0.48     0.90     2.38     8.09
28.84
A(geo)             58.84    58.84    58.84    58.84    58.84    58.84    58.84    58.84
58.84
C(meteo)            0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -18.10     2.09    15.14    20.53    20.81    19.78    15.92     9.00
-17.88 |    26.13

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=17
```

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Building	4	230.191	552.52	944.40	0.00	8.60	0.00	10
Barrier	Id=14	230.232	552.55	944.38	8.60	0.65	0.00	10
Pointsource	Id=17	252.631	572.82	934.85	8.60	1.50	0.00	

L(wr)	40.60	60.80	73.90	79.40	79.80	79.00	76.20	74.00 64.90
A(ground)	-4.93	-4.93	-4.93	-4.93	-4.93	-4.93	-4.93	-4.93 -4.93
A(barrier)	4.77	4.77	4.77	4.77	4.76	4.76	4.74	4.71 4.64
A(veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
A(sit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
A(bld)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
A(air)	0.01	0.03	0.10	0.26	0.49	0.92	2.44	8.28 29.55
A(geo)	59.05	59.05	59.05	59.05	59.05	59.05	59.05	59.05 59.05
C(meteo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00
L(p)	-18.29	1.88	14.91	20.25	20.43	19.20	14.90	6.89 -23.40 | 25.66

Cross section for receiver 1 (Id=-71) and source 1 (Id=18)

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Building	4	224.806	552.07	956.73	0.00	8.60	0.00	10
Barrier	Id=14	224.861	552.12	956.71	8.60	0.65	0.00	10
Pointsource	1	233.075	559.72	953.59	8.60	1.50	0.00	

L(wr)	41.60	65.80	76.90	80.40	83.80	79.00	70.20	63.00 55.90

```
A(ground)          -4.84   -4.84   -4.84   -4.84   -4.84   -4.84   -4.84   -4.84
-4.84

A(barrier)          4.72    4.67    4.57    4.35    3.88    2.76    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.24    0.45    0.85    2.25    7.64
27.26
A(geo)             58.35   58.35   58.35   58.35   58.35   58.35   58.35   58.35
58.35
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -16.63    7.60   18.73   22.30   25.96   21.88   14.44    1.85
-24.87 |    29.18

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source 1 (Id=19)

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             227.841      552.33      949.63      0.00
8.60      0.00        10
Barrier         Id=14         227.888      552.37      949.61      8.60
0.65      0.00        10
Pointsource     1             241.674      564.96      944.00      8.60
1.50      0.00
-------------------------------------------------------------------------------
--------
L(wr)             41.60   65.80   76.90   80.40   83.80   79.00   70.20   63.00
55.90
A(ground)          -4.88   -4.88   -4.88   -4.88   -4.88   -4.88   -4.88   -4.88
-4.88

A(barrier)          4.76    4.74    4.72    4.66    4.55    4.32    3.82    2.61
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.47    0.88    2.34    7.92
28.27
```

```
A(geo)             58.66    58.66    58.66    58.66    58.66    58.66    58.66    58.66
58.66
C(meteo)            0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -16.94     7.25    18.30    21.70    25.00    20.01    10.26    -1.32
-26.14 |    28.12

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=20

ItemType         Id            Distance            X            Y      Hgrnd
Height  GrndFact   Cluster
Receiver         1               0.000       344.20      1042.34       0.00
1.50      0.00
Building         4             230.063       552.51       944.68       0.00
8.60      0.00        10
Barrier          Id=14         230.105       552.54       944.66       8.60
0.65      0.00        10
Pointsource      Id=20         247.817       568.58       937.14       8.60
1.50      0.00
-------------------------------------------------------------------------------
--------
L(wr)              40.60    60.80    73.90    79.40    79.80    79.00    76.20    74.00
64.90
A(ground)          -4.91    -4.91    -4.91    -4.91    -4.91    -4.91    -4.91    -4.91
-4.91

A(barrier)          4.77     4.76     4.75     4.74     4.70     4.62     4.47     4.15
3.43
A(veg)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(sit)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(bld)              0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
A(air)              0.01     0.03     0.10     0.26     0.48     0.91     2.40     8.13
28.98
A(geo)             58.88    58.88    58.88    58.88    58.88    58.88    58.88    58.88
58.88
C(meteo)            0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -18.14     2.04    15.08    20.44    20.65    19.50    15.36     7.75
-21.48 |    25.91

