

EASR ACOUSTIC ASSESSMENT REPORT – Project: 24045.02

AKBSCA Industrial Manufacturing Facility
Battery Separator Components
Port Colborne, ON

Prepared for:

Asahi Kasei Battery Separator Canada
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Revision History

Version	Description	Author	Reviewed	Date
--	Initial Report	HF	KC	January 29, 2025

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Executive Summary

Aercoustics Engineering Limited was retained by Asahi Kasei Battery Separator Canada (AKBSCA) to prepare an Acoustic Assessment Report, as required by the Ministry of the Environment, Conservation and Parks (MECP), to support an application for registration under the Environmental Activity and Sector Registry (EASR) for the AKBSCA Battery Separator Manufacturing Facility.

The purpose of this study is to assess the noise impact of proposed noise sources on the affected points of noise reception in the area and to outline noise mitigation measures as required to satisfy the applicable MECP sound level limits.

The facility will be manufacturing components related to the electric vehicle battery supply chain. The facility will consist of a main building, a wastewater treatment plant, several tank yards, a medium-voltage electric substation, and a high-voltage electric substation. There are several noise-sensitive dwellings surrounding the site, the worst-case receptors being located to the west and south. Based on the predicted impact, noise controls in the form of specific building element construction, barriers, equipment sound level limitations, silencers, and acoustics louvers are needed throughout the site.

An Acoustic Assessment Summary Table has been included in Appendix A, which summarizes the predicted noise impact.

With the incorporation of the noise controls outlined in this report, it was determined that the combined sound level resulting from sound discharged from the facility at each affected point of reception, as determined using an acoustic assessment, is less than or equal to the applicable sound level limit set out in Chapter 3 of the EASR Publication.

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1 Introduction

Aercoustics Engineering Limited (Aercoustics) was retained by Asahi Kasei Battery Separator Canada (AKBSCA) to prepare an Acoustic Assessment Report (AAR), as required by the Ministry of the Environment, Conservation and Parks (MECP), to support an application for registration under the Environmental Activity and Sector Registry (EASR) for the AKBSCA Battery Separator Manufacturing Facility.

The purpose of this study is to assess the noise impact of proposed noise sources on the affected points of noise reception in the area and to outline noise mitigation measures as required to satisfy the applicable MECP sound level limits. Where the predicted levels were found to exceed the MECP sound level limits, noise control measures are proposed to satisfy these limits.

An Acoustic Assessment Summary Table has been included in Appendix A, which summarizes the predicted noise impact.

A scaled area location map is provided in Figure 1, indicating the location of the site and surrounding receptors. A scaled site plan is provided in Figure 2A through 2C, indicating the locations of the noise sources.

Appendix B contains an AAR Checklist and a Statement of Accuracy of Information, both signed by the applicant.

Zoning maps are provided in Appendix C, which show a zoning for the site of Heavy Industrial (HI-46-H) and Industrial Development (ID-47-H) according to the City of Port Colborne zoning by-law [1].

This report was prepared in accordance with O. Reg. 1/17 [2].

1.1 Applicable NAICS Codes

The applicable North American Industry Classification System (NAICS) code for this facility is:

- 326114 (Plastic Film and Sheet Manufacturing).

The above NAICS code is not included in the Schedule to O. Reg. 1/17.

1.2 Statement of Accurate Information

Based on information provided to Aercoustics, the information in this report is accurate as of the date it is signed and sealed. This report and associated calculations underwent a comprehensive internal review process to ensure minimization of errors and omissions.

1.3 Legal Name of Owner and Facility Operator

The legal name of the both the owner and the operator of the facility is:

- Asahi Kasei Battery Separator Canada Corporation

1.4 Facility Site Name and Address

The name of the facility and the facility address is:

- Asahi Kasei Battery Separator Canada Corporation
5088 Highway 140
Port Colborne, ON
L3K 5V5

1.5 Hours of Operation

The hours of operation of the facility are understood to be anytime during the daytime, evening, or nighttime with reduced operations in the evening and nighttime.

2 Facility Description

AKBSCA Battery Separator Manufacturing Facility is situated at the southwest corner of Townline Tunnel Road and Highway 140, along the banks of Welland Canal, in the City of Port Colborne, bordering the City of Welland. Figure 1 provides a key plan showing the location of the facility and surrounding area. The municipal address of the facility is 5088 Highway 140, Port Colborne, Ontario.

Surrounding land uses include residential uses to the north, east, south, and west, as well as a rail line, directly to the north.

The facility will be manufacturing components related to the electric vehicle battery supply chain. The facility will consist of a main building, a wastewater treatment plant, several tank yards, a medium-voltage electric substation, and a high-voltage electric substation. Noise sources are described in more detail in Section 3

3 Noise Source Summary

The noise sources associated with this facility include a variety of equipment within buildings as well as outdoors, such as pumps, boilers, blowers, cooling towers, and compressors. The site will also include emergency generators. The noise sources of concern are summarized in the Noise Source Summary Table included in Appendix D and the locations of these sources are identified in Figure 2A through 2C. Sound data was based on manufacturer sound data, but where unavailable, data from the Aeroustics library or estimates based on the MECP's publicly available "red flag tables" was used [3].

The noise from small HVAC units, idling trucks, and small on-site vehicle movements was considered acoustically insignificant. All acoustically insignificant noise sources are listed in Appendix D.

4 Points of Reception

There are several 1- to 3- storey dwellings, identified as Receptors R01 to R25, surrounding the facility.

The receptor height and setback distance from the nearest noise source for each of the receptors are shown in Table 1. The affected points of noise reception were determined in accordance with Chapter 3 of the EASR Publication [4].

Table 1: Summary of Points of Reception

Receptor	Description	Height	Distance ¹
R01	Existing 2-storey dwelling	4.5 m	800 m SW
R02	Existing 1-storey dwelling	1.5 m	575 m S
R02g	Outdoor point of reception corresponding to R02	1.5 m	575 m S
R03	Existing 1-storey dwelling	1.5 m	670 m S
R04	Existing 1-storey dwelling	1.5 m	670 m S
R05	Existing 2-storey dwelling	4.5 m	670 m S
R06	Existing 2-storey dwelling	4.5 m	595 m S
R06g	Outdoor point of reception corresponding to R06	1.5 m	595 m S
R07	Existing 1-storey dwelling	1.5 m	700 m S
R08	Existing 1-storey dwelling	1.5 m	550 m S
R08g	Outdoor point of reception corresponding to R08	1.5 m	550 m S
R09	Existing 2-storey dwelling	4.5 m	620 m S
R10	Existing 2-storey dwelling	4.5 m	650 m S
R10g	Outdoor point of reception corresponding to R10	1.5 m	650 m S
R11	Existing 1-storey dwelling	1.5 m	450 m SE
R11g	Outdoor point of reception corresponding to R11	1.5 m	450 m SE
R12	Existing 2-storey dwelling	4.5 m	1050 m E
R12g	Outdoor point of reception corresponding to R12	1.5 m	1050 m E
R13	Existing 3-storey dwelling	7.5 m	1050 m E
R13g	Outdoor point of reception corresponding to R13	1.5 m	1050 m E
R14	Existing 2-storey dwelling	4.5 m	1060 m E
R15	Existing 2-storey dwelling	4.5 m	1150 m E
R16	Existing 2-storey dwelling	4.5 m	1150 m E
R17	Existing 1-storey dwelling	1.5 m	1080 m E
R17g	Outdoor point of reception corresponding to R17	1.5 m	1080 m E
R18	Existing 1-storey dwelling	1.5 m	1160 m E
R18g	Outdoor point of reception corresponding to R18	1.5 m	1160 m E
R19	Existing 2-storey dwelling	4.5 m	1130 m E
R19g	Outdoor point of reception corresponding to R19	1.5 m	1130 m E
R20	Existing 2-storey dwelling	4.5 m	740 m NE
R20g	Outdoor point of reception corresponding to R20	1.5 m	740 m NE

Receptor	Description	Height	Distance ¹
R21	Existing 1-storey dwelling	1.5 m	600 m N
R21g	Outdoor point of reception corresponding to R21	1.5 m	600 m N
R22	Existing 1-storey dwelling	1.5 m	1200 m NW
R22g	Outdoor point of reception corresponding to R22	1.5 m	1200 m NW
R23	Existing 2-storey dwelling	4.5 m	520 m W
R24	Existing 2-storey dwelling	4.5 m	730 m SW
R25	Existing 2-storey dwelling	4.5 m	900 m SW
VL26	Noise sensitive zoned lot	4.5 m	640 m S
VL27	Noise sensitive zoned lot	4.5 m	660 m S
VL28	Noise sensitive zoned lot	4.5 m	500 m SE
VL29	Noise sensitive zoned lot	4.5 m	670 m SE
VL30	Noise sensitive zoned lot	4.5 m	630 m E
VL31	Noise sensitive zoned lot	4.5 m	710 m E
VL32	Noise sensitive zoned lot	4.5 m	920 m NE

¹ Distances from receptor to closest stationary source; directions from source to receiver

A scaled area location map is provided in Figure 1, indicating the locations of the site and the surrounding receptors.

4.1 Vacant Lots

The EASR Publication document requires consideration for potential receptors on vacant lots [4].

Several noise-sensitive zoned lots have been identified to the east and southeast of the proposed facility, represented as VL26 to VL32.

Noise-sensitive zoned lots VL26 to VL28 are zoned as Rural (RU) and VL29 to VL31 are zoned as Agricultural (A) according to the City of Port Colborne zoning by-law [5]. Likewise, VL32 is zoned as Light Industrial (L1) according to the City of Welland zoning by-law [1], which permits the development of a daycare. These zoning designations allow for the development of noise-sensitive land uses. Zoning maps are provided in Appendix C. The vacant lot receptors were assessed at a height of 4.5 m in accordance with the guidance of NPC-300 [4].

5 Noise Criteria

5.1 Acoustical Classification

Affected points of noise reception R01 to R09, and R12 to R18 have an ambient acoustical environment consistent with the Class 3 (Rural) designation as defined by Chapter 3 of the EASR Publication [4]. In a Class 3 area, the acoustical environment is dominated by natural sounds with little or no road traffic and infrequent human activity. In this case, the man-made noise sources primarily include road traffic on Netherby Road and Townline Tunnel Road to the north of the proposed facility, or Highway 140 to the east.

Affected points of noise reception R10, R11, R19, and R22 to R25 have an ambient acoustical environment consistent with the Class 2 (Urban) designation. In a Class 2 area, the background sound levels during the daytime are dominated by the activities of people, usually road traffic, and during evening and nighttime periods the background sound levels are defined by natural sounds. A Class 2 designation was assessed for receptors located within residential subdivisions, including R22 through R25 as well as receptors located within 250 m of Highway 140. Based on observations on site and long-term ambient sound monitoring, R19 was determined to be Class 2 due to road noise from Netherby Road.

Based on observations on site and long-term ambient sound monitoring, affected points of noise reception R20 and R21 have an ambient acoustical environment consistent with the Class 1 (Urban) designation. In a Class 1 area, the background sound levels during the daytime (07:00 to 19:00), evening (19:00 to 23:00) and nighttime (23:00 to 07:00) are dominated by the activities of people.

5.2 Applicable Sound Level Limits

The MECP exclusion limits for each receptor are summarized in Table 2 below:

Table 2: Noise Exclusion Limits – Class 1, Class 2, Class 3

Time of Day	Sound Level Exclusion Limit*		
	Class 1 Area	Class 2 Area	Class 3 Area
	Plane of Window of Noise Sensitive Spaces		
Daytime (07:00 to 19:00)	50 dBA	50 dBA	45 dBA
Evening (19:00 to 23:00)	50 dBA	50 dBA	40 dBA
Nighttime (23:00 to 07:00)	45 dBA	45 dBA	40 dBA
	Outdoor Points of Reception		
Daytime (07:00 to 19:00)	50 dBA	50 dBA	45 dBA
Evening (19:00 to 23:00)	50 dBA	45 dBA	40 dBA

*or the minimum existing hourly background sound level L_{eq} , whichever is higher

The MECP sound level limit is determined by the exclusion limit listed above or the minimum hourly equivalent background sound level, whichever is higher. The background sound level may increase the sound level limit for some of the receptors in this study, particularly those near busy roads. The background sound level is expected to increase the sound level limit for some of the receptors in this study, particularly those near busy roads.

Long-term ambient sound monitoring was conducted for approximately seven days from Monday, March 11 to Monday, March 18, 2024, at a location along Netherby Road. The minimum hourly background sound levels at this location were assessed to exceed the MECP Class 1 exclusion limits. This long-term ambient monitoring data is included in Appendix E of this report.

Sound level limits and acoustical classifications for all receptors have been summarized in Table 3, below.

Table 3: Applicable Sound Level Limits

Receptor ID	Acoustical Class	Applicable Sound Level Limit (dBA)		
		Daytime (07:00 to 19:00)	Evening (19:00 to 23:00)	Nighttime (23:00 to 07:00)
R01	Class 3	45	40	40
R02	Class 3	45	40	40
R02g	Class 3	45	40	-
R03	Class 3	45	40	40
R04	Class 3	45	40	40
R05	Class 3	45	40	40
R06	Class 3	45	40	40
R06g	Class 3	45	40	-
R07	Class 3	45	40	40
R08	Class 3	45	40	40
R08g	Class 3	45	40	-
R09	Class 3	45	40	40
R10	Class 2	50	50	45
R10g	Class 2	50	45	-
R11	Class 2	50	50	45
R11g	Class 2	50	45	-
R12	Class 3	45	40	40
R12g	Class 3	45	40	-
R13	Class 3	45	40	40
R13g	Class 3	45	40	-
R14	Class 3	45	40	40
R15	Class 3	45	40	40
R16	Class 3	45	40	40
R17	Class 3	45	40	40
R17g	Class 3	45	40	-
R18	Class 3	45	40	40
R18g	Class 3	45	40	-
R19	Class 2	50	50	45

Receptor ID	Acoustical Class	Applicable Sound Level Limit (dBA)		
		Daytime (07:00 to 19:00)	Evening (19:00 to 23:00)	Nighttime (23:00 to 07:00)
R19g	Class 2	50	45	-
R20	Class 1	59	59	48
R20g	Class 1	59	59	-
R21	Class 1	59	59	48
R21g	Class 1	59	59	-
R22	Class 2	50	50	45
R22g	Class 2	50	45	-
R23	Class 2	50	50	45
R24	Class 2	50	50	45
R25	Class 2	50	50	45
VL26	Class 3	45	40	40
VL27	Class 2	50	50	45
VL28	Class 2	50	50	45
VL29	Class 2	50	50	45
VL30	Class 2	50	50	45
VL31	Class 2	50	50	45
VL32	Class 1	50	50	45

5.3 Predictable Worst Case

The assessment of noise impact requires the determination of the “predictable worst-case”. Therefore, the worst-case one-hour equivalent sound level (1-hr L_{eq}) has been predicted based on all equipment running, with the exception of the sources outlined in Table 4, during the hour with the lowest ambient noise.

Table 4: Predictable Worst-Case Operating Scenario

Source	Worst-Case Operation
RTU / AHU	A duty cycle of 100% daytime, 75% evening, and 50% nighttime operation was used.
Cooling Towers	Only six of the seven towers will operate at a time and the exhaust fans will operate at an 80% duty cycle.
High-Voltage Transformers	Transformers will operate at up to 50% of their rated load.
Truck Movements	The number of daytime / nighttime / evening truck deliveries are expected to be 18 / 6 / 3 within a given worst-case hour. Trucks are not expected to idle for longer than five minutes for a delivery.

6 Noise Controls

The noise controls summarised in this section have been determined through noise impact predictions to be effective in controlling the noise generated by the facility, satisfying the MECP sound level limits.

It should be noted that there may be other effective noise controls that could replace or revise some of the controls outlined in this report. Prior to implementing any changes to the noise controls, appropriate studies should be undertaken to demonstrate that the MECP sound level limits will be satisfied.

The following list presents a summary of the required noise controls, which are also illustrated in Figure 5.

1. Building construction as detailed in Section 6.1;
2. Barriers as detailed in Section 6.2;
3. Equipment sound level limitations as detailed in Section 6.3;
4. Silencers as detailed in Section 6.4; and
5. Acoustic louvers as detailed in Section 6.5.

6.1 Building Construction

Building facades for Waste Gas Absorption (Building 4) and Air Compressor (Building 13) shall achieve a minimum sound transmission class (STC) rating of STC-30.

Building façades for the Refrigerated Water Facility (Building 2) shown in Figure 4A shall utilize a more robust construction achieving a minimum of STC-54.

For the Refrigerated Water Facility buildings, ceiling/roof construction should achieve a minimum of STC-34. For Waste Gas Absorption and Air Compressor buildings, ceiling/roof construction shall achieve a minimum of STC-30.

South-facing ventilation openings shall be avoided on all Refrigerated Water Facility buildings. Tank yard buildings must be designed to provide adequate cooling such that all doors can remain closed.

6.2 Noise Barriers

Several acoustic barriers are recommended to mitigate sources on site. The locations of the barriers are shown in Figure 5. Acoustic barriers should be constructed without gaps and have a minimum surface density of 20 kg/m². The barriers needed are also detailed below in Table 5.

Table 5: Barrier Specifications

Barrier Description	Height	Length
West Perimeter Berm	Top Elevation 193.5 MASL	200 m
South Substation Berm	Top Elevation 193 MASL	155 m

6.3 Equipment Sound Level Limits

Equipment sound levels will be evaluated and confirmed through the detailed design and permitting process. Key pieces of equipment will have limitations placed on their permitted noise output during equipment selection.

- All six 60 MVA medium-voltage transformers must have a manufacturer-guaranteed sound level corresponding to 10 dB below the standard NEMA TR-1 estimate.
- The cooling towers must not exceed the manufacturer listed sound power level of 95 dBA. To achieve this rating, the towers must be fitted with a low-noise fan upgrade and cannot operate above the maximum fan speed of 80%.
- The emergency generators will be specified to have a maximum free-field sound pressure level of 75 dBA at 7 m, which may require the incorporation of an acoustic enclosure.
- Air Handling Units and Roof Top Units must have a maximum sound power level of 89 dBA.

6.4 Exhaust Stack Silencers

An exhaust stack silencer is recommended for noise mitigation of several exhaust stacks across the site. The specific silencer and stacks are indicated in Figure 5 and listed below:

- Silencer A: S046, S048, S050, S109 to S111, S112a to S114a, S115 to S117, S160 to S167
- Silencer B: S007, S090, S099, S100, S107
- Silencer C: S044

An appropriate silencer type has been established through calculation and insertion loss requirements are summarized in Table 6 below.

Table 6: Summary of Silencer Insertion Loss Requirements (dB)

Silencer	Minimum Octave Band Insertion Loss (dB)							
	63	125	250	500	1000	2000	4000	8000
Silencer A	0	8	10	15	15	10	5	0
Silencer B	3	6	14	20	28	24	16	11
Silencer C	8	11	16	25	36	36	31	5

6.5 Acoustic Louvers

Acoustic louvers are recommended for noise mitigation of several louvers in Refrigerated Water Facility (Building 2) and Air Compressor Building (Building 13). The specific openings are also indicated in Figure 5 and listed below:

- L-06: S089, S094 to S098
- L-07: S085 to S088

Louver transmission loss requirements are summarized in Table 7 below.

Table 7: Summary of Louver Transmission Loss Requirements (dB)

Acoustic Louver	Minimum Octave Band Transmission Loss (dB)							
	63	125	250	500	1000	2000	4000	8000
L-06	5	7	9	11	15	16	17	14
L-07	5	9	17	24	31	36	28	26

7 Noise Impact Assessment

The noise impact calculations were performed using DataKustik's CadnaA environmental noise prediction software. The calculations are based on established prediction methods including the standard ISO 9613-2: "Acoustics – Attenuation of sound during propagation outdoors".

Noise levels were predicted using flat topography under conditions of downwind propagation, generally with hard ground modelled in applicable areas such as paved roads, gravel lots, and open water and soft ground conditions elsewhere. The directivity of noise emission for applicable noise sources was considered. Shielding from existing buildings, wing walls, retaining walls and raised rooftops or parapets was modelled where applicable.

Appendix F contains sound power data. Appendix G contains a more detailed description of the noise prediction methodology. Appendix H contains Point of Reception (POR) tables, sample stationary source calculations, and sample sound power calculations.

The predicted worst-case hourly sound level at each affected point of noise reception from stationary noise sources is presented in the Acoustic Assessment Summary Table, based on the template provided by the MECF, located in Appendix A. Figures 3A through 3C includes an illustration of the noise impact contours at a height of 4.5 m for the proposed equipment. Figure 4 includes an illustration of the noise impact contours at a height of 4.5 m for emergency equipment.

With the incorporation of the above noise controls, the noise impact is predicted to satisfy the MECF sound level limits at all noise sensitive receptors.

The following section summarizes the significant noise sources associated with the facility.

7.1.1 Substations

The medium-voltage substation will consist of six 60 MVA transformers operating at up to 50% of their rated load, six 10 MVA transformers at up to 100% of their rated load, and twelve 1.5 MVA transformers at up to 100% of their rated load. The sound levels for these transformers were determined in accordance with the NEMA TR-1 standard [6], using a typical spectrum for transformers taken from "Noise and Vibration Control Engineering – Principles and Applications" [7]. The 60 MVA transformers will be selected during procurement to have a manufacturer guaranteed sound level corresponding to 10 dB below the NEMA TR-1 estimate. This is expected to be feasible, as modern transformers regularly have noise outputs well below the values in NEMA TR-1. The standard NEMA TR-1 noise output was conservatively assumed for all other medium-voltage transformers.

The high-voltage substation will consist of six 160 MVA transformers sized to operate at a maximum of 50% of the rated load. These transformers were conservatively assumed to have a sound level corresponding to the NEMA TR-1 estimate.

Per Equation 33 of the IEEE C.57.12.90-2015 standard [8], transformer core noise emissions are strongly related to the load on the transformer. The modelled core noise emissions were adjusted accordingly for transformers planned to operate at reduced loads. It is understood that the only situation in which transformers would operate at higher loads is in the event of a major unforeseen equipment failure which would not constitute a predictable worst-case operating scenario.

As determined through modelling, facility transformers were predicted to have a partial noise impact 10 dB or more below the cumulative site impact. Potential tones from the transformers are not expected to be audibly tonal at receptor locations due to masking by other facility sources and by the transformer cooling fans. As such, tonal penalties were not applied.

7.1.2 Waste Water Treatment Plant and Tank Yard

Pumps

Several pumps will be installed outdoor and within pump buildings in the tank yards. The sound levels for the majority of pumps were estimated using the MECF's publicly available "red flag tables" [3] based on pump and motor sizing estimates provided by Asahi Kasei Battery Separator Canada. Sound levels were based on manufacturer data where possible. Pumps were assumed to operate at a 100% duty cycle.

Blowers

Several enclosed blowers will be located in the tank yards, including the Waste Water Treatment Plant (Building 18) blower and several blowers located in the Waste Gas Absorption building (Building 4). The intake and exhaust noise from the equipment was determined using manufacturer test data. Stack directivity was considered for vertically oriented exhaust stacks associated with the carbon bed system. The blowers are assumed to operate at a 100% duty cycle.

Air Compressor

Each compressor building (Building 13) will contain one air compressor. The intake and exhaust were modelled based on measurements from the Aeroustics database for similar units. These compressors were assumed to operate at a 100% duty cycle.

Cooling Towers

Three sets of cooling towers, seven cells each, will be located at grade in the tank yards. The sound level was based on manufacturer test data. All cooling towers will be fitted with a quiet fan and have an 80% duty cycle. These towers will include a VFD for the fan motor, which may produce a tone between 2-4kHz, the switching frequency. As such, a 5 dB tonal penalty was applied at these frequencies.

Liquid Pump Trucks

The tank yards include a total of two stations at which liquid material will be delivered or removed by tanker trucks. A worst-case operating scenario was assessed with both stations operating for the full hour during the daytime. Evening and nighttime tanker truck operations are not anticipated. Sound levels were based on Aeroustics' measurement of similar equipment.

Building Casing Noise

Several buildings within the tank yard area house equipment with significant noise output such as pumps, chillers, and blowers. Calculations were performed based on an assumption of all significant equipment operating simultaneously for a full hour within the building. Where required, upgraded building construction is specified in Section 6.1.

7.1.3 Main Building

Several exhaust stacks related to manufacturing activities will be located on the west side of the main building. The sound levels for these sources were determined using manufacturer data. These were assumed to operate at a 100% duty cycle.

Several HVAC units not associated with manufacturing processes were also considered. Sound levels were determined based on manufacturer data. These were assumed to operate at a 100%, 75%, and 50% duty cycle during daytime, evening, and nighttime hours, respectively.

7.1.4 Delivery and Shipping

Truck movements were assumed based on anticipated peak operational requirements as detailed in Table 8. These numbers reflect deliveries from full-sized (53') trucks; a higher number of deliveries from smaller vehicles may occur but would not represent the predictable worst-case due to lower noise emissions.

Table 8: Truck Schedule for Worst-Case Hour

Time	Number of Trucks in a Given Worst-Case Hour
Daytime (07:00 – 19:00)	18
Evening (19:00 – 23:00)	6
Nighttime (23:00 – 07:00)	3

7.1.5 Emergency Noise Sources

An emergency 1000 kW diesel generator will be located on the site, at the west side of the tank yard. This was assumed to undergo regular testing during the daytime only, and was assessed based on a conservative scenario with operation for a full hour.

8 Conclusion

Aeroustics Engineering Limited was retained by Asahi Kasei Battery Separator Canada to prepare an Acoustic Assessment Report, as required by the Ministry of the Environment, Conservation and Parks (MECP), to support an application for registration under the Environmental Activity and Sector Registry (EASR) for AKBSCA Battery Separator Manufacturing Facility.

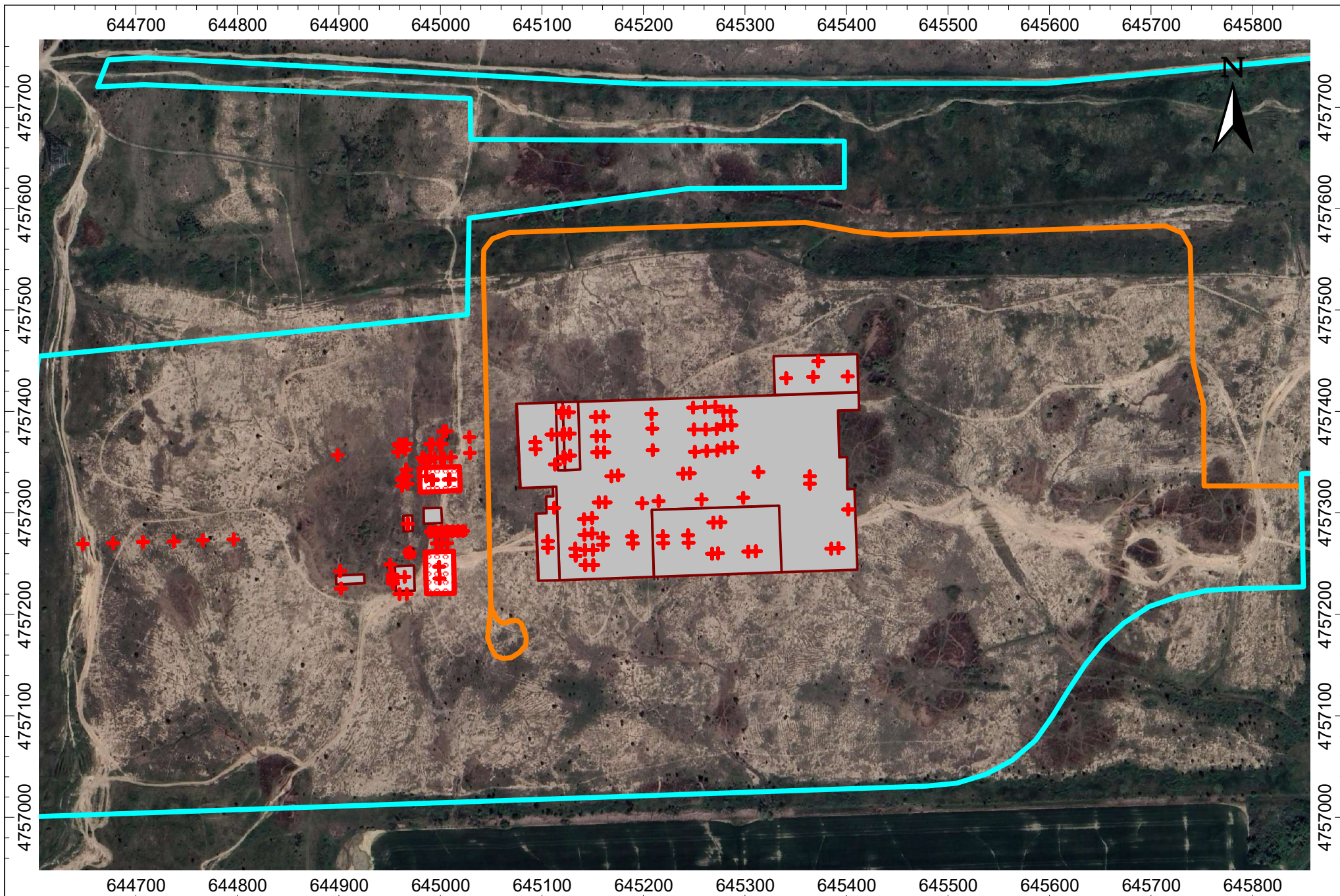
Based on the information available, the conclusions of this report are accurate as of the date it was signed and sealed. This report and associated calculations underwent a comprehensive internal review process to ensure minimization of errors and omissions.

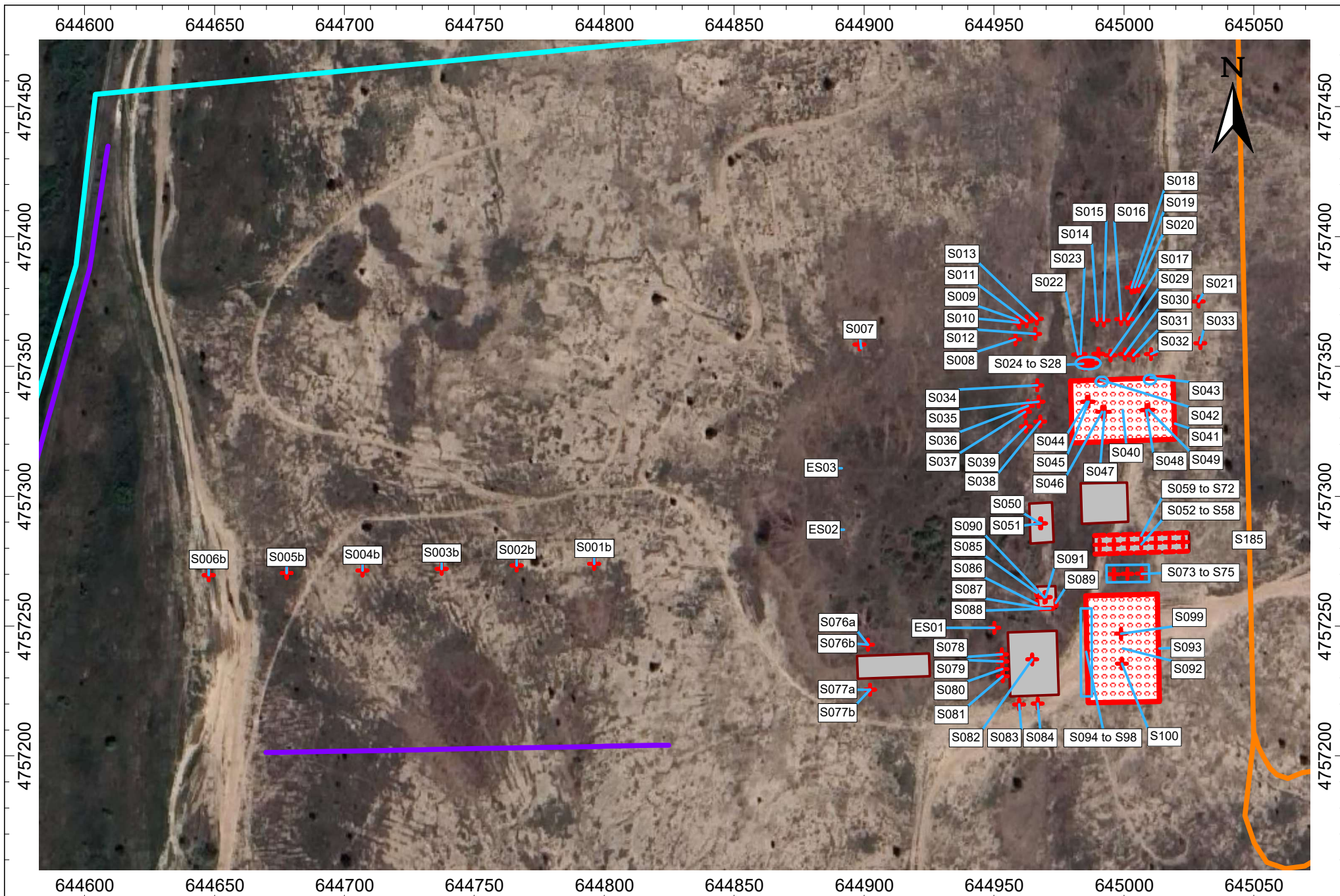
With the incorporation of the noise controls described above, it was determined that the combined sound level resulting from sound discharged from the facility at each affected point of noise reception, as determined using an acoustic assessment, is less than or equal to the applicable sound level limit set out in Chapter 3 of the EASR Publication [4].

