# **CRG**ACOUSTICS

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Proposed Service Station Tweed Coast Road, Kings Forest (Lot 7 on DP875447)

# ENVIRONMENTAL NOISE IMPACT REPORT

Prepared for

LEDA Developments Pty Ltd

**21 September 2015** 

crgref: 12141 report rev.2

### 1.0 INTRODUCTION

This report is in response to a request from LEDA Developments Pty Ltd for an environmental noise impact assessment of a service station in Kings Forest. The report is intended to form part of an amendment to Project Approval MP08\_0194.

In undertaking the above, noise monitoring was conducted for the site and through modelling; predictions of onsite commercial activity noise emissions were produced. Based upon the predicted noise impact levels, recommendations regarding acoustic treatment to the development have been provided.

### 2.0 DESCRIPTION OF THE DEVELOPMENT

The subject site is described as Lot 7 on DP875447 and is located along the Tweed Coast Road at Kings Forest. The parcel of land is bounded by Tweed Coast Road to the southwest, Cudgen Creek to the southeast and a rural residential property to the north. The topography of the site and surrounding land generally falls from the north to Cudgen Creek. For site location refer to Appendix A.

The proposal is to construct a service station with carwash and two drive-through facilities. The service station would have separate bowsers for cars and trucks. The proposed onsite building would comprise the service station retail section, six food tenancies and indoor seating areas. For development plans refer to Appendix B.

We are advised that the site intends to operate 24 hours, seven days per week.

Onsite activity noise emissions (i.e. vehicle movements, goods loading activity, deliveries, waste collection and mechanical plant) has the potential to impact upon surrounding noise sensitive receivers and has been assessed in accordance the "NSW Industrial Noise Policy" to ensure an acceptable noise amenity can be achieved.

The nearest noise sensitive receivers to the subject site include a residential dwelling to the north, a residential dwelling to the east and residential dwellings to the west across Tweed Coast Road.

It is noted that the there is an existing roadside acoustic barrier located between the subject site and the western offsite residential dwellings; which is located on the western side of the Tweed Coast Road corridor. The acoustic barrier will provide noise mitigation for some of the proposed onsite activities (i.e. car vacuum bay); however, due to a break in the barrier (for dwelling road access) not all onsite activities will be screened / mitigated by the acoustic barrier.

## 3.0 AMBIENT NOISE SURVEY

#### 3.1 Instrumentation

The following equipment was used to record ambient noise levels at the subject site locale.

- Rion NC 73 Calibrator; and
- Rion NL 21 Environmental Noise Logger.

All instrumentation used in this assessment hold current calibration certificate from a certified NATA calibration laboratory.

## 3.2 Unattended Background Noise Monitoring Methodology

A logger was located towards the south-western end of the subject site. The microphone was in a free-field location, approximately 1.2m above ground and 25m from the nearest lane of Tweed Coast Road. Refer to Figure 2 in Appendix A for the logger location.

The logger was set to record noise statistics in 15 minute blocks continually between Thursday 4/09/2014 and Thursday 11/09/2014.

All measurements were conducted generally in accordance with Australian Standard AS 1055:1997 – "Acoustics-Description and measurement of environmental noise". The operation of the sound level logging equipment was field calibrated before and after the measurement session with no significant drift from the reference signal recorded.

Daily weather observations were obtained from the Bureau of Meteorology Coolangatta weather station. Weather conditions during the assessed monitoring period were generally fine with the exception of 11mm of rain on Tuesday 9/09/2014; with a temperature range between approximately 6 and 25°C and relative humidity between 28 and 92%.

#### 3.3 Unattended Background Noise Monitoring Results

Table 1 presents the measured noise levels at the logger location. Graphical presentation of the measured levels is in Appendix C. Rating Background Levels (RBLs) were calculated using the method provided in Appendix B of the "NSW Industrial Noise Policy".

Dooksmannd Noise		Measured Level L <sub>A90</sub> dB(A)	
Background Noise	Daytime (7am to 6pm)	Evening (6pm to 10pm)	Night (10pm to 7am)
Thursday 04/09/14	-	49	-
Friday 05/09/14	51	47	45
Saturday 06/09/14	51	47	45
Sunday 07/09/14	49	45	45
Monday 08/09/14	51	45	45
Tuesday 09/09/14	48	45	44
Wednesday 10/09/14	51	46	44
Thursday 11/09/14	49	46	44
RBLs	51	46	45

**Table 1:** Measured ambient noise levels at the logger location.



## 4.0 NOISE ASSESSMENT CRITERION

Noise associated with the commercial premises is regulated by the "NSW Industrial Noise Policy" and is as follows:

• Control of intrusive noise impacts – The limit criteria for this assessment is as follows:  $L_{Aeq, 15 \text{ min}} \le \text{rating background level}^1 + 5 \text{ dB};$ 

Daytime (7 am - 6 pm Mon-Sat; 8 am - 6 pm Sun)
 Evening (6 pm - 10 pm)
 Night (remaining periods)
 Daytime (7 am - 6 pm Mon-Sat; 8 am - 6 pm Sun)
 (RBL 51 + 5) dB(A) L<sub>eq</sub>;
 (RBL 46 + 5) dB(A) L<sub>eq</sub>;
 (RBL 45 + 5) dB(A) L<sub>eq</sub>;

• Maintaining noise level amenity for residential premises. This is achieved by ensuring that the proposed development complies with the noise limit criteria set in Table 2.1 of the Policy. If we assume that the area is within a Suburban Area (as defined in the Policy), the following applies:

Indicative Noise Amenity Area	Time of Day	Recommended L <sub>Aeq.</sub> Noise Lev dB(A) (see Note 8 in Section 2.2.1)						
		Acceptable (See Note 11)	Recommended Maximum (See Note 11)					
Suburban	Day	55	60					
	Evening	45	50					
	Night	40	45					

Table 2: Amenity Criterion Prescribed in the New South Wales EPA "Industrial Noise Policy".

The overall resulting criterion for the development is determined by comparing the amenity and intrusive noise criteria, and applying the lower of the two criteria. From the data and our calculations, the project noise assessment criterion is as follows:

Daytime (7 am - 6 pm Mon-Sat; 8 am - 6 pm Sun)
 Evening (6 pm - 10 pm)
 Night (remaining periods)
 55 dB(A) L<sub>eq</sub>;
 45 dB(A) L<sub>eq</sub>; and
 40 dB(A) L<sub>eq</sub>.

<sup>1</sup> The rating background level is the overall single figure background level representing each assessment period (day/evening/night over the whole monitoring period.

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### 5.0 PREDICTED NOISE IMPACTS

All noise source levels used in the assessment have been collected from similar previous investigations. All  $L_{eq}$  noise levels have been corrected for impulsiveness or tonality as per Australian Standard AS 1055:1997 – "Acoustics-Description and measurement of environmental noise".

The following noise sources are typically associated with the operation of a service station development and have been assessed within this report:

Activity / Noise Source	Event Noise Level, SPL Leq dB(A)
Car door closure	78* at 1m
Car bypass at 5km/hr	72 at 1m
Tyre pressure beeper	75** at 1m
Carwash: foam spray / low pressure rinse	66 at 3m
Carwash: high pressure rinse / water blaster	76 at 3m
Carwash: air blower	85 at 3m
Carwash: commercial vacuum unit	77** at 6m
Truck bypass	82 at 1m
Truck airbrake	97* at 1m
Goods delivery (manual unloading)	70 at 1m
Waste collection	90* at 1m
Air-conditioning plant x 4	67 at 2m
Refrigeration compressor x 3	65 at 2m
Air compressor	72** at 1m

**Table 4:** Typical noise source levels associated with a service station.

Short-term measured  $L_{\text{Aeq}}$  levels have been converted to  $L_{\text{Aeq 15min}}$  levels by estimating a worst case number of events / duration for which each activity occurs during any 15 minute period. For continuous noise sources (i.e. mechanical plant), a 15 minute duration has been adopted. We note that final plant requirements are not known at this stage, therefore we have applied noise levels from other similar developments. Noise levels associated with mechanical plant are purely illustrative, and should be reviewed upon determination of types of plant.

The L<sub>eq</sub> calculation sheets in Appendix C of this report present the assumed noise source event duration and expected number of events per assessment period (i.e. daytime, evening and night-time).

Based upon the location of service station activities in relation to the offsite noise sensitive receivers, we predict the following  $L_{eq}$  noise impact levels as presented in Table 5.

The predicted levels include the acoustic treatments detailed in Section 6 of this report. For point source calculation sheets refer to the Appendix C of this report.

Daytime Noise Source	Nearest Façade Predicted Noise Impact, SPL L <sub>eq 15min</sub> dB(A)
Dwelling Due North	x / -q //
Car door closure car space	<10
Car door closure at bowser	<10
Car bypass at 5km/hr	27
Tyre pressure beeper	11
Carwash: foam spray / low pressure rinse	<10
Carwash: high pressure rinse / water blaster	22
Carwash: air blower	28
Carwash: commercial vacuum unit	38
Truck bypass	28
Truck airbrake	30
Goods delivery (manual unloading)	22
Waste collection	37
Air-conditioning plant x 4	22
Refrigeration compressor x 3	21
Air compressor	19
Combined daytime noise	42
Dwelling Due East	TM
Car door closure car space	<b>410</b>
Car door closure at bowser	<10
	<10 23
Car bypass at 5km/hr	<10
Tyre pressure beeper Carwash: foam spray / low pressure rinse	
	<10
Carwash: high pressure rinse / water blaster Carwash: air blower	16 21
Carwash: commercial vacuum unit	31
	24
Truck bypass Truck airbrake	24 26
	19
Goods delivery (manual unloading)  Waste collection	34
Air-conditioning plant x 4	19
	18
Refrigeration compressor x 3 Air compressor	16
Combined daytime noise	37
	31
Dwelling Due West across Tweed Coast Rd	
Car door closure car space	19
Car door closure at bowser	17
Car bypass at 5km/hr	38
Tyre pressure beeper	10
Carwash: foam spray / low pressure rinse	20
Carwash: high pressure rinse / water blaster	33
Carwash: air blower	39
Carwash: commercial vacuum unit	45
Truck bypass	39
Truck airbrake	32
Goods delivery (manual unloading)	30
Waste collection	45
Air-conditioning plant x 4	23
Refrigeration compressor x 3	22
Air compressor	20
Combined daytime noise	49
Daytime Criterion	55

Table 5 (P6-8): Predicted  $L_{\text{eq}}$  noise impact levels at offsite noise sensitive receivers.

<b>Evening Noise Source</b>	Nearest Façade Predicted Noise Impact, SPL L <sub>eq 15min</sub> dB(A)
<b>Dwelling Due North</b>	
Car door closure car space	<10
Car door closure at bowser	<10
Car bypass at 5km/hr	24
Tyre pressure beeper	<10
Carwash: foam spray / low pressure rinse	<10
Carwash: high pressure rinse / water blaster	22
Carwash: air blower	28
Carwash: commercial vacuum unit	38
Truck bypass	27
Truck airbrake	29
Goods delivery (manual unloading)	21
Air-conditioning plant x 4	22
Refrigeration compressor x 3	21
Air compressor	19
Combined evening noise	39
Dwelling Due East	
Car door closure car space	<10
Car door closure at bowser	<10
Car bypass at 5km/hr	20
Tyre pressure beeper	<10
Carwash: foam spray / low pressure rinse	<10
Carwash: high pressure rinse / water blaster	16
Carwash: air blower	21
Carwash: commercial vacuum unit	31
Truck bypass	22
Truck airbrake	24
Goods delivery (manual unloading)	19
Air-conditioning plant x 4	19
Refrigeration compressor x 3	18
Air compressor	16
Combined evening noise	34
Dwelling Due West across Tweed Coast Rd	
Car door closure car space	16
Car door closure at bowser	14
Car bypass at 5km/hr	35
Tyre pressure beeper	<10
Carwash: foam spray / low pressure rinse	20
Carwash: high pressure rinse / water blaster	33
Carwash: air blower	39
Carwash: commercial vacuum unit	45
Truck bypass	37
Truck airbrake	30
Goods delivery (manual unloading)	30
Air-conditioning plant x 4	23
Refrigeration compressor x 3	22
Air compressor	20
Combined evening noise	47
9	

Table 5 (P6-8): Predicted  $L_{\text{eq}}$  noise impact levels at offsite noise sensitive receivers.



Night Noise Source	Nearest Façade Predicted Noise Impact, SPL Leq 15min dB(A)
Dwelling Due North	
Car door closure car space	<10
Car door closure at bowser	<10
Car bypass at 5km/hr	22
Tyre pressure beeper	<10
Carwash: foam spray / low pressure rinse	<10
Carwash: high pressure rinse / water blaster	22
Carwash: air blower	28
Truck bypass	21
Truck airbrake	25
Air-conditioning plant x 4	22
Refrigeration compressor x 3	21
Air compressor	19
Combined night-time noise	32
Dwelling Due East	
Car door closure car space	<10
Car door closure at bowser	<10
Car bypass at 5km/hr	18
Tyre pressure beeper	<10
Carwash: foam spray / low pressure rinse	<10
Carwash: high pressure rinse / water blaster	16
Carwash: air blower	21
Truck bypass	17
Truck airbrake	21
Air-conditioning plant x 4	19
Refrigeration compressor x 3	18
Air compressor	16
Combined night-time noise	28
<b>Dwelling Due West across Tweed Coast Rd</b>	
Car door closure car space	14
Car door closure at bowser	11
Car bypass at 5km/hr	32
Tyre pressure beeper	<10
Carwash: foam spray / low pressure rinse	20
Carwash: high pressure rinse / water blaster	33
Carwash: air blower	39
Truck bypass	32
Truck airbrake	27
Air-conditioning plant x 4	23
Refrigeration compressor x 3	22
Air compressor	20
Combined night-time noise	41
Night-time Criterion	40

Table 5 (P6-8): Predicted  $L_{\text{eq}}$  noise impact levels at offsite noise sensitive receivers.