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source 2 (Id=21)
```

```
ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building        4            237.316      553.05      929.65      0.00
8.60      0.00        10
Building        4            237.318      553.05      929.65      0.00
8.60      0.00        10
Pointsource     2            238.291      553.91      929.18      0.00
1.50      0.00
-------------------------------------------------------------------------
--------
L(wr)            42.60   66.80   77.90   81.40   84.80   80.00   71.20   64.00
56.90
A(ground)        -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87
-4.87

A(barrier)        3.88    4.26    4.49    4.62    4.70    4.73    4.73    4.73
4.73
A(veg)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)            0.01    0.03    0.10    0.25    0.46    0.87    2.30    7.81
27.85
A(geo)           58.53   58.53   58.53   58.53   58.53   58.53   58.53   58.53
58.53
C(meteo)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------
--------
L(p)            -14.96    8.85   19.65   22.86   25.98   20.73   10.50   -2.21
-29.35 |    29.13

-------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source 2 (Id=22)

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     2            239.413      554.88      928.61      0.00
1.50      0.00
-------------------------------------------------------------------------
--------
L(wr)            42.60   66.80   77.90   81.40   84.80   80.00   71.20   64.00
56.90
A(ground)        -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87   -4.87
-4.87
```

```
A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.46    0.88    2.31    7.85
27.98
A(geo)             58.58   58.58   58.58   58.58   58.58   58.58   58.58   58.58
58.58
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)              -11.11   13.07   24.10   27.45   30.64   25.42   15.18    2.45
-24.79 |    33.75

--------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source 2 (Id=22)
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             236.582      553.00      931.10      0.00
8.60      0.00        10
Barrier         Id=14         236.609      553.02      931.09      8.60
0.65      0.00        10
Barrier         Id=14         239.687      555.74      929.64      8.60
0.65      0.00        10
Building        4             239.789      555.83      929.59      0.00
8.60      0.00        10
Building(R)     4             240.294      556.28      929.36      0.00
8.60      0.00
Pointsource     2             241.879      554.88      928.61      0.00
1.50      0.00
--------------------------------------------------------------------------------
--------
L(wr)              42.60   66.80   77.90   81.40   84.80   80.00   71.20   64.00
56.90
A(ground)          -4.88   -4.88   -4.88   -4.88   -4.88   -4.88   -4.88   -4.88
-4.88

A(barrier)         11.19   13.70   16.49   19.73   23.69   25.00   25.00   25.00
25.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

A(bld)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(air)	0.01	0.03	0.10	0.25	0.47	0.88	2.34	7.93
28.27								
A(geo)	58.66	58.66	58.66	58.66	58.66	58.66	58.66	58.66
58.66								
A(refl)	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97
-0.97								
C(meteo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								

L(p)	-23.35	-1.68	6.56	6.67	5.89	-0.63	-10.89	-23.68
-51.12 |	11.67							

Cross section for receiver 1 (Id=-71) and source 3 (Id=23)

ItemType	Id	Distance	X	Y	Hgrnd		
Height	GrndFact	Cluster					
Receiver	1	0.000	344.20	1042.34	0.00		
1.50	0.00						
Building	4	237.013	553.03	930.25	0.00		
8.60	0.00	10					
Barrier	Id=14	237.039	553.05	930.23	8.60		
0.65	0.00	10					
Barrier	Id=14	238.233	554.11	929.67	8.60		
0.65	0.00	10					
Building	4	238.327	554.19	929.62	0.00		
8.60	0.00	10					
Pointsource	3	238.339	554.20	929.62	0.00		
3.70	0.00						

L(wr)	49.60	65.80	77.90	86.40	89.80	91.00	90.20	87.00
79.90								
A(ground)	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04	-4.04
-4.04								
A(barrier)	4.10	4.77	5.54	6.61	8.10	10.02	12.26	14.70
17.15								
A(veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(sit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(bld)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(air)	0.01	0.03	0.10	0.25	0.46	0.87	2.30	7.81
27.86								
A(geo)	58.54	58.54	58.54	58.54	58.54	58.54	58.54	58.54
58.54								
C(meteo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								