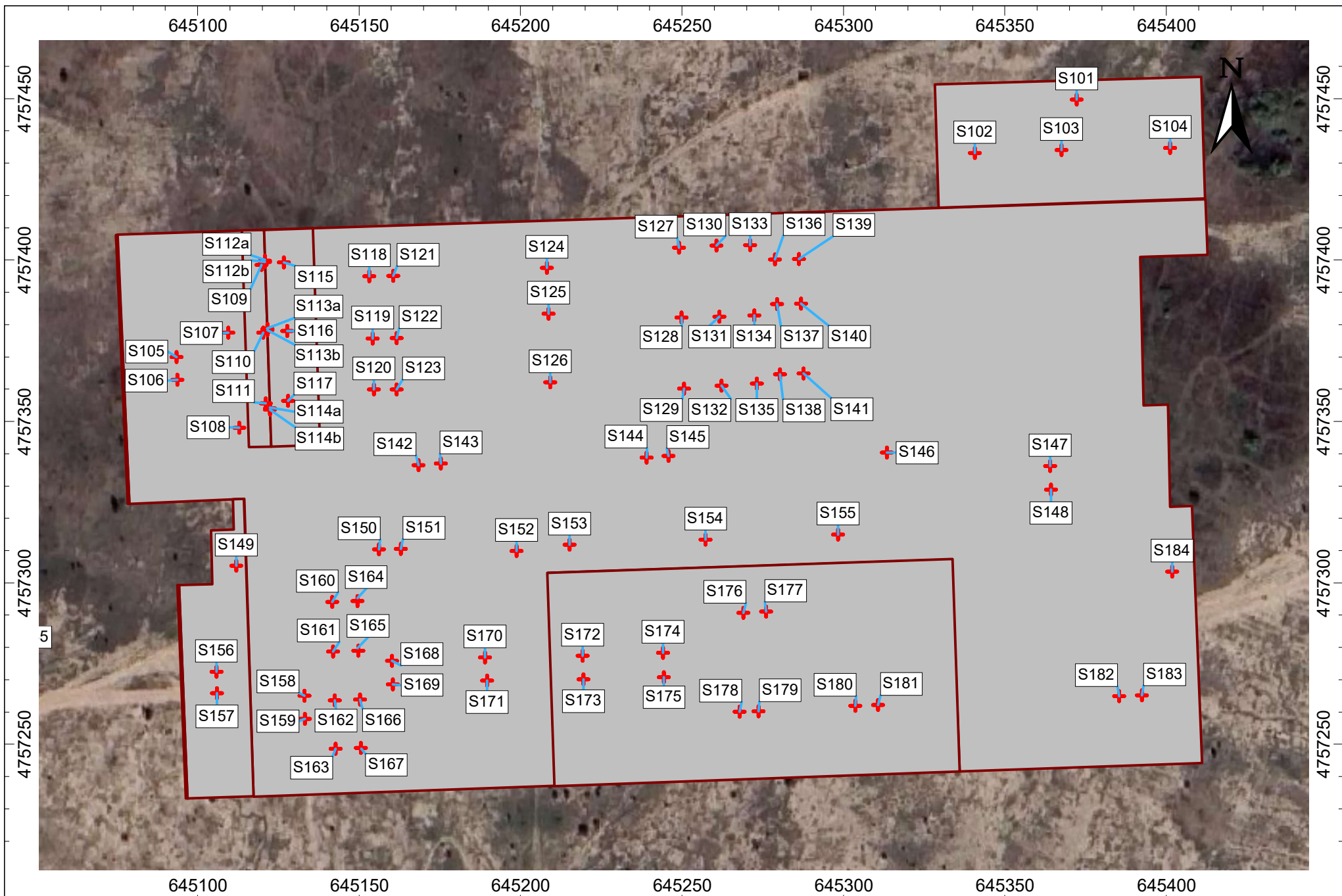
9 References

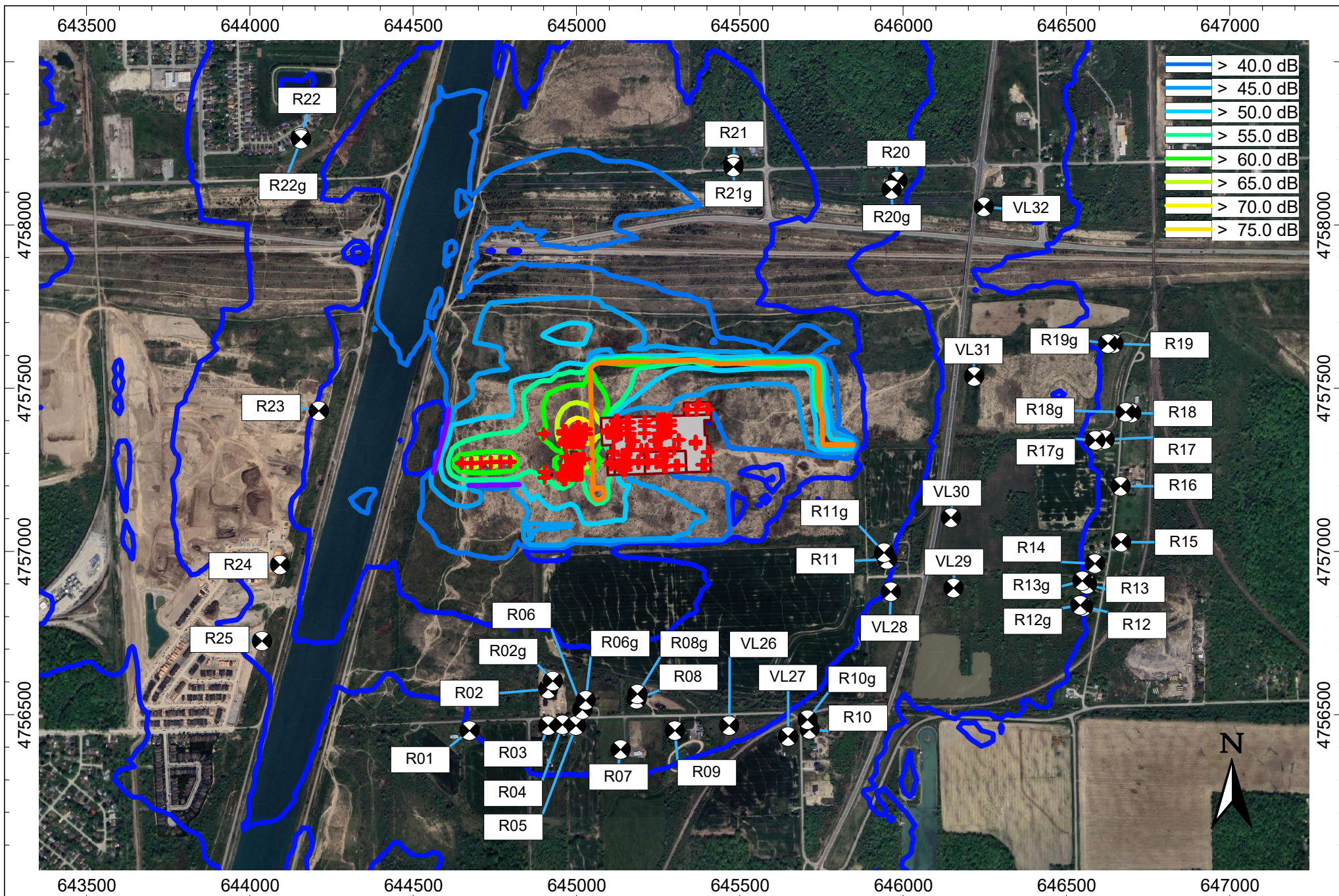
- [1] Corporation of the City of Welland, "COMPREHENSIVE ZONING BY-LAW NO. 2017-117," Welland, Ontario, 2017.
- [2] Government of Ontario, "O. Reg. 1/17: REGISTRATIONS UNDER PART II.2 OF THE ACT - ACTIVITIES REQUIRING ASSESSMENT OF AIR EMISSIONS," Ontario, 2017.
- [3] Ministry of the Environment, Conservation, and Parks, "Noise Red Flag Tables," January 2017. [Online]. Available: <https://www.ontario.ca/page/noise-red-flag-tables>. [Accessed May 2024].
- [4] Ministry of the Environment, Conservation, and Parks, "Environmental Noise Guideline, Stationary and Transportation Sources - Approval and Planning (NPC-300)," MECP, Toronto, 2013.
- [5] Corporation of the City of Port Colborne, "COMPREHENSIVE ZONING BY-LAW 6575/30/18," Port Colborne, Ontario, 2018.
- [6] National Electrical Manufacturers Association, "NEMA TR 1-2013 (R2019) Standard for Transformers, Step Voltage Regulators and Reactors," NEMA, Rosslyn, VA, 2019.
- [7] L. L. B. István L. Vér, "Noise and Vibration Control Engineering: Principles and Applications," John Wiley & Sons, Inc., Hoboken, New Jersey, 2005.
- [8] IEEE Standards Association, "IEEE Standard C57.12-90-2015, Test Code for Liquid Immersed Distribution Power and Regulating Transformers," IEEE Standards Association, New York, 2015.
- [9] Ministry of the Environment, Conservation, and Parks, "Environmental Activity and Sector Registry - limits and other requirements for activities with air emissions," Ontario, 2021.











Project ID: 24045.00



Scale: As Indicated
 Drawn by: HF
 Reviewed by: KC
 Date: Jan 28, 2025
 Revision: 2

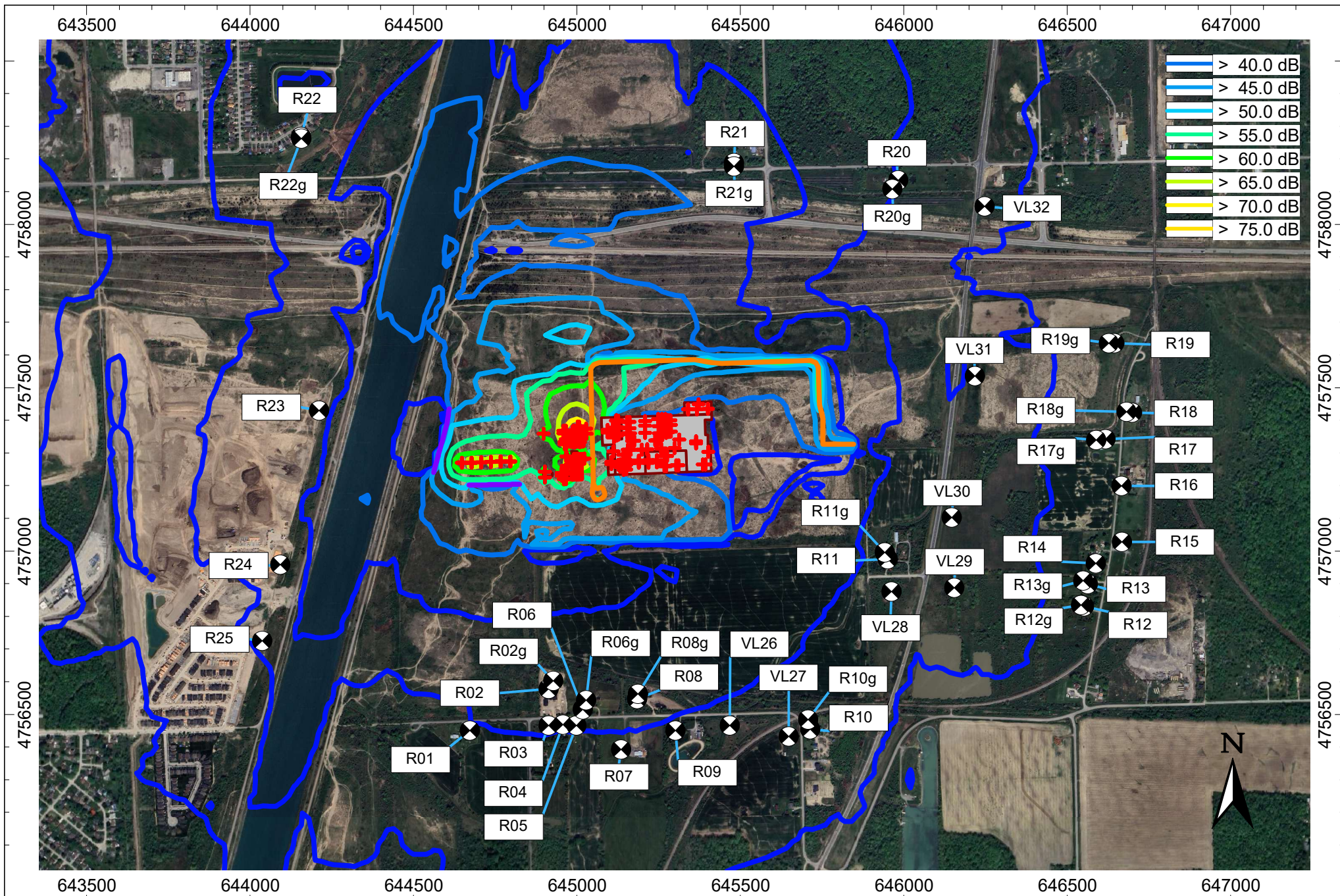
Project Name

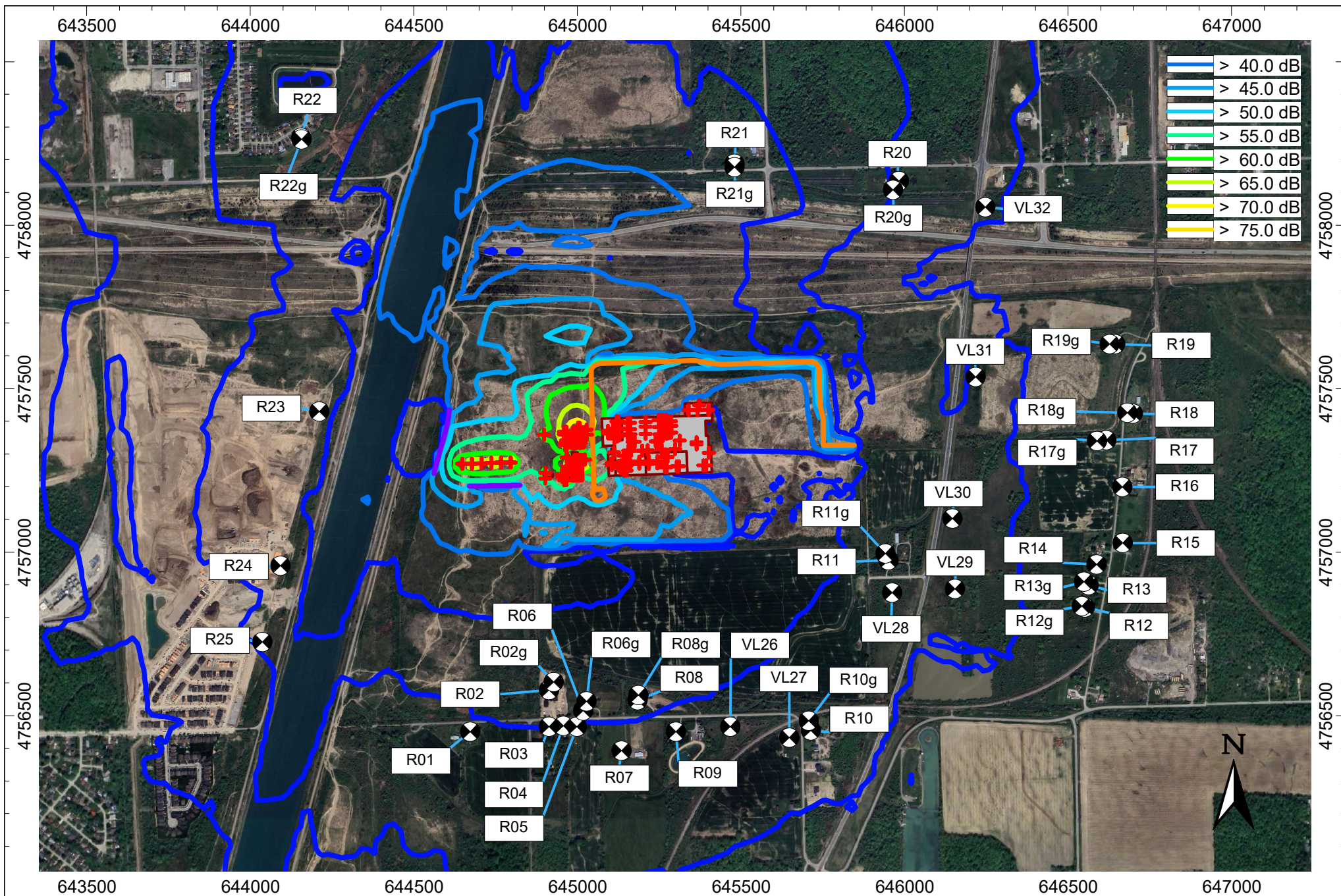
Asahi Kasei Battery Separator Canada

Figure Title

Noise Impact Predictions - Proposed Site (Daytime)
 Noise Contours at 4.5 m Height

Figure 3A





Project ID: 24045.00

Scale: As Indicated

Drawn by: HF

Reviewed by: KC

Date: Jan 28, 2025

Revision: 2

Project Name

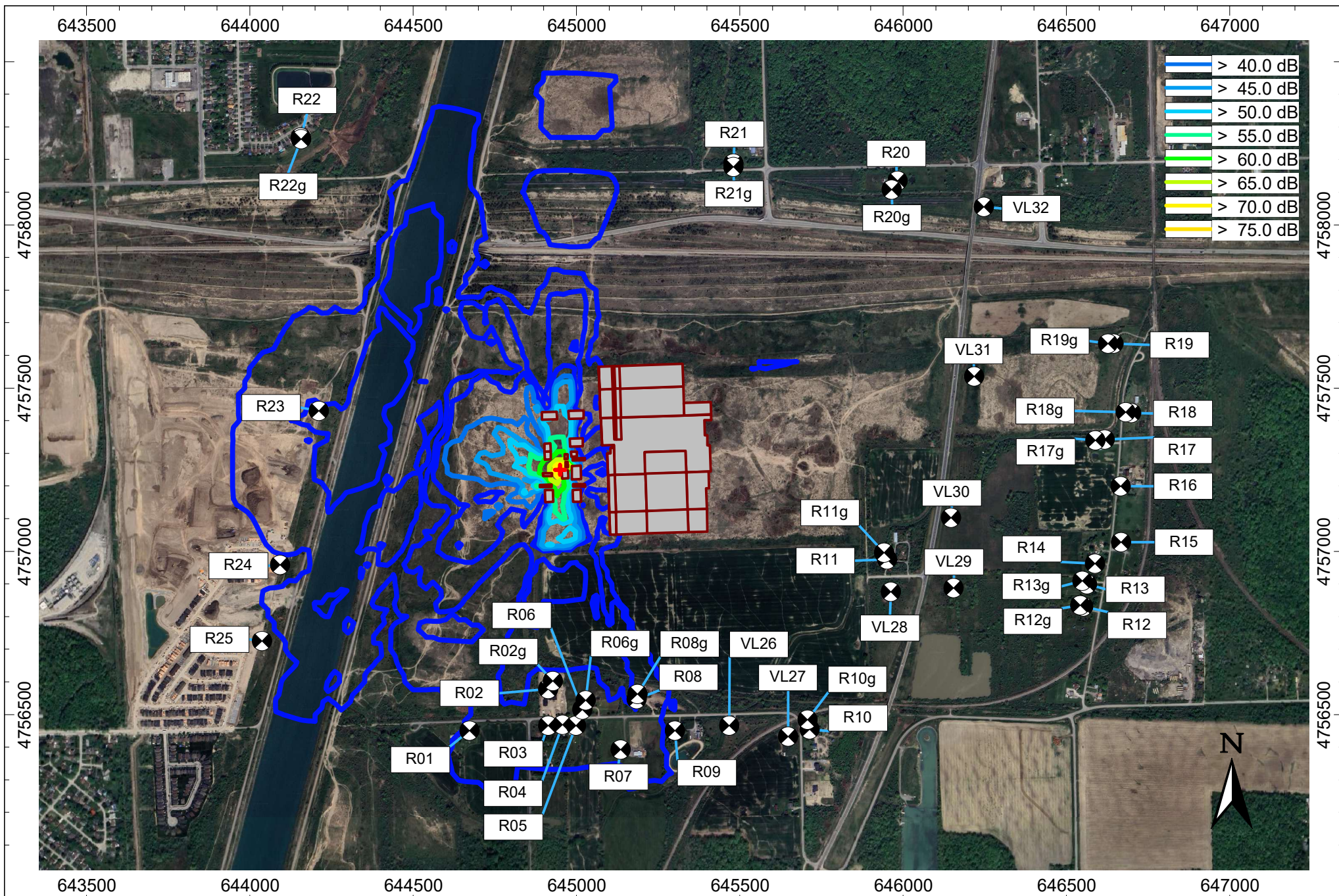
Asahi Kasei Battery Separator Canada

Figure Title

Noise Impact Predictions - Proposed Site (Nighttime)

Noise Contours at 4.5 m Height

Figure 3C



Project ID: 24045.00

Scale: As Indicated

Drawn by: HF

Reviewed by: KC

Date: Jan 28, 2025

Revision: 2

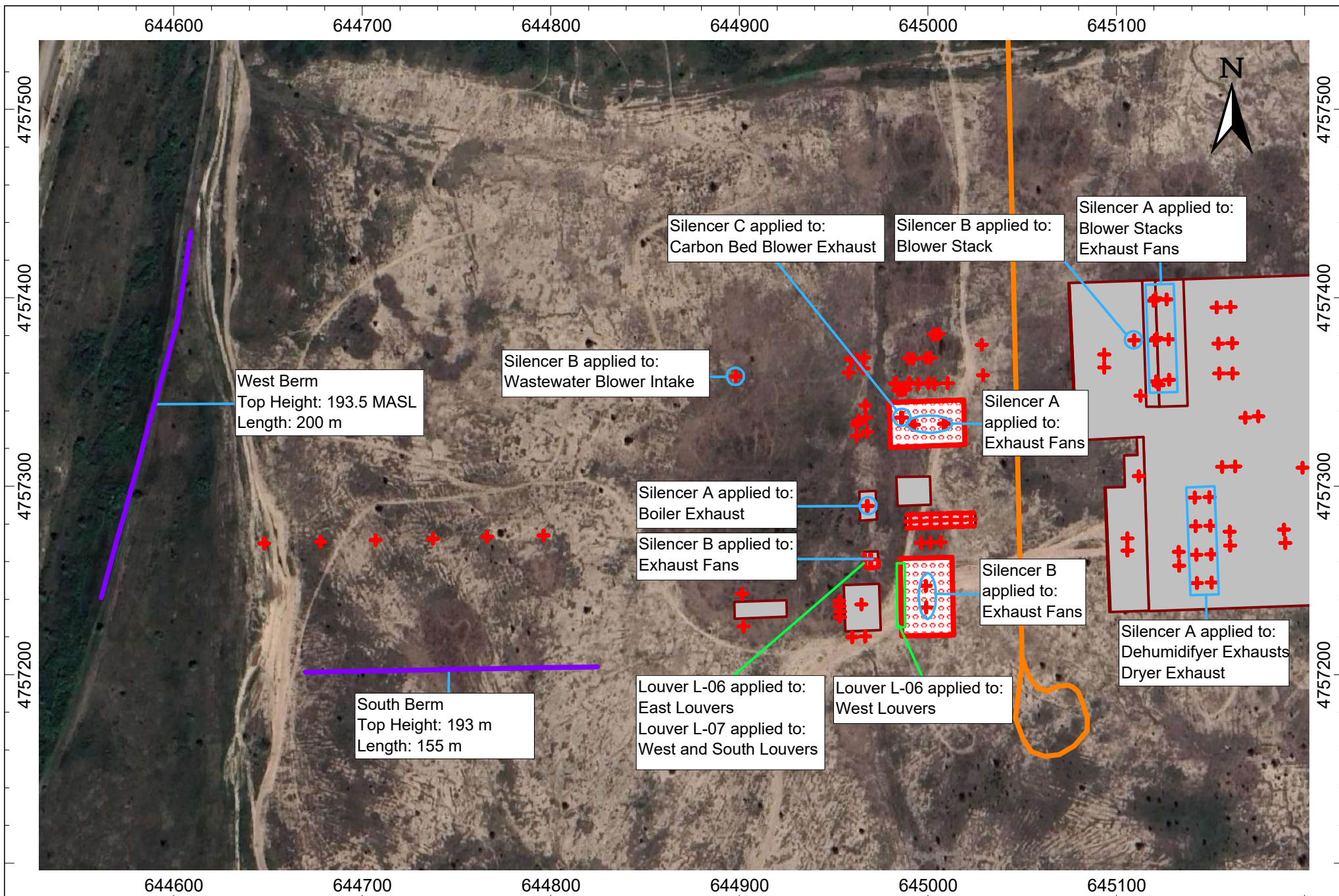
Project Name

Asahi Kasei Battery Separator Canada

Figure Title

Noise Impact Predictions - Emergency Equipment
Noise Contours at 4.5 m Height

Figure 4



Appendix A

Acoustic Assessment Summary Table

Acoustic Assessment Summary Table - Proposed Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R01	Existing 2-storey dwelling 800 m southwest	Day	37	45	Yes	Class 3	No
		Evening	37	40	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R02	Existing 1-storey dwelling 575 m south	Day	38	45	Yes	Class 3	No
		Evening	37	40	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R02g	Outdoor point of reception corresponding to R02 575 m south	Day	38	45	Yes	Class 3	No
		Evening	37	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R03	Existing 1-storey dwelling 670 m south	Day	37	45	Yes	Class 3	No
		Evening	35	40	Yes	Class 3	No
		Night	35	40	Yes	Class 3	No
R04	Existing 1-storey dwelling 670 m south	Day	37	45	Yes	Class 3	No
		Evening	35	40	Yes	Class 3	No
		Night	35	40	Yes	Class 3	No
R05	Existing 2-storey dwelling 670 m south	Day	39	45	Yes	Class 3	No
		Evening	37	40	Yes	Class 3	No
		Night	37	40	Yes	Class 3	No
R06	Existing 2-storey dwelling 595 m south	Day	39	45	Yes	Class 3	No
		Evening	38	40	Yes	Class 3	No
		Night	37	40	Yes	Class 3	No
R06g	Outdoor point of reception corresponding to R06 595 m south	Day	38	45	Yes	Class 3	No
		Evening	36	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R07	Existing 1-storey dwelling 700 m south	Day	36	45	Yes	Class 3	No
		Evening	34	40	Yes	Class 3	No
		Night	34	40	Yes	Class 3	No
R08	Existing 1-storey dwelling 550 m south	Day	38	45	Yes	Class 3	No
		Evening	36	40	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R08g	Outdoor point of reception corresponding to R08 550 m south	Day	38	45	Yes	Class 3	No
		Evening	36	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No

Acoustic Assessment Summary Table - Proposed Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R09	Existing 2-storey dwelling 620 m south	Day	38	45	Yes	Class 3	No
		Evening	37	40	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
R10	Existing 2-storey dwelling 650 m south	Day	36	50	Yes	Class 2	No
		Evening	35	50	Yes	Class 2	No
		Night	34	45	Yes	Class 2	No
R10g	Outdoor point of reception corresponding to R10 650 m south	Day	34	50	Yes	Class 2	No
		Evening	33	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R11	Existing 1-storey dwelling 450 m southeast	Day	35	50	Yes	Class 2	No
		Evening	34	50	Yes	Class 2	No
		Night	33	45	Yes	Class 2	No
R11g	Outdoor point of reception corresponding to R11 450 m southeast	Day	35	50	Yes	Class 2	No
		Evening	34	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R12	Existing 2-storey dwelling 1050 m east	Day	33	45	Yes	Class 3	No
		Evening	32	40	Yes	Class 3	No
		Night	31	40	Yes	Class 3	No
R12g	Outdoor point of reception corresponding to R12 1050 m east	Day	30	45	Yes	Class 3	No
		Evening	29	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R13	Existing 3-storey dwelling 1050 m east	Day	33	45	Yes	Class 3	No
		Evening	32	40	Yes	Class 3	No
		Night	31	40	Yes	Class 3	No
R13g	Outdoor point of reception corresponding to R13 1050 m east	Day	30	45	Yes	Class 3	No
		Evening	29	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R14	Existing 2-storey dwelling 1060 m east	Day	32	45	Yes	Class 3	No
		Evening	30	40	Yes	Class 3	No
		Night	30	40	Yes	Class 3	No
R15	Existing 2-storey dwelling 1150 m east	Day	31	45	Yes	Class 3	No
		Evening	30	40	Yes	Class 3	No
		Night	29	40	Yes	Class 3	No

Acoustic Assessment Summary Table - Proposed Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R16	Existing 2-storey dwelling 1150 m east	Day	32	45	Yes	Class 3	No
		Evening	30	40	Yes	Class 3	No
		Night	29	40	Yes	Class 3	No
R17	Existing 1-storey dwelling 1080 m east	Day	29	45	Yes	Class 3	No
		Evening	28	40	Yes	Class 3	No
		Night	28	40	Yes	Class 3	No
R17g	Outdoor point of reception corresponding to R17 1080 m east	Day	30	45	Yes	Class 3	No
		Evening	28	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R18	Existing 1-storey dwelling 1160 m east	Day	27	45	Yes	Class 3	No
		Evening	26	40	Yes	Class 3	No
		Night	26	40	Yes	Class 3	No
R18g	Outdoor point of reception corresponding to R18 1160 m east	Day	27	45	Yes	Class 3	No
		Evening	26	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R19	Existing 2-storey dwelling 1130 m east	Day	32	50	Yes	Class 2	No
		Evening	30	50	Yes	Class 2	No
		Night	30	45	Yes	Class 2	No
R19g	Outdoor point of reception corresponding to R19 1130 m east	Day	29	50	Yes	Class 2	No
		Evening	27	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R20	Existing 2-storey dwelling 740 m northeast	Day	38	50	Yes	Class 1	No
		Evening	37	50	Yes	Class 1	No
		Night	37	45	Yes	Class 1	No
R20g	Outdoor point of reception corresponding to R20 740 m northeast	Day	36	50	Yes	Class 1	No
		Evening	35	50	Yes	Class 1	No
		Night	-	-	Yes	Class 1	No
R21	Existing 1-storey dwelling 600 m north	Day	43	50	Yes	Class 1	No
		Evening	42	50	Yes	Class 1	No
		Night	42	45	Yes	Class 1	No
R21g	Outdoor point of reception corresponding to R21 600 m north	Day	43	50	Yes	Class 1	No
		Evening	42	50	Yes	Class 1	No
		Night	-	-	Yes	Class 1	No

Acoustic Assessment Summary Table - Proposed Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R22	Existing 1-storey dwelling 1200 m northwest	Day	39	50	Yes	Class 2	No
		Evening	38	50	Yes	Class 2	No
		Night	38	45	Yes	Class 2	No
R22g	Outdoor point of reception corresponding to R22 1200 m northwest	Day	39	50	Yes	Class 2	No
		Evening	38	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R23	Existing 2-storey dwelling 520 m west	Day	42	50	Yes	Class 2	No
		Evening	41	50	Yes	Class 2	No
		Night	41	45	Yes	Class 2	No
R24	Existing 2-storey dwelling 730 m southwest	Day	41	50	Yes	Class 2	No
		Evening	41	50	Yes	Class 2	No
		Night	41	45	Yes	Class 2	No
R25	Existing 2-storey dwelling 900 m southwest	Day	38	50	Yes	Class 2	No
		Evening	38	50	Yes	Class 2	No
		Night	38	45	Yes	Class 2	No
VL26	Noise sensitive zoned lot 640 m south	Day	38	45	Yes	Class 3	No
		Evening	36	40	Yes	Class 3	No
		Night	36	40	Yes	Class 3	No
VL27	Noise sensitive zoned lot 660 m south	Day	37	50	Yes	Class 2	No
		Evening	35	50	Yes	Class 2	No
		Night	35	45	Yes	Class 2	No
VL28	Noise sensitive zoned lot 500 m southeast	Day	38	50	Yes	Class 2	No
		Evening	37	50	Yes	Class 2	No
		Night	36	45	Yes	Class 2	No
VL29	Noise sensitive zoned lot 670 m southeast	Day	36	50	Yes	Class 2	No
		Evening	35	50	Yes	Class 2	No
		Night	35	45	Yes	Class 2	No
R_Outer	All receptors outside of 1.7 km	Day	< 40	45	Yes	Class 3	No
		Evening	< 40	40	Yes	Class 3	No
		Night	< 40	40	Yes	Class 3	No

Acoustic Assessment Summary Table - Emergency Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R01	Existing 2-storey dwelling 800 m southwest	Day	33	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R02	Existing 1-storey dwelling 575 m south	Day	34	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R02g	Outdoor point of reception corresponding to R02 575 m south	Day	34	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R03	Existing 1-storey dwelling 670 m south	Day	32	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R04	Existing 1-storey dwelling 670 m south	Day	32	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R05	Existing 2-storey dwelling 670 m south	Day	33	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R06	Existing 2-storey dwelling 595 m south	Day	34	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R06g	Outdoor point of reception corresponding to R06 595 m south	Day	33	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R07	Existing 1-storey dwelling 700 m south	Day	33	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R08	Existing 1-storey dwelling 550 m south	Day	34	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R08g	Outdoor point of reception corresponding to R08 550 m south	Day	30	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No

Acoustic Assessment Summary Table - Emergency Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R09	Existing 2-storey dwelling 620 m south	Day	26	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R10	Existing 2-storey dwelling 650 m south	Day	17	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
R10g	Outdoor point of reception corresponding to R10 650 m south	Day	15	50	Yes	Class 2	No
		Evening	-	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R11	Existing 1-storey dwelling 450 m southeast	Day	14	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
R11g	Outdoor point of reception corresponding to R11 450 m southeast	Day	14	50	Yes	Class 2	No
		Evening	-	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R12	Existing 2-storey dwelling 1050 m east	Day	12	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R12g	Outdoor point of reception corresponding to R12 1050 m east	Day	11	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R13	Existing 3-storey dwelling 1050 m east	Day	14	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R13g	Outdoor point of reception corresponding to R13 1050 m east	Day	12	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R14	Existing 2-storey dwelling 1060 m east	Day	14	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R15	Existing 2-storey dwelling 1150 m east	Day	15	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No

Acoustic Assessment Summary Table - Emergency Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R16	Existing 2-storey dwelling 1150 m east	Day	19	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R17	Existing 1-storey dwelling 1080 m east	Day	18	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R17g	Outdoor point of reception corresponding to R17 1080 m east	Day	18	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R18	Existing 1-storey dwelling 1160 m east	Day	10	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
R18g	Outdoor point of reception corresponding to R18 1160 m east	Day	10	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	-	Yes	Class 3	No
R19	Existing 2-storey dwelling 1130 m east	Day	20	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
R19g	Outdoor point of reception corresponding to R19 1130 m east	Day	11	50	Yes	Class 2	No
		Evening	-	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R20	Existing 2-storey dwelling 740 m northeast	Day	12	50	Yes	Class 1	No
		Evening	-	50	Yes	Class 1	No
		Night	-	45	Yes	Class 1	No
R20g	Outdoor point of reception corresponding to R20 740 m northeast	Day	10	50	Yes	Class 1	No
		Evening	-	50	Yes	Class 1	No
		Night	-	-	Yes	Class 1	No
R21	Existing 1-storey dwelling 600 m north	Day	15	50	Yes	Class 1	No
		Evening	-	50	Yes	Class 1	No
		Night	-	45	Yes	Class 1	No
R21g	Outdoor point of reception corresponding to R21 600 m north	Day	15	50	Yes	Class 1	No
		Evening	-	50	Yes	Class 1	No
		Night	-	-	Yes	Class 1	No

Acoustic Assessment Summary Table - Emergency Equipment

Project: Asahi Kasei Battery Separator Canada

Date: January-2025

POR ID	POR Description	Time of Day	Sound Level at POR (dBA)(Leq)	Sound Level Limit (dBA)(Leq)	Compliance with Sound Level Limit?	Class Number	Verified by Acoustic Audit
R22	Existing 1-storey dwelling 1200 m northwest	Day	26	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
R22g	Outdoor point of reception corresponding to R22 1200 m northwest	Day	26	50	Yes	Class 2	No
		Evening	-	45	Yes	Class 2	No
		Night	-	-	Yes	Class 2	No
R23	Existing 2-storey dwelling 520 m west	Day	37	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
R24	Existing 2-storey dwelling 730 m southwest	Day	31	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
R25	Existing 2-storey dwelling 900 m southwest	Day	28	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
VL26	Noise sensitive zoned lot 640 m south	Day	21	45	Yes	Class 3	No
		Evening	-	40	Yes	Class 3	No
		Night	-	40	Yes	Class 3	No
VL27	Noise sensitive zoned lot 660 m south	Day	18	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
VL28	Noise sensitive zoned lot 500 m southeast	Day	15	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
VL29	Noise sensitive zoned lot 670 m southeast	Day	14	50	Yes	Class 2	No
		Evening	-	50	Yes	Class 2	No
		Night	-	45	Yes	Class 2	No
R_Out	All receptors outside of 700 m	Day	< 40	45	Yes	Class 3	No
		Evening	< 40	40	Yes	Class 3	No
		Night	< 40	40	Yes	Class 3	No

Appendix B

MECP Acoustic Assessment Report Checklist and
Statement of Accuracy of Information

Statement of Accuracy of Information

I, Jeyanth Paul Robertson, confirm that as a representative of Asahi Kasei Battery Separator Canada Corporation, all the information I have provided to Aercoustics Engineering Limited in order to prepare the noise report for the facility located at 5088 Highway 140, Port Colborne, Ontario, L3K 5V4, is complete and accurate to the best of my knowledge.