## 6.0 RECOMMENDED ACOUSTIC TREATMENTS

Based upon the adopted noise source levels, the following acoustic treatments and management controls are recommended to mitigate onsite activity noise emissions:

- The Service Station and Carwash operate 24 hours per day.
- The car vacuums be limited to 7am and 10pm, or a further assessment be undertaken to review restriction of use once actual plant is selected.
- Goods delivery (including fuel delivery) be limited to 7am and 10pm.
- Waste collection be limited to 7am and 6pm Monday to Saturday.
- The carwash is to be constructed with solid walls and a solid roof. The carwash is to also have
  the installation of automatic doors. These doors should provide more than 15 dB noise
  reduction.
- Drainage grates over trafficable areas be well fixed to avoid rattling when a vehicle passes over the grate.
- Mechanical plant be designed and installed to comply with the noise criterion presented in Section 4. As final plant requirements are not known at this stage, additional acoustic assessment/s should be undertaken prior to Commencement of Use to confirm acceptable noise levels have been achieved; and be conditioned within the Development Approval. Based upon the assumed plant noise source levels, acoustic screening to the western dwellings is likely to be required such as locating plant on the eastern side of the service station building envelope; or incorporating acoustic barriers / enclosures at roof-top plant.

### 7.0 DISCUSSION

The subject site is described as Lot 7 on DP875447 and is bounded by Tweed Coast Road to the southwest, Cudgen Creek to the southeast and a rural residential property to the north. The proposal is to construct a service station with carwash and two drive-through facilities.

We are advised that the site intends to operate 24 hours, seven days per week.

Based upon the recommended acoustic treatments and management controls,  $L_{eq}$  noise impact levels at the nearest offsite noise sensitive receivers are predicted below the daytime external noise criterion; and within 2 dB of the evening and night-time external noise criterion.

As the average person cannot generally detect a 3 dB variation in sound pressure level, a 2 dB rise is unlikely to be detectable and is typically considered and acceptable outcome.

Based upon the predicted noise impacts we have recommended that the hours of operation for the car vacuums be limited to between 7am and 10pm, with goods delivery (including fuel delivery) also limited to 7am to 10pm to minimise noise events during the night-time period. The restriction to hours of use of the vacuums can be reassessed once the actual plant type is determined, although it is noted that some of the noise from vacuum use is from the actual nozzle itself, and not the suction motor plant.

To control noise emissions from the service station development we have also recommended best practice controls such as limiting waste collection to the daytime period.

Given that the carwash is located at the northwest corner of the development site, closest to the western offsite noise sensitive receivers, automatic acoustic doors have been recommended for the carwash (to achieve a minimum noise reduction of 15 dB) and solid walls and a solid roof.

It is also noted that the dwellings to the north and east are greater than 200m from the subject site; therefore, land buffer will provide significant attenuation of onsite noise emissions. For the western offsite dwellings, Tweed Coast Road separates the site from the dwellings; therefore, traffic noise emissions will likely produce higher noise impacts at the western dwellings than the subject site. As the local area continues to be developed, road traffic on Tweed Coast Road noise will become a more significant noise source, providing higher ambient background noise levels; and resulting is lesser perceived noise impacts from the proposed service station and carwash.

We have also provided an indication of potential noise impact levels and acoustical treatment requirements of likely onsite mechanical plant; although the levels are merely a guide as no plant selections have yet been completed. For this reason, additional acoustic assessment/s should be undertaken prior to Commencement of Use (by each of the onsite tenancies) to confirm acceptable noise levels have been achieved; and be conditioned within the Development Approval.



## 8.0 CONCLUSIONS

This report is in response to a request from LEDA Developments Pty Ltd for an environmental noise impact assessment of a service station in Kings Forest.

Overall, the proposed development will generally be within acceptable levels of the adopted criterion, subject to the acoustic treatments recommended in Section 6 being integrated into the design, construction and operation of the service station and carwash.

Report Reviewed By:

JAY CARTER BSc

Director

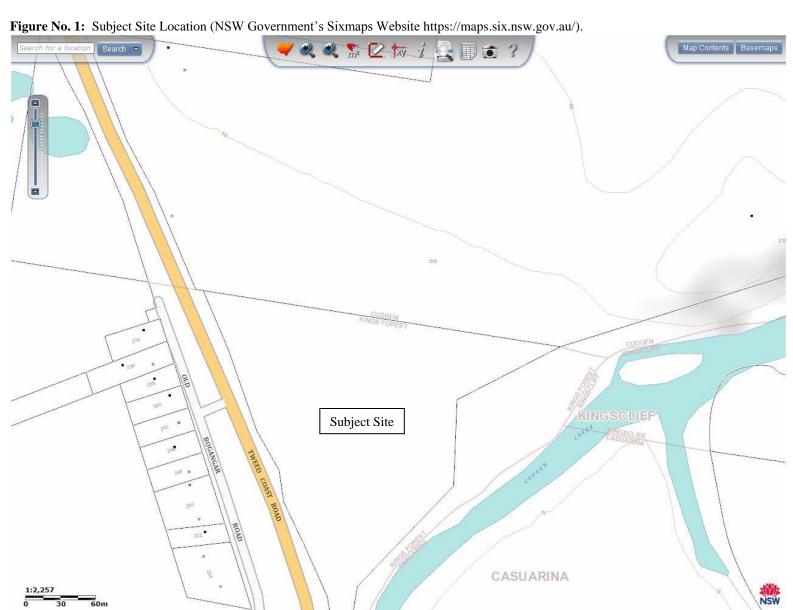
Report Compiled by:

Matthew Lopez BEng

Consultant

# APPENDIX A

Subject Site and Logger Location



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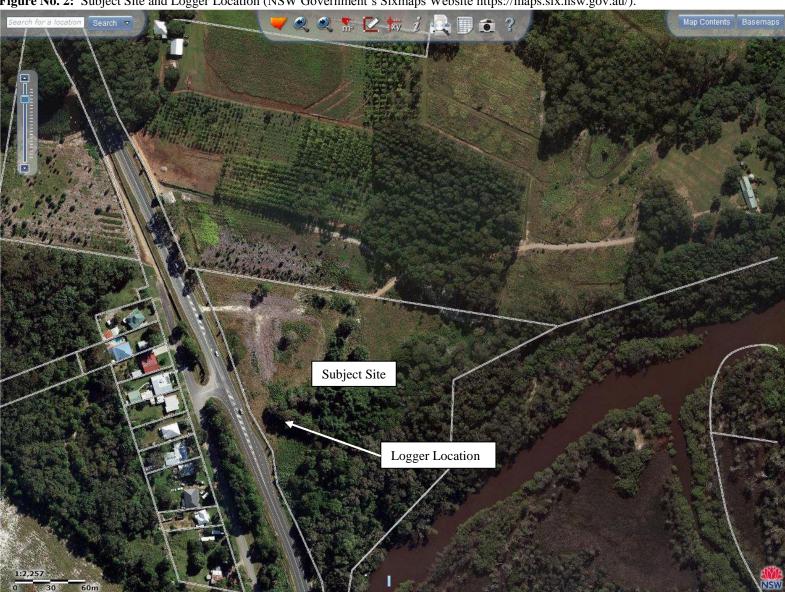
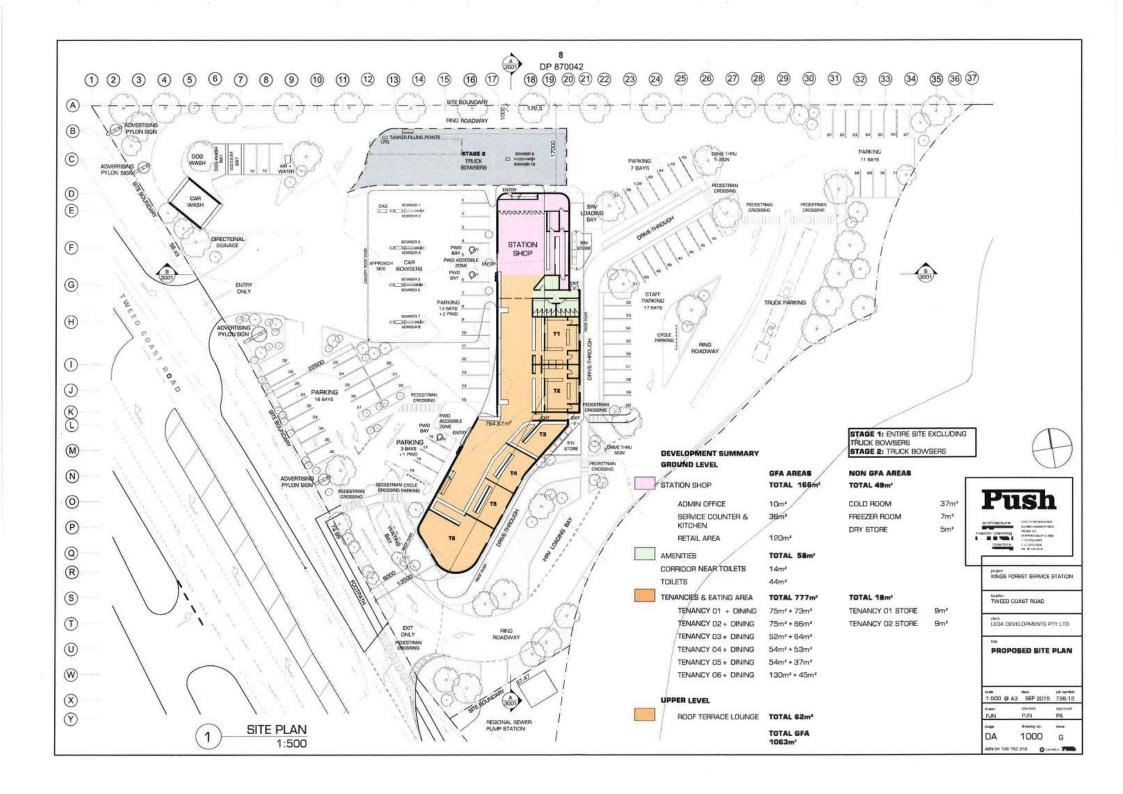


Figure No. 2: Subject Site and Logger Location (NSW Government's Sixmaps Website https://maps.six.nsw.gov.au/).

# APPENDIX B

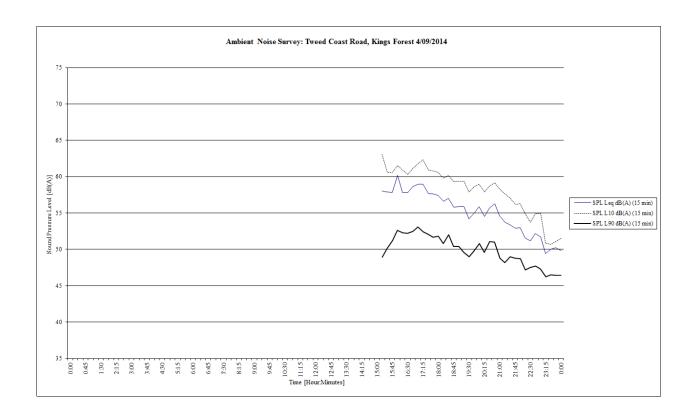
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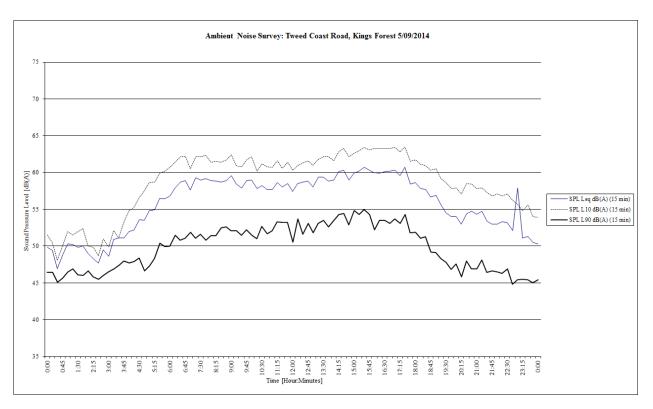


## APPENDIX C

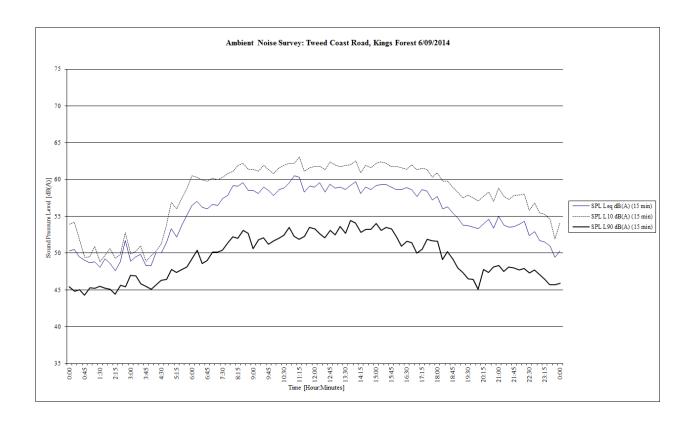
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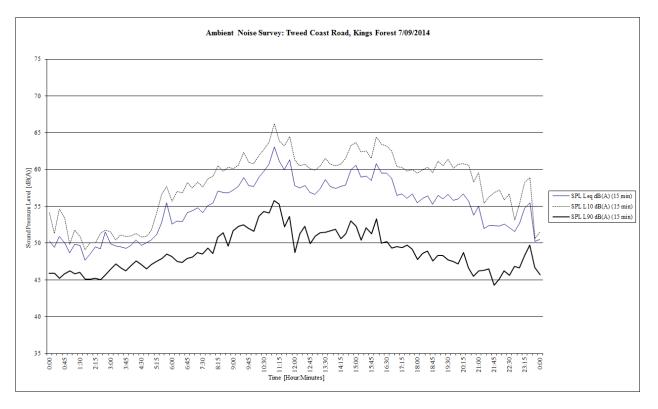