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-------------------------------------------------------------------------------
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L(p)              -9.01    6.50   17.76   25.04   26.74   25.61   21.14    9.99
-19.61 |    31.33

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source 4 (Id=24)

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     4            226.347      557.88      967.68      0.00
8.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)            40.60   60.80   73.90   79.40   79.80   79.00   76.20   74.00
64.90
A(ground)        -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00
-3.00

A(barrier)        0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)            0.01    0.03    0.09    0.24    0.44    0.83    2.19    7.42
26.47
A(geo)           58.09   58.09   58.09   58.09   58.09   58.09   58.09   58.09
58.09
C(meteo)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)            -14.50    5.68   18.72   24.07   24.27   23.08   18.92   11.49
-16.66 |    29.52

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source 4 (Id=24)
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4            225.745      557.12      967.34      0.00
8.60      0.00
Pointsource     4            226.577      557.88      967.68      0.00
8.00      0.00
```

```
-------------------------------------------------------------------------------
--------
L(wr)              40.60   60.80   73.90   79.40   79.80   79.00   76.20   74.00
64.90
A(ground)          -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00
-3.00

A(barrier)          4.16    3.44    1.55    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.09    0.24    0.44    0.83    2.19    7.43
26.49
A(geo)             58.10   58.10   58.10   58.10   58.10   58.10   58.10   58.10
58.10
A(refl)              --   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)                 --    1.26   16.19   23.09   23.29   22.10   17.94   10.50
-17.66 |    28.43

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source 4 (Id=26)

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     4            236.486      568.74      968.14      0.00
8.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              40.60   60.80   73.90   79.40   79.80   79.00   76.20   74.00
64.90
A(ground)          -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00
-3.00

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(air)              0.01    0.03    0.10    0.25    0.46    0.87    2.29    7.75
27.65
A(geo)             58.47   58.47   58.47   58.47   58.47   58.47   58.47   58.47
58.47
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)              -14.88    5.30   18.33   23.68   23.87   22.66   18.44   10.78
-18.22 |    29.11

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--------
Cross section for receiver 1 (Id=-71) and source 4 (Id=26)
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1              0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4            235.852      567.96      967.80      0.00
8.60      0.00
Pointsource     4            236.701      568.74      968.14      0.00
8.00      0.00
--------------------------------------------------------------------------------
--------
L(wr)              40.60   60.80   73.90   79.40   79.80   79.00   76.20   74.00
64.90
A(ground)          -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00   -3.00
-3.00

A(barrier)          4.17    3.47    1.64    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.46    0.87    2.29    7.76
27.68
A(geo)             58.48   58.48   58.48   58.48   58.48   58.48   58.48   58.48
58.48
A(refl)              --   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
--------------------------------------------------------------------------------
--------
L(p)                 --    0.85   15.72   22.70   22.90   21.69   17.46    9.79
-19.23 |    28.01

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

Cross section for receiver 1 (Id=-71) and source Id=27

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Pointsource	Id=27	236.090	552.65	931.49	0.00	4.00	0.00	

L(wr)	41.60	61.80	74.90	80.40	80.80	80.00	77.20	75.00
65.90								
A(ground)	-3.90	-3.90	-3.90	-3.90	-3.90	-3.90	-3.90	-3.90
-3.90								
A(barrier)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(sit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(bld)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(air)	0.01	0.03	0.10	0.25	0.46	0.86	2.28	7.74
27.60								
A(geo)	58.45	58.45	58.45	58.45	58.45	58.45	58.45	58.45
58.45								
C(meteo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								

L(p)	-12.96	7.22	20.25	25.60	25.79	24.59	20.37	12.71
-16.25 |	31.04							

Cross section for receiver 1 (Id=-71) and source Id=27
[Reflection in facade 4 (Id=13)]

ItemType	Id	Distance	X	Y	Hgrnd	Height	GrndFact	Cluster
Receiver	1	0.000	344.20	1042.34	0.00	1.50	0.00	
Building(R)	4	236.286	552.98	931.69	0.00	8.60	0.00	
Pointsource	Id=27	236.676	552.65	931.49	0.00	4.00	0.00	