Jeyanth Robertson

2025-01-24

Signature

Date

Company Name

Asahi Kasei Battery Separator Canada Corporation

Company Address

Unit Number 3400	Street Number 22	Street Name Adelaide Street West	PO Box
City/Town Toronto		Province Ontario	Postal Code M5H 4E3
Location of Facility 5088 Highway 140, Port Colborne, Ontario, L3K 5V4			

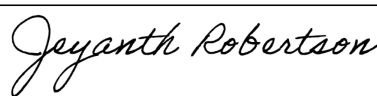
The attached Acoustic Assessment Report was prepared in accordance with the guidance in the ministry document "Information to be Submitted for Approval of Stationary Sources of Sound" (NPC-233) dated October 1995 and the minimum required information identified in the check-list on the reverse of this sheet has been submitted.

Company Contact

☐ By checking this each of the undersigned acknowledge that in providing their name on the applicable line below in electronic form will constitute a signature for the purposes of the *Electronic Commerce Act, 2000*, S.O. 2000, c. 17.

Company Contact

Jeyanth Paul Robertson

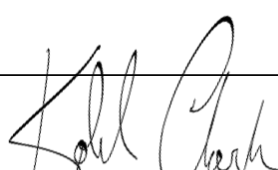
Last Name Robertson	First Name Jeyanth Paul	Middle Initial
Title Environmental Health and Safety Manager		Telephone Number 905-736-4231
Signature 		Date (yyyy/mm/dd) 2025-01-24

Technical Contact

☒ By checking this each of the undersigned acknowledge that in providing their name on the applicable line below in electronic form will constitute a signature for the purposes of the *Electronic Commerce Act, 2000*, S.O. 2000, c. 17.

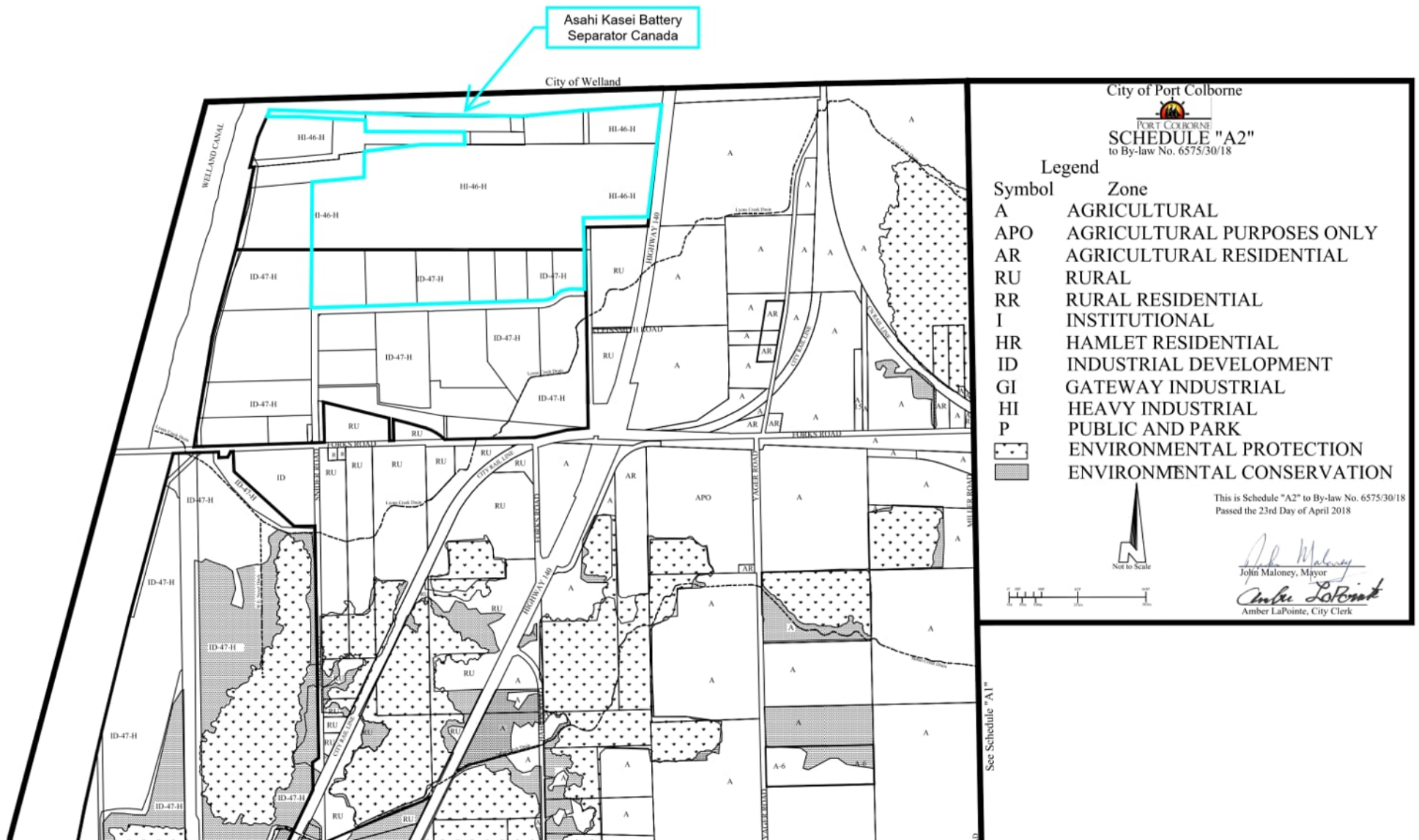
Technical Contact

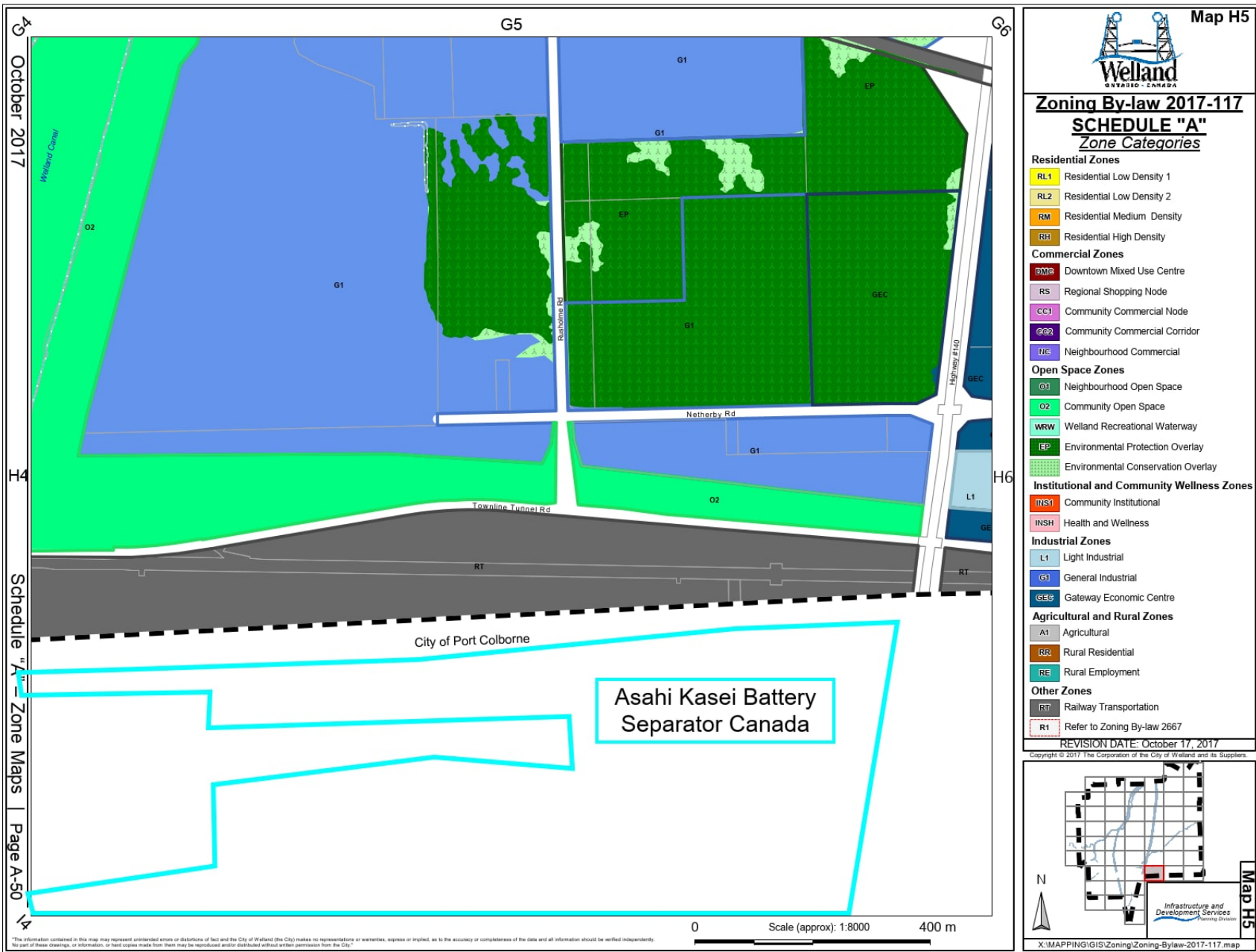
Kohl Clark

Last Name Clark	First Name Kohl	Middle Initial
Representing Aercoustics		Telephone Number 647 951-1494
Signature 		Date (yyyy/mm/dd) 01/29/2025

	Required Information	Submitted	Explanation/Reference
1.0	Introduction (Project Background and Overview)	☒ Yes	
2.0	Facility Description		
	2.1 Operating hours of Facility and significant Noise Sources	☒ Yes	
	2.2 Site Plan identifying all significant Noise Sources	☒ Yes	
3.0	Noise Source Summary		
	3.1 Noise Source Summary Table	☒ Yes	
	3.2 Source noise emissions specifications	☒ Yes	
	3.3 Source power/capacity ratings	☒ Yes	
	3.4 Noise control equipment description and acoustical specifications	☒ Yes	
4.0	Point of Reception Noise Impact Calculations		
	4.1 Point of Reception Noise Impact Table	☒ Yes	
	4.2 Point(s) of Reception (POR) list and description	☒ Yes	
	4.3 Land-use Zoning Plan	☒ Yes	
	4.4 Scaled Area Location Plan	☒ Yes	
	4.5 Procedure used to assess noise impacts at each POR	☒ Yes	
	4.6 List of parameters/assumptions used in calculations	☒ Yes	
5.0	Acoustic Assessment Summary		
	5.1 Acoustic Assessment Summary Table	☒ Yes	
	5.2 Rationale for selecting applicable noise guideline limits	☒ Yes	
	5.3 Predictable Worst Case Impacts Operating Scenario	☒ Yes	
6.0	Conclusions		
	6.1 Statement of compliance with the selected noise performance limits	☒ Yes	
7.0	Appendices (Provide details such as)		
	Listing of Insignificant Noise Sources	☒ Yes	
	Manufacturer's Noise Specifications	☒ Yes	
	Calculations	☒ Yes	
	Instrumentation	☐ Yes	N/A
	Meteorology during Sound Level Measurements	☐ Yes	N/A
	Raw Data from Measurements	☐ Yes	N/A
	Drawings (Facility / Equipment)	☒ Yes	

Appendix C
Zoning Maps





Section 15: Rural (RU)

15.1 General

- a) No person shall use any lot or erect, alter or use any building or structure in any Rural (RU) Zone except in accordance with the applicable provisions of Sections 2, 3 and 15.
- b) In addition to Section 15.1 (a), any lot may be subject to additional regulations or restrictions by the City, upper tier government or agencies as indicated in Section 1.3.

15.2 Permitted Uses

- a) Accessory Agricultural Activities;
- b) Agriculture Use;
- c) Agri-tourism and Value Added Uses;
- d) Cannabis Production Facility;
- e) Conservation Uses;
- f) Dwelling, detached existing at the date of the passing of this By-law as a principal use on a new lot;
- g) Dwelling, detached as a principal use on an existing lot of record;
- h) Kennel;and
- i) Uses, structures and buildings accessory thereto

15.3 Zone Requirements

- | | | |
|----|----------------------------|-----------------------------|
| a) | Minimum Lot Frontage | 30 metres or as existing |
| b) | Minimum Lot Area | 0.4 hectares or as existing |
| c) | Minimum Front Yard | 8 metres |
| d) | Minimum Interior Side Yard | 5 metres |
| e) | Minimum Corner Side Yard | 8 metres |
| f) | Minimum Rear Yard | 8 metres |
| g) | Maximum Lot Coverage | 10 percent |
| h) | Maximum Height | 11 metres |

Section 17: Agricultural Zone (A)

17.1 General

- a) No person shall use any lot or erect, alter or use any building or structure in any Agricultural (A) Zone except in accordance with the applicable provisions of Sections 2, 3 and 17.
- b) In addition to Section 17.1 (a), any lot may be subject to additional regulations or restrictions by the City, upper tier government or agencies as indicated in Section 1.3.

17.2 Permitted Uses

- a) Accessory Agricultural Activities;
- b) Agriculture Use;
- c) Agri-tourism and Value Added Uses;
- d) Cannabis Production Facility;
- e) Conservation Uses;
- f) Dwelling, detached existing at the date of the passing of this By-law as a principal use on a new lot;
- g) Dwelling, detached as a principal use on an existing lot of record at the date of the passing of this By-law;
- h) Kennel; and
- i) Uses, structures and buildings accessory thereto

17.3 Zone Requirements

- | | |
|-------------------------------|--------------------------|
| a) Minimum Lot Frontage | 30 metres or as existing |
| b) Minimum Lot Area | as existing |
| c) Minimum Front Yard | 8 metres |
| d) Minimum Interior Side Yard | 5 metres |
| e) Minimum Corner Side Yard | 8 metres |
| f) Minimum Rear Yard | 8 metres |
| g) Maximum Lot Coverage | 10 percent |
| h) Maximum Height | 11 metres |

Section 27: Heavy Industrial Zone (HI)

27.1 General

- a) No person shall use any lot or erect, alter or use any building or structure in any Heavy Industrial (HI) Zone except in accordance with the applicable provisions of Sections 2, 3 and 27.
- b) In addition to Section 27.1 (a), any lot may be subject to additional regulations or restrictions by the City, upper tier government or agencies as indicated in Section 1.3.

27.2 Permitted Uses - Principal

- a) Adult Entertainment Establishment;
- b) Bulk Fuel Depot;
- c) Cannabis Production Facility;
- d) Car Wash;
- e) Contractor's Yard;
- f) Crematorium;
- g) Education Facility;
- h) Heavy Equipment Sales and Service;
- i) Industry, Heavy;
- j) Industry, Light;
- k) Motor Vehicle Repair Garage;
- l) Public Uses;
- m) Research Facility;
- n) Transportation Depot; and
- o) Uses, structures and buildings accessory thereto and does not include obnoxious, dangerous or offensive trades

27.3 Permitted Uses – Accessory

- a) Food Vehicle;
- b) Office;
- c) Retail Store;

Section 30: Industrial Development Zone (ID)

30.1 General

- a) No person shall use any lot or erect, alter or use any building or structure in any Industrial Development (ID) Zone except in accordance with the applicable provisions of Sections 2, 3 and 30.
- b) In addition to Section 30.1 (a), any lot may be subject to additional regulations or restrictions by the City, upper tier government or agencies as indicated in Section 1.3.

30.2 Permitted Uses

- a) Agricultural Farm Related Commercial or Industrial;
- b) Contractor's Yard;
- c) Heavy Equipment Sales and Service;
- d) Multi-modal Storage Facility;
- e) Research Facility;
- f) Transportation Depot;
- g) Warehouse; and
- h) Uses, structures and buildings accessory thereto and does not include obnoxious, dangerous or offensive trades

30.3 Zone Requirements

- | | | |
|----|---|---|
| a) | Minimum Lot Frontage | 30 metres |
| b) | Minimum Lot Area | 0.4 hectares |
| b) | Minimum Front Yard | 7.5 metres |
| c) | Minimum Front Yard abutting
a Residential or Agricultural Zone | 15 metres |
| d) | Minimum Side Yard | 10 percent of lot frontage
or 3 metres, whichever is
less |
| e) | Minimum Interior Side Yard abutting
a Residential or Agricultural Zone | 15 metres |
| f) | Minimum Interior Side Yard abutting
a Railroad or Hydro Right-of-Way | 1.5 metres |

SECTION 12 INDUSTRIAL ZONES

The Industrial Zones apply to lands designated INDUSTRIAL in the Official Plan.

12.1 Applicable Zones

The Industrial Zones apply to lands Zoned:

- L1 Light Industrial
- G1 General Industrial
- GEC Gateway Economic Centre
- X Aggregate Extraction

12.2 Permitted Uses

Uses permitted in a Zone are noted by the symbol “✓” in the column applicable to that Zone and corresponding with the row for a specific permitted use in Table 12.2.1. A number(s) following the symbol “✓”, Zone heading or identified permitted use, indicates that one or more special regulations apply to the use noted or, in some cases, to the entire Zone.

No person shall within any Industrial Zone use or permit the use of any lot or erect, alter or use any building or structure for any purpose other than those permitted uses within Table 12.2.1. Special regulations are listed in the footnotes at the end of the permitted uses in Table 12.2.1.

Table 12.2.1: Permitted Uses in Industrial Zones

Column 1	Column 2	Column 3	Column 4	Column 5
Permitted Uses	L1	G1	GEC	X
Accessory Uses, Buildings and Structures	✓(1)	✓(1)	✓(1)	✓
Aggregate Extraction Operation				✓
Animal Shelter	✓	✓		
Athletic/Fitness Establishment	✓(2)	✓(2)	✓(2)	
Building or Contracting Supply Establishment	✓	✓	✓	

Column 1	Column 2	Column 3	Column 4	Column 5
Permitted Uses	L1	G1	GEC	X
Bulk Storage		✓(3)	✓(3)	✓(3)
Cannabis Production Facility	✓	✓	✓	
Commercial Greenhouse	✓		✓	
Contractor's Establishment	✓	✓	✓	
Custom Workshop	✓	✓	✓	
Day Care Centre	✓(2)	✓(2)	✓(2)	
Dry Cleaning and Laundry Plant	✓	✓		
Existing Adult Entertainment Parlour		✓		
Financial Institution	✓(2)	✓(2)	✓(2)	
Food Production	✓	✓	✓	
Funeral Home including Crematorium	✓	✓		
Generating Plant	✓	✓	✓	
Heavy Equipment Sales, Rental and Service	✓	✓	✓	
Heavy Industrial		✓	✓	
Hotel/Motel			✓	
Laboratories	✓	✓	✓	
Light Equipment/Machinery Sales Rental and Service Establishment	✓	✓	✓	
Light Industrial	✓	✓	✓	

Column 1	Column 2	Column 3	Column 4	Column 5
Permitted Uses	L1	G1	GEC	X
Manufacturer Showroom/ Accessory Retail Sales	✓(3)	✓(3)	✓(3)	
Market Garden – Open Air Market	✓	✓		
Medical Office or Clinic			✓(2)	
Motor Vehicle Body Shop	✓	✓		
Motor Vehicle Dealership	✓	✓		
Motor Vehicle Repair Establishment	✓	✓		
Motor Vehicle Service Station	✓	✓		
Motor Vehicle Washing Establishment	✓	✓		
Offices	✓(3)	✓(3)	✓(3)	
Office, Major			✓	
Outside Storage	✓(3)	✓(3)	✓(3)	
Parking Lot	✓	✓	✓	
Place of Assembly	✓	✓		
Printing Establishment	✓	✓	✓	
Propane Transfer Facility	✓	✓	✓	
Repair Shops and Services	✓	✓	✓	
Research and Development	✓	✓	✓	
Restaurant	✓(2)	✓(2)	✓(2)	
School, Commercial	✓	✓	✓	
Service Commercial Establishment	✓(2)	✓(2)	✓(2)	

Column 1	Column 2	Column 3	Column 4	Column 5
Permitted Uses	L1	G1	GEC	X
Sleeping Facilities for Occasional Use	✓	✓	✓	
Storage Yard	✓	✓		
Surveying, Engineering, Planning or Design Business	✓(2)		✓(2)	
Technology Industry	✓	✓	✓	
Training Facilities	✓	✓	✓	
Trucking Operation	✓	✓	✓	
Warehouse/Public Storage	✓	✓	✓	
Waste Transfer/Processing/ Recycling Facility	✓	✓		
Wholesale Facility		✓		

Footnotes:

- (1) Refer to Subsection 5.3 - Accessory Uses, Buildings and Structures
- (2) Shall only be permitted as an accessory use in a mixed use building/property.
- (3) Shall only be permitted as an accessory use to a principal use.

12.3 Regulations for Industrial Zones

The regulations for lots in an Industrial Zone are set out in Table 12.3.1. No person shall within any Industrial Zone use any lot or erect, alter or use any building or structure except in accordance with the regulations including in the following Table.

Table 12.3.1: Regulations for Industrial Zones

Column 1	Column 2	Column 3
Regulations	L1, G1, GEC	X
Lot Area (minimum)	0 m ²	40 ha

SECTION 13 AGRICULTURAL AND RURAL ZONES

The Agricultural and Rural Zones apply to lands designated AGRICULTURAL, RURAL and RURAL EMPLOYMENT in the Official Plan.

13.1 Applicable Zones

The Agricultural and Rural Zones of this By-law apply to lands Zoned:

- A1 Agricultural
- RR Rural Residential
- RE Rural Employment

13.2 Permitted Uses

Uses permitted in a Zone are noted by the symbol “✓” in the column applicable to that Zone and corresponding with the row for a specific permitted use in Table 13.2.1. A number(s) following the symbol “✓”, Zone heading or identified permitted use, indicates that one or more special regulations apply to the use noted or, in some cases, to the entire Zone.

No person shall within any Agricultural or Rural Zone use or permit the use of any lot or erect, alter or use any building or structure for any purpose other than those permitted uses within Table 13.2.1. Special regulations are listed in the footnotes at the end of the permitted uses in Table 13.2.1.

Table 13.2.1: Permitted Uses in Agricultural and Rural Zones

Column 1	Column 2	Column 3	Column 4
Permitted Uses	A1	RR	RE
Accessory Uses, Buildings and Structures	✓(1)	✓(1)	✓(1)
Accessory Dwelling Unit	✓	✓	
Agriculture	✓	✓	✓
Agri-Tourism	✓(8)		✓
Agriculture-Related Uses	✓		✓
Bed and Breakfast Establishment	✓	✓	✓
Cannabis Production Facility	✓		✓

Column 1	Column 2	Column 3	Column 4
Permitted Uses	A1	RR	RE
Cemetery	✓	✓	
Farm Labour Residence	✓		
Farm Produce/Product Stand	✓	✓	✓
Farm Machinery Sales and Repair			✓
Garden Suite	✓(3)	✓(3)	
Greenhouse	✓		
Group Home	✓	✓	
Home Industry	✓(4)	✓(4)	
Home Occupation	✓(7)	✓(7)	
Kennel	✓		
Landscape Contracting Establishment			✓
Lumber Yards			✓
Market Garden	✓		
Outside Storage (5)	✓		✓
Short-Term Rental	✓	✓	✓
Single-Detached Dwelling	✓(2)	✓	✓(6)
Single-Detached Dwelling (Principal Use on Existing Lot of Record)	✓	✓	
Trucking Operation (Related to Agricultural Uses)			✓
Veterinary Service	✓	✓	✓
Warehousing (Related to Agricultural Uses)	✓		✓

Footnotes:

- (1) Refer for Subsection 5.3 - Accessory Uses, Buildings and Structures
- (2) Permitted as an accessory or secondary use to an agricultural operation
- (3) Refer to Subsection - 5.15 Garden Suites
- (4) Refer to Subsection - 5.17 Home Industries
- (5) Accessory to a permitted principle use
- (6) Permitted as an accessory use to a permitted Rural Employment Use
- (7) Refer to Subsection - 5.18 Home Occupations
- (8) Buildings and Structures used for Agritourism are limited to 250 m² in gross floor area.

Appendix D

Noise Source Summary Table and
Insignificant Noise Sources

Noise Source Summary Table

Notes:

1. O: located/installed outside the building, including on the roof, I: located/installed inside the building

2. S: Steady; Q: Quasi Steady Impulsive; I: Impulsive; B: Buzzing; T: Tonal; C: Cyclic

3. S: Silencer, Acoustic Louvre, Muffler; A: Acoustics lining, Plenum; B: Barrier, Berm, Screening;

E: Acoustic Enclosure; O: Other; U: Uncontrolled R: Removed from Service

*Includes attenuation due to silencing and/or penalty adjustment.

Source ID	Source Description	Sound Power Level (dBA)	Source Location ¹	Sound Characteristic ²	Noise Control Measures ³
S001a	T1 - 160 MVA HVTX (NEMA) Core	99	O	S	B
S001b	T1 - 160 MVA HVTX (NEMA) Fan	90	O	S	B
S002a	T2 - 160 MVA HVTX (NEMA) Core	99	O	S	B
S002b	T2 - 160 MVA HVTX (NEMA) Fan	90	O	S	B
S003a	T3 - 160 MVA HVTX (NEMA) Core	99	O	S	B
S003b	T3 - 160 MVA HVTX (NEMA) Fan	90	O	S	B
S004a	T4 - 160 MVA HVTX (NEMA) Core	99	O	S	B
S004b	T4 - 160 MVA HVTX (NEMA) Fan	90	O	S	B
S005a	T5 - 160 MVA HVTX (NEMA) Core	99	O	S	B
S005b	T5 - 160 MVA HVTX (NEMA) Fan	90	O	S	B
S006a	T6 - 160 MVA HVTX (NEMA) Core	99	O	S	B
S006b	T6 - 160 MVA HVTX (NEMA) Fan	90	O	S	B
S007	Wastewater Blower Intake	93*	O	S	S
S008	Distillation Pump 2	99	O	S	U
S009	Flash Tank Drain Pump	79	O	S	U
S010	Flash Tank Vacuum Pump	88	O	S	U
S011	Flash Tank Bottom Pump	79	O	S	U
S012	Reboiler Circulation Pump	95	O	S	U
S013	Distillation Column Reflex Pump	85	O	S	U
S014	RLP feed pump A	87	O	S	U
S015	RLP feed pump B	87	O	S	U
S016	LP feed pump A	87	O	S	U
S017	LP feed pump B	87	O	S	U
S018	EM truck unloading pump	87	O	S	U
S019	LP truck unloading pump	87	O	S	U
S020	WO truck loading pump	87	O	S	U
S021	VAC Truck	104	O	S	U
S022	EM Feed Pump 2 B	89	O	S	U
S023	EM Feed Pump 2 A	89	O	S	U
S024	WEM Feed Pump B	99	O	S	U
S025	WEM Feed Pump A	99	O	S	U
S026	WS Feed Pump B	99	O	S	U
S027	WS Feed Pump A	99	O	S	U
S028	WH Pump	89	O	S	U
S029	EML Feed Pump B	83	O	S	U
S030	EML Feed Pump A	83	O	S	U
S031	EM Feed Pump B	95	O	S	U
S032	EM Feed Pump A	95	O	S	U
S033	VAC Truck	104	O	S	U
S034	Coaguration tank ejection pump	87	O	S	U
S035	Flushing oil feed pump	87	O	S	U
S036	WLP Booster Pump	81	O	S	U
S037	RLP Circulation Pump	91	O	S	U
S038	Filtrate solution pump	87	O	S	U
S039	RLP Circulation 2nd Pump	91	O	S	U
S040	4) Waste Gas Absorption - Roof	82*	O	S	O
S041	4) Waste Gas Absorption - Walls	87*	O	S	O

Noise Source Summary Table

Notes:

1. O: located/installed outside the building, including on the roof, I: located/installed inside the building

2. S: Steady; Q: Quasi Steady Impulsive; I: Impulsive; B: Buzzing; T: Tonal; C: Cyclic

3. S: Silencer, Acoustic Louvre, Muffler; A: Acoustics lining, Plenum; B: Barrier, Berm, Screening;

E: Acoustic Enclosure; O: Other; U: Uncontrolled R: Removed from Service

*Includes attenuation due to silencing and/or penalty adjustment.