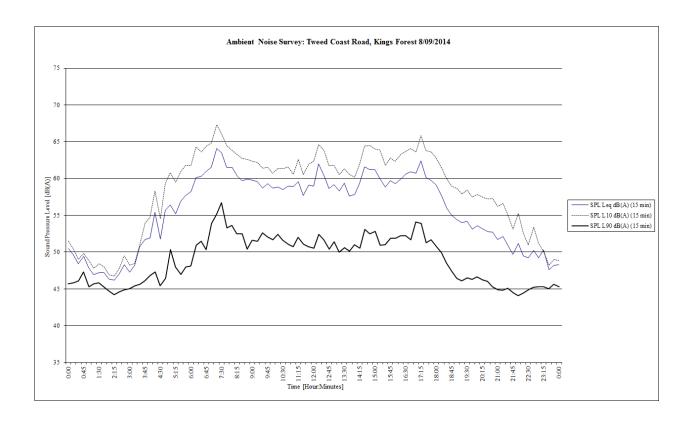


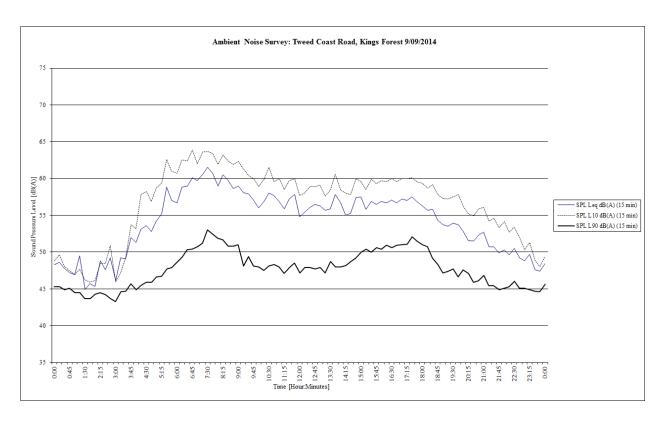




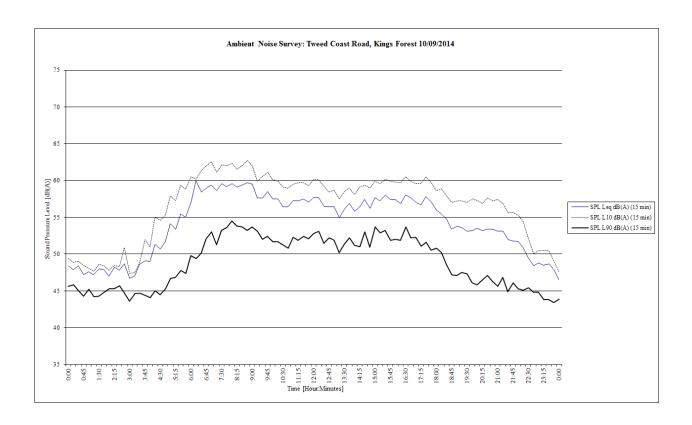


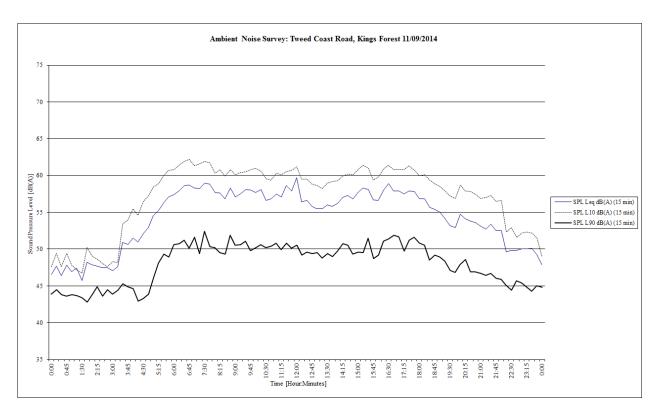












DAYTIME										
Leq OFFSITE COMMERCIAL AC	CTIVITIES	IMPACTING:	İ							
Dwelling Due North			H	Dwelling Due East				Dwellings Due West		
Car door closure car space	78	dB(A) @ 1m	#	Car door closure car space	78	dB(A) @ 1m	#	Car door closure car space	78	dB(A) @ 1m
Single event duration	0.052		1"	Single event duration	0.052		l"	Single event duration	0.052	
Number of events in 15 mins		events	T	Number of events in 15 mins		events		Number of events in 15 mins		events
Worst case duration in 15 mins	0.043	mins		Worst case duration in 15 mins	0.043	mins		Worst case duration in 15 mins	0.043	mins
15 min Leq	52.6	dB(A) @ 1m		15 min Leq	52.6	dB(A) @ 1m		15 min Leq	52.6	dB(A) @ 1m
Distance to receiver	217		L	Distance to receiver	319		L	Distance to receiver		m
Barrier Screening		dB(A)	H	Barrier Screening		dB(A)	L	Barrier Screening		dB(A)
Distance attenuation		dB(A)	H	Distance attenuation	-50.1	dB(A)		Distance attenuation		dB(A)
Façade reflection Impact at Façade	2.5		١,	Façade reflection Impact at Façade	2.5	dB(A) dB(A)	3	Façade reflection Impact at Façade	19	dB(A) dB(A)
Impact at Paçade	8	ub(A)	ľ	Impact at Paçade	,	ub(A)	J	Impact at raçade	19	ub(A)
Car door closure at bowser	78	dB(A) @ 1m	#	Car door closure at bowser	78	dB(A) @ 1m	#	Car door closure at bowser	78	dB(A) @ 1m
Single event duration	0.052	seconds	L	Single event duration	0.052	seconds		Single event duration	0.052	seconds
Number of events in 15 mins	50			Number of events in 15 mins		events		Number of events in 15 mins		events
Worst case duration in 15 mins	0.043	mins	+	Worst case duration in 15 mins	0.043		L	Worst case duration in 15 mins	0.043	
15 min Leq	52.6		+	15 min Leq	_	dB(A) @ 1m		15 min Leq	_	dB(A) @ 1m
Distance to receiver	238	m dB(A)	+	Distance to receiver Barrier Screening	385 0			Distance to receiver Barrier Screening	85 0	m dB(A)
Barrier Screening Distance attenuation		dB(A)	H	Distance attenuation		dB(A)		Distance attenuation		dB(A)
Facade reflection	2.5		t	Façade reflection		dB(A)	Н	Façade reflection	2.5	dB(A)
Impact at Façade	8	dB(A)	6	Impact at Façade	3		2	Impact at Façade	17	dB(A)
1		- V7	ر ر			(/	Ī	1		
Car bypass @ 5km/hr	72		#	Car bypass @ 5km/hr	72	dB(A) @ 1m	#	Car bypass @ 5km/hr	72	
Single event duration	7	seconds	1	Single event duration	7	seconds	L	Single event duration	7	seconds
Number of events in 15 mins		events	L	Number of events in 15 mins		events		Number of events in 15 mins		events
Worst case duration in 15 mins	11.67		1	Worst case duration in 15 mins	_	mins	1	Worst case duration in 15 mins	11.67	mins
15 min Leq Distance to receiver	70.9	dB(A) @ 1m	+	15 min Leq	70.9		Ł	15 min Leq Distance to receiver		dB(A) @ 1m
	210	m dB(A)	H	Distance to receiver	325	m dB(A)		Distance to receiver Barrier Screening	62	m dB(A)
Barrier Screening Distance attenuation	-46.4		H	Barrier Screening Distance attenuation		dB(A)	H	Distance attenuation		dB(A)
Facade reflection	2.5	. ,	t	Facade reflection		dB(A)		Façade reflection		dB(A)
Impact at Façade	2.3		#	Impact at Façade	_	dB(A)	#	Impact at Façade	38	/
1			T				Г	Ţ		
Tyre pressure beeper	75		#	Tyre pressure beeper	75	dB(A) @ 1m	#	Tyre pressure beeper	75	dB(A) @ 1m
Single event duration	1	seconds	L	Single event duration	1	seconds		Single event duration	1	seconds
Number of events in 15 mins		events	H	Number of events in 15 mins		events	L	Number of events in 15 mins		events
Worst case duration in 15 mins	0.167		+	Worst case duration in 15 mins	0.167		H	Worst case duration in 15 mins	0.167	
15 min Leq	55.5		+	15 min Leq		dB(A) @ 1m	┞	15 min Leq	_	dB(A) @ 1m
Distance to receiver Barrier Screening	220	m dB(A)	H	Distance to receiver	435	m dB(A)	H	Distance to receiver Barrier Screening	80	m dB(A)
Distance attenuation		dB(A)	t	Barrier Screening Distance attenuation		dB(A)		Distance attenuation		dB(A)
Facade reflection	2.5		t	Façade reflection		dB(A)		Façade reflection	2.5	dB(A)
Impact at Façade	11	dB(A)	#	Impact at Façade	5		3	Impact at Façade	10	1 /
Carwash foam spray	66	dB(A) @ 3m	#	Carwash foam spray	66	. ( )	#	1 7	66	1 /
Single event duration	180	seconds	H	Single event duration	180			Single event duration	180	seconds
Number of events in 15 mins Worst case duration in 15 mins	3		H	Number of events in 15 mins	1	events mins		Number of events in 15 mins	1	events
15 min Leq	59.0	mins dB(A) @ 1m	+	Worst case duration in 15 mins	59.0		H	Worst case duration in 15 mins 15 min Leq		mins dB(A) @ 1m
Distance to receiver	222		+	Distance to receiver	453	m	╁	Distance to receiver		m
Inside to outside attenuation		dB(A)	t	Inside to outside attenuation		dB(A)		Inside to outside attenuation		dB(A)
Distance attenuation	-37.4		T	Distance attenuation	-43.6	dB(A)		Distance attenuation		dB(A)
Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)
Impact at Façade	9	dB(A)	8	Impact at Façade	3	dB(A)	2	Impact at Façade	20	dB(A)
C		MD(A) 6: 2		Complete the control of the control		JD(A) 6: 2		C		ID(A) 6 2
Carwash high pressure rinse		dB(A) @ 3m	#			dB(A) @ 3m	#	Carwash high pressure rinse		dB(A) @ 3m
Single event duration Number of events in 15 mins	180	seconds events	£	Single event duration Number of events in 15 mins	180	seconds events		Single event duration Number of events in 15 mins		seconds events
Worst case duration in 15 mins	6		t	Worst case duration in 15 mins	_	mins		Worst case duration in 15 mins		mins
15 min Leq		dB(A) @ 1m	+	15 min Leq		dB(A) @ 1m	t	15 min Leq		dB(A) @ 1m
Distance to receiver	222		1	Distance to receiver	453		1	Distance to receiver		m
Inside to outside attenuation		dB(A)	1	Inside to outside attenuation		dB(A)		Inside to outside attenuation		dB(A)
Distance attenuation		dB(A)	Ι	Distance attenuation		dB(A)		Distance attenuation		dB(A)
Façade reflection	2.5			Façade reflection		dB(A)		Façade reflection	2.5	dB(A)
Impact at Façade	22	dB(A)	#	Impact at Façade	16	dB(A)	#	Impact at Façade	33	dB(A)
Carvach air blown-	0=	dD(A) @ 2	#	Cormoch air blower	0=	dD(A) @ 2	#	Cornech oir blowns	0.5	dD(A) @ 2
Carwash air blower	180		#		180	dB(A) @ 3m	#	Carwash air blower	180	dB(A) @ 3m seconds
Single event duration Number of events in 15 mins	180	seconds events	1	Single event duration Number of events in 15 mins	180	seconds events		Single event duration Number of events in 15 mins	180	events
Worst case duration in 15 mins		mins	1	Worst case duration in 15 mins	3	mins		Worst case duration in 15 mins	3	mins
15 min Leq	77.5		1	15 min Leq	_	dB(A) @ 1m	1	15 min Leq		dB(A) @ 1m
Distance to receiver	222		1	Distance to receiver	453		1	Distance to receiver	_	m
		dB(A)	Ť	Inside to outside attenuation		dB(A)		Inside to outside attenuation		dB(A)
Inside to outside attenuation							1			dB(A)
Inside to outside attenuation Distance attenuation		dB(A)	Ι	Distance attenuation	-43.6	dB(A)		Distance attenuation	-26.4	ub(A)
		dB(A) dB(A)	ŀ	Distance attenuation Façade reflection		dB(A) dB(A)	L	Distance attenuation Façade reflection		dB(A)