L(wr)	41.60	61.80	74.90	80.40	80.80	80.00	77.20	75.00
65.90								
A(ground)	-3.91	-3.91	-3.91	-3.91	-3.91	-3.91	-3.91	-3.91
-3.91								

```
A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.46    0.87    2.29    7.76
27.66
A(geo)             58.48   58.48   58.48   58.48   58.48   58.48   58.48   58.48
58.48
A(refl)            -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -13.94    6.23   19.27   24.62   24.81   23.60   19.38   11.71
-17.30 |    30.05

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=28

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=28          242.593      556.05      924.15      0.00
4.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              41.60   61.80   74.90   80.40   80.80   80.00   77.20   75.00
65.90
A(ground)          -3.96   -3.96   -3.96   -3.96   -3.96   -3.96   -3.96   -3.96
-3.96

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.47    0.89    2.34    7.95
28.36
A(geo)             58.69   58.69   58.69   58.69   58.69   58.69   58.69   58.69
58.69
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
```

```
L(p)              -13.14    7.04   20.07   25.42   25.60   24.38   20.12   12.32
-17.19 |    30.84

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=28
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             242.726      556.28      924.27      0.00
8.60      0.00
Pointsource     Id=28         242.979      556.05      924.15      0.00
4.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             41.60   61.80   74.90   80.40   80.80   80.00   77.20   75.00
65.90
A(ground)         -3.96   -3.96   -3.96   -3.96   -3.96   -3.96   -3.96   -3.96
-3.96

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.10    0.25    0.47    0.89    2.35    7.96
28.40
A(geo)            58.70   58.70   58.70   58.70   58.70   58.70   58.70   58.70
58.70
A(refl)           -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -14.12    6.06   19.09   24.44   24.62   23.40   19.14   11.33
-18.21 |    29.86

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=41

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building        4             237.054      553.03      930.17      0.00
8.60      0.00        10
```

```
Barrier          Id=14          237.080      553.06      930.15      8.60
0.65      0.00         10
Barrier          Id=14          238.095      553.95      929.67      8.60
0.65      0.00         10
Building         4              238.189      554.03      929.63      0.00
8.60      0.00         10
Pointsource      Id=41          238.194      554.04      929.63      0.00
3.70      0.00
-------------------------------------------------------------------------------
--------
L(wr)              54.60   68.80   74.90   80.40   77.80   71.00   65.20   60.00
49.90
A(ground)          -4.04   -4.04   -4.04   -4.04   -4.04   -4.04   -4.04   -4.04
-4.04

A(barrier)          4.07    4.70    5.42    6.40    7.78    9.61   11.78   14.20
16.66
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.10    0.25    0.46    0.87    2.30    7.81
27.84
A(geo)             58.53   58.53   58.53   58.53   58.53   58.53   58.53   58.53
58.53
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)               -3.98    9.57   14.89   19.26   15.06    6.02   -3.38  -16.50
-49.10 |    22.07

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=43

ItemType         Id            Distance            X            Y      Hgrnd
Height  GrndFact   Cluster
Receiver         1                0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource      Id=43          229.042      551.74      945.45      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              24.60   45.80   53.90   72.40   77.80   81.00   77.20   67.00
54.90
A(ground)          -4.62   -4.62   -4.62   -4.62   -4.62   -4.62   -4.62   -4.62
-4.62

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.09    0.24    0.44    0.84    2.21    7.51
26.77
A(geo)             58.19   58.19   58.19   58.19   58.19   58.19   58.19   58.19
58.19
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -28.97   -7.79    0.24   18.60   23.79   26.60   21.42    5.93
-25.44 |    29.60

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=43
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             229.531      552.46      945.85      0.00
8.60      0.00
Pointsource     Id=43         230.362      551.74      945.45      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)              24.60   45.80   53.90   72.40   77.80   81.00   77.20   67.00
54.90
A(ground)          -4.63   -4.63   -4.63   -4.63   -4.63   -4.63   -4.63   -4.63
-4.63

A(barrier)          0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)              0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)              0.01    0.03    0.09    0.24    0.44    0.84    2.23    7.55
26.93
A(geo)             58.24   58.24   58.24   58.24   58.24   58.24   58.24   58.24
58.24
A(refl)            -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97   -0.97
-0.97
C(meteo)            0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
```

```
-------------------------------------------------------------------------------
--------
L(p)              -29.98   -8.80   -0.77   17.58   22.78   25.58   20.40    4.87
-26.60 |    28.59

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=44

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Pointsource     Id=44          232.659      552.29      938.28      0.00
2.00      0.00
-------------------------------------------------------------------------------
--------
L(wr)             24.60   45.80   53.90   72.40   77.80   81.00   77.20   67.00
54.90
A(ground)         -4.65   -4.65   -4.65   -4.65   -4.65   -4.65   -4.65   -4.65
-4.65

A(barrier)         0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(veg)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(sit)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(bld)             0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
A(air)             0.01    0.03    0.10    0.24    0.45    0.85    2.25    7.62
27.19
A(geo)            58.33   58.33   58.33   58.33   58.33   58.33   58.33   58.33
58.33
C(meteo)           0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
0.00
-------------------------------------------------------------------------------
--------
L(p)              -29.09   -7.91    0.12   18.48   23.67   26.47   21.27    5.70
-25.97 |    29.47

-------------------------------------------------------------------------------
--------
Cross section for receiver 1 (Id=-71) and source Id=44
[Reflection in facade 4 (Id=13)]

ItemType        Id           Distance           X           Y     Hgrnd
Height  GrndFact   Cluster
Receiver        1               0.000      344.20     1042.34      0.00
1.50      0.00
Building(R)     4             232.937      552.73      938.54      0.00
8.60      0.00
Pointsource     Id=44          233.448      552.29      938.28      0.00
2.00      0.00
```