Source ID	Source Description	Sound Power Level (dBA)	Source Location ¹	Sound Characteristic ²	Noise Control Measures ³
S042	4) Waste Gas Absorption - Louver	104	O	S	U
S043	4) Waste Gas Absorption - Louver	104	O	S	U
S044	Carbon Bed - 3x Blowers (Stack)	96*	O	S	S
S045	Exhaust Fan Motor - Aux 4	90	O	S	U
S046	Exhaust Fan Stack - Aux 4	84*	O	S	S
S047	Exhaust Fan Motor - Aux 4	90	O	S	U
S048	Exhaust Fan Stack - Aux 4	84*	O	S	S
S049	Exhaust Fan Motor - Aux 4	90	O	S	U
S050	3) Gas Boiler - Boiler Package (3x Boilers)	88*	O	S	S
S051	Exhaust Fan Motor - Aux 3	90	O	S	U
S052	Cooling Tower Top	96	O	S	O
S053	Cooling Tower Top	96	O	S	O
S054	Cooling Tower Top	96	O	S	O
S055	Cooling Tower Top	96	O	S	O
S056	Cooling Tower Top	96	O	S	O
S057	Cooling Tower Top	96	O	S	O
S058	Cooling Tower Top	96	O	S	O
S059	Cooling Tower Louver	89	O	S	O
S060	Cooling Tower Louver	89	O	S	O
S061	Cooling Tower Louver	89	O	S	O
S062	Cooling Tower Louver	89	O	S	O
S063	Cooling Tower Louver	89	O	S	O
S064	Cooling Tower Louver	89	O	S	O
S065	Cooling Tower Louver	89	O	S	O
S066	Cooling Tower Louver	89	O	S	O
S067	Cooling Tower Louver	89	O	S	O
S068	Cooling Tower Louver	89	O	S	O
S069	Cooling Tower Louver	89	O	S	O
S070	Cooling Tower Louver	89	O	S	O
S071	Cooling Tower Louver	89	O	S	O
S072	Cooling Tower Louver	89	O	S	U
S073	Cooling water pump A	101	O	S	U
S074	Cooling water pump B	101	O	S	U
S075	Cooling water pump C	101	O	S	U
S076a	60 MVA MVTX (NEMA-10) Core	77	O	S	U
S076b	60 MVA MVTX (NEMA-10) Fan	85	O	S	U
S077a	60 MVA MVTX (NEMA-10) Core	77	O	S	U
S077b	60 MVA MVTX (NEMA-10) Fan	85	O	S	U
S078	1.5 MVA Transformer	73	O	S	U
S079	1.5 MVA Transformer	73	O	S	U
S080	1.5 MVA Transformer	73	O	S	U
S081	1.5 MVA Transformer	73	O	S	U
S082	Exhaust Fan Short - Aux 12	90	O	S	U
S083	10 MVA Transformer	85	O	S	U
S084	10 MVA Transformer	85	O	S	U
S085	13) Air Compressor - Louver	89*	O	S	S

Noise Source Summary Table

Notes:

1. O: located/installed outside the building, including on the roof, I: located/installed inside the building

2. S: Steady; Q: Quasi Steady Impulsive; I: Impulsive; B: Buzzing; T: Tonal; C: Cyclic

3. S: Silencer, Acoustic Louvre, Muffler; A: Acoustics lining, Plenum; B: Barrier, Berm, Screening;

E: Acoustic Enclosure; O: Other; U: Uncontrolled R: Removed from Service

*Includes attenuation due to silencing and/or penalty adjustment.

Source ID	Source Description	Sound Power Level (dBA)	Source Location ¹	Sound Characteristic ²	Noise Control Measures ³
S086	13) Air Compressor - Louver	89*	O	S	S
S087	13) Air Compressor - Louver	89*	O	S	S
S088	13) Air Compressor - Louver	89*	O	S	S
S089	13) Air Compressor - Louver	89*	O	S	S
S090	EF-046 Stack	89*	O	S	S
S091	EF-046 Motor	90	O	S	U
S092	2) Refrigerated Water - Roof	85*	O	S	O
S093	2) Refrigerated Water - Walls	67*	O	S	O
S094	2) Refrigerated Water - Louver	87*	O	S	S
S095	2) Refrigerated Water - Louver	87*	O	S	S
S096	2) Refrigerated Water - Louver	87*	O	S	S
S097	2) Refrigerated Water - Louver	87*	O	S	S
S098	2) Refrigerated Water - Louver	87*	O	S	S
S099	Exhaust Fan Stack- Aux 2	88*	O	S	S
S100	Exhaust Fan Stack- Aux 2	88*	O	S	S
S101	Roof Top Unit	82	O	S	O
S102	Roof Top Unit	82	O	S	O
S103	Roof Top Unit	82	O	S	O
S104	Roof Top Unit	82	O	S	O
S105	Air Handling Unit	89	O	S	O
S106	Air Handling Unit	89	O	S	O
S107	1a1 - Raw material Receiving Blower x3	82*	O	S	S
S108	Air Handling Unit	89	O	S	O
S109	1a4 - Raw and additive feed blower	86*	O	S	S
S110	1a3 - Raw and additive feed blower	83*	O	S	S
S111	1a2 - Raw and additive feed blower	86*	O	S	S
S112a	Exhaust Fan Opening	93*	O	S	S
S112b	Exhaust Fan Motor	90	O	S	U
S113a	Exhaust Fan Opening	93*	O	S	S
S113b	Exhaust Fan Motor	90	O	S	U
S114a	Exhaust Fan Opening	93*	O	S	S
S114b	Exhaust Fan Motor	90	O	S	U
S115	1a7 - Cleaning Blower	83*	O	S	S
S116	1a6 - Cleaning Blower	83*	O	S	S
S117	1a5 - Cleaning Blower	83*	O	S	S
S118	Air Handling Unit	89	O	S	O
S119	Air Handling Unit	89	O	S	O
S120	Air Handling Unit	89	O	S	O
S121	Air Handling Unit	89	O	S	O
S122	Air Handling Unit	89	O	S	O
S123	Air Handling Unit	89	O	S	O
S124	Air Handling Unit	89	O	S	O
S125	Air Handling Unit	89	O	S	O
S126	Air Handling Unit	89	O	S	O
S127	Exhaust Fan	83	O	S	U
S128	Exhaust Fan	83	O	S	U
S129	Exhaust Fan	83	O	S	U

Noise Source Summary Table

Notes:

1. O: located/installed outside the building, including on the roof, I: located/installed inside the building

2. S: Steady; Q: Quasi Steady Impulsive; I: Impulsive; B: Buzzing; T: Tonal; C: Cyclic

3. S: Silencer, Acoustic Louvre, Muffler; A: Acoustics lining, Plenum; B: Barrier, Berm, Screening;

E: Acoustic Enclosure; O: Other; U: Uncontrolled R: Removed from Service

*Includes attenuation due to silencing and/or penalty adjustment.

Source ID	Source Description	Sound Power Level (dBA)	Source Location ¹	Sound Characteristic ²	Noise Control Measures ³
S130	Exhaust From Buffer Zone	83	O	S	U
S131	Exhaust From Buffer Zone	83	O	S	U
S132	Exhaust From Buffer Zone	83	O	S	U
S133	Exhaust From Buffer Zone	83	O	S	U
S134	Exhaust From Buffer Zone	83	O	S	U
S135	Exhaust From Buffer Zone	83	O	S	U
S136	Air Handling Unit	89	O	S	O
S137	Air Handling Unit	89	O	S	O
S138	Air Handling Unit	89	O	S	O
S139	Air Handling Unit	89	O	S	O
S140	Air Handling Unit	89	O	S	O
S141	Air Handling Unit	89	O	S	O

Noise Source Summary Table

Notes:

1. O: located/installed outside the building, including on the roof, I: located/installed inside the building

2. S: Steady; Q: Quasi Steady Impulsive; I: Impulsive; B: Buzzing; T: Tonal; C: Cyclic

3. S: Silencer, Acoustic Louvre, Muffler; A: Acoustics lining, Plenum; B: Barrier, Berm, Screening;

E: Acoustic Enclosure; O: Other; U: Uncontrolled R: Removed from Service

*Includes attenuation due to silencing and/or penalty adjustment.

Source ID	Source Description	Sound Power Level (dBA)	Source Location ¹	Sound Characteristic ²	Noise Control Measures ³
S142	Air Handling Unit	89	O	S	O
S143	Air Handling Unit	89	O	S	O
S144	Air Handling Unit	89	O	S	O
S145	Air Handling Unit	89	O	S	O
S146	Exhaust Fan Short - Machine Room	90	O	S	U
S147	Air Handling Unit	89	O	S	O
S148	Air Handling Unit	89	O	S	O
S149	Roof Top Unit	82	O	S	O
S150	Air Handling Unit	89	O	S	O
S151	Air Handling Unit	89	O	S	O
S152	Roof Top Unit	82	O	S	O
S153	Exhaust Fan Short - Mezzanine	84	O	S	U
S154	Exhaust Fan Short - Mezzanine	84	O	S	U
S155	Exhaust Fan Short - Mezzanine	84	O	S	U
S156	Air Handling Unit	89	O	S	O
S157	Air Handling Unit	89	O	S	O
S158	Air Handling Unit	89	O	S	O
S159	Air Handling Unit	89	O	S	O
S160	Dehumidifier Fan	88*	O	S	S
S161	Dehumidifier Fan	88*	O	S	S
S162	Dehumidifier Fan	88*	O	S	S
S163	Dehumidifier Fan	88*	O	S	S
S164	Dryer 1, 2 Exhaust Fan	88*	O	S	S
S165	Dryer 1, 2 Exhaust Fan	88*	O	S	S
S166	Dryer 1, 2 Exhaust Fan	88*	O	S	S
S167	Dryer 1, 2 Exhaust Fan	88*	O	S	S
S168	Air Handling Unit	89	O	S	O
S169	Air Handling Unit	89	O	S	O
S170	Air Handling Unit	89	O	S	O
S171	Air Handling Unit	89	O	S	O
S172	Air Handling Unit	89	O	S	O
S173	Air Handling Unit	89	O	S	O
S174	Air Handling Unit	89	O	S	O
S175	Air Handling Unit	89	O	S	O
S176	Air Handling Unit	89	O	S	O
S177	Air Handling Unit	89	O	S	O
S178	Air Handling Unit	89	O	S	O
S179	Air Handling Unit	89	O	S	O
S180	Air Handling Unit	89	O	S	O
S181	Air Handling Unit	89	O	S	O
S182	Air Handling Unit	89	O	S	O
S183	Air Handling Unit	89	O	S	O
S184	Roof Top Unit	82	O	S	O
S185	Truck Pass By	99	O	S	U
ES01	Emergency Generator	109	O	S	O

Insignificant Noise Sources

Source Description	<u>Location</u>	Reasoning
Small HVAC units	Associated with buildings	Low sound level
Delivery truck idling	At docking areas	Low noise level due to shielding, setback, and limited idling per by-law
Truck loading and unloading impulses	At docking areas	Insignificant noise level due to shielding and setback
Small vehicle movements	Site wide	Infrequent and low sound level

Appendix E
Ambient Data



Monitor ID: Eagle 5

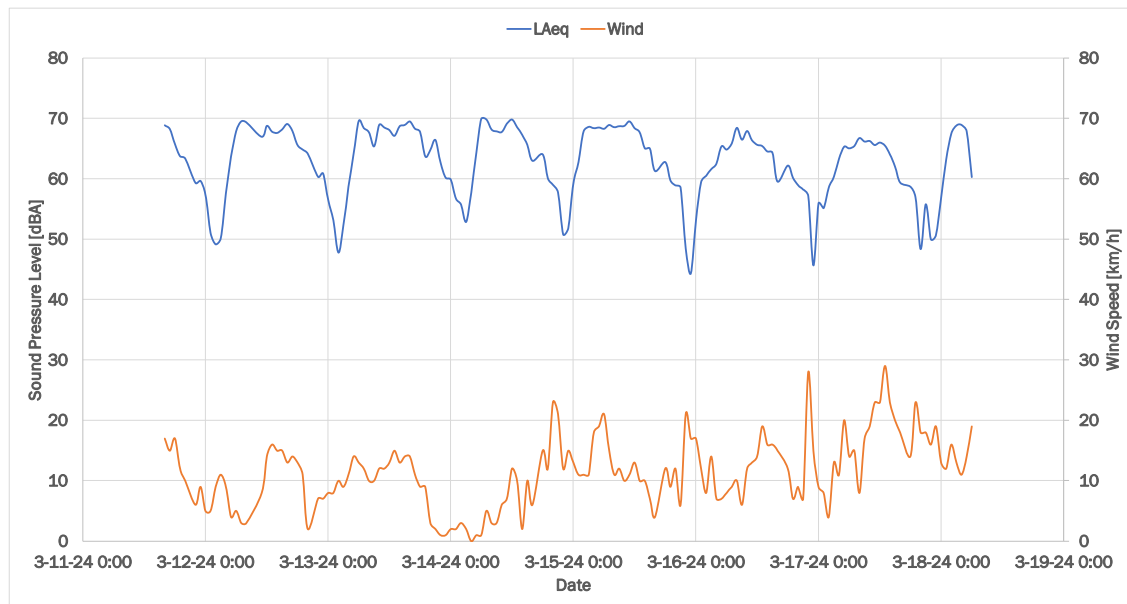
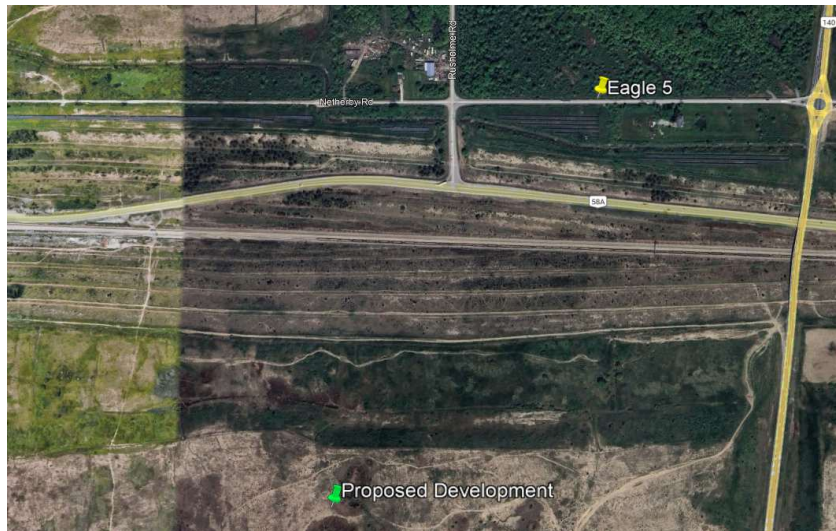
Monitoring Period: Monday, March 11 to Monday, March 18, 2024

Project: Project Eagle
Project Number: 24045

Time Period	Minimum Leq
Day (07:00 - 19:00)	59 dBA
Evening (19:00 - 23:00)	59 dBA
Night (23:00 - 07:00)	48 dBA

GPS Location (UTM)	
Zone	17 T
Easting	645842
Northing	4758182

Monitoring Equipment	
Manufacturer	Aercoustics
Model Number	ARMS-GFY-P61
Serial Number	CNN0rX2yeX+9oJPib2jRnD



Monitor ID: Eagle 5

Monitoring Period: Monday, March 11 to Monday, March 18, 2024

Project: Project Eagle
Project Number: 24045

Time Period	Minimum Leq
Day (07:00 - 19:00)	59 dBA
Evening (19:00 - 23:00)	59 dBA
Night (23:00 - 07:00)	48 dBA

GPS Location (UTM)	
Zone	17 T
Easting	645842
Northing	4758182

Monitoring Equipment	
Manufacturer	Aercoustics
Model Number	ARMS-GFY-P61
Serial Number	CNN0rX2yeX+9oJPib2jRnD

Date/Time	1-hour LAeq	Period	Wind Speed kph	Precip. Amount (mm)
3-11-24 16:00	69	daytime	17	0.0
3-11-24 17:00	68	daytime	15	0.0
3-11-24 18:00	66	daytime	17	0.0
3-11-24 19:00	64	evening	12	0.0
3-11-24 20:00	63	evening	10	0.0
3-11-24 22:00	59	evening	6	0.0
3-11-24 23:00	60	nighttime	9	0.0
3-12-24 0:00	57	nighttime	5	0.0
3-12-24 1:00	51	nighttime	5	0.0
3-12-24 2:00	49	nighttime	9	0.0
3-12-24 3:00	50	nighttime	11	0.0
3-12-24 4:00	58	nighttime	9	0.0
3-12-24 5:00	64	nighttime	4	0.0
3-12-24 6:00	68	nighttime	5	0.0
3-12-24 7:00	70	daytime	3	0.0
3-12-24 8:00	69	daytime	3	0.0
3-12-24 11:00	67	daytime	8	0.0
3-12-24 12:00	69	daytime	14	0.0
3-12-24 13:00	68	daytime	16	0.0
3-12-24 14:00	68	daytime	15	0.0
3-12-24 15:00	68	daytime	15	0.0
3-12-24 16:00	69	daytime	13	0.0
3-12-24 17:00	68	daytime	14	0.0
3-12-24 18:00	66	daytime	13	0.0
3-12-24 19:00	65	evening	11	0.0
3-12-24 20:00	64	evening	2	0.0
3-12-24 22:00	60	evening	7	0.0
3-12-24 23:00	61	nighttime	7	0.0
3-13-24 0:00	56	nighttime	8	0.0
3-13-24 1:00	53	nighttime	8	0.0
3-13-24 2:00	48	nighttime	10	0.0
3-13-24 3:00	52	nighttime	9	0.0
3-13-24 4:00	59	nighttime	11	0.0
3-13-24 5:00	64	nighttime	14	0.0
3-13-24 6:00	70	nighttime	13	0.0
3-13-24 7:00	68	daytime	12	0.0
3-13-24 8:00	68	daytime	10	0.0
3-13-24 9:00	65	daytime	10	0.0
3-13-24 10:00	69	daytime	12	0.0
3-13-24 11:00	68	daytime	12	0.0
3-13-24 12:00	68	daytime	13	0.0
3-13-24 13:00	67	daytime	15	0.0
3-13-24 14:00	69	daytime	13	0.0
3-13-24 15:00	69	daytime	14	0.0
3-13-24 16:00	69	daytime	14	0.0
3-13-24 17:00	68	daytime	11	0.0
3-13-24 18:00	68	daytime	9	0.0
3-13-24 19:00	64	evening	9	0.0
3-13-24 20:00	65	evening	3	0.0
3-13-24 21:00	66	evening	2	0.0
3-13-24 22:00	63	evening	1	0.0
3-13-24 23:00	60	nighttime	1	0.0
3-14-24 0:00	60	nighttime	2	0.0
3-14-24 1:00	57	nighttime	2	0.0
3-14-24 2:00	56	nighttime	3	0.0
3-14-24 3:00	53	nighttime	2	0.0
3-14-24 4:00	58	nighttime	0	0.0
3-14-24 5:00	64	nighttime	1	0.0
3-14-24 6:00	70	nighttime	1	0.0
3-14-24 7:00	70	daytime	5	0.0
3-14-24 8:00	68	daytime	3	0.0
3-14-24 9:00	68	daytime	3	0.0
3-14-24 10:00	68	daytime	6	0.0
3-14-24 11:00	69	daytime	7	0.0
3-14-24 12:00	70	daytime	12	0.0
3-14-24 13:00	69	daytime	10	0.0
3-14-24 14:00	67	daytime	2	0.0
3-14-24 15:00	66	daytime	10	0.0
3-14-24 16:00	63	daytime	6	0.0
3-14-24 18:00	64	daytime	15	1.9
3-14-24 19:00	60	evening	12	2.2
3-14-24 20:00	59	evening	23	1.5
3-14-24 21:00	58	evening	21	0.5
3-14-24 22:00	51	evening	12	2.7
3-14-24 23:00	52	nighttime	15	0.1
3-15-24 0:00	59	nighttime	13	0.0
3-15-24 1:00	63	nighttime	11	0.0
3-15-24 2:00	68	nighttime	11	0.0
3-15-24 3:00	69	nighttime	11	0.0
3-15-24 4:00	68	nighttime	18	0.4
3-15-24 5:00	69	nighttime	19	0.0
3-15-24 6:00	68	nighttime	21	0.0
3-15-24 7:00	69	daytime	15	0.0

Monitor ID: Eagle 5

Monitoring Period: Monday, March 11 to Monday, March 18, 2024

Project: Project Eagle
Project Number: 24045

Time Period	Minimum Leq
Day (07:00 - 19:00)	59 dBA
Evening (19:00 - 23:00)	59 dBA
Night (23:00 - 07:00)	48 dBA

GPS Location (UTM)	
Zone	17 T
Easting	645842
Northing	4758182

Monitoring Equipment	
Manufacturer	Aercoustics
Model Number	ARMS-GFY-P61
Serial Number	CNN0rX2yeX+9oJPib2jRnD

Date/Time	1-hour LAeq	Period	Wind Speed kph	Precip. Amount (mm)
3-15-24 8:00	69	daytime	11	0.0
3-15-24 9:00	69	daytime	12	0.0
3-15-24 10:00	69	daytime	10	0.0
3-15-24 11:00	70	daytime	11	0.0
3-15-24 12:00	68	daytime	13	0.0
3-15-24 13:00	68	daytime	10	0.0
3-15-24 14:00	65	daytime	10	0.0
3-15-24 15:00	65	daytime	7	0.0
3-15-24 16:00	61	daytime	4	0.0
3-15-24 18:00	63	daytime	12	0.0
3-15-24 19:00	60	evening	9	0.0
3-15-24 20:00	59	evening	12	0.0
3-15-24 21:00	59	evening	6	0.0
3-15-24 22:00	48	evening	21	0.0
3-15-24 23:00	44	nighttime	17	0.0
3-16-24 0:00	53	nighttime	17	0.0
3-16-24 1:00	59	nighttime	12	0.0
3-16-24 2:00	61	nighttime	8	0.0
3-16-24 3:00	62	nighttime	14	0.0
3-16-24 4:00	63	nighttime	7	0.0
3-16-24 5:00	65	nighttime	7	0.0
3-16-24 6:00	65	nighttime	8	0.0
3-16-24 7:00	66	daytime	9	0.0
3-16-24 8:00	68	daytime	10	0.0
3-16-24 9:00	66	daytime	6	0.0
3-16-24 10:00	68	daytime	12	0.0
3-16-24 11:00	66	daytime	13	0.0
3-16-24 12:00	66	daytime	14	0.0
3-16-24 13:00	65	daytime	19	0.0
3-16-24 14:00	65	daytime	16	0.0
3-16-24 15:00	64	daytime	16	0.0
3-16-24 16:00	60	daytime	15	0.0
3-16-24 18:00	62	daytime	12	0.0
3-16-24 19:00	60	evening	7	0.0
3-16-24 20:00	59	evening	9	0.0
3-16-24 21:00	58	evening	7	0.4
3-16-24 22:00	57	evening	28	3.3
3-16-24 23:00	46	nighttime	15	1.4
3-17-24 0:00	56	nighttime	9	0.0
3-17-24 1:00	55	nighttime	8	0.4
3-17-24 2:00	59	nighttime	4	0.0
3-17-24 3:00	60	nighttime	13	0.0
3-17-24 4:00	63	nighttime	11	0.0
3-17-24 5:00	65	nighttime	20	0.0
3-17-24 6:00	65	nighttime	14	0.0
3-17-24 7:00	65	daytime	15	0.0
3-17-24 8:00	67	daytime	8	0.0
3-17-24 9:00	66	daytime	17	0.0
3-17-24 10:00	66	daytime	19	0.0
3-17-24 11:00	66	daytime	23	0.0
3-17-24 12:00	66	daytime	23	0.0
3-17-24 13:00	66	daytime	29	0.0
3-17-24 14:00	64	daytime	23	0.0
3-17-24 15:00	62	daytime	20	0.0
3-17-24 16:00	59	daytime	18	0.0
3-17-24 18:00	59	daytime	14	0.0
3-17-24 19:00	57	evening	23	0.0
3-17-24 20:00	48	evening	18	0.0
3-17-24 21:00	56	evening	18	0.0
3-17-24 22:00	50	evening	16	0.0
3-17-24 23:00	51	nighttime	19	0.0
3-18-24 0:00	57	nighttime	13	0.0
3-18-24 1:00	63	nighttime	12	0.0
3-18-24 2:00	67	nighttime	16	0.0
3-18-24 3:00	69	nighttime	13	0.0
3-18-24 4:00	69	nighttime	11	0.0
3-18-24 5:00	68	nighttime	14	0.0
3-18-24 6:00	60	nighttime	19	0.0

Appendix F
Sound Power Data

Sound Power Data

1/3rd Octave Band Sound Power Levels (dB)

Source ID	63	125	250	500	1000	2000	4000	8000	A	Lin
S001a	85	87	82	82	76	71	66	59	82	91
S001b	78	85	82	85	82	76	68	57	86	90
S002a	85	87	82	82	76	71	66	59	82	91
S002b	78	85	82	85	82	76	68	57	86	90
S003a	85	87	82	82	76	71	66	59	82	91
S003b	78	85	82	85	82	76	68	57	86	90
S004a	85	87	82	82	76	71	66	59	82	91
S004b	78	85	82	85	82	76	68	57	86	90
S005a	85	87	82	82	76	71	66	59	82	91
S005b	78	85	82	85	82	76	68	57	86	90
S006a	85	87	82	82	76	71	66	59	82	91
S006b	78	85	82	85	82	76	68	57	86	90
S007	102	106	107	108	110	107	102	95	114	115
S008	82	82	94	90	97	90	90	82	99	100
S009	61	61	73	69	76	69	69	61	79	80
S010	87	85	84	83	82	81	80	76	88	93
S011	61	61	73	69	76	69	69	61	79	80
S012	78	78	90	86	93	86	86	78	95	96
S013	68	68	80	76	83	76	76	68	85	86
S014	70	70	82	78	85	78	78	70	87	88
S015	70	70	82	78	85	78	78	70	87	88
S016	70	70	82	78	85	78	78	70	87	88
S017	70	70	82	78	85	78	78	70	87	88
S018	70	70	82	78	85	78	78	70	87	88
S019	70	70	82	78	85	78	78	70	87	88
S020	70	70	82	78	85	78	78	70	87	88
S021	108	103	100	101	100	97	92	84	104	114
S022	71	71	83	79	86	79	79	71	89	90
S023	71	71	83	79	86	79	79	71	89	90
S024	82	82	94	90	97	90	90	82	99	100
S025	82	82	94	90	97	90	90	82	99	100
S026	82	82	94	90	97	90	90	82	99	100
S027	82	82	94	90	97	90	90	82	99	100
S028	72	72	84	80	87	80	80	72	89	90

Source ID	63	125	250	500	1000	2000	4000	8000	A	Lin
S029	66	66	78	74	81	74	74	66	83	84
S030	66	66	78	74	81	74	74	66	83	84
S031	77	77	89	85	92	85	85	77	95	96
S032	77	77	89	85	92	85	85	77	95	96
S033	108	103	100	101	100	97	92	84	104	114
S034	70	70	82	78	85	78	78	70	87	88
S035	70	70	82	78	85	78	78	70	87	88
S036	63	63	75	71	78	71	71	63	81	82
S037	74	74	86	82	89	82	82	74	91	92
S038	70	70	82	78	85	78	78	70	87	88
S039	74	74	86	82	89	82	82	74	91	92
S040	105	108	109	110	112	109	103	97	116	117
S041	104	107	108	110	111	108	103	96	115	117
S042	93	96	97	98	100	97	91	85	104	105
S043	93	96	97	98	100	97	91	85	104	105
S044	107	110	111	113	115	112	106	100	118	120
S045	75	80	83	88	83	83	82	80	90	92
S046	84	87	88	89	91	88	83	76	95	96
S047	75	80	83	88	83	83	82	80	90	92
S048	84	87	88	89	91	88	83	76	95	96
S049	75	80	83	88	83	83	82	80	90	92
S050	106	105	95	94	81	76	70	66	95	125
S051	80	85	88	93	88	88	87	85	95	97
S052	100	98	93	89	88	91	87	75	96	105
S053	100	98	93	89	88	91	87	75	96	105
S054	100	98	93	89	88	91	87	75	96	105
S055	100	98	93	89	88	91	87	75	96	105
S056	100	98	93	89	88	91	87	75	96	105
S057	100	98	93	89	88	91	87	75	96	105
S058	100	98	93	89	88	91	87	75	96	105
S059	95	93	88	84	83	81	77	70	88	98
S060	95	93	88	84	83	81	77	70	88	98
S061	95	93	88	84	83	81	77	70	88	98
S062	95	93	88	84	83	81	77	70	88	98
S063	95	93	88	84	83	81	77	70	88	98
S064	95	93	88	84	83	81	77	70	88	98

Source ID	63	125	250	500	1000	2000	4000	8000	A	Lin
S065	95	93	88	84	83	81	77	70	88	98
S066	95	93	88	84	83	81	77	70	88	98
S067	95	93	88	84	83	81	77	70	88	98
S068	95	93	88	84	83	81	77	70	88	98
S069	95	93	88	84	83	81	77	70	88	98
S070	95	93	88	84	83	81	77	70	88	98
S071	95	93	88	84	83	81	77	70	88	98
S072	95	93	88	84	83	81	77	70	88	98
S073	84	84	96	92	99	92	92	84	101	102
S074	84	84	96	92	99	92	92	84	101	102
S075	84	84	96	92	99	92	92	84	101	102
S076a	80	82	77	77	71	66	61	54	77	86
S076b	77	84	81	84	81	75	67	56	85	89
S077a	80	82	77	77	71	66	61	54	77	86
S077b	77	84	81	84	81	75	67	56	85	89
S078	76	78	73	73	67	62	57	50	73	82
S079	76	78	73	73	67	62	57	50	73	82
S080	76	78	73	73	67	62	57	50	73	82
S081	76	78	73	73	67	62	57	50	73	82
S082	75	80	83	88	83	83	82	80	90	92
S083	88	90	85	85	79	74	69	62	85	94
S084	88	90	85	85	79	74	69	62	85	94
S085	95	103	102	98	95	90	82	71	100	107
S086	95	103	102	98	95	90	82	71	100	107
S087	95	103	102	98	95	90	82	71	100	107
S088	95	103	102	98	95	90	82	71	100	107
S089	95	103	102	98	95	90	82	71	100	107
S090	100	108	107	103	100	95	87	76	105	112
S091	75	80	83	88	83	83	82	80	90	92
S092	105	114	113	109	107	101	97	88	112	118
S093	104	113	112	108	106	100	96	87	111	117
S094	92	101	100	96	94	89	85	76	99	105
S095	92	101	100	96	94	89	85	76	99	105
S096	92	101	100	96	94	89	85	76	99	105
S097	92	101	100	96	94	89	85	76	99	105
S098	92	101	100	96	94	89	85	76	99	105

Source ID	63	125	250	500	1000	2000	4000	8000	A	Lin
S099	99	107	106	102	100	95	90	81	105	111
S100	99	107	106	102	100	95	90	81	105	111
S101	86	84	82	80	76	72	67	63	82	90
S102	86	84	82	80	76	72	67	63	82	90
S103	86	84	82	80	76	72	67	63	82	90
S104	86	84	82	80	76	72	67	63	82	90
S105	93	91	89	87	83	79	74	70	89	97
S106	93	91	89	87	83	79	74	70	89	97
S107	98	98	99	99	94	91	85	76	100	105
S108	93	91	89	87	83	79	74	70	89	97
S109	96	96	97	97	92	89	83	74	98	103
S110	93	93	94	94	89	86	80	71	95	100
S111	96	96	97	97	92	89	83	74	98	103
S112a	85	90	93	98	93	93	92	90	100	102
S112b	75	80	83	88	83	83	82	80	90	92
S113a	85	90	93	98	93	93	92	90	100	102
S113b	75	80	83	88	83	83	82	80	90	92
S114a	85	90	93	98	93	93	92	90	100	102
S114b	75	80	83	88	83	83	82	80	90	92
S115	93	93	94	94	89	86	80	71	95	100
S116	93	93	94	94	89	86	80	71	95	100
S117	93	93	94	94	89	86	80	71	95	100
S118	93	91	89	87	83	79	74	70	89	97
S119	93	91	89	87	83	79	74	70	89	97
S120	93	91	89	87	83	79	74	70	89	97
S121	93	91	89	87	83	79	74	70	89	97
S122	93	91	89	87	83	79	74	70	89	97
S123	93	91	89	87	83	79	74	70	89	97
S124	93	91	89	87	83	79	74	70	89	97
S125	93	91	89	87	83	79	74	70	89	97
S126	93	91	89	87	83	79	74	70	89	97
S127	68	73	76	80	76	76	75	73	83	85
S128	68	73	76	80	76	76	75	73	83	85
S129	68	73	76	80	76	76	75	73	83	85
S130	68	73	76	80	76	76	75	73	83	85
S131	68	73	76	80	76	76	75	73	83	85

Source ID	63	125	250	500	1000	2000	4000	8000	A	Lin
S132	68	73	76	80	76	76	75	73	83	85
S133	68	73	76	80	76	76	75	73	83	85
S134	68	73	76	80	76	76	75	73	83	85
S135	68	73	76	80	76	76	75	73	83	85
S136	93	91	89	87	83	79	74	70	89	97
S137	93	91	89	87	83	79	74	70	89	97
S138	93	91	89	87	83	79	74	70	89	97
S139	93	91	89	87	83	79	74	70	89	97
S140	93	91	89	87	83	79	74	70	89	97
S141	93	91	89	87	83	79	74	70	89	97
S142	93	91	89	87	83	79	74	70	89	97
S143	93	91	89	87	83	79	74	70	89	97
S144	93	91	89	87	83	79	74	70	89	97
S145	93	91	89	87	83	79	74	70	89	97
S146	75	80	83	88	83	83	82	80	90	92
S147	93	91	89	87	83	79	74	70	89	97
S148	93	91	89	87	83	79	74	70	89	97
S149	86	84	82	80	76	72	67	63	82	90
S150	93	91	89	87	83	79	74	70	89	97
S151	93	91	89	87	83	79	74	70	89	97
S152	86	84	82	80	76	72	67	63	82	90
S153	87	97	85	77	76	71	64	60	84	98
S154	87	97	85	77	76	71	64	60	84	98
S155	87	97	85	77	76	71	64	60	84	98
S156	93	91	89	87	83	79	74	70	89	97
S157	93	91	89	87	83	79	74	70	89	97
S158	93	91	89	87	83	79	74	70	89	97
S159	93	91	89	87	83	79	74	70	89	97
S160	93	95	98	98	94	90	84	79	99	103
S161	93	95	98	98	94	90	84	79	99	103
S162	93	95	98	98	94	90	84	79	99	103
S163	93	95	98	98	94	90	84	79	99	103
S164	93	95	98	98	94	90	84	79	99	103
S165	93	95	98	98	94	90	84	79	99	103
S166	93	95	98	98	94	90	84	79	99	103
S167	93	95	98	98	94	90	84	79	99	103

Source ID	63	125	250	500	1000	2000	4000	8000	A	Lin
S168	93	91	89	87	83	79	74	70	89	97
S169	93	91	89	87	83	79	74	70	89	97
S170	93	91	89	87	83	79	74	70	89	97
S171	93	91	89	87	83	79	74	70	89	97
S172	93	91	89	87	83	79	74	70	89	97
S173	93	91	89	87	83	79	74	70	89	97
S174	93	91	89	87	83	79	74	70	89	97
S175	93	91	89	87	83	79	74	70	89	97
S176	93	91	89	87	83	79	74	70	89	97
S177	93	91	89	87	83	79	74	70	89	97
S178	93	91	89	87	83	79	74	70	89	97
S179	93	91	89	87	83	79	74	70	89	97
S180	93	91	89	87	83	79	74	70	89	97
S181	93	91	89	87	83	79	74	70	89	97
S182	93	91	89	87	83	79	74	70	89	97
S183	93	91	89	87	83	79	74	70	89	97
S184	86	84	82	80	76	72	67	63	82	90
S185	97	101	100	97	93	90	83	76	99	106
ES01	101	105	105	104	104	103	97	90	109	112

Note: Sound power levels do not include corrections for silencing or for tonal penalties

Appendix G

Noise Prediction Methodology

Noise Prediction Methodology

The relevant noise sources were identified and a one-hour L_{EQ} was defined for each of them.