DAYTIME										
Leq OFFSITE COMMERCIAL ACT	TIVITIES	IMPACTING:								
Dwelling Due North  Carwash vaccum unit	77	dB(A) @ 6m	#	Dwelling Due East Carwash vaccum unit	77	dB(A) @ 6m	#	Dwellings Due West Carwash vaccum unit	77	dB(A) @ 6m
Single event duration	300	seconds	ľ	Single event duration	300	` '	"	Single event duration	300	
Number of events in 15 mins	2	events		Number of events in 15 mins	2	events		Number of events in 15 mins	2	events
Worst case duration in 15 mins	10	mins	1	Worst case duration in 15 mins		mins		Worst case duration in 15 mins		mins
15 min Leq Distance to receiver	75.2 217	dB(A) @ 1m m	╀	15 min Leq Distance to receiver	75.2 445	dB(A) @ 1m m	H	15 min Leq Distance to receiver	75.2 73	
Inside to outside car attenuation	-9	dB(A)	H	Inside to outside car attenuation		dB(A)		Inside to outside car attenuation and be		dB(A)
Distance attenuation	-31.2			Distance attenuation		dB(A)		Distance attenuation		dB(A)
Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)
Impact at Façade	38	dB(A)	#	Impact at Façade	31	dB(A)	#	Impact at Façade	45	dB(A)
Tanak burasa	82	JD(A) @ 1	#	Truck bypass	92	dB(A) @ 1m	#	Truck bypass	92	dB(A) @ 1m
Truck bypass Single event duration	10	dB(A) @ 1m seconds	#	Single event duration	10		#	Single event duration	10	
Number of events in 15 mins	10		H	Number of events in 15 mins		events		Number of events in 15 mins		events
Worst case duration in 15 mins	1.667	mins		Worst case duration in 15 mins	1.667	mins		Worst case duration in 15 mins	1.667	mins
15 min Leq	72.5	dB(A) @ 1m		15 min Leq	72.5	dB(A) @ 1m		15 min Leq	72.5	dB(A) @ 1m
Distance to receiver	225	m	L	Distance to receiver	340			Distance to receiver	62	
Barrier Screening	0	dB(A)	H	Barrier Screening	0	,		Barrier Screening	0	dB(A)
Distance attenuation Façade reflection	-47.0 2.5	dB(A) dB(A)	H	Distance attenuation Facade reflection	-50.6	dB(A) dB(A)		Distance attenuation Façade reflection	-35.8	dB(A) dB(A)
Impact at Façade	2.3	dB(A)	#	Impact at Façade	2.3	dB(A)	#	Impact at Façade	39	dB(A)
,	20	/	1	,	24		Ű	,	- 57	
Truck airbrakes	97	dB(A) @ 1m	#	Truck airbrakes	97	dB(A) @ 1m	#	Truck airbrakes	97	dB(A) @ 1m
Single event duration	0.5	seconds	Г	Single event duration	0.5			Single event duration	0.5	
Number of events in 15 mins	10	events	L	Number of events in 15 mins		events	L	Number of events in 15 mins		events
Worst case duration in 15 mins	0.083	mins	1	Worst case duration in 15 mins	0.083	mins		Worst case duration in 15 mins	0.083	mins
15 min Leq Distance to receiver	74.4	dB(A) @ 1m	╀	15 min Leq Distance to receiver	74.4			15 min Leq	74.4	
Distance to receiver Barrier Screening	225	m dB(A)	H	Distance to receiver Barrier Screening	340	m dB(A)	H	Distance to receiver Barrier Screening	70	m dB(A)
Distance attenuation	-47.0	dB(A)	H	Distance attenuation	-50.6	. ,		Distance attenuation	-36.9	dB(A)
Façade reflection	2.5	dB(A)	İ	Façade reflection	2.5	dB(A)		Façade reflection		. ,
Impact at Façade	30	dB(A)	#	Impact at Façade	26	dB(A)	#	Impact at Façade	32	dB(A)
			L				Ļ			
Goods delivery	70	dB(A) @ 1m	#	Goods delivery	70		#	Goods delivery	70	
Single event duration	600	seconds	H	Single event duration	600	seconds		Single event duration	600	seconds
Number of events in 15 mins  Worst case duration in 15 mins	10	events mins	H	Number of events in 15 mins Worst case duration in 15 mins	10	events mins		Number of events in 15 mins Worst case duration in 15 mins	10	events mins
15 min Leq	68.2	dB(A) @ 1m	۲	15 min Leq	68.2	dB(A) @ 1m	Н	15 min Leq	68.2	dB(A) @ 1m
Distance to receiver	260	m	t	Distance to receiver	380			Distance to receiver	110	
Barrier Screening	0	dB(A)	L	Barrier Screening		dB(A)		Barrier Screening		dB(A)
Distance attenuation	-48.3	dB(A)		Distance attenuation	-51.6	dB(A)		Distance attenuation	-40.8	dB(A)
Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)
Impact at Façade	22	dB(A)	#	Impact at Façade	19	dB(A)	#	Impact at Façade	30	dB(A)
Waste collection	90	dB(A) @ 1m	#	Waste collection	90	dB(A) @ 1m	#	Waste collection	90	dB(A) @ 1m
Single event duration	180	seconds	"	Single event duration	180	seconds	#	Single event duration	180	seconds
Number of events in 15 mins	1	events	L	Number of events in 15 mins	1	events		Number of events in 15 mins	1	events
Worst case duration in 15 mins	3	mins		Worst case duration in 15 mins	3	mins		Worst case duration in 15 mins	3	mins
		dB(A) @ 1m	1	15 min Leq	83.0	dB(A) @ 1m		15 min Leq	02.0	dB(A) @ 1m
15 min Leq	83.0	GD(11) C 1111		Distance to receiver						
15 min Leq Distance to receiver	260	m			380	m		Distance to receiver	110	
15 min Leq Distance to receiver Barrier Screening	260 0	m dB(A)		Barrier Screening	380 0	m dB(A)		Barrier Screening	110 0	dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation	260 0 -48.3	m dB(A) dB(A)		Barrier Screening Distance attenuation	380 0 -51.6	m dB(A) dB(A)		Barrier Screening Distance attenuation	110 0 -40.8	dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection	260 0 -48.3 2.5	m dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection	380 0 -51.6 2.5	m dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection	110 0 -40.8 2.5	dB(A) dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection	260 0 -48.3	m dB(A) dB(A)	#	Barrier Screening Distance attenuation	380 0 -51.6	m dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation	110 0 -40.8	dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade	260 0 -48.3 2.5	m dB(A) dB(A) dB(A)	Ë	Barrier Screening Distance attenuation Façade reflection	380 0 -51.6 2.5 34	m dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection	110 0 -40.8 2.5 45	dB(A) dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4	260 0 -48.3 2.5 37	m dB(A) dB(A) dB(A) dB(A)	Ë	Barrier Screening Distance attenuation Façade reflection Impact at Façade	380 0 -51.6 2.5 34	m dB(A) dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration	110 0 -40.8 2.5 45	dB(A) dB(A) dB(A) dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins	260 0 -48.3 2.5 37 67 300	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) expression dB(A) @ 2m seconds events	Ë	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins	380 0 -51.6 2.5 34 67 300	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins	110 0 -40.8 2.5 45 67 300	dB(A) dB(A) dB(A) dB(A) dB(A) expression of the dB(A) @ 2m seconds events
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins	260 0 -48.3 2.5 37 67 300 1	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins	Ë	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins	380 0 -51.6 2.5 34 67 300 1	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins	110 0 -40.8 2.5 45 67 300 1	dB(A) dB(A) dB(A) dB(A) dB(A) expression of the seconds events mins
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	260 0 -48.3 2.5 37 67 300 1 5 62.2	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) expression of the control of	Ë	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	380 0 -51.6 2.5 34 67 300 1 5	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) expression dB(A) @ 2m seconds events mins dB(A) @ 2m	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	110 0 -40.8 2.5 45 67 300 1 5	dB(A) dB(A) dB(A) dB(A) dB(A) egen seconds events mins dB(A) @ 2m
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	260 0 -48.3 2.5 37 67 300 1 5 62.2 260	m dB(A) dB(A) dB(A) dB(A)  dB(A)  expected dB(A) @ 2m seconds events mins dB(A) @ 2m m	Ë	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	380 0 -51.6 2.5 34 67 300 1 5 62.2 390	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) expression dB(A) @ 2m seconds events mins dB(A) @ 2m m	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	110 0 -40.8 2.5 45 67 300 1 5 62.2	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	260 0 -48.3 2.5 37 67 300 1 5 62.2 260	m dB(A) dB(A) dB(A) dB(A) dB(A) e 2m seconds events mins dB(A) @ 2m m dB(A)	Ë	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	380 0 -51.6 2.5 34 67 300 1 5 62.2 390	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	110 0 -40.8 2.5 45 67 300 1 5 62.2 95 -8	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation	260 0 -48.3 2.5 37 67 300 1 5 62.2 260 0	m dB(A) dB(A) dB(A) dB(A) dB(A) e 2m seconds events mins dB(A) @ 2m m dB(A)	Ë	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	380 0 -51.6 2.5 34 67 300 1 5 62.2 390 0	m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	110 0 -40.8 2.5 45 67 300 1 5 62.2 95 -8	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) @ 4m
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	260 0 -48.3 2.5 37 300 1 5 62.2 260 0 -42.3	m dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) @ 40	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	380 0 -51.6 2.5 34 67 300 1 5 62.2 390 0 -45.8 2.5	m dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	110 0 -40.8 2.5 45 67 300 1 5 62.2 95 -8	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) @ 2m
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade  AC plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	260 0 -48.3 2.5 37 300 1 5 62.2 260 0 -42.3 2.5 22	m dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) @ 2m dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4  Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	380 0 -51.6 2.5 34 67 300 1 5 62.2 390 0 -45.8 2.5 19	m dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	110 0 -40.8 2.5 45 67 300 1 5 62.2 95 -8 -33.5 2.5	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3	260 0 -48.3 2.5 37 67 300 1 5 62.2 260 0 -42.3 2.5 22	m dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3	380 0 -51.6 2.5 34 67 300 1 5 62.20 0 -45.8 2.5 19	m dB(A) dB(A	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4  Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3	110 0 -40.8 2.5 45 67 300 1 5 62.5 -8 -33.5 2.5 23	dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance at to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration	260 0 -48.3 2.5 37 300 1 5 5 2.2 260 0 -42.3 2.5 22	m dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) e 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Us min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration	380 0 -51.6 2.5 34 67 300 1 5 62.2 390 0 -45.8 2.5 19	m dB(A) dB(A) dB(A) dB(A) dB(A)  @ 2m seconds events mins dB(A) @ 2m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration	110 0 -40.8 2.5 45 67 300 1 5 62.2 95 -33.5 2.5 23 65 180	dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins	260 0 -48.3 2.5 37 300 1 5 62.2 260 0 -42.3 2.5 22 65 180 2	m dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) execonds events	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4  Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins	380 0 -51.6 2.5 34 67 300 1 5 62.2 390 0 -45.8 2.5 19 65 180 2	m dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A) dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins	110 0 -40.8 2.5 45 67 300 1 5 62.2 95 -8 -33.5 2.5 23 65 180 2	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	260 0 -48.3 2.5 37 300 1 5 62.2 260 0 -42.3 2.5 22 65 180 2	m dB(A) dB(A) dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration Number of events in 15 mins Worst case duration in 15 mins	380 0 -51.6 2.5 34 67 300 1 5 62.2 390 0 -45.8 2.5 19 65 180 2	m dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) dB(	# #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	110 0 0 -40.8 8 -40.8 45 -40.8 8 -33.5 -2.5 180 0 2 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
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15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade  AC plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Façade reflection Impact at Façade  Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration Façade reflection	260 0 48.3 377 300 1 1 5 2 260 0 0 42.3 25.3 260 0 0 42.3 260 0 0 42.3 22 22 22 22 22 23 24 25 26 26 26 26 26 26 27 27 27 27 27 27 27 27 27 27	m dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) executs	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Urst case duration Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Urst case duration in 15 mins Famin Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins	380 0 0 -51.66 2.5.5 344 -677 300 1 1 -45.8 2.5.5 199 -655 180 -66.0 -66	m dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m dB(A) dB(A) dB(A) @ 2m dB(A) dB(A) @ 2m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) e 1m seconds events		Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins Unique to event duration Number of events in 15 mins Façade reflection Impact at Façade  Air compressor Single event duration Impact at Façade  Air compressor Single event duration Number of events in 15 mins	110 0 0 -40.8   40.8   45 -40.8   45 -40.8   45 -40.8   45 -40.8   46 -40.8   47 -40.8   48 -40.8    48 -40.8   48 -40.8   48 -40.8    48 -40.8   48 -40.8    48 -40.8    48 -40.8   48 -40.8    48 -	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Distance attenuation Façade reflection Impact at Façade  Distance attenuation Façade reflection Impact at Façade Distance attenuation in 15 mins Worst case duration in 15 mins Famil Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case devent duration Number of events in 15 mins Worst case duration 15 mins	260 0 0 448.3 2.5.5 37 677 300 1 1 66.2.2 260 60 42.3 2.5.5 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	m dB(A) dB(A	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins United the second of the sec	380 0 0 -51.66 -52.5 34 -67 300 1 5 5 -62.2 -390 -45.8 -65 -180 -61.0 -90 -45.8 -60 -60 -60 -60 -60 -60 -60 -60	m dB(A) dB(A		Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins United the second of the sec	110 0 0 2.5.5 45 677 300 1 5 5 62.2 23 655 180 61.0 95 2.5.5 23 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 5 2 5 2 5 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 2m m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance attenuation Façade reflection Impact at Façade Arc plant x 4 Single event duration In 15 mins I 5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins I 5 min Leq Distance attenuation Façade reflection Impact at Façade Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in I 5 mins Worst case duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins University of the Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins	260 0 0 448.3 2.5.5 37 677 300 1 1 66.2.2 260 60 42.3 2.5.5 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	m dB(A) dB(A	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4  Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance attenuation Sistance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Façade reflection Impact at Façade	380 0 0 -51.66 -52.5 34 -67 300 1 5 5 -62.2 -390 -45.8 -65 -180 -61.0 -90 -45.8 -60 -60 -60 -60 -60 -60 -60 -60	m dB(A) dB(A		Barrier Screening Distance attenuation Façade reflection Impact at Façade Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins University of events in 15 mins University of events in 15 mins Worst case duration in 15 mins Façade reflection Impact at Façade  Air compressor Single event duration Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	110 0 0 2.5.5 45 677 300 1 5 5 62.2 23 655 180 61.0 95 2.5.5 23 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 5 2 5 2 5 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration Distance attenuation Façade reflection Impact at Façade Distance attenuation Façade reflection Impact at Façade Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins Its min Leq Distance at case duration in 15 mins Its min Leq Distance at case duration in 15 mins Its min Leq Distance at case duration in 15 mins Its min Leq Distance at case duration in 15 mins Its min Leq Distance at case duration in 15 mins Its min Leq Distance at case duration in 15 mins	260 0 48.3 37 370 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	m dB(A) dB(A	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance to receiver Plant enclosure Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Ustance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Ustance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Is min Leq Distance attenuation Façade reflection Impact at Façade	380 0 0 -51.6 2.5 344 -677 300 1 1 300 0 -45.8 2.5 180 2 2 2 3 3 3 3 3 0 0 -45.8 180 2 2 3 3 3 0 0 -45.8 180 180 180 180 180 180 180 18	m dB(A) dB(A		Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance attenuation Sistance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Usistance to receiver Plant enclosure Distance to receiver Plant enclosure	110 0 0 -40.8   -40.8   2.5   45   -45   -45   -45   -45   -46   -27   -46   -27   -28   -37   -28   -37   -29   -38   -37   -38   -	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m m dB(A) dB(A) @ 2m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Aringle event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration Number of events in 15 mins Worst case duration in 15 mins University of events in 15 mins Worst case duration in 15 mins University of events in 15 mins Worst case duration in 15 mins To min Leq Distance to receiver Plant enclosure Distance to receiver Plant enclosure Distance attenuation	260 0 0 448.3 3 3 65.0 0 0 448.3 3 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	m  dB(A)	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance attenuation Sistematic attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Taylor to the properties of th	380 0 0 -51.6 -51.6 -51.6 -51.6 -51.8 -67.3 -300 0 0 -45.8 -2.5 -5.5 -6	m dB(A)		Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Façade reflection Impact at Façade  Distance attenuation Number of events in 15 mins Ustance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance to receiver Plant enclosure Distance to receiver Plant enclosure Distance attenuation	110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance attenuation Façade reflection Impact at Façade Distance attenuation Façade reflection Impact at Façade Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins University of the plant in 15 mins Distance attenuation Façade reflection Distance to receiver Plant enclosure Distance attenuation Façade reflection	260 0 0 48.3 3 3 65.0 0 0 0 0 44.3 3 2.5 5 220	m (B(A) (B(A	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins IS min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins IS min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	380 0 0 -51.6 2.5 -51.6 3.4 -67.7 300 1 1 1 300 0 0 .5 1 80 2 2.5 1 80 -45.8 -45	m dB(A) dB(A		Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Number of events in 15 mins Source case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Distance to receiver Plant enclosure Distance attenuation Façade reflection Façade reflection	110 0 0 -40.8    -40.8   -40.8   -40.8   -40.8   -40.8   -40.8   -40.8   -40.8    -40.	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 2m m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plante neclosure Distance attenuation Façade reflection	260 0 0 448.3 3 3 65.0 0 0 448.3 3 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	m  dB(A)	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance attenuation Sistematic attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Usiance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Taylor to the properties of th	380 0 0 -51.6 -51.6 -51.6 -51.6 -51.8 -67.3 -300 0 0 -45.8 -2.5 -5.5 -6	m dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A)		Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Façade reflection Impact at Façade  Distance attenuation Number of events in 15 mins Ustance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance to receiver Plant enclosure Distance to receiver Plant enclosure Distance attenuation	110 0 0 -40.8    -40.8   -40.8   -40.8   -40.8   -40.8   -40.8   -40.8   -40.8    -40.	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A)
15 min Leq Distance to receiver Barrier Screening Distance attenuation Façade reflection Impact at Façade AC plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration Façade reflection Impact at Façade Distance attenuation Façade reflection Sumber of events in 15 mins Distance attenuation Façade reflection Impact at Façade Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Distance attenuation Façade reflection Distance attenuation Façade reflection Façade reflection Façade reflection	260 0 44.3.3 37 677 300 1 300 1 62.2 260 66.2 2.5 22 22 25.5 180 66.1 20.5	m (B(A) (B(A	# # #	Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins IS min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins IS min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	380 0 0 5.5.3 34 677 300 1 300 1 5.5.5 62.2.2.5 199 655 180 61.0 900 445.8 2.5.5 18 72 60 33 33 33 33 30 30 45.8 30 45.8 45	m dB(A) dB(A		Barrier Screening Distance attenuation Façade reflection Impact at Façade  A/C plant x 4 Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Number of events in 15 mins Source case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins I5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Distance to receiver Plant enclosure Distance attenuation Façade reflection Façade reflection	110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 2m dB(A) @ 2m dB(A) dB(A) @ 2m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m m dB(A) @ 2m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)