L(wr)	24.60	45.80	53.90	72.40	77.80	81.00	77.20	67.00
54.90								
A(ground)	-4.65	-4.65	-4.65	-4.65	-4.65	-4.65	-4.65	-4.65
-4.65								
A(barrier)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(sit)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(bld)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
A(air)	0.01	0.03	0.10	0.24	0.45	0.85	2.26	7.65
27.29								
A(geo)	58.36	58.36	58.36	58.36	58.36	58.36	58.36	58.36
58.36								
A(refl)	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97
-0.97								
C(meteo)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00								
L(p)	-30.08	-8.90	-0.87	17.48	22.68	25.47	20.27	4.68
-27.06 |	28.48							

Height	Source	Per	LAeq	32	63	125	250
500	1000	2000	4000	8000			
1.50	Id=15	1	27.35	-17.94	2.29	15.40	20.93
21.51	21.20	19.67	12.25	-17.24			
1.50	Id=15	2	27.35	-17.94	2.29	15.40	20.93
21.51	21.20	19.67	12.25	-17.24			
1.50	Id=15	3	27.35	-17.94	2.29	15.40	20.93
21.51	21.20	19.67	12.25	-17.24			
1.50	Id=15	4	--	--	--	--	--
--	--	--	--	--			
1.50	Id=16	1	26.13	-18.10	2.09	15.14	20.53
20.81	19.78	15.92	9.00	-17.88			
1.50	Id=16	2	26.13	-18.10	2.09	15.14	20.53
20.81	19.78	15.92	9.00	-17.88			
1.50	Id=16	3	26.13	-18.10	2.09	15.14	20.53
20.81	19.78	15.92	9.00	-17.88			
1.50	Id=16	4	--	--	--	--	--
--	--	--	--	--			
1.50	Id=17	1	25.66	-18.29	1.88	14.91	20.25
20.43	19.20	14.90	6.89	-23.40			
1.50	Id=17	2	25.66	-18.29	1.88	14.91	20.25
20.43	19.20	14.90	6.89	-23.40			