Noise levels for the work cycles were taken as continuous throughout the design hour, unless indicated otherwise.

Predictable worst-case scenarios were defined on the basis of maximum noise impact at each of the representative points of reception. Propagation paths were defined in terms of topography, distances and elevations. Noise levels were predicted using the methodology of the International Standard ISO 9613-2 Acoustics - Attenuation of Sound During Propagation Outdoors.

Standard point source distance attenuation was applied to all noise sources. Barrier attenuation was calculated using standard diffraction theory. Single barrier attenuation was limited to 20 dB while double barrier attenuation was limited to 25 dB. Attenuation from air absorption and ground effect was included in the predictions. Noise levels were predicted under conditions of downwind propagation with a mild temperature inversion. It is under these conditions that the noise impact will typically be at a maximum.

Parameters of noise impact predictions are included in protocol tables for the sensitive points of reception and are included to illustrate the methodology.

Appendix H

Sample Calculations and Point of Reception Tables

Project: Asahi Kasei Battery Separator Canada
Project Number: 24025.02

Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	829	4	654	3	628	3	766	2	763	2
S080	1.5 MVA Transformer	832	4	657	3	631	3	769	2	766	2
S079	1.5 MVA Transformer	835	4	660	3	634	3	772	2	768	2
S078	1.5 MVA Transformer	837	4	663	3	637	3	775	2	771	2
S083	10 MVA Transformer	821	18	644	15	618	15	756	13	752	13
S084	10 MVA Transformer	824	18	645	15	619	15	757	13	752	13
S089	13) Air Compressor - Louver	863	17	684	6	658	7	796	5	791	6
S087	13) Air Compressor - Louver	859	18	681	18	655	19	793	17	789	17
S086	13) Air Compressor - Louver	860	12	683	8	657	9	795	7	791	7
S088	13) Air Compressor - Louver	860	19	682	18	655	19	794	17	789	17
S085	13) Air Compressor - Louver	864	12	687	8	661	9	799	7	795	7
S107	1a1 - Raw material Receiving Blower x3	1025	9	824	9	796	9	934	8	923	8
S111	1a2 - Raw and additive feed blower	1011	11	806	11	778	12	915	10	903	10
S110	1a3 - Raw and additive feed blower	1030	9	827	8	799	9	936	7	925	7
S109	1a4 - Raw and additive feed blower	1049	11	847	11	819	11	956	10	945	10
S117	1a5 - Cleaning Blower	1015	9	809	9	781	9	918	7	906	7
S116	1a6 - Cleaning Blower	1034	8	829	8	802	9	939	7	927	7
S115	1a7 - Cleaning Blower	1053	8	850	8	822	8	959	7	948	7
S098	2) Refrigerated Water - Louver	839	17	655	12	629	12	767	10	762	10
S097	2) Refrigerated Water - Louver	846	17	662	12	636	12	774	10	769	10
S096	2) Refrigerated Water - Louver	853	17	670	12	644	12	782	10	777	9
S095	2) Refrigerated Water - Louver	859	17	676	11	650	11	788	10	783	9
S094	2) Refrigerated Water - Louver	864	16	682	11	656	11	794	10	789	9
S092	2) Refrigerated Water - Roof	860	14	669	13	643	13	781	11	775	11
S093	2) Refrigerated Water - Walls	860	2	669	3	642	3	781	2	775	2
S050	3) Gas Boiler - Boiler Package (3x Boilers)	890	22	714	23	688	24	826	22	822	21
S042	4) Waste Gas Absorption - Louver	949	0	771	0	745	0	883	0	878	0
S043	4) Waste Gas Absorption - Louver	957	0	774	0	747	0	886	0	879	0
S040	4) Waste Gas Absorption - Roof	941	8	761	9	736	9	874	8	866	8
S041	4) Waste Gas Absorption - Walls	942	6	760	6	734	6	872	6	866	7
S077a	60 MVA MVTX (NEMA-10) Core	808	10	648	9	623	8	760	8	760	8
S076a	60 MVA MVTX (NEMA-10) Core	825	4	665	4	640	4	778	3	777	3
S077b	60 MVA MVTX (NEMA-10) Fan	808	18	648	17	623	15	760	16	760	16
S076b	60 MVA MVTX (NEMA-10) Fan	825	9	665	9	640	9	778	8	777	8
S157	Air Handling Unit	924	16	714	16	687	17	824	15	812	15
S156	Air Handling Unit	929	16	721	16	693	17	830	15	818	15
S159	Air Handling Unit	930	16	715	16	687	16	823	14	810	15
S158	Air Handling Unit	936	16	722	16	694	16	830	14	817	14
S169	Air Handling Unit	953	16	734	16	706	16	841	14	826	14
S168	Air Handling Unit	959	16	740	16	712	16	848	14	833	14
S171	Air Handling Unit	969	16	745	16	717	16	851	14	835	14
S170	Air Handling Unit	975	16	752	15	723	16	857	14	842	14
S173	Air Handling Unit	986	10	757	12	728	13	861	12	844	13
S150	Air Handling Unit	987	11	772	13	744	13	880	12	866	12
S151	Air Handling Unit	990	11	774	13	746	13	882	12	868	12
S172	Air Handling Unit	992	10	763	12	735	12	868	12	851	12
S108	Air Handling Unit	1000	16	796	15	768	15	905	14	894	14
S175	Air Handling Unit	1000	16	768	16	739	16	871	14	853	14
S178	Air Handling Unit	1005	16	769	16	740	16	870	14	851	14

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Project Number: 24025.02

Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	1005	16	806	15	778	15	916	13	906	14
S174	Air Handling Unit	1006	16	775	16	746	16	878	14	860	14
S179	Air Handling Unit	1009	16	772	16	743	16	873	14	853	14
S105	Air Handling Unit	1012	16	812	15	785	15	923	13	912	14
S142	Air Handling Unit	1016	11	800	13	772	13	908	11	894	11
S143	Air Handling Unit	1019	11	803	13	775	13	910	11	896	11
S180	Air Handling Unit	1028	16	787	15	759	16	887	14	866	14
S120	Air Handling Unit	1030	11	819	12	791	13	927	11	914	11
S176	Air Handling Unit	1031	16	797	15	768	16	899	14	880	14
S181	Air Handling Unit	1033	15	791	15	763	16	891	14	869	14
S123	Air Handling Unit	1033	11	821	12	793	13	929	11	915	11
S177	Air Handling Unit	1035	16	800	15	772	16	902	14	883	14
S119	Air Handling Unit	1043	3	834	12	806	13	942	11	929	11
S122	Air Handling Unit	1047	11	836	12	808	13	944	11	931	11
S144	Air Handling Unit	1054	11	828	12	799	13	933	11	916	12
S145	Air Handling Unit	1058	11	831	13	803	13	935	12	918	13
S126	Air Handling Unit	1058	11	838	12	810	12	945	11	929	11
S118	Air Handling Unit	1060	2	852	12	824	12	960	11	948	11
S121	Air Handling Unit	1064	3	854	12	826	12	962	11	949	11
S125	Air Handling Unit	1076	11	858	12	830	12	965	11	950	11
S182	Air Handling Unit	1083	15	833	14	805	15	929	13	905	13
S183	Air Handling Unit	1088	15	838	14	809	15	933	13	908	13
S124	Air Handling Unit	1088	11	871	12	843	12	978	11	963	11
S138	Air Handling Unit	1098	10	868	12	840	12	972	11	953	11
S141	Air Handling Unit	1102	10	871	12	843	12	975	11	956	11
S137	Air Handling Unit	1116	10	887	12	859	12	991	11	973	11
S148	Air Handling Unit	1118	14	876	12	848	12	974	11	952	11
S140	Air Handling Unit	1120	10	891	12	862	12	994	11	976	11
S147	Air Handling Unit	1124	14	882	12	854	12	981	11	959	11
S136	Air Handling Unit	1127	10	900	12	872	12	1004	10	986	11
S139	Air Handling Unit	1131	10	903	12	875	12	1007	10	989	11
S044	Carbon Bed - 3x Blowers (Stack)	940	17	762	16	736	16	874	14	869	14
S034	Coaguration tank ejection pump	940	10	767	12	741	10	879	10	875	9
S062	Cooling Tower Louver	889	9	705	10	678	10	817	9	811	9
S064	Cooling Tower Louver	891	9	706	10	679	10	818	9	811	9
S066	Cooling Tower Louver	893	8	707	10	680	10	818	9	812	9
S068	Cooling Tower Louver	895	8	707	10	681	11	819	9	812	10
S061	Cooling Tower Louver	895	0	712	0	686	0	824	0	818	0
S070	Cooling Tower Louver	897	9	708	15	682	16	820	15	813	18
S063	Cooling Tower Louver	897	0	713	0	686	0	825	0	819	0
S065	Cooling Tower Louver	899	0	714	0	687	0	825	0	819	0
S072	Cooling Tower Louver	899	11	709	19	683	20	821	18	814	18
S067	Cooling Tower Louver	902	0	715	0	688	0	826	0	819	0
S069	Cooling Tower Louver	904	0	715	0	689	0	827	0	820	0
S071	Cooling Tower Louver	906	0	716	0	690	1	828	0	821	1
S053	Cooling Tower Top	892	12	709	12	682	13	820	12	815	12
S054	Cooling Tower Top	894	12	709	12	683	13	821	12	815	12
S055	Cooling Tower Top	896	12	710	12	684	13	822	12	816	12
S056	Cooling Tower Top	898	12	711	12	684	13	823	12	816	12

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Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	901	12	712	14	685	14	824	13	817	14
S058	Cooling Tower Top	903	12	713	15	686	16	824	14	817	14
S073	Cooling water pump A	881	8	697	11	670	11	809	9	803	9
S074	Cooling water pump B	883	8	698	10	671	10	810	9	803	9
S075	Cooling water pump C	885	8	699	10	672	11	810	9	804	9
S163	Dehumidifier Fan	927	10	709	9	681	10	817	8	803	8
S162	Dehumidifier Fan	940	10	724	9	695	10	831	8	818	8
S161	Dehumidifier Fan	953	10	738	9	710	9	846	8	832	8
S160	Dehumidifier Fan	966	10	752	9	724	9	860	8	847	8
S013	Distillation Column Reflex Pump	964	8	792	9	766	9	905	9	901	8
S008	Distillation Pump 2	954	22	784	23	758	24	896	22	892	22
ust Fan	Dryer	931	10	712	9	684	10	819	8	805	8
ust Fan	Dryer	944	10	726	9	698	10	834	8	820	8
ust Fan	Dryer	957	10	740	9	712	9	848	8	834	8
ust Fan	Dryer	970	10	755	9	727	9	863	8	849	8
S091	EF-046 Motor	864	17	686	17	660	17	798	15	793	15
S090	EF-046 Stack	864	18	686	17	660	18	798	16	794	16
S032	EM Feed Pump 2 A	965	3	783	3	756	3	895	2	888	3
S031	EM Feed Pump 2 B	963	3	782	3	755	3	894	2	888	3
S018	EM truck unloading pump	987	3	807	2	781	2	919	2	914	2
S030	EML Feed Pump A	962	0	782	0	755	0	894	0	888	0
S029	EML Feed Pump B	960	0	781	0	754	0	893	0	887	0
S129	Exhaust Fan	1078	7	852	8	824	8	957	7	940	7
S128	Exhaust Fan	1097	7	872	7	844	8	977	6	960	7
S127	Exhaust Fan	1115	7	892	7	863	8	997	6	981	6
S114b	Exhaust Fan Motor	1010	15	804	14	776	15	913	13	901	13
S113b	Exhaust Fan Motor	1031	14	827	14	800	15	937	13	925	13
S112b	Exhaust Fan Motor	1050	14	848	14	820	14	957	12	946	13
S051	Exhaust Fan Motor - Aux 3	890	19	714	17	688	16	826	14	822	13
S045	Exhaust Fan Motor - Aux 4	940	16	762	16	736	16	874	14	869	14
S047	Exhaust Fan Motor - Aux 4	939	8	759	7	733	8	871	6	866	6
S049	Exhaust Fan Motor - Aux 4	945	7	762	7	735	8	873	6	867	6
S114a	Exhaust Fan Opening	1010	11	804	12	777	12	913	10	902	10
S113a	Exhaust Fan Opening	1032	11	828	11	800	12	937	10	926	10
S112a	Exhaust Fan Opening	1050	11	848	11	820	12	958	10	947	10
S082	Exhaust Fan Short - Aux 12	839	17	661	18	635	18	774	16	769	16
S146	Exhaust Fan Short - Machine Room	1097	14	861	11	833	12	962	13	943	13
S153	Exhaust Fan Short - Mezzanine	1018	8	794	10	765	10	899	8	883	9
S154	Exhaust Fan Short - Mezzanine	1043	8	812	11	784	11	915	10	897	10
S155	Exhaust Fan Short - Mezzanine	1068	10	832	11	803	11	933	10	913	10
S046	Exhaust Fan Stack - Aux 4	938	8	759	9	733	9	871	7	866	7
S048	Exhaust Fan Stack - Aux 4	945	7	762	8	735	8	873	7	867	7
S100	Exhaust Fan Stack- Aux 2	851	17	664	17	637	17	775	15	769	15
S099	Exhaust Fan Stack- Aux 2	861	17	675	16	648	17	787	15	780	15
S132	Exhaust From Buffer Zone	1085	7	858	8	829	8	962	6	944	7
S135	Exhaust From Buffer Zone	1092	7	863	8	834	8	966	6	948	7
S131	Exhaust From Buffer Zone	1103	7	877	7	849	8	981	6	964	6
S134	Exhaust From Buffer Zone	1109	7	882	7	853	8	986	6	968	6
S130	Exhaust From Buffer Zone	1121	7	897	7	869	8	1002	6	985	6

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Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	1127	7	901	7	873	7	1006	6	988	6
S038	Filtrate solution pump	927	11	753	8	727	8	865	7	861	5
S011	Flash Tank Bottom Pump	962	4	791	5	765	5	903	3	900	3
S009	Flash Tank Drain Pump	961	4	791	5	766	5	904	3	900	3
S010	Flash Tank Vacuum Pump	960	10	791	11	765	11	903	13	899	11
S035	Flushing oil feed pump	934	10	760	10	734	9	873	9	869	8
S016	LP feed pump A	974	2	795	1	769	1	907	1	901	1
S017	LP feed pump B	975	2	795	1	769	1	907	1	901	1
S019	LP truck unloading pump	988	3	808	2	781	2	920	2	914	2
S012	Reboiler Circulation Pump	958	18	786	19	761	20	899	17	895	17
S039	RLP Circulation 2nd Pump	923	14	751	16	725	16	863	14	859	14
S037	RLP Circulation Pump	928	14	756	16	730	16	869	14	865	14
S014	RLP feed pump A	971	7	794	1	767	1	906	1	901	2
S015	RLP feed pump B	971	4	794	1	767	1	906	1	901	1
S149	Roof Top Unit	961	10	754	7	726	7	863	8	852	6
S152	Roof Top Unit	1008	5	786	7	758	7	892	6	876	6
S184	Roof Top Unit	1123	5	875	6	846	6	970	5	947	5
S102	Roof Top Unit	1188	2	956	1	927	1	1058	1	1039	1
S103	Roof Top Unit	1205	2	969	1	941	1	1070	1	1050	1
S101	Roof Top Unit	1220	4	985	3	957	3	1086	3	1066	3
S104	Roof Top Unit	1225	2	986	1	957	1	1085	1	1064	1
S001a	T1 - 160 MVA HVTX (NEMA) Core	833	23	706	24	684	24	817	22	822	22
S001b	T1 - 160 MVA HVTX (NEMA) Fan	833	14	706	15	684	15	817	13	822	13
S002a	T2 - 160 MVA HVTX (NEMA) Core	828	23	711	24	689	24	821	22	828	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	828	14	711	15	689	15	821	13	828	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	824	23	717	24	696	24	826	22	834	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	824	14	717	15	696	15	826	13	834	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	822	23	724	24	704	24	832	22	842	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	822	14	724	15	704	15	832	13	842	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	820	23	732	24	713	24	839	22	850	22
S005b	T5 - 160 MVA HVTX (NEMA) Fan	820	14	732	15	713	15	839	13	850	13
S006a	T6 - 160 MVA HVTX (NEMA) Core	820	23	741	24	723	24	847	23	860	22
S006b	T6 - 160 MVA HVTX (NEMA) Fan	820	14	741	15	723	15	847	14	860	13
S185	Truck Pass By	1106	26	878	25	847	26	985	24	970	25
S033	VAC Truck	976	17	790	28	763	28	901	27	894	27
S021	VAC Truck	991	17	805	28	779	28	917	27	910	27
S023	Washed EM Feed Pump A	956	11	780	1	754	1	892	1	887	3
S022	Washed EM Feed Pump B	956	11	780	1	754	1	892	1	887	4
S007	Wastewater Blower Intake	936	19	781	18	756	19	893	17	893	17
S025	WEM Feed Pump A	953	11	776	6	750	7	889	5	883	8
S024	WEM Feed Pump B	953	14	776	7	750	7	888	5	883	9
S028	WH Pump	959	2	781	1	754	1	893	1	888	1
S036	WLP Booster Pump	931	5	759	6	733	7	871	5	867	5
S020	WO truck loading pump	988	3	808	2	782	2	920	2	914	2
S027	WS Feed Pump A	954	9	777	6	751	6	889	5	884	7
S026	WS Feed Pump B	954	10	777	6	751	7	889	5	884	7
Total Level [dBA]			37		38		38		37		37

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	766	3	719	6	692	3	858	2	722	3
S080	1.5 MVA Transformer	769	3	722	3	694	3	861	2	724	2
S079	1.5 MVA Transformer	772	3	725	3	697	3	864	2	727	2
S078	1.5 MVA Transformer	775	3	727	3	700	3	866	2	730	1
S083	10 MVA Transformer	755	19	708	20	680	14	846	14	709	14
S084	10 MVA Transformer	755	19	707	20	680	14	845	14	708	14
S089	13) Air Compressor - Louver	794	12	746	14	718	12	882	11	742	14
S087	13) Air Compressor - Louver	792	20	744	21	716	18	881	17	742	18
S086	13) Air Compressor - Louver	794	8	745	5	718	2	883	1	744	1
S088	13) Air Compressor - Louver	792	20	744	21	716	19	880	17	741	19
S085	13) Air Compressor - Louver	798	3	750	2	722	2	887	1	748	1
S107	1a1 - Raw material Receiving Blower x3	919	10	868	11	839	8	986	7	834	9
S111	1a2 - Raw and additive feed blower	899	13	848	13	819	11	964	9	812	11
S110	1a3 - Raw and additive feed blower	921	10	869	10	840	8	986	7	834	7
S109	1a4 - Raw and additive feed blower	941	12	890	13	861	11	1007	9	855	9
S117	1a5 - Cleaning Blower	901	10	850	10	821	8	966	7	813	9
S116	1a6 - Cleaning Blower	923	10	871	10	842	8	987	7	834	8
S115	1a7 - Cleaning Blower	943	9	892	10	863	8	1008	6	855	8
S098	2) Refrigerated Water - Louver	764	11	715	8	687	6	850	3	710	3
S097	2) Refrigerated Water - Louver	770	11	722	8	694	6	857	3	717	2
S096	2) Refrigerated Water - Louver	778	11	730	7	702	6	865	3	725	2
S095	2) Refrigerated Water - Louver	785	11	736	7	708	6	871	2	731	2
S094	2) Refrigerated Water - Louver	791	11	742	7	714	6	877	2	736	2
S092	2) Refrigerated Water - Roof	776	15	727	16	699	12	859	10	719	12
S093	2) Refrigerated Water - Walls	776	3	731	3	699	3	860	2	719	3
S050	3) Gas Boiler - Boiler Package (3x Boilers)	825	20	777	22	749	23	913	20	774	21
S042	4) Waste Gas Absorption - Louver	879	0	831	0	803	0	964	0	821	0
S043	4) Waste Gas Absorption - Louver	880	0	831	0	803	0	962	0	817	0
S040	4) Waste Gas Absorption - Roof	869	9	820	9	791	8	950	6	807	8
S041	4) Waste Gas Absorption - Walls	868	9	819	11	791	9	950	11	807	13
S077a	60 MVA MVTX (NEMA-10) Core	766	11	720	11	694	9	865	7	735	8
S076a	60 MVA MVTX (NEMA-10) Core	783	3	738	4	711	3	882	2	751	3
S077b	60 MVA MVTX (NEMA-10) Fan	766	18	720	19	694	17	865	15	735	16
S076b	60 MVA MVTX (NEMA-10) Fan	783	9	738	9	711	8	882	7	751	8
S157	Air Handling Unit	808	18	756	18	727	16	874	14	723	16
S156	Air Handling Unit	814	18	763	18	734	16	881	14	730	16
S159	Air Handling Unit	804	17	752	18	723	16	866	14	713	16
S158	Air Handling Unit	811	17	759	18	730	16	873	14	720	16
S169	Air Handling Unit	819	17	767	18	738	16	877	14	722	16
S168	Air Handling Unit	827	17	774	18	745	16	884	14	729	16
S171	Air Handling Unit	827	17	774	18	745	16	880	14	723	16
S170	Air Handling Unit	834	17	781	18	752	15	887	14	730	16
S173	Air Handling Unit	835	16	782	18	752	16	882	14	724	16
S150	Air Handling Unit	860	13	808	13	778	13	919	11	764	13
S151	Air Handling Unit	861	13	809	13	780	13	919	11	764	13
S172	Air Handling Unit	842	15	789	15	759	14	890	14	731	16
S108	Air Handling Unit	890	17	839	17	810	15	956	13	804	13
S175	Air Handling Unit	842	17	789	18	759	16	886	14	726	16
S178	Air Handling Unit	839	17	786	18	756	16	878	14	718	16

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	903	17	852	17	823	15	972	13	821	15
S174	Air Handling Unit	849	17	796	18	767	16	893	14	734	16
S179	Air Handling Unit	841	17	788	18	758	16	879	14	719	16
S105	Air Handling Unit	910	16	859	17	830	15	979	13	828	15
S142	Air Handling Unit	888	12	836	13	806	12	945	11	790	13
S143	Air Handling Unit	889	12	837	13	808	12	946	11	790	13
S180	Air Handling Unit	853	17	800	18	770	16	886	14	725	16
S120	Air Handling Unit	908	12	856	13	827	12	968	11	814	12
S176	Air Handling Unit	869	17	816	18	786	15	909	14	749	16
S181	Air Handling Unit	856	17	803	18	773	15	888	14	726	16
S123	Air Handling Unit	909	12	857	13	828	12	968	11	813	12
S177	Air Handling Unit	871	17	818	18	788	15	910	14	750	16
S119	Air Handling Unit	924	12	872	13	842	12	984	11	829	12
S122	Air Handling Unit	925	12	873	13	844	12	984	11	829	12
S144	Air Handling Unit	906	16	853	17	824	15	953	13	794	15
S145	Air Handling Unit	908	16	856	17	826	15	954	13	795	15
S126	Air Handling Unit	921	12	869	13	839	12	973	11	816	12
S118	Air Handling Unit	942	12	891	12	861	12	1003	10	849	12
S121	Air Handling Unit	944	12	892	12	863	12	1004	10	849	12
S125	Air Handling Unit	942	12	889	12	860	12	994	10	837	12
S182	Air Handling Unit	888	16	835	17	806	15	908	13	746	16
S183	Air Handling Unit	892	16	839	17	809	15	910	13	748	15
S124	Air Handling Unit	956	12	903	12	874	12	1008	10	851	12
S138	Air Handling Unit	942	16	889	17	860	12	984	13	823	12
S141	Air Handling Unit	945	16	892	17	862	12	985	13	824	12
S137	Air Handling Unit	963	12	910	12	880	12	1005	10	845	12
S148	Air Handling Unit	938	12	885	12	855	12	965	11	802	12
S140	Air Handling Unit	965	12	912	12	882	12	1006	10	846	12
S147	Air Handling Unit	944	12	891	12	862	12	972	11	809	12
S136	Air Handling Unit	976	12	923	12	893	12	1019	10	859	12
S139	Air Handling Unit	978	12	925	12	896	12	1020	10	859	12
S044	Carbon Bed - 3x Blowers (Stack)	871	18	823	18	795	15	956	14	814	15
S034	Coaguration tank ejection pump	878	8	830	10	802	10	966	9	825	9
S062	Cooling Tower Louver	812	10	764	10	736	9	897	8	755	9
S064	Cooling Tower Louver	813	10	764	10	736	9	896	9	754	10
S066	Cooling Tower Louver	813	10	764	11	736	10	895	10	753	14
S068	Cooling Tower Louver	813	14	764	17	736	17	895	18	751	19
S061	Cooling Tower Louver	820	0	771	0	743	0	904	0	762	0
S070	Cooling Tower Louver	813	21	764	21	736	20	894	18	750	21
S063	Cooling Tower Louver	820	0	771	0	743	0	903	0	761	0
S065	Cooling Tower Louver	820	0	771	0	743	0	903	0	759	0
S072	Cooling Tower Louver	814	21	764	21	736	20	894	18	749	21
S067	Cooling Tower Louver	820	0	771	0	743	0	902	0	758	0
S069	Cooling Tower Louver	820	0	771	0	743	0	901	0	757	1
S071	Cooling Tower Louver	821	1	771	1	743	1	901	0	756	1
S053	Cooling Tower Top	816	12	767	12	739	12	900	11	758	12
S054	Cooling Tower Top	816	12	767	12	739	12	900	11	757	12
S055	Cooling Tower Top	816	12	767	12	739	12	899	11	756	13
S056	Cooling Tower Top	817	12	767	12	739	12	899	13	755	15

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	817	15	768	15	739	15	898	13	754	17
S058	Cooling Tower Top	817	15	768	15	739	15	897	13	753	16
S073	Cooling water pump A	804	10	756	9	728	9	889	8	747	9
S074	Cooling water pump B	805	10	756	9	728	9	888	8	746	11
S075	Cooling water pump C	805	10	756	11	728	10	888	11	745	14
S163	Dehumidifier Fan	797	11	745	12	715	9	857	8	703	10
S162	Dehumidifier Fan	812	11	760	12	730	9	872	8	718	9
S161	Dehumidifier Fan	826	11	774	12	745	9	887	8	733	9
S160	Dehumidifier Fan	841	11	790	12	760	9	903	7	749	9
S013	Distillation Column Reflex Pump	903	9	855	11	828	11	991	7	850	8
S008	Distillation Pump 2	896	22	848	23	820	19	984	20	844	21
ust Fan	Dryer	799	11	746	12	717	9	858	8	703	10
ust Fan	Dryer	813	11	761	12	732	9	873	8	718	9
ust Fan	Dryer	828	11	776	12	747	9	888	8	733	9
ust Fan	Dryer	843	11	791	11	762	9	903	7	749	9
S091	EF-046 Motor	796	17	748	18	721	16	885	14	746	16
S090	EF-046 Stack	796	18	748	19	721	17	885	14	746	16
S032	EM Feed Pump 2 A	889	3	840	4	812	3	971	4	826	5
S031	EM Feed Pump 2 B	889	3	840	3	812	3	971	2	827	4
S018	EM truck unloading pump	915	2	866	2	838	2	997	2	853	3
S030	EML Feed Pump A	889	0	840	0	812	0	972	0	828	0
S029	EML Feed Pump B	889	0	840	0	812	0	972	0	829	0
S129	Exhaust Fan	930	9	877	9	847	8	975	6	816	8
S128	Exhaust Fan	951	9	898	9	868	7	997	6	838	8
S127	Exhaust Fan	972	8	919	9	889	7	1019	6	860	8
S114b	Exhaust Fan Motor	897	16	846	16	817	14	962	12	809	9
S113b	Exhaust Fan Motor	921	16	870	16	841	14	987	12	834	8
S112b	Exhaust Fan Motor	942	15	891	16	862	13	1008	9	855	1
S051	Exhaust Fan Motor - Aux 3	825	14	777	14	749	13	913	12	773	14
S045	Exhaust Fan Motor - Aux 4	871	16	823	17	795	15	956	13	814	15
S047	Exhaust Fan Motor - Aux 4	867	8	818	9	791	7	951	5	809	7
S049	Exhaust Fan Motor - Aux 4	868	8	819	9	791	7	950	5	806	7
S114a	Exhaust Fan Opening	898	12	846	13	817	11	963	9	810	7
S113a	Exhaust Fan Opening	922	12	870	13	841	11	987	9	834	5
S112a	Exhaust Fan Opening	943	12	891	12	862	10	1008	6	856	1
S082	Exhaust Fan Short - Aux 12	772	18	725	19	697	17	862	14	724	17
S146	Exhaust Fan Short - Machine Room	930	16	877	16	847	14	965	13	804	15
S153	Exhaust Fan Short - Mezzanine	874	9	821	10	791	10	923	9	766	12
S154	Exhaust Fan Short - Mezzanine	887	12	834	13	804	11	930	10	770	12
S155	Exhaust Fan Short - Mezzanine	901	12	848	12	818	11	937	9	776	11
S046	Exhaust Fan Stack - Aux 4	867	9	819	9	791	8	952	6	809	8
S048	Exhaust Fan Stack - Aux 4	868	8	819	8	791	8	950	6	806	7
S100	Exhaust Fan Stack- Aux 2	770	18	721	18	693	16	855	14	713	16
S099	Exhaust Fan Stack- Aux 2	782	17	733	18	705	16	866	14	724	16
S132	Exhaust From Buffer Zone	934	9	881	9	851	8	978	6	818	8
S135	Exhaust From Buffer Zone	938	9	885	9	855	8	980	6	820	8
S131	Exhaust From Buffer Zone	954	9	902	9	872	7	999	6	839	8
S134	Exhaust From Buffer Zone	958	9	905	9	875	7	1001	6	841	8
S130	Exhaust From Buffer Zone	975	8	923	9	893	7	1021	6	861	8

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	978	8	925	9	896	7	1022	6	862	8
S038	Filtrate solution pump	864	6	816	9	788	9	952	9	811	8
S011	Flash Tank Bottom Pump	903	3	855	4	827	4	991	3	850	3
S009	Flash Tank Drain Pump	903	4	855	4	828	3	992	3	851	3
S010	Flash Tank Vacuum Pump	902	10	854	12	827	11	991	10	850	10
S035	Flushing oil feed pump	871	7	823	10	796	9	959	9	819	9
S016	LP feed pump A	903	2	854	1	826	1	986	1	842	2
S017	LP feed pump B	903	1	854	1	826	1	985	1	841	2
S019	LP truck unloading pump	915	2	866	2	838	2	997	2	853	4
S012	Reboiler Circulation Pump	898	17	850	19	822	19	985	16	844	17
S039	RLP Circulation 2nd Pump	862	13	814	9	787	8	951	9	811	7
S037	RLP Circulation Pump	868	14	820	10	792	9	956	10	816	8
S014	RLP feed pump A	902	2	854	2	826	1	987	1	844	1
S015	RLP feed pump B	902	2	853	1	825	1	986	1	843	1
S149	Roof Top Unit	848	11	796	11	767	7	914	8	762	7
S152	Roof Top Unit	868	6	816	7	786	7	920	5	763	7
S184	Roof Top Unit	930	10	877	6	848	6	950	5	787	7
S102	Roof Top Unit	1026	2	973	2	943	1	1061	1	900	1
S103	Roof Top Unit	1037	2	983	2	954	1	1068	1	906	1
S101	Roof Top Unit	1053	4	1000	4	970	3	1084	3	922	3
S104	Roof Top Unit	1050	1	997	2	967	1	1076	1	914	1
S001a	T1 - 160 MVA HVTX (NEMA) Core	833	23	791	24	767	24	945	22	824	25
S001b	T1 - 160 MVA HVTX (NEMA) Fan	833	14	791	15	767	15	945	13	824	16
S002a	T2 - 160 MVA HVTX (NEMA) Core	840	23	800	24	776	23	955	21	838	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	840	14	800	14	776	14	955	12	838	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	848	23	808	23	785	23	966	21	852	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	848	13	808	14	785	14	966	12	852	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	857	23	818	23	796	23	978	20	868	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	857	13	818	14	796	14	978	12	868	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	866	22	829	23	807	23	990	20	883	22
S005b	T5 - 160 MVA HVTX (NEMA) Fan	866	13	829	14	807	13	990	11	883	13
S006a	T6 - 160 MVA HVTX (NEMA) Core	877	22	841	23	820	22	1004	20	900	21
S006b	T6 - 160 MVA HVTX (NEMA) Fan	877	13	841	14	820	13	1004	11	900	12
S185	Truck Pass By	957	27	905	28	871	26	1002	24	847	26
S033	VAC Truck	894	28	844	29	816	28	973	26	827	28
S021	VAC Truck	910	28	860	29	832	28	989	26	843	28
S023	Washed EM Feed Pump A	889	4	841	2	813	2	975	1	832	1
S022	Washed EM Feed Pump B	889	5	841	3	813	2	975	1	832	1
S007	Wastewater Blower Intake	899	20	852	20	826	18	995	16	861	17
S025	WEM Feed Pump A	885	9	837	7	809	6	970	5	828	6
S024	WEM Feed Pump B	885	10	837	8	809	7	971	5	828	6
S028	WH Pump	889	2	841	1	813	1	974	1	831	1
S036	WLP Booster Pump	870	3	822	3	794	2	958	3	818	3
S020	WO truck loading pump	915	2	866	3	838	2	997	2	853	4
S027	WS Feed Pump A	886	8	837	6	809	6	970	4	828	6
S026	WS Feed Pump B	886	8	837	7	809	6	971	4	828	6
Total Level [dBA]			39		39		38		36		38