EVENING										
EVENING Leg OFFSITE COMMERCIAL AC	TIVITIES	IMPACTING:	H							
Dwelling Due North			L	Dwelling Due East				Dwellings Due West		
Car door closure car space	78	` '	#	Car door closure car space	78	. ,	#	Car door closure car space	78	dB(A) @ 1m
Single event duration	0.052	seconds	L	Single event duration	0.052	seconds		Single event duration	0.052	seconds
Number of events in 15 mins	25	events	H	Number of events in 15 mins	25			Number of events in 15 mins	25	events
Worst case duration in 15 mins	0.022	mins	+	Worst case duration in 15 mins	0.022			Worst case duration in 15 mins	0.022	mins
15 min Leq	49.6	dB(A) @ 1m	╀	15 min Leq	49.6	dB(A) @ 1m		15 min Leq	49.6	dB(A) @ 1m
Distance to receiver	217		Н	Distance to receiver	319		H	Distance to receiver	63	m m
Barrier Screening	0	dB(A)	Н	Barrier Screening		dB(A)		Barrier Screening	26.0	dB(A)
Distance attenuation Facade reflection	-46.7 2.5	dB(A) dB(A)	Н	Distance attenuation Facade reflection	-50.1 2.5	dB(A) dB(A)		Distance attenuation Façade reflection	-36.0 2.5	dB(A) dB(A)
Impact at Façade	2.5	dB(A)	3	Impact at Façade	2.5	dB(A)	2	Impact at Façade	2.5	dB(A)
impact at raçade		dD(71)	Ĭ	impact at raçade		ub(ri)	_	Impact at Façauc	10	ub(11)
Car door closure at bowser	78	dB(A) @ 1m	#	Car door closure at bowser	78	dB(A) @ 1m	#	Car door closure at bowser	78	dB(A) @ 1m
Single event duration	0.052	seconds		Single event duration	0.052	seconds		Single event duration	0.052	seconds
Number of events in 15 mins	25	events		Number of events in 15 mins	25	events		Number of events in 15 mins		events
Worst case duration in 15 mins	0.022	mins		Worst case duration in 15 mins	0.022	mins		Worst case duration in 15 mins	0.022	mins
15 min Leq	49.6	dB(A) @ 1m		15 min Leq	49.6	dB(A) @ 1m		15 min Leq	49.6	dB(A) @ 1m
Distance to receiver	238	m		Distance to receiver	385	m		Distance to receiver	85	m
Barrier Screening	0	dB(A)		Barrier Screening		dB(A)		Barrier Screening	0	dB(A)
Distance attenuation	-47.5			Distance attenuation		dB(A)	Ш	Distance attenuation	-38.6	dB(A)
Façade reflection	2.5			Façade reflection	2.5		Ш	Façade reflection	_	dB(A)
Impact at Façade	5	dB(A)	3	Impact at Façade	0	dB(A)	1	Impact at Façade	14	dB(A)
Con humana @ 51cm #-	72	JD(A) @ 1	#	Con humana @ 51cm #-	70	JD(A) @ 1	#	Car bypass @ 5km/hr	70	JD(A) @ 1
Car bypass @ 5km/hr Single event duration	72	dB(A) @ 1m seconds	#	Car bypass @ 5km/hr Single event duration	72	dB(A) @ 1m seconds	#	Car bypass @ 5km/hr Single event duration	12	dB(A) @ 1m seconds
8				0						
Number of events in 15 mins	50		H	Number of events in 15 mins		events	Н	Number of events in 15 mins	50	events
Worst case duration in 15 mins 15 min Lea	5.833	mins	╀	Worst case duration in 15 mins	5.833		Н	Worst case duration in 15 mins 15 min Lea	5.833	
	67.9		4	15 min Leq		dB(A) @ 1m			_	dB(A) @ 1m
Distance to receiver	210	m		Distance to receiver	325	m		Distance to receiver	62	m
Barrier Screening	0	dB(A)		Barrier Screening		dB(A)		Barrier Screening	0	dB(A)
Distance attenuation	-46.4	. ,		Distance attenuation		dB(A)		Distance attenuation		dB(A)
Façade reflection	2.5		٠.,	Façade reflection		dB(A)	.,	Façade reflection	_	dB(A)
Impact at Façade	24	dB(A)	#	Impact at Façade	20	dB(A)	#	Impact at Façade	35	dB(A)
Tyre pressure beeper	75	dB(A) @ 1m	#	Tyre pressure beeper	75	dB(A) @ 1m	#	Tyre pressure beeper	75	dB(A) @ 1m
Single event duration	1	seconds	1"	Single event duration	1	seconds	-	Single event duration	1	seconds
Number of events in 15 mins	5	events		Number of events in 15 mins	-	events		Number of events in 15 mins	5	events
Worst case duration in 15 mins	0.083	mins		Worst case duration in 15 mins	0.083	mins		Worst case duration in 15 mins	0.083	mins
15 min Leq	52.4	dB(A) @ 1m	1	15 min Leq	52.4	dB(A) @ 1m		15 min Leq	52.4	dB(A) @ 1m
Distance to receiver	220	m	1	Distance to receiver	435	m		Distance to receiver	80	m
Barrier Screening	0	dB(A)		Barrier Screening		dB(A)		Barrier Screening		dB(A)
Distance attenuation	-46.8	dB(A)		Distance attenuation		dB(A)		Distance attenuation	-38.1	dB(A)
Facade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)
Impact at Façade	8	dB(A)	6	Impact at Façade	2.3	dB(A)	2	Impact at Façade	7	dB(A)
,			Ť	,				,		
Carwash foam spray	66	dB(A) @ 3m	#	Carwash foam spray	66	dB(A) @ 3m	#	Carwash foam spray	66	dB(A) @ 3m
Single event duration	180	seconds		Single event duration	180	seconds		Single event duration	180	seconds
Number of events in 15 mins	1	events		Number of events in 15 mins	1	events		Number of events in 15 mins	1	events
Worst case duration in 15 mins	3	mins		Worst case duration in 15 mins	3	mins		Worst case duration in 15 mins	3	mins
15 min Leq	59.0	dB(A) @ 1m	Γ	15 min Leq	59.0	dB(A) @ 1m		15 min Leq	59.0	dB(A) @ 1m
Distance to receiver	222	m		Distance to receiver	453	m		Distance to receiver	63	m
Inside to outside attenuation	-15	dB(A)	L	Inside to outside attenuation	-15	dB(A)		Inside to outside attenuation	-15	dB(A)
Distance attenuation	-37.4	dB(A)	L	Distance attenuation	-43.6	dB(A)	П	Distance attenuation	-26.4	dB(A)
Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)
Impact at Façade	9	dB(A)	8	Impact at Façade	3	dB(A)	2	Impact at Façade	20	dB(A)
										dD(A) @ 2
Common high anger	7.	JD(A) @ 2	#	Common biob masson	7.	JD(A) @ 2	#		7.	dB(A) @ 3m
Carwash high pressure rinse	76		#	Carwash high pressure rinse		dB(A) @ 3m	#	Carwash high pressure rinse		1-
Single event duration	76 180	seconds	#	Single event duration	180	seconds	#	Single event duration		seconds
Single event duration Number of events in 15 mins	180	seconds events	#	Single event duration Number of events in 15 mins	180 2	seconds events	#	Single event duration Number of events in 15 mins	180 2	events
Single event duration Number of events in 15 mins Worst case duration in 15 mins	180 2 6	seconds events mins	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins	180 2 6	seconds events mins	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins	180 2 6	events mins
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	180 2 6 72.0	seconds events mins dB(A) @ 1m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	180 2 6 72.0	seconds events mins dB(A) @ 1m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	180 2 6 72.0	events mins dB(A) @ 1m
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	180 2 6 72.0 222	seconds events mins dB(A) @ 1m m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	180 2 6 72.0 453	seconds events mins dB(A) @ 1m m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	180 2 6 72.0 63	events mins dB(A) @ 1m m
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	180 2 6 72.0 222 -15	seconds events mins dB(A) @ 1m m dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	180 2 6 72.0 453 -15	seconds events mins dB(A) @ 1m m dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	180 2 6 72.0 63 -15	events mins dB(A) @ 1m m dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	180 2 6 72.0 222 -15 -37.4	seconds events mins dB(A) @ 1m m dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	180 2 6 72.0 453 -15 -43.6	seconds events mins dB(A) @ 1m m dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	180 2 6 72.0 63 -15 -26.4	events mins dB(A) @ 1m m dB(A) dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Distance attenuation Façade reflection	180 2 6 72.0 222 -15 -37.4 2.5	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	180 2 6 72.0 453 -15 -43.6 2.5	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	180 2 6 72.0 63 -15 -26.4 2.5	events mins dB(A) @ 1m m dB(A) dB(A) dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	180 2 6 72.0 222 -15 -37.4	seconds events mins dB(A) @ 1m m dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	180 2 6 72.0 453 -15 -43.6 2.5	seconds events mins dB(A) @ 1m m dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	180 2 6 72.0 63 -15 -26.4 2.5	events mins dB(A) @ 1m m dB(A) dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade	180 2 6 72.0 222 -15 -37.4 2.5 22	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	180 2 6 72.0 453 -15 -43.6 2.5	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	180 2 6 72.0 63 -15 -26.4 2.5 33	events mins dB(A) @ 1m m dB(A) dB(A) dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower	180 2 6 72.0 222 -15 -37.4 2.5 22	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower	180 2 6 72.0 453 -15 -43.6 2.5 16	seconds events mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower	180 2 6 72.0 63 -15 -26.4 2.5 33	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration	180 2 6 72.0 222 -15 -37.4 2.5 22	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration	180 2 6 72.0 453 -15 -43.6 2.5 16	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration	180 2 6 72.0 63 -15 -26.4 2.5 33	events mins  dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins	180 2 6 72.0 222 -15 -37.4 2.5 22	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins	180 2 6 72.0 453 -15 -43.6 2.5 16 85 180	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins	180 2 6 72.0 63 -15 -26.4 2.5 33 85 180	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration	180 2 6 72.0 222 -15 -37.4 2.5 22 85 180 1	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration	180 2 6 72.0 453 -15 -43.6 2.5 16 85 180 1	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m dB(A) dB(A) m dB(A) m dB(A) m dB(A) m dB(A) m seconds events mins	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration	180 2 6 72.0 63 -15 -26.4 2.5 33 85 180	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	180 2 6 72.0 222 -15 -37.4 2.5 22 85 180 1	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	180 2 6 72.0 453 -15 -43.6 2.5 16 85 180 1	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	180 2 6 72.0 63 -15 -26.4 2.5 33 85 180 1 3 77.5	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins	180 2 6 72.0 222 -155 -37.4 2.5 22 85 180 1 3 77.5 222	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins	180 2 6 72.0 453 -15 -43.6 2.5 16 85 180 1 3 77.5 453	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins	180 2 6 72.0 63 -15 -26.4 2.5 33 85 180 1 3 77.5 63	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	180 2 6 72.0 222 -15 -37.4 2.5 22 85 180 1 3 77.5 222 -15	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m seconds events mins dB(A) @ 1m m dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Ustance to receiver Inside to outside attenuation	180 2 6 72.0 453 -15 -43.6 2.5 16 85 180 1 3 77.5 453 -15	seconds events mins dB(A) @ 1m m dB(A) d 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m seconds events mins dB(A) @ 1m m dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Distance attenuation Distance attenuation Impact at Façade Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	180 2 6 72.0 63 -15 -26.4 2.5 33 85 180 1 3 77.5 63 -15	events mins dB(A) @ Im  dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) mseconds events mins dB(A) @ Im m dB(A)
Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	180 2 6 72.0 222 -155 -37.4 2.5 22 85 180 1 3 77.5 222	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	180 2 6 72.0 453 -15 -43.6 2.5 16 85 180 1 3 77.5 453 -15 -43.6	seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m	#	Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	180 2 6 72.0 633 -155 -26.4 2.5 33 180 1 3 77.5 633 -155 -26.4	events mins dB(A) @ Im m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m seconds events mins dB(A) @ Im m