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    1.50       Id=17    3     25.66    -18.29      1.88     14.91     20.25
20.43     19.20     14.90      6.89    -23.40
    1.50       Id=17    4       --       --        --       --        --
--        --        --       --       --
    1.50           1    1     29.18    -16.63      7.60     18.73     22.30
25.96     21.88     14.44      1.85    -24.87
    1.50           1    2     29.18    -16.63      7.60     18.73     22.30
25.96     21.88     14.44      1.85    -24.87
    1.50           1    3     29.18    -16.63      7.60     18.73     22.30
25.96     21.88     14.44      1.85    -24.87
    1.50           1    4       --       --        --       --        --
--        --        --       --       --
    1.50           1    1     28.12    -16.94      7.25     18.30     21.70
25.00     20.01     10.26     -1.32    -26.14
    1.50           1    2     28.12    -16.94      7.25     18.30     21.70
25.00     20.01     10.26     -1.32    -26.14
    1.50           1    3     28.12    -16.94      7.25     18.30     21.70
25.00     20.01     10.26     -1.32    -26.14
    1.50           1    4       --       --        --       --        --
--        --        --       --       --
    1.50       Id=20    1     25.91    -18.14      2.04     15.08     20.44
20.65     19.50     15.36      7.75    -21.48
    1.50       Id=20    2     25.91    -18.14      2.04     15.08     20.44
20.65     19.50     15.36      7.75    -21.48
    1.50       Id=20    3     25.91    -18.14      2.04     15.08     20.44
20.65     19.50     15.36      7.75    -21.48
    1.50       Id=20    4       --       --        --       --        --
--        --        --       --       --
    1.50           2    1     29.13    -14.96      8.85     19.65     22.86
25.98     20.73     10.50     -2.21    -29.35
    1.50           2    2     29.13    -14.96      8.85     19.65     22.86
25.98     20.73     10.50     -2.21    -29.35
    1.50           2    3     29.13    -14.96      8.85     19.65     22.86
25.98     20.73     10.50     -2.21    -29.35
    1.50           2    4       --       --        --       --        --
--        --        --       --       --
    1.50           2    1     33.78    -10.86     13.21     24.17     27.48
30.65     25.43     15.19      2.46    -24.78
    1.50           2    2     33.78    -10.86     13.21     24.17     27.48
30.65     25.43     15.19      2.46    -24.78
    1.50           2    3     33.78    -10.86     13.21     24.17     27.48
30.65     25.43     15.19      2.46    -24.78
    1.50           2    4       --       --        --       --        --
--        --        --       --       --
    1.50           3    1     31.33     -9.01      6.50     17.76     25.04
26.74     25.61     21.14      9.99    -19.61
    1.50           3    2     31.33     -9.01      6.50     17.76     25.04
26.74     25.61     21.14      9.99    -19.61
    1.50           3    3     31.33     -9.01      6.50     17.76     25.04
26.74     25.61     21.14      9.99    -19.61
    1.50           3    4       --       --        --       --        --
--        --        --       --       --
    1.50           4    1     32.02    -14.50      7.02     20.64     26.62
26.82     25.63     21.47     14.03    -14.12
```

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    1.50           4    2     32.02    -14.50      7.02     20.64     26.62
26.82     25.63     21.47     14.03    -14.12
    1.50           4    3     32.02    -14.50      7.02     20.64     26.62
26.82     25.63     21.47     14.03    -14.12
    1.50           4    4        --       --        --        --        --
--        --        --        --       --
    1.50           4    1     31.61    -14.88      6.63     20.23     26.23
26.42     25.21     20.99     13.32    -15.68
    1.50           4    2     31.61    -14.88      6.63     20.23     26.23
26.42     25.21     20.99     13.32    -15.68
    1.50           4    3     31.61    -14.88      6.63     20.23     26.23
26.42     25.21     20.99     13.32    -15.68
    1.50           4    4        --       --        --        --        --
--        --        --        --       --
    1.50       Id=27    1     33.58    -10.41      9.77     22.80     28.15
28.34     27.13     22.91     15.25    -13.73
    1.50       Id=27    2     33.58    -10.41      9.77     22.80     28.15
28.34     27.13     22.91     15.25    -13.73
    1.50       Id=27    3     33.58    -10.41      9.77     22.80     28.15
28.34     27.13     22.91     15.25    -13.73