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	708	3	854	2	1087	0	1061	0	1029	0
S080	1.5 MVA Transformer	710	2	856	2	1089	0	1063	0	1030	0
S079	1.5 MVA Transformer	713	2	859	1	1091	0	1065	0	1031	0
S078	1.5 MVA Transformer	716	1	862	1	1093	0	1067	0	1032	0
S083	10 MVA Transformer	695	14	841	18	1074	13	1049	8	1020	8
S084	10 MVA Transformer	693	14	839	18	1070	13	1044	8	1014	8
S089	13) Air Compressor - Louver	728	15	872	15	1093	14	1067	14	1017	15
S087	13) Air Compressor - Louver	728	19	872	19	1095	11	1068	11	1021	6
S086	13) Air Compressor - Louver	730	1	874	2	1098	0	1071	0	1024	0
S088	13) Air Compressor - Louver	727	19	871	18	1093	10	1067	10	1018	5
S085	13) Air Compressor - Louver	734	1	878	1	1101	0	1075	0	1025	0
S107	1a1 - Raw material Receiving Blower x3	819	9	946	7	1104	2	1075	2	932	2
S111	1a2 - Raw and additive feed blower	797	11	923	9	1079	3	1051	3	913	3
S110	1a3 - Raw and additive feed blower	819	7	945	5	1098	1	1069	1	923	1
S109	1a4 - Raw and additive feed blower	839	9	965	6	1116	2	1087	2	933	2
S117	1a5 - Cleaning Blower	797	9	923	10	1076	8	1048	6	907	8
S116	1a6 - Cleaning Blower	819	8	944	9	1095	8	1066	6	917	7
S115	1a7 - Cleaning Blower	840	8	965	9	1113	8	1084	6	927	7
S098	2) Refrigerated Water - Louver	696	3	839	2	1063	0	1037	0	997	0
S097	2) Refrigerated Water - Louver	703	2	846	1	1068	0	1042	0	999	0
S096	2) Refrigerated Water - Louver	710	2	853	1	1074	0	1048	0	1001	0
S095	2) Refrigerated Water - Louver	716	2	859	1	1079	0	1052	0	1003	0
S094	2) Refrigerated Water - Louver	722	2	865	2	1083	0	1057	0	1005	0
S092	2) Refrigerated Water - Roof	704	12	846	14	1065	13	1038	9	985	10
S093	2) Refrigerated Water - Walls	704	3	849	3	1062	2	1036	1	987	2
S050	3) Gas Boiler - Boiler Package (3x Boilers)	759	21	902	17	1120	15	1093	16	1032	16
S042	4) Waste Gas Absorption - Louver	806	0	946	0	1147	0	1120	0	1028	0
S043	4) Waste Gas Absorption - Louver	803	0	941	0	1136	0	1108	0	1010	0
S040	4) Waste Gas Absorption - Roof	793	8	934	9	1132	9	1104	6	1018	6
S041	4) Waste Gas Absorption - Walls	793	13	933	15	1133	12	1106	10	1016	10
S077a	60 MVA MVTX (NEMA-10) Core	721	9	871	9	1119	5	1094	3	1077	2
S076a	60 MVA MVTX (NEMA-10) Core	738	3	887	3	1132	2	1107	2	1082	2
S077b	60 MVA MVTX (NEMA-10) Fan	721	17	871	17	1119	12	1094	9	1077	7
S076b	60 MVA MVTX (NEMA-10) Fan	738	8	887	8	1132	7	1107	6	1082	6
S157	Air Handling Unit	708	16	838	17	1014	9	986	9	893	11
S156	Air Handling Unit	715	16	844	17	1019	9	991	9	895	11
S159	Air Handling Unit	698	16	824	17	991	15	963	13	865	12
S158	Air Handling Unit	705	16	831	17	997	15	969	13	867	12
S169	Air Handling Unit	707	16	830	17	985	16	956	13	843	15
S168	Air Handling Unit	714	16	837	17	991	16	962	13	846	15
S171	Air Handling Unit	708	16	827	17	970	16	941	13	816	15
S170	Air Handling Unit	715	16	834	17	976	16	947	13	819	15
S173	Air Handling Unit	709	16	823	18	954	16	925	14	788	13
S150	Air Handling Unit	749	13	872	12	1022	11	993	10	862	12
S151	Air Handling Unit	749	13	871	12	1018	11	990	10	856	14
S172	Air Handling Unit	716	16	831	17	960	16	931	14	791	13
S108	Air Handling Unit	789	13	917	12	1077	3	1049	3	917	1
S175	Air Handling Unit	711	16	822	18	942	16	913	14	765	13
S178	Air Handling Unit	703	16	810	18	921	16	892	14	740	16

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	806	15	935	13	1100	10	1072	10	940	2
S174	Air Handling Unit	718	16	829	18	949	16	919	14	769	13
S179	Air Handling Unit	703	16	810	18	918	16	889	14	734	16
S105	Air Handling Unit	813	15	942	13	1106	10	1078	10	943	2
S142	Air Handling Unit	774	13	896	12	1037	11	1008	10	861	12
S143	Air Handling Unit	775	13	895	12	1034	15	1005	13	855	12
S180	Air Handling Unit	709	16	811	18	906	17	876	14	707	13
S120	Air Handling Unit	798	13	921	12	1065	11	1036	10	884	12
S176	Air Handling Unit	733	16	841	17	947	16	918	14	751	13
S181	Air Handling Unit	711	16	811	18	903	17	873	14	701	13
S123	Air Handling Unit	798	13	920	12	1061	11	1032	10	878	12
S177	Air Handling Unit	734	16	841	17	944	16	915	14	745	13
S119	Air Handling Unit	814	12	937	12	1078	11	1049	10	891	12
S122	Air Handling Unit	814	12	936	12	1074	11	1045	10	885	12
S144	Air Handling Unit	778	15	890	17	1004	16	975	13	799	13
S145	Air Handling Unit	779	15	890	17	1001	16	972	13	793	13
S126	Air Handling Unit	800	13	916	16	1039	15	1010	10	836	12
S118	Air Handling Unit	833	12	956	12	1095	10	1066	10	901	11
S121	Air Handling Unit	833	12	955	12	1092	10	1062	10	895	12
S125	Air Handling Unit	821	12	937	12	1058	11	1028	10	847	12
S182	Air Handling Unit	730	16	818	17	875	16	845	14	635	17
S183	Air Handling Unit	733	16	819	17	872	16	842	14	629	17
S124	Air Handling Unit	836	12	951	12	1070	11	1041	10	854	12
S138	Air Handling Unit	808	12	914	16	1008	11	979	11	775	13
S141	Air Handling Unit	809	12	914	16	1006	11	976	11	769	13
S137	Air Handling Unit	829	12	936	12	1028	11	999	10	787	13
S148	Air Handling Unit	787	13	880	12	942	12	912	11	685	14
S140	Air Handling Unit	830	12	936	12	1025	11	996	11	781	13
S147	Air Handling Unit	794	13	888	12	949	12	919	11	689	14
S136	Air Handling Unit	843	12	950	12	1041	11	1011	10	795	13
S139	Air Handling Unit	844	12	950	12	1038	11	1008	10	789	13
S044	Carbon Bed - 3x Blowers (Stack)	800	15	940	17	1144	16	1117	12	1030	12
S034	Coaguration tank ejection pump	811	9	952	9	1161	1	1134	1	1050	0
S062	Cooling Tower Louver	740	9	881	9	1092	9	1066	8	1001	2
S064	Cooling Tower Louver	739	10	880	11	1089	17	1062	15	996	2
S066	Cooling Tower Louver	738	14	878	18	1086	17	1059	15	991	2
S068	Cooling Tower Louver	737	19	877	20	1082	17	1055	15	986	2
S061	Cooling Tower Louver	747	0	888	0	1098	0	1071	0	1003	0
S070	Cooling Tower Louver	736	22	875	21	1079	17	1052	15	981	2
S063	Cooling Tower Louver	746	0	886	0	1094	0	1067	0	998	0
S065	Cooling Tower Louver	745	0	885	0	1091	0	1064	0	993	0
S072	Cooling Tower Louver	735	21	873	22	1076	17	1049	15	976	2
S067	Cooling Tower Louver	744	0	883	0	1088	0	1061	0	988	0
S069	Cooling Tower Louver	743	1	882	0	1085	0	1057	0	983	0
S071	Cooling Tower Louver	742	1	880	1	1081	0	1054	0	978	0
S053	Cooling Tower Top	744	12	885	12	1095	12	1068	12	1002	12
S054	Cooling Tower Top	743	12	883	12	1092	12	1065	12	997	12
S055	Cooling Tower Top	742	13	882	14	1088	12	1061	12	992	12
S056	Cooling Tower Top	740	15	880	14	1085	12	1058	12	987	12

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	739	17	878	14	1082	12	1055	12	982	12
S058	Cooling Tower Top	738	16	877	16	1078	12	1051	12	977	12
S073	Cooling water pump A	733	10	874	10	1086	7	1059	6	998	23
S074	Cooling water pump B	731	11	872	11	1083	8	1056	7	994	23
S075	Cooling water pump C	730	15	871	16	1080	22	1053	22	988	22
S163	Dehumidifier Fan	688	10	814	11	979	10	951	7	853	8
S162	Dehumidifier Fan	703	10	828	11	991	9	963	7	858	8
S161	Dehumidifier Fan	718	9	843	11	1004	9	975	7	864	8
S160	Dehumidifier Fan	734	9	858	11	1016	9	988	7	870	8
S013	Distillation Column Reflex Pump	835	9	977	5	1181	4	1153	3	1059	6
S008	Distillation Pump 2	830	21	972	21	1180	8	1153	7	1064	9
ust Fan	Dryer	688	10	812	11	974	10	946	7	846	8
ust Fan	Dryer	703	10	827	11	987	10	958	7	851	8
ust Fan	Dryer	718	9	842	11	999	9	971	7	857	8
ust Fan	Dryer	733	9	857	11	1012	9	984	7	862	8
S091	EF-046 Motor	732	16	875	16	1097	14	1071	12	1021	13
S090	EF-046 Stack	732	16	876	17	1098	15	1071	13	1022	14
S032	EM Feed Pump 2 A	812	6	949	6	1142	2	1115	2	1013	8
S031	EM Feed Pump 2 B	813	4	951	4	1146	1	1119	1	1020	13
S018	EM truck unloading pump	838	3	976	5	1167	8	1140	8	1030	4
S030	EML Feed Pump A	814	0	952	0	1149	0	1121	0	1023	4
S029	EML Feed Pump B	815	0	954	0	1152	0	1124	0	1028	0
S129	Exhaust Fan	801	8	911	9	1018	8	988	6	799	8
S128	Exhaust Fan	823	8	933	9	1038	8	1008	6	810	8
S127	Exhaust Fan	844	8	955	9	1057	8	1028	6	822	8
S114b	Exhaust Fan Motor	794	9	921	7	1077	0	1048	0	911	1
S113b	Exhaust Fan Motor	819	8	945	4	1098	0	1069	0	922	0
S112b	Exhaust Fan Motor	840	1	966	1	1116	0	1087	0	932	0
S051	Exhaust Fan Motor - Aux 3	759	14	902	12	1120	10	1093	9	1031	10
S045	Exhaust Fan Motor - Aux 4	800	15	940	16	1143	14	1116	11	1029	10
S047	Exhaust Fan Motor - Aux 4	794	7	934	8	1136	6	1109	4	1022	3
S049	Exhaust Fan Motor - Aux 4	791	7	929	8	1126	6	1099	4	1007	3
S114a	Exhaust Fan Opening	795	7	921	4	1077	0	1048	0	911	0
S113a	Exhaust Fan Opening	819	5	945	2	1098	0	1069	0	922	0
S112a	Exhaust Fan Opening	840	1	966	1	1116	0	1088	0	932	0
S082	Exhaust Fan Short - Aux 12	710	17	855	17	1083	15	1057	12	1020	8
S146	Exhaust Fan Short - Machine Room	789	15	890	16	973	11	943	10	734	13
S153	Exhaust Fan Short - Mezzanine	750	12	865	12	992	11	963	9	809	10
S154	Exhaust Fan Short - Mezzanine	755	12	864	12	973	11	944	10	771	10
S155	Exhaust Fan Short - Mezzanine	761	12	864	12	956	11	926	10	735	10
S046	Exhaust Fan Stack - Aux 4	795	8	935	8	1137	6	1110	5	1023	4
S048	Exhaust Fan Stack - Aux 4	791	8	930	7	1127	5	1100	5	1008	3
S100	Exhaust Fan Stack- Aux 2	699	16	841	17	1059	15	1032	12	986	14
S099	Exhaust Fan Stack- Aux 2	710	16	852	17	1067	15	1041	12	989	14
S132	Exhaust From Buffer Zone	803	8	911	9	1013	8	984	6	789	8
S135	Exhaust From Buffer Zone	804	8	912	9	1009	8	979	6	780	8
S131	Exhaust From Buffer Zone	824	8	933	9	1033	8	1003	6	800	8
S134	Exhaust From Buffer Zone	825	8	933	9	1028	8	999	6	791	8
S130	Exhaust From Buffer Zone	846	8	955	9	1053	8	1023	6	813	8

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	847	8	954	9	1049	8	1019	6	804	8
S038	Filtrate solution pump	797	8	939	8	1149	8	1122	7	1044	0
S011	Flash Tank Bottom Pump	835	3	977	3	1182	0	1155	0	1063	0
S009	Flash Tank Drain Pump	837	3	979	3	1185	0	1158	0	1066	0
S010	Flash Tank Vacuum Pump	836	10	978	9	1184	6	1157	5	1065	7
S035	Flushing oil feed pump	804	9	946	9	1156	1	1128	1	1047	0
S016	LP feed pump A	827	2	966	2	1160	2	1133	1	1029	4
S017	LP feed pump B	827	2	965	2	1159	2	1131	8	1027	4
S019	LP truck unloading pump	838	4	976	6	1167	8	1139	7	1029	4
S012	Reboiler Circulation Pump	830	17	971	9	1177	3	1149	3	1058	6
S039	RLP Circulation 2nd Pump	797	7	939	11	1152	11	1125	10	1049	11
S037	RLP Circulation Pump	802	8	944	11	1156	11	1129	10	1051	1
S014	RLP feed pump A	829	1	968	1	1166	1	1138	1	1038	5
S015	RLP feed pump B	828	1	967	1	1164	1	1136	1	1035	5
S149	Roof Top Unit	747	7	875	5	1042	1	1014	1	901	1
S152	Roof Top Unit	748	7	865	6	999	9	970	7	823	7
S184	Roof Top Unit	772	7	859	10	905	10	875	8	639	10
S102	Roof Top Unit	884	1	983	1	1048	1	1017	1	762	3
S103	Roof Top Unit	890	1	985	1	1039	1	1009	1	742	3
S101	Roof Top Unit	907	3	1001	3	1052	4	1022	3	748	8
S104	Roof Top Unit	899	1	989	1	1029	2	999	2	716	10
S001a	T1 - 160 MVA HVTX (NEMA) Core	811	25	966	26	1230	24	1205	21	1192	19
S001b	T1 - 160 MVA HVTX (NEMA) Fan	811	17	966	17	1230	15	1205	13	1192	11
S002a	T2 - 160 MVA HVTX (NEMA) Core	826	22	981	22	1252	24	1228	21	1221	19
S002b	T2 - 160 MVA HVTX (NEMA) Fan	826	13	981	12	1252	14	1228	12	1221	10
S003a	T3 - 160 MVA HVTX (NEMA) Core	840	22	996	21	1273	19	1249	18	1249	19
S003b	T3 - 160 MVA HVTX (NEMA) Fan	840	13	996	12	1273	10	1249	9	1249	10
S004a	T4 - 160 MVA HVTX (NEMA) Core	856	22	1013	21	1296	19	1273	18	1278	19
S004b	T4 - 160 MVA HVTX (NEMA) Fan	856	13	1013	12	1296	9	1273	9	1278	10
S005a	T5 - 160 MVA HVTX (NEMA) Core	872	22	1030	21	1319	18	1295	18	1306	18
S005b	T5 - 160 MVA HVTX (NEMA) Fan	872	13	1030	12	1319	9	1295	9	1306	9
S006a	T6 - 160 MVA HVTX (NEMA) Core	889	22	1047	21	1342	18	1319	17	1335	18
S006b	T6 - 160 MVA HVTX (NEMA) Fan	889	13	1047	11	1342	9	1319	8	1335	9
S185	Truck Pass By	828	26	942	27	1048	28	1016	24	860	29
S033	VAC Truck	812	28	948	27	1134	25	1107	24	998	17
S021	VAC Truck	828	28	963	27	1148	25	1120	24	1004	16
S023	Washed EM Feed Pump A	818	1	958	1	1159	0	1132	0	1039	1
S022	Washed EM Feed Pump B	818	1	958	1	1160	0	1132	0	1039	1
S007	Wastewater Blower Intake	847	17	993	19	1218	12	1191	12	1120	13
S025	WEM Feed Pump A	814	6	954	5	1155	3	1128	3	1035	4
S024	WEM Feed Pump B	814	6	954	5	1156	3	1128	3	1036	4
S028	WH Pump	816	1	956	1	1155	0	1128	0	1032	1
S036	WLP Booster Pump	804	3	946	3	1157	3	1130	3	1051	0
S020	WO truck loading pump	838	5	976	8	1166	8	1138	7	1028	4
S027	WS Feed Pump A	813	6	953	5	1154	3	1126	3	1033	4
S026	WS Feed Pump B	814	6	953	5	1154	3	1127	3	1034	4
Total Level [dBA]			38		38		37		35		36

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	1015	0	1647	0	1637	0	1644	0	1627	0
S080	1.5 MVA Transformer	1016	0	1648	0	1638	0	1644	0	1628	0
S079	1.5 MVA Transformer	1017	0	1649	0	1639	0	1645	0	1628	0
S078	1.5 MVA Transformer	1018	0	1650	0	1640	0	1646	0	1629	0
S083	10 MVA Transformer	1007	8	1639	9	1629	4	1635	9	1619	4
S084	10 MVA Transformer	1000	8	1632	9	1622	4	1629	9	1612	4
S089	13) Air Compressor - Louver	1003	15	1635	14	1625	13	1630	15	1613	13
S087	13) Air Compressor - Louver	1007	6	1639	4	1629	4	1634	4	1617	3
S086	13) Air Compressor - Louver	1010	0	1642	0	1632	0	1637	0	1620	0
S088	13) Air Compressor - Louver	1004	5	1636	4	1626	3	1631	4	1615	3
S085	13) Air Compressor - Louver	1011	0	1643	0	1633	0	1638	0	1621	0
S107	1a1 - Raw material Receiving Blower x3	916	2	1542	1	1532	1	1531	1	1513	1
S111	1a2 - Raw and additive feed blower	896	3	1524	1	1514	1	1513	1	1496	1
S110	1a3 - Raw and additive feed blower	906	1	1532	1	1522	1	1521	1	1503	1
S109	1a4 - Raw and additive feed blower	916	2	1541	1	1531	1	1528	1	1510	1
S117	1a5 - Cleaning Blower	891	8	1518	5	1508	3	1507	6	1490	3
S116	1a6 - Cleaning Blower	900	8	1526	5	1516	3	1514	6	1497	3
S115	1a7 - Cleaning Blower	910	7	1535	5	1525	3	1522	5	1504	3
S098	2) Refrigerated Water - Louver	983	0	1615	0	1605	0	1612	0	1595	0
S097	2) Refrigerated Water - Louver	985	0	1617	0	1607	0	1613	0	1596	0
S096	2) Refrigerated Water - Louver	987	0	1619	0	1609	0	1615	0	1598	0
S095	2) Refrigerated Water - Louver	989	0	1621	0	1611	0	1616	0	1600	0
S094	2) Refrigerated Water - Louver	991	0	1623	0	1613	0	1618	0	1601	0
S092	2) Refrigerated Water - Roof	972	10	1604	9	1594	6	1600	10	1583	6
S093	2) Refrigerated Water - Walls	974	2	1606	1	1596	1	1602	1	1585	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1017	16	1649	12	1639	12	1643	12	1626	13
S042	4) Waste Gas Absorption - Louver	1013	0	1643	0	1633	0	1634	0	1617	0
S043	4) Waste Gas Absorption - Louver	995	0	1625	0	1615	0	1616	0	1599	0
S040	4) Waste Gas Absorption - Roof	1001	6	1627	3	1617	3	1622	4	1605	3
S041	4) Waste Gas Absorption - Walls	1001	10	1628	7	1618	7	1621	8	1604	7
S077a	60 MVA MVTX (NEMA-10) Core	1064	2	1696	3	1686	1	1693	3	1676	1
S076a	60 MVA MVTX (NEMA-10) Core	1069	2	1701	1	1691	1	1697	1	1680	1
S077b	60 MVA MVTX (NEMA-10) Fan	1064	7	1696	8	1686	5	1693	8	1676	5
S076b	60 MVA MVTX (NEMA-10) Fan	1069	7	1701	4	1691	3	1697	4	1680	3
S157	Air Handling Unit	878	11	1510	5	1500	5	1503	6	1486	5
S156	Air Handling Unit	880	11	1512	5	1502	5	1505	6	1488	5
S159	Air Handling Unit	850	12	1481	11	1471	9	1475	12	1458	9
S158	Air Handling Unit	852	12	1484	11	1474	9	1477	12	1460	9
S169	Air Handling Unit	827	12	1458	12	1448	9	1451	12	1434	9
S168	Air Handling Unit	830	12	1461	12	1451	9	1453	12	1436	9
S171	Air Handling Unit	800	15	1431	12	1421	9	1423	12	1406	9
S170	Air Handling Unit	803	15	1434	12	1424	9	1425	12	1408	9
S173	Air Handling Unit	772	13	1403	12	1393	9	1394	13	1377	9
S150	Air Handling Unit	846	12	1476	7	1466	7	1466	8	1449	7
S151	Air Handling Unit	840	15	1469	7	1459	7	1460	8	1442	7
S172	Air Handling Unit	775	13	1405	12	1395	9	1396	8	1379	7
S108	Air Handling Unit	900	1	1529	0	1519	0	1518	0	1501	0
S175	Air Handling Unit	749	13	1379	12	1369	9	1370	8	1353	7
S178	Air Handling Unit	724	16	1354	12	1344	9	1345	13	1328	10

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	924	2	1552	1	1542	1	1541	1	1524	1
S174	Air Handling Unit	753	13	1382	8	1372	7	1373	8	1356	7
S179	Air Handling Unit	718	16	1348	12	1338	9	1339	8	1322	8
S105	Air Handling Unit	927	2	1555	1	1545	1	1544	1	1526	1
S142	Air Handling Unit	845	12	1473	7	1463	7	1462	8	1445	7
S143	Air Handling Unit	839	12	1467	7	1457	7	1456	8	1438	7
S180	Air Handling Unit	691	13	1320	8	1310	8	1311	9	1294	8
S120	Air Handling Unit	867	12	1494	7	1484	7	1482	8	1465	7
S176	Air Handling Unit	734	13	1363	8	1353	7	1352	8	1335	8
S181	Air Handling Unit	685	13	1314	8	1304	8	1304	9	1287	8
S123	Air Handling Unit	861	12	1487	7	1477	7	1476	8	1458	7
S177	Air Handling Unit	728	13	1356	8	1346	7	1346	8	1328	8
S119	Air Handling Unit	874	12	1500	7	1490	7	1488	8	1470	7
S122	Air Handling Unit	868	12	1493	7	1483	7	1481	8	1463	7
S144	Air Handling Unit	782	13	1408	8	1398	7	1396	8	1378	7
S145	Air Handling Unit	776	13	1401	8	1391	7	1389	8	1372	7
S126	Air Handling Unit	819	12	1444	7	1434	7	1431	8	1414	7
S118	Air Handling Unit	884	12	1508	7	1498	7	1495	7	1477	7
S121	Air Handling Unit	877	12	1501	7	1491	7	1488	8	1470	7
S125	Air Handling Unit	829	12	1452	7	1442	7	1439	8	1421	7
S182	Air Handling Unit	618	17	1245	13	1235	10	1234	13	1216	10
S183	Air Handling Unit	612	17	1238	13	1228	10	1227	13	1210	10
S124	Air Handling Unit	836	12	1458	7	1448	7	1444	8	1426	7
S138	Air Handling Unit	757	13	1379	8	1369	7	1365	8	1347	7
S141	Air Handling Unit	751	13	1372	8	1362	7	1358	12	1341	7
S137	Air Handling Unit	769	13	1388	8	1378	7	1373	12	1356	7
S148	Air Handling Unit	667	14	1288	12	1278	9	1274	13	1256	10
S140	Air Handling Unit	763	13	1382	8	1371	7	1367	12	1349	7
S147	Air Handling Unit	671	14	1291	12	1281	9	1277	13	1259	10
S136	Air Handling Unit	776	13	1394	8	1384	7	1379	12	1361	7
S139	Air Handling Unit	770	13	1388	8	1378	7	1372	12	1354	7
S044	Carbon Bed - 3x Blowers (Stack)	1015	12	1645	8	1635	8	1637	9	1620	8
S034	Coaguration tank ejection pump	1035	0	1666	0	1656	0	1657	0	1640	0
S062	Cooling Tower Louver	987	2	1619	1	1609	1	1613	1	1596	1
S064	Cooling Tower Louver	982	2	1614	1	1604	1	1607	1	1591	1
S066	Cooling Tower Louver	977	2	1608	1	1598	1	1602	1	1585	1
S068	Cooling Tower Louver	971	2	1603	1	1593	1	1597	1	1580	1
S061	Cooling Tower Louver	989	0	1621	0	1611	0	1614	0	1597	0
S070	Cooling Tower Louver	966	2	1598	1	1588	1	1592	1	1575	1
S063	Cooling Tower Louver	984	0	1615	0	1605	0	1609	0	1592	0
S065	Cooling Tower Louver	979	0	1610	0	1600	0	1604	0	1587	0
S072	Cooling Tower Louver	961	2	1593	1	1583	1	1587	1	1570	1
S067	Cooling Tower Louver	974	0	1605	0	1595	0	1599	0	1582	0
S069	Cooling Tower Louver	969	0	1600	0	1590	0	1594	0	1577	0
S071	Cooling Tower Louver	964	0	1595	0	1585	0	1589	0	1572	0
S053	Cooling Tower Top	988	12	1619	8	1609	8	1613	9	1596	8
S054	Cooling Tower Top	982	12	1614	8	1604	8	1608	9	1591	8
S055	Cooling Tower Top	978	12	1609	8	1599	8	1603	9	1586	8
S056	Cooling Tower Top	972	12	1604	8	1594	8	1598	9	1581	8

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	967	12	1599	8	1589	8	1593	9	1576	8
S058	Cooling Tower Top	962	12	1594	8	1584	8	1588	9	1571	8
S073	Cooling water pump A	984	22	1616	17	1606	16	1610	17	1594	16
S074	Cooling water pump B	979	22	1611	17	1601	16	1606	17	1589	16
S075	Cooling water pump C	974	21	1606	17	1596	16	1600	17	1583	16
S163	Dehumidifier Fan	838	8	1470	6	1460	4	1463	7	1446	4
S162	Dehumidifier Fan	843	8	1474	6	1464	4	1467	7	1450	4
S161	Dehumidifier Fan	849	8	1479	6	1469	4	1471	7	1454	4
S160	Dehumidifier Fan	854	8	1484	6	1474	4	1476	7	1459	4
S013	Distillation Column Reflex Pump	1044	6	1674	3	1664	3	1665	3	1647	3
S008	Distillation Pump 2	1049	9	1679	10	1669	9	1670	11	1653	9
ust Fan	Dryer	831	8	1462	6	1452	4	1456	7	1439	4
ust Fan	Dryer	836	8	1467	6	1457	4	1460	7	1443	4
ust Fan	Dryer	841	8	1472	6	1462	4	1464	7	1447	4
ust Fan	Dryer	847	8	1477	6	1467	4	1468	7	1451	4
S091	EF-046 Motor	1007	13	1639	10	1629	7	1634	10	1617	7
S090	EF-046 Stack	1008	14	1640	12	1630	10	1635	14	1618	10
S032	EM Feed Pump 2 A	998	8	1628	8	1618	7	1618	8	1601	7
S031	EM Feed Pump 2 B	1004	9	1634	9	1624	8	1625	9	1608	7
S018	EM truck unloading pump	1014	3	1643	3	1633	3	1633	2	1616	1
S030	EML Feed Pump A	1007	2	1637	2	1627	2	1628	2	1611	1
S029	EML Feed Pump B	1012	0	1642	2	1632	2	1633	2	1616	1
S129	Exhaust Fan	782	8	1405	5	1395	3	1392	5	1374	3
S128	Exhaust Fan	793	8	1414	5	1404	3	1400	5	1382	3
S127	Exhaust Fan	804	8	1423	5	1413	3	1408	5	1390	3
S114b	Exhaust Fan Motor	894	1	1522	0	1512	0	1511	0	1494	0
S113b	Exhaust Fan Motor	905	0	1531	0	1521	0	1520	0	1502	0
S112b	Exhaust Fan Motor	915	0	1540	0	1530	0	1527	0	1509	0
S051	Exhaust Fan Motor - Aux 3	1017	10	1649	6	1639	5	1642	6	1625	5
S045	Exhaust Fan Motor - Aux 4	1014	10	1645	6	1635	5	1637	6	1619	5
S047	Exhaust Fan Motor - Aux 4	1007	3	1638	1	1628	1	1630	1	1612	1
S049	Exhaust Fan Motor - Aux 4	991	3	1622	1	1612	1	1614	1	1596	1
S114a	Exhaust Fan Opening	894	0	1522	0	1512	0	1511	0	1494	0
S113a	Exhaust Fan Opening	905	0	1532	0	1522	0	1520	0	1502	0
S112a	Exhaust Fan Opening	915	0	1540	0	1530	0	1527	0	1510	0
S082	Exhaust Fan Short - Aux 12	1006	8	1638	6	1628	5	1634	6	1617	5
S146	Exhaust Fan Short - Machine Room	717	13	1339	7	1329	7	1326	7	1308	7
S153	Exhaust Fan Short - Mezzanine	792	10	1420	5	1410	5	1410	5	1393	5
S154	Exhaust Fan Short - Mezzanine	754	10	1381	5	1371	5	1370	6	1353	5
S155	Exhaust Fan Short - Mezzanine	718	10	1344	6	1334	5	1332	6	1314	5
S046	Exhaust Fan Stack - Aux 4	1008	4	1639	1	1629	1	1630	3	1613	1
S048	Exhaust Fan Stack - Aux 4	992	3	1623	1	1613	1	1614	1	1597	1
S100	Exhaust Fan Stack- Aux 2	972	14	1604	12	1594	9	1600	13	1583	9
S099	Exhaust Fan Stack- Aux 2	975	14	1607	12	1598	9	1603	13	1586	9
S132	Exhaust From Buffer Zone	772	8	1394	5	1384	3	1381	5	1363	3
S135	Exhaust From Buffer Zone	762	9	1384	5	1374	3	1371	5	1353	3
S131	Exhaust From Buffer Zone	783	8	1403	5	1393	3	1389	5	1371	3
S134	Exhaust From Buffer Zone	773	8	1393	5	1383	3	1379	5	1361	3
S130	Exhaust From Buffer Zone	794	8	1413	5	1403	3	1397	5	1380	3