Dwelling Due North		IMPACTING:	Н							
	+		H	Dwelling Due East				Dwellings Due West		
Carwash vaccum unit	77	dB(A) @ 6m	#	Carwash vaccum unit	77	dB(A) @ 6m	#	Carwash vaccum unit	77	dB(A) @ 6m
Single event duration	300	seconds		Single event duration	300	seconds		Single event duration	300	seconds
Number of events in 15 mins	2	events		Number of events in 15 mins	2	events		Number of events in 15 mins	2	events
Worst case duration in 15 mins	10	mins		Worst case duration in 15 mins	10	mins		Worst case duration in 15 mins	10	mins
5 min Leq	75.2	dB(A) @ 1m		15 min Leq	75.2	dB(A) @ 1m		15 min Leq	75.2	dB(A) @ 1m
Distance to receiver	_			Distance to receiver	445	m		Distance to receiver		m
nside to outside car attenuation		dB(A)		Inside to outside car attenuation	-9	dB(A)		Inside to outside car attenuation and ba		dB(A)
Distance attenuation	-31.2	dB(A)	L	Distance attenuation	-37.4	dB(A)	L	Distance attenuation	-21.7	dB(A)
Façade reflection	2.5	dB(A)	,,	Façade reflection	2.5	/	,,	Façade reflection		dB(A)
mpact at Façade	38	dB(A)	#	Impact at Façade	31	dB(A)	#	Impact at Façade	45	dB(A)
Truck bypass	82	dB(A) @ 1m	#	Truck bypass	82	dB(A) @ 1m	#	Truck bypass	82	dB(A) @ 1m
Single event duration	10	seconds	#	Single event duration	10	` '	#	Single event duration	10	seconds
Number of events in 15 mins	8	events		Number of events in 15 mins	6			Number of events in 15 mins		events
Worst case duration in 15 mins	1.333	mins		Worst case duration in 15 mins	1	mins		Worst case duration in 15 mins		mins
15 min Leq	71.5	dB(A) @ 1m		15 min Leq	70.2	dB(A) @ 1m		15 min Leq	70.2	dB(A) @ 1m
Distance to receiver	225	m		Distance to receiver	340	m	T	Distance to receiver	62	m
Barrier Screening	0	dB(A)		Barrier Screening	0	dB(A)		Barrier Screening	0	dB(A)
Distance attenuation	-47.0	dB(A)		Distance attenuation	-50.6	dB(A)		Distance attenuation	-35.8	dB(A)
Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)
mpact at Façade	27	dB(A)	#	Impact at Façade	22	dB(A)	#	Impact at Façade	37	dB(A)
			-							
Γruck airbrakes	97	dB(A) @ 1m	#	Truck airbrakes	97		#	Truck airbrakes		dB(A) @ 1m
Single event duration	0.5	seconds		Single event duration	0.5		L	Single event duration	0.5	seconds
Number of events in 15 mins	8	events		Number of events in 15 mins	6	events	H	Number of events in 15 mins		events
Worst case duration in 15 mins	0.067	mins dB(A) @ 1m	+	Worst case duration in 15 mins 15 min Leq	0.05 72.2		┨	Worst case duration in 15 mins	0.05 72.2	mins dB(A) @ 1m
15 min Leq	73.5 225	m m	-	Distance to receiver	340	dB(A) @ 1 m		15 min Leq Distance to receiver	72.2	
Distance to receiver Barrier Screening	0	dB(A)		Barrier Screening	340			Barrier Screening		dB(A)
Distance attenuation	-47.0	dB(A)		Distance attenuation	-50.6			Distance attenuation		dB(A)
Façade reflection	2.5	dB(A)		Façade reflection	2.5	dB(A)		Façade reflection		dB(A)
mpact at Façade	29	dB(A)	#	Impact at Façade	24		#	Impact at Façade		dB(A)
F			T	· ·			Т	,		, ,
Goods delivery	70	dB(A) @ 1m	#	Goods delivery	70	dB(A) @ 1m	#	Goods delivery	70	dB(A) @ 1m
Single event duration	600	seconds		Single event duration	600	seconds		Single event duration	600	seconds
Number of events in 15 mins	1	events		Number of events in 15 mins	1	events		Number of events in 15 mins		events
Worst case duration in 15 mins	8	mins		Worst case duration in 15 mins	10		L	Worst case duration in 15 mins		mins
15 min Leq	67.3	dB(A) @ 1m		15 min Leq	68.2	dB(A) @ 1m		15 min Leq		dB(A) @ 1m
Distance to receiver	260	m		Distance to receiver	380			Distance to receiver	110	
Barrier Screening	0	dB(A)		Barrier Screening	0	,	L	Barrier Screening		dB(A)
Distance attenuation		dB(A)		Distance attenuation	-51.6		H	Distance attenuation		dB(A)
Façade reflection Impact at Façade		dB(A) dB(A)	#	Façade reflection Impact at Façade	2.5		#	Façade reflection Impact at Façade		dB(A) dB(A)
impaci at raçade	2.1	UD(A)	#	Impact at raçade	19	UD(A)	#	Impact at raçade	30	ub(A)
A/C plant x 4	67	dB(A) @ 2m	#	A/C plant x 4	67	dB(A) @ 2m	#	A/C plant x 4	67	dB(A) @ 2m
Single event duration	300	seconds	T"	Single event duration	300		ľ	Single event duration	300	seconds
Number of events in 15 mins	1	events		Number of events in 15 mins	1	events		Number of events in 15 mins		events
Worst case duration in 15 mins	5	mins		Worst case duration in 15 mins	5	mins		Worst case duration in 15 mins	5	mins
15 min Leq	62.2	dB(A) @ 1m		15 min Leq	62.2	dB(A) @ 1 m		15 min Leq	62.2	dB(A) @ 1m
Distance to receiver	260	m		Distance to receiver	390	m		Distance to receiver	95	m
Plant enclosure	0	dB(A)		Plant enclosure	0	dB(A)		Plant enclosure		dB(A)
riant enclosure				Distance attenuation	-45.8	dB(A)		Distance attenuation		dB(A)
Distance attenuation		dB(A)				. ,			2.5	dB(A)
Distance attenuation Façade reflection	2.5	dB(A)	L	Façade reflection	2.5	dB(A)	L	Façade reflection		
Distance attenuation Façade reflection		dB(A)	#	Façade reflection Impact at Façade		dB(A)	#	Façade reflection Impact at Façade		dB(A)
Distance attenuation Façade reflection Impact at Façade	2.5	dB(A) dB(A)		Impact at Façade	2.5 19	dB(A) dB(A)		Impact at Façade	23	
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3	2.5 22 65	dB(A) dB(A) dB(A) @ 2m		Impact at Façade  Refrigeration plant x 3	2.5 19 65	dB(A) dB(A) dB(A) @ 2m		Impact at Façade  Refrigeration plant x 3	23 65	dB(A) @ 2m
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration	2.5 22 65 180	dB(A) dB(A)  dB(A) @ 2m seconds		Impact at Façade  Refrigeration plant x 3  Single event duration	2.5 19 65 180	dB(A) dB(A) dB(A) @ 2m seconds		Impact at Façade  Refrigeration plant x 3  Single event duration	65 180	dB(A) @ 2m seconds
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins	2.5 22 65 180 2	dB(A) dB(A) dB(A) @ 2m seconds events		Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins	2.5 19 65 180 2	dB(A) dB(A)  dB(A) @ 2m seconds events		Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins	65 180 2	dB(A) @ 2m seconds events
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins	2.5 22 65 180 2 6	dB(A) dB(A)  dB(A) @ 2m seconds events mins		Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins	2.5 19 65 180 2 6	dB(A) dB(A)  dB(A) @ 2m seconds events mins		Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins	65 180 2 6	dB(A) @ 2m seconds events mins
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2.5 22 65 180 2 6 61.0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m		Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2.5 19 65 180 2 6 61.0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m		Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	65 180 2 6 61.0	dB(A) @ 2m seconds events mins dB(A) @ 1m
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	2.5 22 65 180 2 6	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m		Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  I5 min Leq  Distance to receiver	2.5 19 65 180 2 6	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m		Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins	65 180 2 6 61.0	dB(A) @ 2m seconds events mins dB(A) @ 1m m
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	2.5 22 65 180 2 6 61.0 260 0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m		Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2.5 19 65 180 2 6 61.0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A)		Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	65 180 2 6 61.0 95 -8	dB(A) @ 2m seconds events mins dB(A) @ 1m
Distance attenuation  "açade reflection  Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation	2.5 22 65 180 2 6 61.0 260 0 -42.3	dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1d		Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure	2.5 19 65 180 2 6 61.0 390 0	dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 1m dB(A) @ 1d dB(A)		Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	23 65 180 2 6 61.0 95 -8 -33.5	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A)
Distance attenuation  "açade reflection  Impact at Façade  Refrigeration plant x 3  Ringle event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection	2.5 22 65 180 2 6 61.0 260 0 -42.3	dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1d	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation	2.5 19 65 180 2 6 61.0 390 0 -45.8	dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A)		Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation	23 65 180 2 6 61.0 95 -8 -33.5 2.5	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A)
Distance attenuation  "açade reflection  Impact at Façade  Refrigeration plant x 3  Single event duration  Worst case duration in 15 mins  Worst case duration in 15 mins  Joistance to receiver  Plant enclosure  Distance attenuation  "açade reflection  Impact at Façade	2.5 22 65 180 2 6 61.0 260 0 -42.3 2.5 21	dB(A) dB(A) @ 2m seconds events mins m dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade	2.5 19 65 180 2 6 61.0 390 0 -45.8 2.5	dB(A) dB(A)  dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	23 65 180 2 6 61.0 95 -8 -33.5 2.5 22	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A)
Distance attenuation  "açade reflection  mpact at Façade  Refrigeration plant x 3  lingle event duration  Number of events in 15 mins  Worst case duration in 15 mins  5 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  "açade reflection  mpact at Façade  Air compressor	2.5 22 65 180 2 6 61.0 260 0 -42.3 2.5 21	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor	2.5 19 65 180 2 6 61.0 390 0 -45.8 2.5 18	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor	23 65 180 2 6 61.0 95 -8 -33.5 2.5 22	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A)
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Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins	2.5 22 65 180 2 6 6 61.0 260 0 -42.3 2.5 21 72 60	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins	2.5 19 65 180 2 6 61.0 390 0 -45.8 2.5 18 72 60	dB(A) dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins	23 65 180 2 6 61.0 95 -8 -33.5 2.5 22 72 60	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation  "açade reflection Impact at Façade  Refrigeration plant x 3  Single event duration Worst case duration in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation "açade reflection Impact at Façade Air compressor Single event duration Worst case duration Worst case duration in 15 mins Worst case duration in 15 mins	2.5 22 65 180 26 61.0 260 -42.3 2.5 21 72 60 3 3	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins	2.5 19 65 180 2 6 6 61.0 390 0 -45.8 2.5 18 72 60 3 3	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins	23 65 180 2 6 61.0 95 -8 -33.5 2.5 22 72 60 3	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins
Distance attenuation  "açade reflection  mpact at Façade  Refrigeration plant x 3  single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  "açade reflection  impact at Façade  Air compressor  single event duration  Number of events in 15 mins  Worst case duration in 15 mins  Worst case duration in 15 mins  Worst case duration in 15 mins	2.5 22 65 180 2 6 61.0 260 0 -42.3 2.5 21 72 60 3 3 3 65.0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq	2.5 19 65 180 2 6 6 61.0 390 0 -45.8 2.5 18 72 600 3 3 3 65.0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade  Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	23 65 180 2 6 61.0 95 -8 -33.5 2.5 22 72 60 3 3 65.0	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m
Distance attenuation  "açade reflection  Impact at Façade  Refrigeration plant x 3  Ringle event duration  Number of events in 15 mins  Morst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Morst case duration in 15 mins  Morst case duration in 15 mins  Morst case duration in 15 mins  15 min Leq  Distance to receiver	2.5 22 65 180 2 6 61.0 260 0 -42.3 2.5 21 72 60 3 3 65.0 260	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m seconds dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m seconds events mins dB(A) @ 1m	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  Worst case duration in 15 mins  Is min Leq  Distance to receiver	2.5 19 65 180 2 6 6 61.0 390 0 -45.8 2.5 18 72 60 3 3	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	23 65 180 2 6 61.0 95 -8 -33.5 2.5 22 72 60 3 3 65.0	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m
Distance attenuation  "açade reflection  Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  "açade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  Worst case duration in 15 mins  Establishment of events in 15 mins  Worst case duration in 15 mins  Establishment of events in 15 mins  Distance to receiver  Plant enclosure	2.5 22 65 180 2 6 61.0 260 0 -42.3 2.5 21 72 60 3 3 3 3 65.0 260 0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m seconds events mins dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure	2.5 19 65 180 2 6 61.0 390 0 -45.8 2.5 18 72 60 3 3 3 65.0 390 0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m  dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	23 655 180 661.0 955 -8 -33.5 2.5 22 72 60 60 3 3 3 3 65.0 95 95 95 95 95 95 95 95 95 95 95 95 95	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m
Distance attenuation  "açade reflection  mpact at Façade  Refrigeration plant x 3  single event duration  Number of events in 15 mins  Worst case duration in 15 mins  5 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  "açade reflection  mpact at Façade  Air compressor  single event duration  Worst case duration in 15 mins  Worst case duration in 15 mins  Distance to receiver  Plant enclosure  Distance to receiver  Plant enclosure  Distance to receiver  Plant enclosure	2.5 22 65 180 260 0 -42.3 2.5 21 72 600 3 3 3 65.0 260 0 -42.3 -42	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  I5 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  Usual in Leq  Distance to receiver  Plant enclosure	2.5 19 65 180 2 6 6 61.0 390 0 -45.8 2.5 18 72 60 3 3 3 65.0 390 0 0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins United the second of the seco	23 1800 65 1800 66 61.00 95 -88 -33.5 2.5 22 72 22 72 22 60 0 65.00 95 -88 -33.5 -88 -39.6 65.00	dB(A) @ 2m seconds events mins dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) dB(A)
Distance attenuation  "açade reflection  mpact at Façade  Refrigeration plant x 3  Ringle event duration  Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  "açade reflection  mpact at Façade  Air compressor  Ringle event duration  Number of events in 15 mins  Worst case duration in 15 mins  Worst case duration in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance to receiver  Plant enclosure	2.5 22 65 180 2 6 6 6 61.0 260 0 -42.3 2.5 21 72 60 3 3 3.65.0 260 0 -4.2.3 2.5	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) = 1m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  I5 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  I5 min Leq  Distance to receiver  Plant enclosure	2.5 19 65 180 2 6 6 1.0 390 0 -45.8 2.5 18 72 60 390 65.0 390 0 -51.8	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m seconds dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) @ 1m	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins I 5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins I 5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection	23 655 180 666 61.0 955 -8 -33.5 2.5 22 72 60 60 60 60 60 60 60 60 60 60	dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m dB(A) @ 1m
Distance attenuation Façade reflection Impact at Façade Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor	2.5 22 65 180 260 0 -42.3 2.5 21 72 600 3 3 3 65.0 260 0 -42.3 -42	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Impact at Façade  Refrigeration plant x 3  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  I5 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection  Impact at Façade  Air compressor  Single event duration  Number of events in 15 mins  Worst case duration in 15 mins  Usual in Leq  Distance to receiver  Plant enclosure	2.5 19 65 180 2 6 6 61.0 390 0 -45.8 2.5 18 72 60 3 3 3 65.0 390 0 0	dB(A) dB(A) @ 2m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) @ 1m m dB(A) @ 1m	#	Impact at Façade  Refrigeration plant x 3 Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins United the second of the seco	23 655 180 666 61.0 955 -8 -33.5 2.5 22 72 60 60 60 60 60 60 60 60 60 60	dB(A) @ 2m seconds events mins dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) dB(A)