    1.50       Id=27    4        --       --        --        --        --
--        --        --        --       --
    1.50       Id=28    1     33.38    -10.59      9.59     22.62     27.96
28.15     26.93     22.67     14.86    -14.66
    1.50       Id=28    2     33.38    -10.59      9.59     22.62     27.96
28.15     26.93     22.67     14.86    -14.66
    1.50       Id=28    3     33.38    -10.59      9.59     22.62     27.96
28.15     26.93     22.67     14.86    -14.66
    1.50       Id=28    4        --       --        --        --        --
--        --        --        --       --
    1.50       Id=29    1     38.37      1.89     18.81     20.59     26.73
31.06     34.01     32.84     26.91      5.32
    1.50       Id=29    2     32.35     -4.13     12.79     14.57     20.71
25.04     27.99     26.82     20.89     -0.70
    1.50       Id=29    3        --       --        --        --        --
--        --        --        --       --
    1.50       Id=29    4        --       --        --        --        --
--        --        --        --       --
    1.50       Id=30    1     38.14      1.62     18.53     20.29     26.41
30.90     33.71     32.67     26.68      4.46
    1.50       Id=30    2     32.12     -4.40     12.51     14.27     20.39
24.88     27.69     26.65     20.66     -1.56
    1.50       Id=30    3        --       --        --        --        --
--        --        --        --       --
    1.50       Id=30    4        --       --        --        --        --
--        --        --        --       --
    1.50       Id=41    1     22.07     -3.98      9.57     14.89     19.26
15.06      6.02     -3.38    -16.50    -49.10
    1.50       Id=41    2     22.07     -3.98      9.57     14.89     19.26
15.06      6.02     -3.38    -16.50    -49.10
    1.50       Id=41    3     22.07     -3.98      9.57     14.89     19.26
15.06      6.02     -3.38    -16.50    -49.10
    1.50       Id=41    4        --       --        --        --        --
--        --        --        --       --
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    1.50       Id=43    1     32.13    -26.44     -5.26      2.77     21.13
26.33     29.13     23.95      8.44    -22.97
    1.50       Id=43    2     32.13    -26.44     -5.26      2.77     21.13
26.33     29.13     23.95      8.44    -22.97
    1.50       Id=43    3     32.13    -26.44     -5.26      2.77     21.13
26.33     29.13     23.95      8.44    -22.97
    1.50       Id=43    4        --        --        --        --        --
--        --        --        --        --
    1.50       Id=44    1     32.01    -26.55     -5.37      2.67     21.02
26.21     29.01     23.81      8.23    -23.47
    1.50       Id=44    2     32.01    -26.55     -5.37      2.67     21.02
26.21     29.01     23.81      8.23    -23.47
    1.50       Id=44    3     32.01    -26.55     -5.37      2.67     21.02
26.21     29.01     23.81      8.23    -23.47
    1.50       Id=44    4        --        --        --        --        --
--        --        --        --        --

================================================================================
========

  Height              Per      LAeq        32        63       125       250
500       1000       2000      4000      8000
    1.50                1     45.06      6.01     23.72     31.87     37.20
39.48     39.86     37.26     30.53      8.07
    1.50                2     43.42      2.41     20.98     31.37     36.60
38.45     37.80     33.96     26.17      2.48
    1.50                3     42.70     -0.03     19.47     31.19     36.38
38.04     36.82     31.89     22.43     -6.58
    1.50                4        --        --        --        --        --
--        --        --        --        --

--------------------------------------------------------------------------------
--------
       Total;      Count;      Average;         Max; Description
      0.1040;         --;           --;          --; "TOTAL"
      0.0003;       3486;    0.0000001;     0.0000; "TTimerSet - overhead"
      0.0064;       1743;    0.0000037;     0.0004; "WriteTestString"
      0.0000;         --;           --;          --; "TPolyClipper.Clip"
--------------------------------------------------------------------------------
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Testfile closed: 2026-02-16 6:09:53 PM
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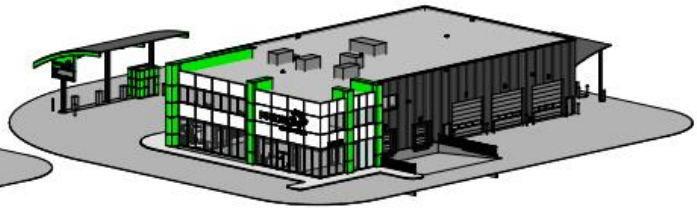
APPENDIX D: Proposed Site Drawings

SOUTH-WEST VIEW



SOUTH-EAST VIEW