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	786	8	1403	5	1393	3	1388	5	1370	3
S038	Filtrate solution pump	1029	0	1660	0	1650	0	1652	0	1635	0
S011	Flash Tank Bottom Pump	1047	2	1677	1	1667	1	1668	1	1651	1
S009	Flash Tank Drain Pump	1050	1	1680	1	1670	1	1671	1	1654	1
S010	Flash Tank Vacuum Pump	1050	7	1680	4	1670	4	1671	5	1653	4
S035	Flushing oil feed pump	1032	0	1663	0	1653	0	1655	0	1638	0
S016	LP feed pump A	1013	4	1643	4	1633	3	1633	4	1616	3
S017	LP feed pump B	1011	4	1641	4	1631	3	1631	4	1614	3
S019	LP truck unloading pump	1013	3	1642	3	1632	3	1632	1	1614	1
S012	Reboiler Circulation Pump	1042	6	1673	7	1663	6	1664	11	1646	10
S039	RLP Circulation 2nd Pump	1034	1	1665	1	1655	0	1657	1	1640	0
S037	RLP Circulation Pump	1036	1	1667	1	1657	0	1659	1	1642	0
S014	RLP feed pump A	1022	5	1652	4	1642	3	1642	4	1625	3
S015	RLP feed pump B	1019	5	1649	4	1639	3	1640	4	1622	3
S149	Roof Top Unit	885	1	1516	0	1506	0	1507	0	1490	0
S152	Roof Top Unit	807	7	1435	3	1425	2	1425	3	1408	3
S184	Roof Top Unit	622	11	1243	6	1233	4	1230	7	1213	4
S102	Roof Top Unit	743	3	1353	3	1342	2	1334	3	1316	3
S103	Roof Top Unit	722	3	1329	3	1319	3	1310	4	1292	3
S101	Roof Top Unit	728	8	1332	7	1322	5	1312	7	1294	5
S104	Roof Top Unit	696	10	1299	7	1289	5	1280	8	1262	5
S001a	T1 - 160 MVA HVTX (NEMA) Core	1179	20	1810	16	1801	15	1807	16	1790	15
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1179	11	1810	7	1801	6	1807	7	1790	6
S002a	T2 - 160 MVA HVTX (NEMA) Core	1208	19	1839	20	1829	17	1836	16	1819	14
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1208	10	1839	11	1829	8	1836	7	1819	6
S003a	T3 - 160 MVA HVTX (NEMA) Core	1235	19	1867	20	1857	16	1864	16	1847	14
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1235	10	1867	11	1857	8	1864	7	1847	6
S004a	T4 - 160 MVA HVTX (NEMA) Core	1265	19	1896	20	1886	16	1893	20	1877	16
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1265	10	1896	11	1886	8	1893	11	1877	8
S005a	T5 - 160 MVA HVTX (NEMA) Core	1293	18	1925	20	1915	16	1922	20	1905	16
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1293	10	1925	10	1915	8	1922	11	1905	8
S006a	T6 - 160 MVA HVTX (NEMA) Core	1322	18	1954	19	1944	16	1951	20	1934	16
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1322	9	1954	10	1944	8	1951	11	1934	8
S185	Truck Pass By	840	30	1467	26	1457	22	1460	26	1442	23
S033	VAC Truck	982	17	1611	16	1601	15	1602	16	1584	15
S021	VAC Truck	988	16	1617	15	1607	13	1607	13	1589	12
S023	Washed EM Feed Pump A	1023	1	1653	1	1643	1	1644	1	1627	1
S022	Washed EM Feed Pump B	1024	1	1654	1	1644	1	1645	1	1628	1
S007	Wastewater Blower Intake	1104	13	1736	9	1726	8	1727	10	1710	8
S025	WEM Feed Pump A	1020	4	1650	3	1640	2	1641	3	1624	3
S024	WEM Feed Pump B	1021	4	1651	3	1641	2	1643	3	1625	3
S028	WH Pump	1017	1	1647	1	1637	1	1638	5	1621	4
S036	WLP Booster Pump	1035	0	1667	0	1656	0	1659	0	1641	0
S020	WO truck loading pump	1012	3	1641	3	1631	3	1630	1	1613	1
S027	WS Feed Pump A	1018	4	1648	3	1638	2	1639	3	1622	3
S026	WS Feed Pump B	1019	4	1649	3	1639	2	1640	3	1623	3
Total Level [dBA]			36		33		31		33		31

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	1656	0	1726	0	1713	0	1667	0	1639	0
S080	1.5 MVA Transformer	1656	0	1727	0	1713	0	1667	0	1639	0
S079	1.5 MVA Transformer	1657	0	1727	0	1713	0	1667	0	1638	0
S078	1.5 MVA Transformer	1658	0	1728	0	1713	0	1667	0	1638	0
S083	10 MVA Transformer	1648	9	1719	8	1706	8	1662	2	1633	2
S084	10 MVA Transformer	1641	9	1712	8	1699	8	1655	1	1626	1
S089	13) Air Compressor - Louver	1641	14	1710	13	1693	13	1645	12	1617	12
S087	13) Air Compressor - Louver	1645	3	1714	3	1698	2	1650	0	1621	0
S086	13) Air Compressor - Louver	1648	0	1717	0	1700	0	1653	0	1624	0
S088	13) Air Compressor - Louver	1642	3	1712	2	1695	2	1648	1	1619	1
S085	13) Air Compressor - Louver	1649	0	1718	0	1701	0	1653	0	1624	0
S107	1a1 - Raw material Receiving Blower x3	1535	1	1597	1	1567	1	1508	1	1480	1
S111	1a2 - Raw and additive feed blower	1518	1	1581	1	1553	1	1496	1	1468	1
S110	1a3 - Raw and additive feed blower	1525	1	1587	1	1556	1	1498	1	1469	1
S109	1a4 - Raw and additive feed blower	1531	1	1592	1	1559	1	1499	1	1470	1
S117	1a5 - Cleaning Blower	1512	5	1575	5	1547	5	1490	4	1461	4
S116	1a6 - Cleaning Blower	1518	5	1580	5	1549	5	1491	4	1462	4
S115	1a7 - Cleaning Blower	1525	5	1586	5	1553	5	1492	4	1464	4
S098	2) Refrigerated Water - Louver	1623	0	1694	0	1680	0	1635	0	1606	0
S097	2) Refrigerated Water - Louver	1625	0	1695	0	1680	0	1635	0	1606	0
S096	2) Refrigerated Water - Louver	1626	0	1696	0	1681	0	1634	0	1605	0
S095	2) Refrigerated Water - Louver	1627	0	1697	0	1681	0	1634	0	1605	0
S094	2) Refrigerated Water - Louver	1629	0	1698	0	1682	0	1634	0	1605	0
S092	2) Refrigerated Water - Roof	1611	8	1682	8	1668	7	1624	5	1595	5
S093	2) Refrigerated Water - Walls	1613	1	1683	1	1667	1	1621	1	1592	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1652	12	1720	12	1701	12	1650	12	1621	13
S042	4) Waste Gas Absorption - Louver	1642	0	1707	0	1681	0	1626	0	1597	0
S043	4) Waste Gas Absorption - Louver	1623	0	1688	0	1662	0	1607	0	1578	0
S040	4) Waste Gas Absorption - Roof	1631	3	1697	3	1672	3	1618	3	1589	3
S041	4) Waste Gas Absorption - Walls	1632	7	1693	7	1672	7	1618	6	1589	6
S077a	60 MVA MVTX (NEMA-10) Core	1705	3	1777	2	1764	1	1719	1	1690	1
S076a	60 MVA MVTX (NEMA-10) Core	1709	1	1780	1	1765	1	1719	1	1690	1
S077b	60 MVA MVTX (NEMA-10) Fan	1705	8	1777	7	1764	4	1719	3	1690	3
S076b	60 MVA MVTX (NEMA-10) Fan	1709	4	1780	4	1765	4	1719	3	1690	3
S157	Air Handling Unit	1512	5	1580	5	1561	5	1513	4	1484	4
S156	Air Handling Unit	1514	5	1581	5	1562	5	1513	4	1484	4
S159	Air Handling Unit	1484	11	1552	11	1534	7	1486	7	1458	7
S158	Air Handling Unit	1486	11	1553	11	1534	7	1486	7	1457	7
S169	Air Handling Unit	1459	12	1527	11	1507	7	1459	7	1430	7
S168	Air Handling Unit	1461	11	1528	7	1508	7	1459	7	1430	7
S171	Air Handling Unit	1431	12	1498	7	1478	7	1429	7	1401	7
S170	Air Handling Unit	1433	8	1500	7	1479	7	1430	7	1401	7
S173	Air Handling Unit	1402	8	1469	7	1448	8	1400	7	1371	7
S150	Air Handling Unit	1473	7	1538	7	1514	7	1461	7	1433	7
S151	Air Handling Unit	1466	7	1531	7	1507	7	1455	7	1426	7
S172	Air Handling Unit	1404	8	1470	7	1449	8	1400	7	1371	7
S108	Air Handling Unit	1524	0	1588	0	1560	0	1504	0	1476	0
S175	Air Handling Unit	1378	8	1444	8	1423	8	1375	7	1346	7
S178	Air Handling Unit	1353	8	1419	8	1400	8	1352	7	1323	8

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	1547	1	1610	1	1581	1	1524	1	1495	1
S174	Air Handling Unit	1380	8	1446	8	1424	8	1375	7	1346	7
S179	Air Handling Unit	1347	8	1414	8	1394	8	1346	7	1317	8
S105	Air Handling Unit	1549	1	1611	1	1582	1	1524	1	1495	1
S142	Air Handling Unit	1468	7	1531	7	1504	7	1449	7	1420	7
S143	Air Handling Unit	1461	7	1524	7	1497	7	1442	7	1413	7
S180	Air Handling Unit	1318	8	1384	8	1364	8	1316	8	1287	8
S120	Air Handling Unit	1487	7	1550	7	1520	7	1463	7	1434	7
S176	Air Handling Unit	1359	8	1424	8	1400	8	1349	7	1320	8
S181	Air Handling Unit	1311	8	1377	8	1357	8	1309	7	1280	8
S123	Air Handling Unit	1480	7	1543	7	1513	7	1456	7	1427	7
S177	Air Handling Unit	1352	8	1417	8	1393	8	1342	7	1313	8
S119	Air Handling Unit	1492	7	1553	7	1522	7	1463	7	1435	7
S122	Air Handling Unit	1485	7	1546	7	1515	7	1456	7	1427	7
S144	Air Handling Unit	1400	8	1463	7	1434	8	1378	7	1349	8
S145	Air Handling Unit	1394	8	1456	7	1427	8	1371	7	1343	8
S126	Air Handling Unit	1435	8	1497	7	1466	8	1408	7	1379	7
S118	Air Handling Unit	1498	7	1559	7	1525	7	1465	7	1436	7
S121	Air Handling Unit	1491	7	1552	7	1518	8	1458	7	1429	7
S125	Air Handling Unit	1442	7	1502	7	1469	8	1409	7	1381	7
S182	Air Handling Unit	1240	13	1304	12	1282	13	1234	10	1205	10
S183	Air Handling Unit	1233	13	1298	12	1275	13	1227	10	1198	10
S124	Air Handling Unit	1446	8	1506	7	1471	8	1410	7	1382	7
S138	Air Handling Unit	1368	8	1428	8	1395	8	1337	8	1308	8
S141	Air Handling Unit	1361	8	1421	12	1388	12	1330	8	1301	8
S137	Air Handling Unit	1375	8	1434	8	1399	12	1339	8	1310	8
S148	Air Handling Unit	1277	12	1338	12	1308	12	1253	11	1224	11
S140	Air Handling Unit	1368	8	1427	12	1392	12	1331	8	1302	8
S147	Air Handling Unit	1279	12	1340	12	1309	12	1253	11	1225	11
S136	Air Handling Unit	1380	8	1438	12	1402	12	1340	8	1311	8
S139	Air Handling Unit	1373	8	1431	12	1394	13	1332	8	1304	8
S044	Carbon Bed - 3x Blowers (Stack)	1645	8	1710	8	1686	8	1631	8	1603	8
S034	Coaguration tank ejection pump	1665	0	1730	0	1705	0	1650	0	1622	0
S062	Cooling Tower Louver	1622	1	1691	1	1672	1	1623	0	1594	0
S064	Cooling Tower Louver	1617	1	1685	1	1667	1	1617	0	1588	0
S066	Cooling Tower Louver	1612	1	1680	1	1661	1	1612	0	1583	0
S068	Cooling Tower Louver	1607	1	1675	1	1656	1	1607	0	1578	0
S061	Cooling Tower Louver	1624	0	1692	0	1672	0	1622	1	1593	1
S070	Cooling Tower Louver	1601	1	1669	1	1650	1	1600	0	1572	0
S063	Cooling Tower Louver	1619	0	1686	0	1667	0	1617	1	1588	1
S065	Cooling Tower Louver	1613	0	1681	0	1662	0	1612	1	1583	1
S072	Cooling Tower Louver	1596	1	1664	1	1645	1	1596	1	1567	1
S067	Cooling Tower Louver	1608	0	1676	0	1656	0	1606	1	1577	1
S069	Cooling Tower Louver	1603	0	1671	0	1651	0	1601	1	1572	1
S071	Cooling Tower Louver	1598	0	1666	0	1646	0	1596	1	1567	1
S053	Cooling Tower Top	1623	8	1691	8	1672	8	1622	8	1593	8
S054	Cooling Tower Top	1618	8	1686	8	1667	8	1617	8	1588	8
S055	Cooling Tower Top	1613	8	1681	8	1661	8	1612	8	1583	8
S056	Cooling Tower Top	1607	8	1675	8	1656	8	1606	8	1577	8

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	1602	8	1670	8	1650	8	1601	8	1572	8
S058	Cooling Tower Top	1597	8	1665	8	1645	8	1596	8	1567	8
S073	Cooling water pump A	1621	17	1689	16	1671	16	1623	16	1594	16
S074	Cooling water pump B	1616	17	1684	16	1666	16	1617	16	1588	16
S075	Cooling water pump C	1610	17	1679	16	1661	16	1612	16	1583	16
S163	Dehumidifier Fan	1473	6	1541	6	1524	6	1478	4	1449	4
S162	Dehumidifier Fan	1476	6	1544	6	1525	6	1477	4	1448	4
S161	Dehumidifier Fan	1480	6	1547	6	1526	6	1477	4	1448	4
S160	Dehumidifier Fan	1483	6	1550	6	1527	6	1477	4	1448	4
S013	Distillation Column Reflex Pump	1671	3	1735	3	1708	2	1651	2	1622	2
S008	Distillation Pump 2	1677	11	1742	14	1715	10	1659	9	1630	9
ust Fan	Dryer	1465	6	1534	6	1517	6	1469	4	1440	4
ust Fan	Dryer	1469	6	1536	6	1517	6	1469	4	1440	4
ust Fan	Dryer	1472	6	1539	6	1518	6	1469	4	1440	4
ust Fan	Dryer	1476	6	1542	6	1520	6	1470	4	1441	4
S091	EF-046 Motor	1645	6	1714	6	1697	6	1649	5	1620	5
S090	EF-046 Stack	1645	12	1714	8	1698	8	1650	8	1621	8
S032	EM Feed Pump 2 A	1625	7	1689	7	1663	3	1607	3	1578	3
S031	EM Feed Pump 2 B	1631	8	1696	8	1670	4	1614	3	1585	3
S018	EM truck unloading pump	1639	1	1702	1	1673	1	1615	1	1586	1
S030	EML Feed Pump A	1635	2	1699	1	1673	0	1617	0	1588	0
S029	EML Feed Pump B	1640	2	1705	2	1678	1	1622	0	1594	0
S129	Exhaust Fan	1395	5	1456	5	1425	5	1367	4	1338	4
S128	Exhaust Fan	1402	5	1462	5	1428	5	1368	4	1339	4
S127	Exhaust Fan	1409	5	1468	5	1432	5	1370	4	1341	4
S114b	Exhaust Fan Motor	1517	0	1580	0	1552	0	1495	0	1466	0
S113b	Exhaust Fan Motor	1524	0	1586	0	1555	0	1496	0	1468	0
S112b	Exhaust Fan Motor	1530	0	1591	0	1558	0	1498	0	1469	0
S051	Exhaust Fan Motor - Aux 3	1652	6	1720	6	1700	6	1650	5	1621	5
S045	Exhaust Fan Motor - Aux 4	1644	6	1710	6	1685	6	1631	5	1602	5
S047	Exhaust Fan Motor - Aux 4	1637	1	1703	1	1679	1	1625	1	1596	1
S049	Exhaust Fan Motor - Aux 4	1621	1	1687	1	1662	1	1608	1	1579	1
S114a	Exhaust Fan Opening	1517	0	1580	0	1552	0	1495	0	1466	0
S113a	Exhaust Fan Opening	1524	0	1586	0	1555	0	1496	0	1468	0
S112a	Exhaust Fan Opening	1531	0	1591	0	1558	0	1498	0	1469	0
S082	Exhaust Fan Short - Aux 12	1646	6	1716	6	1702	5	1656	4	1627	4
S146	Exhaust Fan Short - Machine Room	1329	7	1390	7	1360	7	1304	7	1275	7
S153	Exhaust Fan Short - Mezzanine	1416	5	1480	5	1455	5	1402	5	1374	5
S154	Exhaust Fan Short - Mezzanine	1376	5	1439	5	1413	5	1360	5	1331	6
S155	Exhaust Fan Short - Mezzanine	1337	6	1400	5	1373	5	1319	6	1290	6
S046	Exhaust Fan Stack - Aux 4	1638	1	1704	1	1680	1	1626	1	1597	1
S048	Exhaust Fan Stack - Aux 4	1622	1	1687	1	1663	1	1609	1	1580	1
S100	Exhaust Fan Stack- Aux 2	1611	12	1682	11	1667	11	1621	8	1593	8
S099	Exhaust Fan Stack- Aux 2	1614	12	1683	11	1668	8	1621	8	1592	8
S132	Exhaust From Buffer Zone	1384	5	1445	5	1413	5	1355	4	1327	4
S135	Exhaust From Buffer Zone	1374	5	1434	5	1402	5	1344	4	1316	4
S131	Exhaust From Buffer Zone	1391	5	1451	5	1416	5	1356	4	1328	4
S134	Exhaust From Buffer Zone	1381	5	1440	5	1406	5	1346	4	1317	4
S130	Exhaust From Buffer Zone	1399	5	1457	5	1420	5	1358	4	1329	4

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	1389	5	1447	5	1410	5	1348	4	1319	4
S038	Filtrate solution pump	1661	0	1727	0	1703	0	1649	0	1621	0
S011	Flash Tank Bottom Pump	1675	1	1739	1	1712	0	1655	0	1626	0
S009	Flash Tank Drain Pump	1678	1	1742	1	1715	0	1658	0	1629	0
S010	Flash Tank Vacuum Pump	1677	4	1742	4	1715	3	1658	3	1629	3
S035	Flushing oil feed pump	1663	0	1729	0	1704	0	1650	0	1621	0
S016	LP feed pump A	1639	3	1703	1	1676	1	1618	1	1590	1
S017	LP feed pump B	1637	3	1701	1	1673	1	1616	1	1587	1
S019	LP truck unloading pump	1637	1	1701	1	1672	1	1613	1	1585	1
S012	Reboiler Circulation Pump	1670	10	1735	10	1708	6	1652	5	1623	5
S039	RLP Circulation 2nd Pump	1665	1	1732	0	1709	0	1655	0	1626	0
S037	RLP Circulation Pump	1667	1	1733	0	1709	0	1655	0	1626	0
S014	RLP feed pump A	1648	4	1712	4	1685	1	1628	1	1599	1
S015	RLP feed pump B	1646	4	1710	4	1682	1	1625	1	1596	1
S149	Roof Top Unit	1515	0	1581	0	1558	0	1506	0	1477	0
S152	Roof Top Unit	1431	3	1496	3	1471	3	1419	3	1390	3
S184	Roof Top Unit	1234	7	1296	6	1269	6	1216	5	1187	5
S102	Roof Top Unit	1333	3	1388	3	1346	7	1280	5	1251	5
S103	Roof Top Unit	1308	4	1362	7	1320	7	1253	5	1225	5
S101	Roof Top Unit	1309	7	1363	7	1318	7	1250	5	1221	5
S104	Roof Top Unit	1277	7	1331	7	1287	7	1220	5	1191	6
S001a	T1 - 160 MVA HVTX (NEMA) Core	1818	16	1888	15	1871	16	1822	14	1793	15
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1818	7	1888	7	1871	7	1822	6	1793	6
S002a	T2 - 160 MVA HVTX (NEMA) Core	1847	16	1918	15	1901	15	1852	14	1823	14
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1847	7	1918	6	1901	7	1852	6	1823	6
S003a	T3 - 160 MVA HVTX (NEMA) Core	1876	15	1946	15	1930	15	1881	14	1852	14
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1876	7	1946	6	1930	6	1881	5	1852	6
S004a	T4 - 160 MVA HVTX (NEMA) Core	1906	15	1976	15	1960	15	1911	14	1883	14
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1906	6	1976	6	1960	6	1911	5	1883	5
S005a	T5 - 160 MVA HVTX (NEMA) Core	1934	15	2005	15	1990	15	1941	14	1912	14
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1934	6	2005	6	1990	6	1941	5	1912	5
S006a	T6 - 160 MVA HVTX (NEMA) Core	1964	19	2035	14	2019	15	1971	13	1942	14
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1964	10	2035	6	2019	6	1971	5	1942	5
S185	Truck Pass By	1465	26	1530	26	1497	26	1445	23	1416	23
S033	VAC Truck	1608	16	1672	16	1644	12	1588	11	1559	11
S021	VAC Truck	1612	12	1676	12	1647	12	1589	11	1560	11
S023	Washed EM Feed Pump A	1651	5	1716	4	1690	5	1634	1	1605	1
S022	Washed EM Feed Pump B	1652	1	1717	5	1691	5	1635	2	1606	2
S007	Wastewater Blower Intake	1735	9	1800	9	1775	9	1719	8	1690	8
S025	WEM Feed Pump A	1648	3	1713	5	1687	13	1632	7	1603	7
S024	WEM Feed Pump B	1650	4	1714	5	1689	13	1633	7	1604	8
S028	WH Pump	1645	5	1709	4	1683	2	1627	1	1598	1
S036	WLP Booster Pump	1666	0	1732	0	1708	0	1654	0	1625	0
S020	WO truck loading pump	1636	1	1699	1	1670	1	1612	1	1583	1
S027	WS Feed Pump A	1646	4	1711	5	1685	13	1629	7	1601	7
S026	WS Feed Pump B	1647	4	1712	5	1686	13	1630	7	1602	7
Total Level [dBA]			32		32		32		30		30

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	1756	0	1739	0	1738	0	1723	0	1370	0
S080	1.5 MVA Transformer	1756	0	1739	0	1738	0	1722	0	1368	0
S079	1.5 MVA Transformer	1756	0	1739	0	1737	0	1722	0	1367	0
S078	1.5 MVA Transformer	1756	0	1739	0	1737	0	1721	0	1365	0
S083	10 MVA Transformer	1751	1	1734	1	1735	3	1719	1	1372	1
S084	10 MVA Transformer	1744	0	1727	0	1728	2	1712	0	1367	0
S089	13) Air Compressor - Louver	1733	8	1716	7	1712	16	1697	13	1336	16
S087	13) Air Compressor - Louver	1738	0	1721	0	1717	0	1702	0	1341	0
S086	13) Air Compressor - Louver	1740	0	1723	0	1719	0	1704	0	1342	0
S088	13) Air Compressor - Louver	1735	0	1718	0	1715	0	1699	0	1339	0
S085	13) Air Compressor - Louver	1740	0	1723	0	1718	0	1703	0	1339	0
S107	1a1 - Raw material Receiving Blower x3	1590	0	1573	0	1556	1	1540	1	1156	1
S111	1a2 - Raw and additive feed blower	1580	1	1562	1	1548	1	1533	1	1162	2
S110	1a3 - Raw and additive feed blower	1580	0	1562	0	1545	1	1530	1	1148	1
S109	1a4 - Raw and additive feed blower	1580	1	1562	1	1543	1	1527	1	1135	2
S117	1a5 - Cleaning Blower	1573	2	1556	2	1542	5	1526	3	1157	7
S116	1a6 - Cleaning Blower	1572	2	1555	2	1538	5	1523	3	1143	7
S115	1a7 - Cleaning Blower	1573	2	1556	2	1536	5	1520	3	1130	7
S098	2) Refrigerated Water - Louver	1724	0	1707	0	1707	0	1692	0	1347	0
S097	2) Refrigerated Water - Louver	1723	0	1706	0	1705	0	1690	0	1342	0
S096	2) Refrigerated Water - Louver	1723	0	1706	0	1704	0	1688	0	1337	0
S095	2) Refrigerated Water - Louver	1722	0	1705	0	1702	0	1687	0	1333	0
S094	2) Refrigerated Water - Louver	1722	0	1705	0	1701	0	1686	0	1329	0
S092	2) Refrigerated Water - Roof	1706	5	1689	5	1688	6	1673	5	1329	6
S093	2) Refrigerated Water - Walls	1708	0	1690	0	1690	1	1675	0	1329	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1736	12	1719	12	1711	12	1696	12	1321	14
S042	4) Waste Gas Absorption - Louver	1710	1	1692	1	1678	3	1663	3	1268	32
S043	4) Waste Gas Absorption - Louver	1691	0	1673	0	1659	3	1644	3	1253	27
S040	4) Waste Gas Absorption - Roof	1703	1	1685	1	1671	2	1655	2	1268	6
S041	4) Waste Gas Absorption - Walls	1702	5	1684	5	1673	8	1657	8	1267	13
S077a	60 MVA MVTX (NEMA-10) Core	1808	0	1790	0	1789	1	1774	0	1412	0
S076a	60 MVA MVTX (NEMA-10) Core	1807	0	1789	0	1786	1	1771	0	1402	2
S077b	60 MVA MVTX (NEMA-10) Fan	1808	2	1790	1	1789	4	1774	2	1412	1
S076b	60 MVA MVTX (NEMA-10) Fan	1807	2	1789	1	1786	4	1771	1	1402	6
S157	Air Handling Unit	1601	2	1584	2	1582	5	1566	2	1235	7
S156	Air Handling Unit	1600	2	1583	2	1580	5	1565	2	1230	7
S159	Air Handling Unit	1575	6	1557	6	1557	7	1542	7	1221	9
S158	Air Handling Unit	1574	6	1557	6	1556	7	1540	7	1216	9
S169	Air Handling Unit	1546	6	1529	7	1528	7	1513	7	1195	10
S168	Air Handling Unit	1546	6	1529	7	1527	7	1511	7	1189	10
S171	Air Handling Unit	1517	7	1500	7	1500	8	1484	7	1174	10
S170	Air Handling Unit	1517	7	1500	7	1498	8	1483	7	1169	10
S173	Air Handling Unit	1487	7	1470	7	1470	8	1455	7	1153	10
S150	Air Handling Unit	1547	6	1530	7	1523	7	1507	7	1168	10
S151	Air Handling Unit	1540	7	1523	7	1516	8	1501	7	1163	10
S172	Air Handling Unit	1487	7	1470	7	1469	8	1454	7	1148	10
S108	Air Handling Unit	1588	0	1571	0	1558	0	1542	0	1173	0
S175	Air Handling Unit	1463	7	1445	7	1446	8	1431	7	1137	10
S178	Air Handling Unit	1440	7	1423	7	1426	8	1411	7	1130	10

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	1606	0	1589	0	1574	1	1558	1	1178	2
S174	Air Handling Unit	1462	7	1445	7	1445	8	1429	7	1131	10
S179	Air Handling Unit	1435	7	1418	7	1421	8	1406	7	1126	10
S105	Air Handling Unit	1606	0	1589	0	1573	1	1557	1	1173	2
S142	Air Handling Unit	1533	7	1516	7	1505	8	1490	7	1141	10
S143	Air Handling Unit	1526	7	1509	7	1499	8	1483	7	1135	10
S180	Air Handling Unit	1405	6	1388	6	1391	8	1376	6	1106	11
S120	Air Handling Unit	1546	6	1528	7	1515	8	1499	7	1134	14
S176	Air Handling Unit	1436	7	1419	7	1417	8	1402	7	1105	10
S181	Air Handling Unit	1398	5	1381	5	1384	8	1369	5	1101	11
S123	Air Handling Unit	1539	7	1521	7	1508	8	1492	7	1129	14
S177	Air Handling Unit	1429	7	1412	7	1411	8	1395	7	1101	10
S119	Air Handling Unit	1546	6	1528	7	1512	8	1497	7	1124	14
S122	Air Handling Unit	1538	7	1521	7	1505	8	1489	7	1118	14
S144	Air Handling Unit	1462	7	1445	7	1436	12	1420	7	1090	10
S145	Air Handling Unit	1456	7	1438	7	1429	12	1414	7	1085	10
S126	Air Handling Unit	1491	7	1474	7	1460	8	1445	7	1094	15
S118	Air Handling Unit	1546	6	1529	7	1510	12	1494	7	1112	14
S121	Air Handling Unit	1539	7	1521	7	1503	12	1487	7	1106	14
S125	Air Handling Unit	1491	7	1474	7	1457	8	1442	7	1079	15
S182	Air Handling Unit	1323	7	1306	8	1312	13	1297	8	1055	15
S183	Air Handling Unit	1316	7	1299	8	1305	13	1290	8	1051	15
S124	Air Handling Unit	1491	7	1474	7	1455	12	1440	7	1070	15
S138	Air Handling Unit	1420	7	1403	7	1390	12	1375	7	1043	15
S141	Air Handling Unit	1413	7	1395	7	1383	12	1368	7	1037	15
S137	Air Handling Unit	1420	7	1403	7	1387	12	1371	7	1027	15
S148	Air Handling Unit	1338	8	1321	8	1316	13	1301	8	1016	15
S140	Air Handling Unit	1413	7	1395	7	1380	12	1364	8	1022	15
S147	Air Handling Unit	1338	8	1321	8	1314	13	1299	8	1010	15
S136	Air Handling Unit	1420	7	1403	7	1385	12	1370	7	1018	15
S139	Air Handling Unit	1413	7	1396	7	1378	12	1362	8	1012	15
S044	Carbon Bed - 3x Blowers (Stack)	1715	4	1698	4	1685	8	1669	8	1277	14
S034	Coaguration tank ejection pump	1734	0	1717	0	1702	2	1687	2	1288	7
S062	Cooling Tower Louver	1709	0	1692	0	1686	0	1671	0	1307	0
S064	Cooling Tower Louver	1704	0	1687	0	1681	0	1666	0	1303	0
S066	Cooling Tower Louver	1699	0	1681	0	1676	0	1660	0	1299	0
S068	Cooling Tower Louver	1693	0	1676	0	1670	0	1655	0	1295	0
S061	Cooling Tower Louver	1709	0	1691	0	1685	1	1669	0	1302	3
S070	Cooling Tower Louver	1688	0	1670	0	1665	0	1650	0	1290	0
S063	Cooling Tower Louver	1703	0	1686	0	1679	1	1664	0	1298	3
S065	Cooling Tower Louver	1698	0	1681	0	1674	1	1659	0	1294	3
S072	Cooling Tower Louver	1682	0	1664	0	1660	0	1644	0	1286	0
S067	Cooling Tower Louver	1693	0	1675	0	1669	1	1654	0	1290	3
S069	Cooling Tower Louver	1687	0	1670	0	1664	1	1648	0	1286	3
S071	Cooling Tower Louver	1682	0	1665	0	1659	1	1643	0	1282	3
S053	Cooling Tower Top	1709	6	1692	6	1685	8	1670	6	1305	8
S054	Cooling Tower Top	1703	6	1686	6	1680	8	1665	6	1300	8
S055	Cooling Tower Top	1698	6	1681	6	1675	8	1659	6	1296	8
S056	Cooling Tower Top	1693	6	1675	6	1669	8	1654	6	1292	7

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	1687	6	1670	6	1664	8	1649	6	1288	7
S058	Cooling Tower Top	1682	6	1665	6	1659	8	1644	6	1284	7
S073	Cooling water pump A	1710	9	1692	9	1688	17	1672	9	1312	4
S074	Cooling water pump B	1704	9	1687	8	1683	17	1667	9	1308	4
S075	Cooling water pump C	1699	9	1682	8	1677	17	1662	8	1304	4
S163	Dehumidifier Fan	1566	4	1549	3	1550	6	1535	3	1221	8
S162	Dehumidifier Fan	1565	3	1548	3	1547	6	1532	3	1211	8
S161	Dehumidifier Fan	1564	3	1547	3	1544	6	1529	3	1200	8
S160	Dehumidifier Fan	1563	3	1546	3	1541	6	1525	4	1190	8
S013	Distillation Column Reflex Pump	1733	0	1716	0	1699	2	1683	2	1273	9
S008	Distillation Pump 2	1742	2	1725	2	1708	11	1692	10	1284	18
ust Fan	Dryer	1555	3	1538	3	1533	6	1518	4	1184	8
ust Fan	Dryer	1556	3	1539	3	1536	6	1521	4	1195	8
ust Fan	Dryer	1557	3	1540	3	1539	6	1524	3	1205	8
ust Fan	Dryer	1558	4	1541	3	1543	6	1527	3	1216	8
S091	EF-046 Motor	1737	5	1719	5	1715	6	1700	5	1338	7
S090	EF-046 Stack	1737	8	1720	8	1716	8	1700	8	1338	10
S032	EM Feed Pump 2 A	1690	0	1673	0	1657	3	1642	3	1247	12
S031	EM Feed Pump 2 B	1697	0	1679	0	1664	4	1649	3	1252	14
S018	EM truck unloading pump	1697	0	1679	0	1661	1	1645	1	1237	7
S030	EML Feed Pump A	1700	0	1683	0	1667	0	1652	0	1255	4
S029	EML Feed Pump B	1705	0	1688	0	1673	1	1657	0	1259	4
S129	Exhaust Fan	1450	2	1433	2	1420	5	1405	3	1066	7
S128	Exhaust Fan	1450	2	1433	2	1417	5	1401	3	1051	8
S127	Exhaust Fan	1450	2	1433	2	1414	5	1398	3	1036	8
S114b	Exhaust Fan Motor	1578	0	1561	0	1547	0	1532	0	1162	0
S113b	Exhaust Fan Motor	1578	0	1561	0	1544	0	1528	0	1147	0
S112b	Exhaust Fan Motor	1578	0	1561	0	1541	0	1526	0	1133	0
S051	Exhaust Fan Motor - Aux 3	1736	4	1719	4	1711	6	1696	5	1321	8
S045	Exhaust Fan Motor - Aux 4	1715	1	1698	1	1684	6	1669	4	1277	8
S047	Exhaust Fan Motor - Aux 4	1709	1	1692	1	1679	1	1663	1	1275	2
S049	Exhaust Fan Motor - Aux 4	1692	1	1675	1	1662	1	1647	1	1261	2
S114a	Exhaust Fan Opening	1578	0	1561	0	1547	0	1532	0	1162	0
S113a	Exhaust Fan Opening	1578	0	1561	0	1544	0	1528	0	1146	0
S112a	Exhaust Fan Opening	1578	0	1561	0	1541	0	1526	0	1133	0
S082	Exhaust Fan Short - Aux 12	1744	1	1727	1	1726	5	1710	1	1357	2
S146	Exhaust Fan Short - Machine Room	1388	6	1371	7	1363	12	1347	7	1039	10
S153	Exhaust Fan Short - Mezzanine	1488	5	1471	5	1465	5	1450	5	1126	7
S154	Exhaust Fan Short - Mezzanine	1446	5	1429	5	1423	5	1408	5	1096	7
S155	Exhaust Fan Short - Mezzanine	1405	5	1388	5	1383	8	1368	5	1068	7
S046	Exhaust Fan Stack - Aux 4	1710	1	1692	1	1680	1	1664	1	1275	5
S048	Exhaust Fan Stack - Aux 4	1693	1	1676	1	1663	1	1648	1	1262	4
S100	Exhaust Fan Stack- Aux 2	1710	7	1693	7	1693	8	1677	7	1333	9
S099	Exhaust Fan Stack- Aux 2	1709	7	1692	7	1690	8	1675	7	1325	9
S132	Exhaust From Buffer Zone	1438	2	1421	2	1409	5	1393	3	1058	7
S135	Exhaust From Buffer Zone	1427	2	1410	2	1398	5	1382	3	1050	8
S131	Exhaust From Buffer Zone	1438	2	1421	2	1405	5	1390	3	1043	8
S134	Exhaust From Buffer Zone	1427	2	1410	2	1395	5	1379	3	1035	8
S130	Exhaust From Buffer Zone	1438	2	1421	2	1402	5	1387	3	1027	8