NIGHT						I				1
Leq OFFSITE COMMERCIAL AC	TIVITIES	IMPACTING:	+							
Leq OFFSTIL COMMERCIAL AC	IIVIIII	IMI ACIING.	t							
Dwelling Due North				Dwelling Due East				Dwellings Due West		
Car door closure car space	78	dB(A) @ 1m	#	Car door closure car space	78	dB(A) @ 1m	#	Car door closure car space	78	dB(A) @ 1m
Single event duration	0.052			Single event duration		seconds		Single event duration	0.052	
Number of events in 15 mins	15		1	Number of events in 15 mins		events	L	Number of events in 15 mins	15	
Worst case duration in 15 mins	0.013		4	Worst case duration in 15 mins	0.013		L	Worst case duration in 15 mins	_	mins
15 min Leq	47.4	. ,	+	15 min Leq		dB(A) @ 1m	L	15 min Leq	47.4	
Distance to receiver	217			Distance to receiver	319		H	Distance to receiver		m
Barrier Screening		dB(A)	+	Barrier Screening		dB(A)	H	Barrier Screening	0	- ( )
Distance attenuation Facade reflection	-46.7			Distance attenuation Facade reflection		dB(A)	H	Distance attenuation		dB(A)
3	2.5		2	.,		dB(A) dB(A)	1	Façade reflection	2.5	
Impact at Façade	3	dB(A)		Impact at Façade	0	dB(A)	Ľ	Impact at Façade	14	dB(A)
Car door closure at bowser	78	dB(A) @ 1m	#	Car door closure at bowser	78	dB(A) @ 1m	#	Car door closure at bowser	78	dB(A) @ 1m
Single event duration	0.052	seconds	1	Single event duration	0.052		Ť	Single event duration	0.052	_ ` _
Number of events in 15 mins		events		Number of events in 15 mins		events		Number of events in 15 mins	_	events
Worst case duration in 15 mins	0.013	mins	Т	Worst case duration in 15 mins	0.013	mins		Worst case duration in 15 mins	0.013	mins
15 min Leq	47.4	dB(A) @ 1m		15 min Leq	47.4	dB(A) @ 1m		15 min Leq	47.4	dB(A) @ 1m
Distance to receiver	238	m	1	Distance to receiver	385	m		Distance to receiver	85	m
Barrier Screening	0	dB(A)		Barrier Screening	0	dB(A)		Barrier Screening	0	dB(A)
Distance attenuation	-47.5	dB(A)		Distance attenuation	-51.7	dB(A)		Distance attenuation	-38.6	dB(A)
Façade reflection	2.5			Façade reflection	_	dB(A)	L	Façade reflection	2.5	
Impact at Façade	2	dB(A)	_]2	Impact at Façade	-2	dB(A)	1	Impact at Façade	11	dB(A)
			1				L			
Car bypass @ 5km/hr	72		#	Car bypass @ 5km/hr	_	dB(A) @ 1m	#	Car bypass @ 5km/hr	72	
Single event duration	7	seconds		Single event duration	7		L	Single event duration	7	seconds
Number of events in 15 mins	30		1	Number of events in 15 mins		events	L	Number of events in 15 mins	30	
Worst case duration in 15 mins	3.5		1	Worst case duration in 15 mins		mins	Ł	Worst case duration in 15 mins	3.5	
15 min Leq	65.7	. ,	+	15 min Leq		dB(A) @ 1m	1	15 min Leq	65.7	
Distance to receiver	210			Distance to receiver	325		H	Distance to receiver	62	
Barrier Screening		dB(A)		Barrier Screening		dB(A)	H	Barrier Screening	0	dB(A)
Distance attenuation		dB(A)		Distance attenuation		dB(A)	H	Distance attenuation	_	dB(A)
Façade reflection Impact at Façade	2.5	dB(A) dB(A)	- #	Façade reflection Impact at Façade		dB(A) dB(A)	#	Façade reflection Impact at Façade	2.5	
Impact at Façade	2.2	dB(A)	#	Impact at Façade	18	dB(A)	#	Impact at Façade	32	dB(A)
Tyre pressure beeper	75	dB(A) @ 1m	#	Tyre pressure beeper	75	dB(A) @ 1m	#	Tyre pressure beeper	75	dB(A) @ 1m
Single event duration	1	. ,	- 17	Single event duration		seconds	π	Single event duration	1	
Number of events in 15 mins	5			Number of events in 15 mins		events	Н	Number of events in 15 mins	5	
Worst case duration in 15 mins	0.083			Worst case duration in 15 mins	0.083		H	Worst case duration in 15 mins	0.083	
15 min Leq	52.4	dB(A) @ 1m		15 min Lea		dB(A) @ 1m	T	15 min Leq	52.4	
Distance to receiver	220			Distance to receiver	435		t	Distance to receiver		m
Barrier Screening		dB(A)		Barrier Screening	-	dB(A)		Barrier Screening		dB(A)
Distance attenuation	-46.8			Distance attenuation		dB(A)		Distance attenuation	_	dB(A)
Façade reflection	2.5	dB(A)		Façade reflection		dB(A)		Façade reflection	2.5	
Impact at Façade	8	dB(A)	6	Impact at Façade	2	dB(A)	2	Impact at Façade	6	dB(A)
Carwash foam spray	66	dB(A) @ 3m	#	Carwash foam spray	66	dB(A) @ 3m	#	Carwash foam spray	66	dB(A) @ 3m
Single event duration	180	seconds		Single event duration	180	seconds		Single event duration	180	seconds
Number of events in 15 mins	1	events		Number of events in 15 mins	1	events		Number of events in 15 mins	1	events
Worst case duration in 15 mins	3	mins		Worst case duration in 15 mins	3	mins		Worst case duration in 15 mins	3	mins
15 min Leq	59.0		1	15 min Leq		dB(A) @ 1m		15 min Leq	50.0	dB(A) @ 1m
Distance to receiver	222	m	1	Distance to receiver	453	I		Distance to receiver	_	
			-				L		63	
Inside to outside attenuation	-15	,	İ	Inside to outside attenuation	-15	dB(A)		Inside to outside attenuation	63 -15	dB(A)
Distance attenuation	-37.4	dB(A)		Distance attenuation	-15 -43.6	dB(A) dB(A)		Distance attenuation	63 -15 -26.4	dB(A) dB(A)
Distance attenuation Façade reflection	-37.4 2.5	dB(A) dB(A)		Distance attenuation Façade reflection	-15 -43.6 2.5	dB(A) dB(A) dB(A)		Distance attenuation Façade reflection	63 -15 -26.4 2.5	dB(A) dB(A) dB(A)
Distance attenuation	-37.4	dB(A)	8	Distance attenuation	-15 -43.6	dB(A) dB(A) dB(A)	2	Distance attenuation	63 -15 -26.4	dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade	-37.4 2.5 9	dB(A) dB(A) dB(A)	8	Distance attenuation Façade reflection Impact at Façade	-15 -43.6 2.5 3	dB(A) dB(A) dB(A) dB(A)	2	Distance attenuation Façade reflection Impact at Façade	63 -15 -26.4 2.5 20	dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse	-37.4 2.5 9	dB(A) dB(A) dB(A) dB(A) @ 3m	8	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse	-15 -43.6 2.5 3	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m	2	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse	63 -15 -26.4 2.5 20	dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration	-37.4 2.5 9 76 180	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds	8	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration	-15 -43.6 2.5 3 76 180	dB(A) dB(A) dB(A) dB(A) dB(A)	2	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration	63 -15 -26.4 2.5 20 76 180	dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins	-37.4 2.5 9 76 180 2	dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events	8	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins	-15 -43.6 2.5 3 76 180 2	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events	2	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins	63 -15 -26.4 2.5 20 76 180 2	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins	-37.4 2.5 9 76 180 2	dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins	8	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins	-15 -43.6 2.5 3 76 180 2 6	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins	2	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins	63 -15 -26.4 2.5 20 76 180 2	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	-37.4 2.5 9 76 180 2 6 72.0	dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m	8	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	-15 -43.6 2.5 3 76 180 2 6 72.0	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m	2	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	63 -15 -26.4 2.5 20 76 180 2 6 72.0	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) econds events mins dB(A) @ 1 m
Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	-37.4 2.5 9 76 180 2 6 72.0 222	dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m	8	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	-15 -43.6 2.5 3 76 180 2 6 72.0 453	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m	2	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	63 -15 -26.4 2.5 20 76 180 2 6 72.0	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m
Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	-37.4 2.5 9 76 180 2 6 72.0 222 -15	dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A)	8	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A)	#	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation	63 -15 -26.4 2.5 20 76 180 2 6 72.0 63 -15	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4	dB(A) dB(A) dB(A) dB(A)  @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m	#	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	63 -15 -26.4 2.5 20 76 180 2 6 72.0 63 -15	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A)  B(A)  B(A) B(A) B(B(A) B(B(A) B(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4 2.5	dB(A) dB(A) dB(A) dB(A)  @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1d dB(A) @ 1d dB(A) @ 1d dB(A)	8	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6 2.5	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A)  @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A)	#	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	63 -15 -26.4 2.5 20 76 180 2 6 72.0 63 -15 -26.4 2.5	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4	dB(A) dB(A) dB(A) dB(A)  @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1d dB(A) @ 1d dB(A) @ 1d dB(A)	8	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6 2.5	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation	63 -15 -26.4 2.5 20 76 180 2 6 72.0 63 -15 -26.4 2.5	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A)  @ 3m seconds events mins dB(A) @ 1m m dd(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4 2.5	dB(A) dB(A) dB(A) dB(A)  @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1d dB(A) @ 1d dB(A) @ 1d dB(A)	# # #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6 2.5 16	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A)  @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade	63 -15 -26.4 2.5 20 76 180 2 6 72.0 63 -15 -26.4 2 5 33	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4 2.5 22	dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1d dB(A) dB(A) dB(A) dB(A) dB(A)	#	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6 2.5 16	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection	63 -15 -26.4 2.5 20 76 180 22 63 -15 -26.4 2.5 33	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4 2.5 22	dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6 2.5 16	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower	63 -15 -26.4 2.5 20 76 180 2 6 6 7 2.0 6 3 -15 -26.4 2.5 3 3	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4 2.5 22 85 180 1	dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1d dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6 2.5 16 85 180	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration	63 -15 -26.4 2.5 20 76 180 2 6 72.0 633 -15 -26.4 2.5 33 85 180	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	-37.4 2.5 9 76 180 22 6 72.0 222 -15 -37.4 2.5 22 85 180 11	dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Urst case duration in 15 mins I5 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins	-15 -43.6 2.5 3 76 180 2.6 6 72.0 453 -15 -43.6 2.5 16 855 180 1 3	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	####	Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins	63 -15 -26.4 2.5 20 76 180 72.0 63 -15 -26.4 2.5, 33 -15 -26.4 33 -15 -36 -36 -36 -36 -36 -36 -36 -36	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) mathematical dB(A) dB(A) dB(A) dB(A) dB(A) mathematical dB(A) mathematical dB(A) dB(A) mathematical dB(A)
Distance attenuation Façade reflection Impact at Façade Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade Carwash air blower Single event duration Number of events in 15 mins	-37.4 2.5 9 76 180 22 6 72.0 222 -15 -37.4 2.5 22 85 180 11	dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 3m	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	-15 -43.6 2.5 3 76 180 2.6 6 72.0 453 -15 -43.6 2.5 16 855 180 1 3	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	63 -15 -26.4 -2.5.5 -20 -76 -6 -72.0 -15 -26.4 -2.5 -33 -15 -33 -15 -33 -77.5	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	-37.4 2.5 9 76 180 2 6 72.0 222 -15 -37.4 2.5 22 85 180 1 3 77.5 222	dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 3m	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	-15 -43.6 2.5 3 76 180 2 6 72.0 453 -15 -43.6 2.5 16 85 180 1 3 77.5 453	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) m dB(A) dB(A) dB(A) dB(A) m seconds events mins mins mins mins	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins	63 -15 -26.4 -2.5, 20 -72.0 -63 -15 -26.4 -2.5, 33 -15 -26.4 -2.5, 33 -15 -26.4 -2.5, -3.5 -3.5 -3.5 -3.5 -3.5 -3.5 -3.5 -3.5	dB(A) dB(A) dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Is min Leq Distance attenuation in 15 mins Is min Leq Distance to receiver	-37.4 2.5 9 76 180 2 2 -15 -37.4 2.5 22 180 1 3 77.5 222 -15	dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Usorst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Is min Leq Distance to receiver	-15 -43.6 2.5 3 76 180 72.0 453 -15 -43.6 2.5 16  85 180 1 3 77.5 453 -15	dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins Distance to receiver Inside to outside attenuation	63 -15 -26.4 -2.5.5 -20 76 180 63 -15 -26.4 -26.4 -33 -33 -77.5 63 -77.5	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) seconds events mins dB(A) @ Im m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m seconds events mins dB(A) dB(A) m dB(A) dB(A) dB(A) dB(A) m seconds events mins mins
Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to receiver Inside to outside attenuation	-37.4 2.5 9 76 180 72.0 222 -15 -37.4 2.5 22 85 180 3 77.5 222 -15 -15 -37.4 -37.	dB(A) dB(A) dB(A)  dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) @ 1m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins Worst case duration in 15 mins Distance to receiver Inside to outside attenuation	-15 -43.6.4 -15 -4	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	# #	Distance attenuation Façade reflection Impact at Façade  Carwash high pressure rinse Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Inside to outside attenuation Distance attenuation Façade reflection Impact at Façade  Carwash air blower Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance attenuation in 15 mins	633 -1515 -26.44 -2.55 -200	dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 3m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)



NIGHT										
Leq OFFSITE COMMERCIAL AC	TIVITIES	IMPACTING:	т							
			т							
Dwelling Due North			Т	Dwelling Due East				Dwellings Due West		
Truck bypass	82	dB(A) @ 1m	#	Truck bypass	82	dB(A) @ 1m	#	Truck bypass	82	dB(A) @ 1m
Single event duration	10	seconds	1	Single event duration		seconds	T	Single event duration	10	seconds
Number of events in 15 mins	2	events		Number of events in 15 mins	2	events	П	Number of events in 15 mins	2	events
Worst case duration in 15 mins	0.333	mins		Worst case duration in 15 mins			П	Worst case duration in 15 mins	0.333	mins
15 min Leq	65.5	dB(A) @ 1m	T	15 min Leq		dB(A) @ 1m	Ħ	15 min Leq	65.5	dB(A) @ 1m
Distance to receiver	225	m	T	Distance to receiver	340		Ħ	Distance to receiver	62	m
Inside to outside attenuation	0	dB(A)	T	Inside to outside attenuation		dB(A)	П	Inside to outside attenuation	0	dB(A)
Distance attenuation	_	dB(A)		Distance attenuation		dB(A)	П	Distance attenuation		dB(A)
Facade reflection	2.5	dB(A)		Facade reflection		dB(A)	П	Facade reflection	2.5	dB(A)
Impact at Façade	_	dB(A)	#	Impact at Façade		dB(A)	#	Impact at Façade	32	dB(A)
impact at Layane		ub(11)	<u> </u>	Impact at Lugade	- 17	uD(11)	·	Impact at Lugade	,,,	uD(11)
Truck airbrakes	97	dB(A) @ 1m	#	Truck airbrakes	97	dB(A) @ 1m	#	Truck airbrakes	97	dB(A) @ 1m
Single event duration	0.5	seconds	Т	Single event duration	0.5	seconds		Single event duration	0.5	seconds
Number of events in 15 mins	3	events		Number of events in 15 mins		events	П	Number of events in 15 mins	3	events
Worst case duration in 15 mins	0.025		T	Worst case duration in 15 mins	0.025		П	Worst case duration in 15 mins		
15 min Leq	69.2		1	15 min Leq			П	15 min Leq	69.2	dB(A) @ 1m
Distance to receiver	225	m	1	Distance to receiver	340	- ( ) -	П	Distance to receiver		m
Barrier Screening	0	dB(A)		Barrier Screening		dB(A)	П	Barrier Screening	-8	dB(A)
Distance attenuation	-47.0			Distance attenuation		dB(A)	П	Distance attenuation	-36.9	dB(A)
Façade reflection	2.5	dB(A)		Façade reflection		dB(A)	П	Façade reflection	2.5	dB(A)
Impact at Façade		dB(A)	#	Impact at Façade		dB(A)	#	Impact at Façade	27	dB(A)
impact at 1 ayade		uD(11)	<u>"</u>	Impact at Laguac		uD(11)		Impact at Layade		ub(11)
A/C plant x 4	67	dB(A) @ 2m	#	A/C plant	67	dB(A) @ 2m	#	A/C plant	67	dB(A) @ 2m
Single event duration	300	seconds	Т	Single event duration	300	seconds		Single event duration	300	seconds
Number of events in 15 mins	1	events		Number of events in 15 mins	1	events	П	Number of events in 15 mins	1	events
Worst case duration in 15 mins	5	mins		Worst case duration in 15 mins	5	mins	П	Worst case duration in 15 mins	5	mins
15 min Leq	62.2	dB(A) @ 1m	1	15 min Leq	62.2	dB(A) @ 1m	T	15 min Leq	62.2	dB(A) @ 1m
Distance to receiver	260	m	1	Distance to receiver	390		T	Distance to receiver	95	m
Plant enclosure	0	dB(A)		Plant enclosure	0	dB(A)	П	Plant enclosure	-8	dB(A)
Distance attenuation	-42.3	dB(A)	T	Distance attenuation	-45.8	dB(A)	П	Distance attenuation	-33.5	dB(A)
Façade reflection	2.5	dB(A)	T	Facade reflection	2.5	dB(A)	П	Façade reflection	2.5	dB(A)
Impact at Façade	22		#	Impact at Façade		dB(A)	#	Impact at Façade	23	dB(A)
			1				П			
Refrigeration plant x 3	65	dB(A) @ 2m	#	Refrigeration plant	65	dB(A) @ 2m	#	Refrigeration plant	65	dB(A) @ 2m
Single event duration	180	seconds		Single event duration	190	seconds		Single event duration	180	seconds
single event duration	100	Seconds			100	seconds				
Number of events in 15 mins	2	events		Number of events in 15 mins		events		Number of events in 15 mins	2	events
Number of events in 15 mins		events		Number of events in 15 mins Worst case duration in 15 mins	2			Number of events in 15 mins Worst case duration in 15 mins		events mins
Number of events in 15 mins Worst case duration in 15 mins	2	events mins			2 6	events			2	
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	6	events mins		Worst case duration in 15 mins	2 6	events mins dB(A) @ 1m		Worst case duration in 15 mins	2	mins
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	2 6 61.0	events mins dB(A) @ 1m		Worst case duration in 15 mins 15 min Leq	6 61.0 390	events mins dB(A) @ 1m		Worst case duration in 15 mins 15 min Leq	2 6 61.0	mins dB(A) @ 1m
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	6 61.0 260	events mins dB(A) @ 1m m dB(A)		Worst case duration in 15 mins 15 min Leq Distance to receiver	2 6 61.0 390 0	events mins dB(A) @ 1m m		Worst case duration in 15 mins 15 min Leq Distance to receiver	2 6 61.0 95 -8	mins dB(A) @ 1m m
Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation	2 61.0 260 0 -42.3	events mins dB(A) @ 1m m dB(A)		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	2 6 61.0 390 0 -45.8	events mins dB(A) @ 1 m m dB(A)		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	2 6 61.0 95 -8	mins dB(A) @ 1m m dB(A)
Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection	2 61.0 260 0 -42.3 2.5	events mins dB(A) @ 1 m m dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	2 6 61.0 390 0 -45.8 2.5	events mins dB(A) @ 1m m dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	2 6 61.0 95 -8 -33.5	mins dB(A) @ 1m m dB(A) dB(A)
Number of events in 15 mins  Worst case duration in 15 mins  15 min Leq  Distance to receiver  Plant enclosure  Distance attenuation  Façade reflection	2 61.0 260 0 -42.3 2.5	events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection	2 6 61.0 390 0 -45.8 2.5	events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection	2 6 61.0 95 -8 -33.5 2.5	mins dB(A) @ 1m m dB(A) dB(A) dB(A)
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection impact at Façade	2 6 61.0 260 0 -42.3 2.5 21	events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection	2 6 61.0 390 0 -45.8 2.5 18	events mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection	2 6 61.0 95 -8 -33.5 2.5 22	mins dB(A) @ 1m m dB(A) dB(A) dB(A)
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation "açade reflection impact at Façade Air compressor	2 6 61.0 260 0 -42.3 2.5 21	events mins dB(A) @ 1m m dB(A) dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	2 661.0 390 0 -45.8 2.5 18	events mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade	2 6 61.0 95 -8 -33.5 2.5 22	mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation "Façade reflection impact at Façade Air compressor Single event duration Number of events in 15 mins	2 6 61.0 260 0 -42.3 2.5 21 72 60	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins	2 61.0 390 0 -45.8 2.5 18 72 60 3	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A)		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins	2 6 61.0 95 -8 -33.5 2.5 22 72 60	mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) e 1 m seconds
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection impact at Façade Air compressor Single event duration Wumber of events in 15 mins Worst case duration in 15 mins	2 6 61.0 260 0 -42.3 2.5 21	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) e 1m seconds events mins	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration	2 66 61.0 390 0 -45.8 2.5 18 72 60 3	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) execute when the seconds events mins		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration	2 6 6 61.0 95 -8 -33.5 2.5 22 72 60 3 3 3	mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m dB(A) dB(A)
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2 6 6 61.0 260 0 0 -42.3 2.5 21 72 60 3 3 65.0	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m	# #	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2 66 61.0 390 0 -45.8 2.5 18 72 60 3 3 65.0	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2 6 6 61.0 95 -8 -33.5 2.5 22 60 3 3 65.0 65.0	mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m dB(A) @ 1 m seconds events mins dB(A) @ 1 m
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2 6 6 61.0 260 0 0 -42.3 2.5 21 72 60 3 3 3	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins	2 66 61.0 390 0 -45.8 2.5 18 72 60 3	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins	2 6 6 61.0 95 -8 -33.5 2.5 22 60 3 3 65.0 65.0	mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1 m m
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation "açade reflection impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 55 min Leq Distance to receiver	2 6 6 61.0 260 0 0 -42.3 2.5 21 72 60 3 3 65.0	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2 6 6 61.0 390 0 -45.8 2.5 18 72 60 3 3 65.0 390	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1m		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq	2 6 6 61.0 95 -8 -33.5 2.5 22 60 3 3 65.0 65.0	mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1 m seconds events mins dB(A) @ 1 m
Number of events in 15 mins Worst case duration in 15 mins I.5 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection mpact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	2 6 6 61.0 260 0 -42.3 2.5 21 72 600 3 3 65.0 260	events mins dB(A) @ Im m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ Im seconds events mins dB(A) @ Im m	#######################################	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	2 6 6 61.0 390 0 -45.8 2.5 18 72 60 3 3 65.0 390 0	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m m		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver	2 6 6 61.0 95 -8 -33.5 2.5 22 72 600 3 3 3 65.0 95	mins dB(A) @ 1 m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) events mins dB(A) @ 1 m m
Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	2 6 6 61.0 260 0 -42.3 2.5 21 72 600 3 3 65.0 260 0 0	events mins dB(A) @ Im m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m dB(A) @ Im seconds events mins dB(A) @ Im m dB(A)	# #	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	2 6 6 61.0 390 0 -45.8 2.5 18 72 60 3 3 65.0 390 0	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) m dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A)		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure	2 6 6 61.0 95 -8 33.5 22.5 22 60 3 3 3 65.0 95 -8	mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A)
	2 6 61.0 260 0 0 -48.3 3 3 65.0 260 0 -48.3	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) @ 1m	#	Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	2 6 61.0 390 0 -45.8 2.5 18 72 60 3 3 65.0 0 0 -51.8	events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) @ 1m seconds events mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A)		Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation Façade reflection Impact at Façade Air compressor Single event duration Number of events in 15 mins Worst case duration in 15 mins 15 min Leq Distance to receiver Plant enclosure Distance attenuation	2 6 6 6 1.0 95 -8 -33.5 22.5 22 60 60 3 3 3 65.0 95 -8 -39.6 -39.6	mins dB(A) @ 1m m dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) elm seconds events mins dB(A) @ 1m m dB(A) @ 1m