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	1428	2	1411	2	1392	5	1377	3	1020	8
S038	Filtrate solution pump	1734	0	1716	0	1704	0	1688	0	1296	0
S011	Flash Tank Bottom Pump	1737	0	1720	0	1702	0	1687	0	1277	2
S009	Flash Tank Drain Pump	1741	0	1723	0	1706	0	1690	0	1279	2
S010	Flash Tank Vacuum Pump	1740	0	1723	0	1705	4	1690	3	1279	11
S035	Flushing oil feed pump	1734	0	1717	0	1703	0	1688	0	1292	7
S016	LP feed pump A	1701	0	1684	0	1666	1	1651	1	1247	7
S017	LP feed pump B	1698	0	1681	0	1664	1	1648	1	1245	7
S019	LP truck unloading pump	1695	0	1678	0	1659	1	1644	1	1236	7
S012	Reboiler Circulation Pump	1734	1	1717	1	1700	7	1685	6	1277	14
S039	RLP Circulation 2nd Pump	1739	0	1722	0	1710	0	1694	0	1302	2
S037	RLP Circulation Pump	1739	0	1722	0	1709	0	1693	0	1298	10
S014	RLP feed pump A	1710	0	1693	0	1676	1	1660	1	1255	7
S015	RLP feed pump B	1708	0	1690	0	1673	1	1658	1	1253	7
S149	Roof Top Unit	1591	0	1574	0	1567	0	1552	0	1203	1
S152	Roof Top Unit	1504	2	1487	2	1481	3	1466	2	1138	4
S184	Roof Top Unit	1303	3	1286	3	1286	7	1271	3	1014	9
S102	Roof Top Unit	1358	3	1341	3	1319	7	1303	3	951	10
S103	Roof Top Unit	1331	3	1314	3	1292	7	1277	3	933	10
S101	Roof Top Unit	1327	3	1310	3	1285	7	1270	3	918	10
S104	Roof Top Unit	1298	3	1280	3	1259	7	1243	3	910	10
S001a	T1 - 160 MVA HVTX (NEMA) Core	1909	14	1891	14	1883	16	1867	14	1466	23
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1909	5	1891	5	1883	7	1867	6	1466	13
S002a	T2 - 160 MVA HVTX (NEMA) Core	1939	14	1921	14	1912	16	1897	14	1491	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1939	5	1921	5	1912	7	1897	5	1491	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	1967	14	1950	14	1941	15	1925	14	1515	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1967	5	1950	5	1941	7	1925	5	1515	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	1998	13	1980	13	1971	15	1955	14	1541	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1998	5	1980	5	1971	6	1955	5	1541	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	2027	13	2010	13	2000	15	1984	13	1565	22
S005b	T5 - 160 MVA HVTX (NEMA) Fan	2027	5	2010	5	2000	6	1984	5	1565	13
S006a	T6 - 160 MVA HVTX (NEMA) Core	2057	13	2040	13	2029	15	2014	13	1591	22
S006b	T6 - 160 MVA HVTX (NEMA) Fan	2057	5	2040	5	2029	6	2014	5	1591	12
S185	Truck Pass By	1530	21	1513	21	1506	26	1490	23	1163	29
S033	VAC Truck	1671	5	1653	5	1638	12	1622	11	1229	20
S021	VAC Truck	1671	5	1654	5	1636	12	1620	11	1220	29
S023	Washed EM Feed Pump A	1717	0	1700	0	1684	2	1668	2	1268	8
S022	Washed EM Feed Pump B	1718	0	1701	0	1685	2	1669	2	1269	8
S007	Wastewater Blower Intake	1802	4	1785	4	1767	9	1752	8	1334	15
S025	WEM Feed Pump A	1715	1	1697	1	1682	9	1667	8	1268	18
S024	WEM Feed Pump B	1716	1	1699	1	1684	9	1668	8	1270	18
S028	WH Pump	1710	0	1693	0	1677	2	1662	2	1262	8
S036	WLP Booster Pump	1738	0	1721	0	1707	0	1692	0	1296	3
S020	WO truck loading pump	1694	0	1676	0	1658	1	1642	1	1234	7
S027	WS Feed Pump A	1713	1	1695	1	1680	9	1665	8	1266	18
S026	WS Feed Pump B	1714	1	1696	1	1681	9	1666	8	1267	18
Total Level [dBA]			29		29		32		30		38

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	1339	0	1092	0	1084	0	1308	1	1303	1
S080	1.5 MVA Transformer	1338	0	1090	0	1081	0	1306	1	1301	1
S079	1.5 MVA Transformer	1336	0	1088	0	1079	0	1303	1	1298	1
S078	1.5 MVA Transformer	1334	0	1085	0	1077	0	1301	1	1296	1
S083	10 MVA Transformer	1342	0	1099	1	1090	1	1320	3	1315	3
S084	10 MVA Transformer	1336	0	1095	1	1087	1	1324	2	1319	2
S089	13) Air Compressor - Louver	1306	15	1058	15	1049	15	1298	0	1294	0
S087	13) Air Compressor - Louver	1311	0	1062	0	1053	0	1297	0	1292	0
S086	13) Air Compressor - Louver	1311	0	1062	0	1053	0	1294	9	1289	9
S088	13) Air Compressor - Louver	1309	0	1061	0	1052	0	1299	0	1294	0
S085	13) Air Compressor - Louver	1309	0	1058	0	1049	0	1291	9	1286	9
S107	1a1 - Raw material Receiving Blower x3	1126	1	891	4	882	4	1305	5	1300	5
S111	1a2 - Raw and additive feed blower	1132	2	907	3	898	3	1328	7	1324	7
S110	1a3 - Raw and additive feed blower	1118	1	887	2	878	2	1313	5	1308	5
S109	1a4 - Raw and additive feed blower	1105	2	868	5	859	5	1298	7	1294	7
S117	1a5 - Cleaning Blower	1126	5	904	7	895	7	1333	4	1328	4
S116	1a6 - Cleaning Blower	1112	6	884	8	875	8	1318	4	1313	4
S115	1a7 - Cleaning Blower	1099	6	865	8	856	8	1303	4	1299	4
S098	2) Refrigerated Water - Louver	1316	0	1079	0	1070	0	1329	14	1324	14
S097	2) Refrigerated Water - Louver	1312	0	1073	0	1064	0	1324	12	1319	12
S096	2) Refrigerated Water - Louver	1307	0	1066	0	1057	0	1318	11	1313	11
S095	2) Refrigerated Water - Louver	1302	0	1060	0	1051	0	1313	12	1308	12
S094	2) Refrigerated Water - Louver	1299	0	1055	0	1046	0	1308	13	1303	13
S092	2) Refrigerated Water - Roof	1299	6	1058	8	1049	9	1328	7	1323	7
S093	2) Refrigerated Water - Walls	1299	1	1058	1	1050	1	1326	1	1321	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1291	14	1034	16	1026	16	1271	19	1266	19
S042	4) Waste Gas Absorption - Louver	1238	30	975	38	966	38	1244	34	1240	34
S043	4) Waste Gas Absorption - Louver	1222	27	964	38	956	38	1257	33	1252	33
S040	4) Waste Gas Absorption - Roof	1238	5	980	7	972	7	1260	5	1255	5
S041	4) Waste Gas Absorption - Walls	1237	12	980	15	972	15	1259	11	1254	12
S077a	60 MVA MVTX (NEMA-10) Core	1382	0	1122	2	1114	2	1281	1	1276	1
S076a	60 MVA MVTX (NEMA-10) Core	1371	1	1108	2	1100	2	1267	2	1262	2
S077b	60 MVA MVTX (NEMA-10) Fan	1382	0	1122	6	1114	6	1281	5	1276	5
S076b	60 MVA MVTX (NEMA-10) Fan	1371	5	1108	7	1100	7	1267	8	1262	8
S157	Air Handling Unit	1204	6	995	5	986	5	1380	10	1376	10
S156	Air Handling Unit	1199	6	989	4	980	4	1376	10	1371	10
S159	Air Handling Unit	1190	9	993	10	983	11	1405	9	1400	9
S158	Air Handling Unit	1185	9	986	11	977	11	1400	9	1395	9
S169	Air Handling Unit	1163	9	973	11	964	11	1417	7	1412	7
S168	Air Handling Unit	1158	9	967	11	957	11	1411	7	1407	7
S171	Air Handling Unit	1142	9	963	11	953	11	1437	7	1432	7
S170	Air Handling Unit	1138	9	956	11	947	11	1431	7	1427	7
S173	Air Handling Unit	1122	10	954	11	944	11	1458	1	1453	1
S150	Air Handling Unit	1137	9	935	11	926	11	1384	3	1380	7
S151	Air Handling Unit	1132	9	933	11	924	11	1389	2	1385	3
S172	Air Handling Unit	1117	9	947	10	937	11	1453	1	1448	1
S108	Air Handling Unit	1142	0	917	1	908	1	1327	10	1323	10
S175	Air Handling Unit	1105	10	947	11	937	11	1476	6	1471	6
S178	Air Handling Unit	1098	10	952	11	942	11	1500	6	1496	6

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	1147	2	911	12	902	11	1303	10	1298	10
S174	Air Handling Unit	1100	10	940	10	930	11	1471	6	1466	6
S179	Air Handling Unit	1094	10	950	11	941	11	1505	6	1500	6
S105	Air Handling Unit	1143	2	905	13	896	13	1298	10	1293	10
S142	Air Handling Unit	1110	9	907	11	897	11	1376	2	1371	2
S143	Air Handling Unit	1104	9	904	11	895	11	1380	3	1376	3
S180	Air Handling Unit	1074	10	943	11	933	11	1526	7	1521	7
S120	Air Handling Unit	1104	9	890	14	881	14	1349	1	1345	1
S176	Air Handling Unit	1074	9	922	9	912	9	1481	2	1476	2
S181	Air Handling Unit	1070	10	941	11	931	11	1531	7	1527	7
S123	Air Handling Unit	1098	9	887	14	878	14	1355	1	1350	1
S177	Air Handling Unit	1069	9	920	9	910	9	1486	7	1481	7
S119	Air Handling Unit	1093	12	875	14	866	14	1339	1	1334	1
S122	Air Handling Unit	1088	12	872	14	863	14	1344	1	1340	1
S144	Air Handling Unit	1058	10	883	12	873	12	1427	7	1422	7
S145	Air Handling Unit	1053	10	880	12	871	12	1432	7	1427	7
S126	Air Handling Unit	1062	10	869	14	860	14	1389	9	1384	9
S118	Air Handling Unit	1081	12	858	14	849	14	1325	9	1321	9
S121	Air Handling Unit	1076	12	855	14	846	14	1331	9	1326	9
S125	Air Handling Unit	1048	12	849	14	840	14	1375	9	1370	9
S182	Air Handling Unit	1024	13	928	11	918	11	1586	6	1582	6
S183	Air Handling Unit	1019	13	927	12	917	12	1592	6	1587	6
S124	Air Handling Unit	1039	12	836	14	826	14	1365	9	1361	9
S138	Air Handling Unit	1011	10	847	14	838	14	1442	9	1438	9
S141	Air Handling Unit	1006	10	845	14	835	14	1448	9	1443	9
S137	Air Handling Unit	996	12	826	14	817	14	1428	9	1424	9
S148	Air Handling Unit	984	13	867	12	857	12	1530	7	1526	7
S140	Air Handling Unit	991	13	824	14	815	14	1434	9	1429	9
S147	Air Handling Unit	979	13	860	12	850	12	1525	7	1521	7
S136	Air Handling Unit	986	13	813	14	803	15	1419	9	1415	9
S139	Air Handling Unit	981	13	811	14	801	15	1425	9	1420	9
S044	Carbon Bed - 3x Blowers (Stack)	1247	10	985	13	976	13	1247	11	1242	11
S034	Coaguration tank ejection pump	1258	6	989	10	980	10	1230	7	1225	7
S062	Cooling Tower Louver	1276	0	1031	0	1022	0	1298	0	1293	0
S064	Cooling Tower Louver	1272	0	1028	0	1019	0	1301	0	1296	0
S066	Cooling Tower Louver	1268	0	1025	0	1017	0	1304	0	1300	0
S068	Cooling Tower Louver	1264	0	1023	0	1014	0	1308	0	1303	0
S061	Cooling Tower Louver	1272	2	1024	8	1016	8	1292	10	1288	10
S070	Cooling Tower Louver	1260	0	1020	0	1011	0	1311	0	1306	0
S063	Cooling Tower Louver	1268	3	1022	15	1013	15	1296	10	1291	10
S065	Cooling Tower Louver	1263	3	1019	16	1010	16	1299	10	1294	10
S072	Cooling Tower Louver	1256	0	1017	0	1009	0	1315	0	1310	0
S067	Cooling Tower Louver	1259	2	1016	15	1008	14	1302	9	1297	9
S069	Cooling Tower Louver	1255	2	1014	13	1005	13	1306	9	1301	9
S071	Cooling Tower Louver	1251	2	1011	13	1003	13	1309	8	1304	8
S053	Cooling Tower Top	1274	8	1027	11	1019	11	1295	10	1290	10
S054	Cooling Tower Top	1270	7	1025	12	1016	12	1299	10	1294	10
S055	Cooling Tower Top	1266	7	1022	12	1013	12	1302	10	1297	10
S056	Cooling Tower Top	1261	7	1019	12	1011	12	1305	10	1301	10

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	1257	7	1017	12	1008	12	1309	9	1304	9
S058	Cooling Tower Top	1253	7	1014	12	1006	12	1312	9	1307	9
S073	Cooling water pump A	1281	4	1038	13	1029	13	1304	14	1299	14
S074	Cooling water pump B	1277	4	1035	13	1026	13	1307	12	1302	12
S075	Cooling water pump C	1273	4	1032	9	1024	9	1311	12	1306	12
S163	Dehumidifier Fan	1190	6	998	7	989	7	1418	4	1414	4
S162	Dehumidifier Fan	1180	6	984	7	975	7	1408	4	1403	4
S161	Dehumidifier Fan	1169	6	970	7	961	7	1397	4	1392	4
S160	Dehumidifier Fan	1159	6	956	7	947	7	1386	4	1381	5
S013	Distillation Column Reflex Pump	1243	8	967	10	959	11	1210	8	1206	8
S008	Distillation Pump 2	1255	17	978	20	970	20	1211	18	1206	18
ust Fan	Dryer	1153	6	953	7	944	7	1391	4	1386	4
ust Fan	Dryer	1163	6	967	7	958	7	1402	4	1397	4
ust Fan	Dryer	1174	6	981	7	972	7	1413	4	1408	4
ust Fan	Dryer	1185	6	995	7	986	7	1424	4	1419	4
S091	EF-046 Motor	1307	6	1058	9	1049	9	1294	9	1289	9
S090	EF-046 Stack	1308	10	1058	12	1050	12	1294	11	1289	11
S032	EM Feed Pump 2 A	1216	11	956	16	948	16	1250	13	1245	13
S031	EM Feed Pump 2 B	1222	13	960	16	951	16	1246	13	1241	13
S018	EM truck unloading pump	1207	7	938	9	929	10	1226	10	1222	10
S030	EML Feed Pump A	1224	4	961	6	953	6	1243	4	1239	4
S029	EML Feed Pump B	1229	4	964	6	956	6	1240	4	1235	4
S129	Exhaust Fan	1035	6	859	7	850	7	1422	3	1417	3
S128	Exhaust Fan	1020	6	838	8	829	8	1407	3	1403	3
S127	Exhaust Fan	1005	6	818	8	808	8	1393	3	1389	3
S114b	Exhaust Fan Motor	1132	0	908	1	899	1	1330	9	1326	9
S113b	Exhaust Fan Motor	1116	0	886	1	877	1	1313	9	1308	9
S112b	Exhaust Fan Motor	1103	0	867	2	858	2	1298	9	1294	9
S051	Exhaust Fan Motor - Aux 3	1290	6	1034	9	1025	9	1271	10	1266	10
S045	Exhaust Fan Motor - Aux 4	1247	7	984	12	976	13	1248	10	1243	10
S047	Exhaust Fan Motor - Aux 4	1244	2	985	5	976	5	1255	3	1250	3
S049	Exhaust Fan Motor - Aux 4	1231	2	976	5	967	5	1265	3	1261	3
S114a	Exhaust Fan Opening	1131	0	908	0	898	0	1330	6	1325	6
S113a	Exhaust Fan Opening	1116	0	885	1	876	1	1313	6	1308	6
S112a	Exhaust Fan Opening	1103	0	866	1	857	1	1298	6	1293	6
S082	Exhaust Fan Short - Aux 12	1327	1	1081	9	1073	9	1310	10	1305	10
S146	Exhaust Fan Short - Machine Room	1007	10	864	11	854	11	1483	6	1479	6
S153	Exhaust Fan Short - Mezzanine	1094	7	915	8	906	8	1427	4	1422	4
S154	Exhaust Fan Short - Mezzanine	1065	7	902	8	893	8	1457	5	1453	5
S155	Exhaust Fan Short - Mezzanine	1037	7	892	8	882	9	1487	5	1483	5
S046	Exhaust Fan Stack - Aux 4	1245	4	985	6	977	6	1254	4	1249	4
S048	Exhaust Fan Stack - Aux 4	1232	4	976	5	968	6	1265	3	1260	3
S100	Exhaust Fan Stack- Aux 2	1302	9	1067	11	1058	11	1333	10	1328	10
S099	Exhaust Fan Stack- Aux 2	1295	9	1057	11	1048	11	1324	10	1319	10
S132	Exhaust From Buffer Zone	1026	6	855	7	846	7	1430	3	1426	3
S135	Exhaust From Buffer Zone	1018	6	852	7	842	8	1438	3	1434	3
S131	Exhaust From Buffer Zone	1011	6	835	8	825	8	1416	3	1412	3
S134	Exhaust From Buffer Zone	1004	6	832	8	822	8	1425	3	1420	3
S130	Exhaust From Buffer Zone	996	6	814	8	804	8	1402	3	1398	3

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	989	6	811	8	801	8	1410	3	1406	3
S038	Filtrate solution pump	1266	0	1000	9	992	9	1241	7	1236	7
S011	Flash Tank Bottom Pump	1247	2	970	3	962	3	1208	2	1204	2
S009	Flash Tank Drain Pump	1249	2	971	3	963	3	1206	2	1201	2
S010	Flash Tank Vacuum Pump	1250	9	972	12	964	12	1207	9	1202	9
S035	Flushing oil feed pump	1262	6	994	9	986	10	1235	7	1230	7
S016	LP feed pump A	1217	7	950	9	942	9	1232	10	1228	10
S017	LP feed pump B	1215	7	949	9	941	9	1234	10	1230	10
S019	LP truck unloading pump	1206	7	937	9	929	10	1227	10	1222	10
S012	Reboiler Circulation Pump	1247	13	972	16	964	16	1214	14	1209	14
S039	RLP Circulation 2nd Pump	1272	1	1005	12	996	13	1239	10	1234	10
S037	RLP Circulation Pump	1268	10	1000	13	992	13	1234	10	1229	10
S014	RLP feed pump A	1225	7	955	9	947	9	1226	10	1222	10
S015	RLP feed pump B	1223	7	954	9	946	9	1228	10	1223	10
S149	Roof Top Unit	1172	1	956	0	947	0	1356	3	1352	3
S152	Roof Top Unit	1107	4	922	5	913	5	1416	1	1411	1
S184	Roof Top Unit	983	7	888	7	878	7	1575	2	1571	2
S102	Roof Top Unit	920	8	767	9	758	9	1449	4	1445	4
S103	Roof Top Unit	901	8	762	9	752	9	1471	4	1466	4
S101	Roof Top Unit	886	8	746	9	736	9	1466	4	1461	4
S104	Roof Top Unit	879	8	757	9	747	9	1498	4	1494	4
S001a	T1 - 160 MVA HVTX (NEMA) Core	1436	20	1141	22	1134	22	1182	21	1177	21
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1436	11	1141	13	1134	13	1182	13	1177	13
S002a	T2 - 160 MVA HVTX (NEMA) Core	1461	19	1160	21	1153	21	1166	21	1161	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1461	11	1160	13	1153	13	1166	13	1161	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	1486	19	1179	21	1171	21	1153	22	1148	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1486	10	1179	13	1171	13	1153	13	1148	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	1511	19	1199	21	1192	21	1138	22	1133	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1511	10	1199	12	1192	12	1138	13	1133	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	1536	19	1219	21	1211	21	1125	20	1120	20
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1536	10	1219	12	1211	12	1125	11	1120	11
S006a	T6 - 160 MVA HVTX (NEMA) Core	1562	18	1239	20	1232	20	1112	19	1107	19
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1562	10	1239	12	1232	12	1112	10	1107	11
S185	Truck Pass By	1135	27	939	28	932	29	1414	21	1409	21
S033	VAC Truck	1199	18	943	26	935	26	1260	26	1255	26
S021	VAC Truck	1190	23	930	26	921	26	1248	26	1243	27
S023	Washed EM Feed Pump A	1238	8	970	10	961	10	1232	8	1227	8
S022	Washed EM Feed Pump B	1239	8	970	10	962	10	1231	8	1227	8
S007	Wastewater Blower Intake	1304	13	1013	15	1005	15	1174	13	1169	13
S025	WEM Feed Pump A	1238	18	972	20	964	21	1236	17	1231	18
S024	WEM Feed Pump B	1239	18	973	20	964	21	1235	17	1230	18
S028	WH Pump	1232	8	966	11	958	11	1236	8	1232	8
S036	WLP Booster Pump	1266	2	997	4	989	4	1233	2	1228	2
S020	WO truck loading pump	1204	7	936	9	928	10	1228	10	1223	10
S027	WS Feed Pump A	1236	18	971	20	962	21	1237	17	1233	18
S026	WS Feed Pump B	1237	18	971	20	963	21	1237	17	1232	18
Total Level [dBA]			36		43		43		39		39

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Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	768	5	903	4	1046	2	922	1	1058	0
S080	1.5 MVA Transformer	767	5	903	4	1048	2	924	1	1060	0
S079	1.5 MVA Transformer	767	5	904	4	1049	2	926	1	1063	0
S078	1.5 MVA Transformer	766	5	905	4	1050	2	929	1	1065	0
S083	10 MVA Transformer	777	13	906	11	1047	9	909	17	1046	13
S084	10 MVA Transformer	784	12	912	11	1053	9	905	16	1041	13
S089	13) Air Compressor - Louver	781	15	931	23	1078	0	934	15	1067	14
S087	13) Air Compressor - Louver	777	0	926	9	1073	9	935	15	1068	12
S086	13) Air Compressor - Louver	774	18	924	15	1072	13	938	1	1071	0
S088	13) Air Compressor - Louver	780	0	928	10	1075	9	934	14	1066	11
S085	13) Air Compressor - Louver	773	18	925	15	1074	13	941	0	1074	0
S107	1a1 - Raw material Receiving Blower x3	900	11	1100	9	1255	8	980	5	1088	2
S111	1a2 - Raw and additive feed blower	913	13	1103	11	1254	10	955	6	1063	3
S110	1a3 - Raw and additive feed blower	911	10	1110	8	1265	7	976	3	1083	2
S109	1a4 - Raw and additive feed blower	909	13	1118	11	1275	10	996	4	1102	2
S117	1a5 - Cleaning Blower	920	10	1110	8	1261	7	954	9	1061	8
S116	1a6 - Cleaning Blower	918	10	1117	8	1272	7	974	9	1080	8
S115	1a7 - Cleaning Blower	916	10	1124	8	1282	7	994	9	1099	8
S098	2) Refrigerated Water - Louver	800	25	933	25	1074	20	902	1	1036	0
S097	2) Refrigerated Water - Louver	798	25	935	22	1077	20	908	0	1041	0
S096	2) Refrigerated Water - Louver	796	25	937	22	1081	20	915	8	1047	0
S095	2) Refrigerated Water - Louver	795	25	939	22	1084	20	920	8	1052	0
S094	2) Refrigerated Water - Louver	793	17	941	22	1087	20	926	8	1057	0
S092	2) Refrigerated Water - Roof	810	12	949	14	1090	12	907	14	1039	13
S093	2) Refrigerated Water - Walls	810	2	950	2	1092	1	906	2	1036	2
S050	3) Gas Boiler - Boiler Package (3x Boilers)	769	18	935	21	1088	20	963	16	1094	16
S042	4) Waste Gas Absorption - Louver	784	10	978	1	1137	0	1000	0	1124	0
S043	4) Waste Gas Absorption - Louver	803	10	996	1	1154	0	991	0	1114	0
S040	4) Waste Gas Absorption - Roof	794	9	980	10	1144	6	987	9	1113	9
S041	4) Waste Gas Absorption - Walls	795	16	981	7	1143	5	984	14	1112	13
S077a	60 MVA MVTX (NEMA-10) Core	720	6	852	4	999	3	947	9	1089	5
S076a	60 MVA MVTX (NEMA-10) Core	715	6	857	4	1007	3	961	3	1102	2
S077b	60 MVA MVTX (NEMA-10) Fan	720	13	852	10	999	8	947	16	1089	12
S076b	60 MVA MVTX (NEMA-10) Fan	715	13	857	11	1007	8	961	8	1102	7
S157	Air Handling Unit	910	13	1059	11	1198	14	878	13	994	10
S156	Air Handling Unit	908	13	1061	11	1201	10	884	13	1000	10
S159	Air Handling Unit	938	17	1083	15	1219	14	860	17	973	16
S158	Air Handling Unit	936	17	1085	15	1222	14	866	17	979	16
S169	Air Handling Unit	963	17	1112	15	1248	14	859	17	968	16
S168	Air Handling Unit	961	17	1114	15	1251	14	866	17	975	16
S171	Air Handling Unit	991	17	1140	15	1275	14	851	17	955	16
S170	Air Handling Unit	990	17	1142	15	1277	14	858	17	961	16
S173	Air Handling Unit	1021	9	1169	8	1302	7	842	17	941	16
S150	Air Handling Unit	952	17	1120	15	1263	14	900	12	1007	11
S151	Air Handling Unit	959	17	1127	15	1269	14	898	12	1003	11
S172	Air Handling Unit	1019	9	1171	8	1305	7	849	17	948	16
S108	Air Handling Unit	905	17	1092	15	1243	14	951	12	1061	3
S175	Air Handling Unit	1045	12	1193	10	1325	9	835	17	931	16
S178	Air Handling Unit	1070	12	1213	10	1342	14	819	18	911	17

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Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	885	17	1080	15	1234	14	972	12	1083	10
S174	Air Handling Unit	1044	12	1195	10	1328	9	842	17	938	16
S179	Air Handling Unit	1076	12	1219	10	1347	14	818	18	909	17
S105	Air Handling Unit	884	17	1082	15	1238	14	978	11	1089	10
S142	Air Handling Unit	962	17	1140	15	1286	13	921	12	1024	11
S143	Air Handling Unit	968	15	1147	15	1292	13	919	12	1021	15
S180	Air Handling Unit	1105	12	1248	10	1375	13	813	18	898	17
S120	Air Handling Unit	946	2	1135	1	1285	1	947	12	1051	11
S176	Air Handling Unit	1067	12	1222	10	1355	9	848	17	939	16
S181	Air Handling Unit	1112	12	1255	10	1382	9	811	18	896	17
S123	Air Handling Unit	953	2	1142	1	1291	2	945	12	1048	11
S177	Air Handling Unit	1074	12	1229	10	1362	9	847	17	936	16
S119	Air Handling Unit	944	2	1141	1	1293	1	962	12	1065	11
S122	Air Handling Unit	952	2	1147	1	1299	1	960	12	1062	11
S144	Air Handling Unit	1032	8	1208	14	1349	9	902	17	995	16
S145	Air Handling Unit	1038	8	1214	10	1356	9	901	17	992	16
S126	Air Handling Unit	1000	5	1187	14	1334	9	933	16	1028	15
S118	Air Handling Unit	943	2	1147	1	1302	1	981	11	1082	11
S121	Air Handling Unit	950	3	1154	1	1308	1	979	11	1079	11
S125	Air Handling Unit	998	6	1194	5	1344	7	953	12	1048	11
S182	Air Handling Unit	1186	11	1328	14	1452	13	803	17	873	17
S183	Air Handling Unit	1193	11	1335	14	1459	13	803	17	871	17
S124	Air Handling Unit	997	8	1199	5	1350	5	967	12	1061	11
S138	Air Handling Unit	1071	9	1255	10	1398	9	918	16	1002	16
S141	Air Handling Unit	1078	10	1262	10	1405	9	917	16	1000	16
S137	Air Handling Unit	1069	9	1262	10	1407	9	939	12	1023	11
S148	Air Handling Unit	1157	11	1324	9	1458	8	869	12	941	12
S140	Air Handling Unit	1076	10	1268	10	1414	8	938	12	1020	11
S147	Air Handling Unit	1156	11	1326	9	1461	8	876	12	948	12
S136	Air Handling Unit	1068	9	1266	9	1413	8	953	12	1036	11
S139	Air Handling Unit	1075	10	1273	9	1420	8	952	12	1034	11
S044	Carbon Bed - 3x Blowers (Stack)	780	20	970	17	1129	16	995	17	1121	16
S034	Coaguration tank ejection pump	760	13	955	11	1116	9	1010	9	1137	1
S062	Cooling Tower Louver	799	0	958	3	1107	1	939	10	1068	9
S064	Cooling Tower Louver	804	0	963	3	1111	1	937	14	1065	16
S066	Cooling Tower Louver	810	0	968	2	1116	2	934	19	1062	17
S068	Cooling Tower Louver	815	0	973	2	1121	2	932	19	1058	17
S061	Cooling Tower Louver	798	3	960	0	1110	0	945	0	1074	0
S070	Cooling Tower Louver	820	0	979	2	1126	2	929	19	1055	18
S063	Cooling Tower Louver	803	3	966	0	1115	0	943	0	1070	0
S065	Cooling Tower Louver	808	3	971	0	1120	0	940	0	1067	0
S072	Cooling Tower Louver	825	0	984	2	1130	1	927	21	1052	18
S067	Cooling Tower Louver	813	3	976	0	1124	0	938	0	1064	0
S069	Cooling Tower Louver	819	3	981	0	1129	0	935	0	1061	0
S071	Cooling Tower Louver	824	3	986	0	1134	0	933	1	1058	0
S053	Cooling Tower Top	799	16	959	13	1109	12	942	12	1070	12
S054	Cooling Tower Top	804	16	965	13	1113	11	940	13	1067	12
S055	Cooling Tower Top	809	16	969	13	1118	12	937	13	1064	12
S056	Cooling Tower Top	814	16	975	13	1123	12	935	13	1061	12

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Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	820	16	980	13	1128	12	932	13	1058	12
S058	Cooling Tower Top	825	16	985	13	1132	12	930	13	1055	12
S073	Cooling water pump A	801	27	956	14	1103	16	932	10	1061	7
S074	Cooling water pump B	806	27	961	15	1107	13	930	12	1058	7
S075	Cooling water pump C	811	27	966	17	1112	11	927	21	1055	22
S163	Dehumidifier Fan	949	11	1089	9	1223	8	848	11	960	10
S162	Dehumidifier Fan	946	11	1093	9	1230	8	862	11	973	10
S161	Dehumidifier Fan	943	11	1097	9	1236	8	876	11	986	10
S160	Dehumidifier Fan	940	11	1101	9	1243	8	890	10	1000	9
S013	Distillation Column Reflex Pump	758	10	965	12	1130	6	1032	3	1158	3
S008	Distillation Pump 2	750	25	954	22	1119	20	1029	14	1156	9
ust Fan	Dryer	948	11	1097	9	1231	8	845	11	957	10
ust Fan	Dryer	951	11	1101	9	1237	8	859	11	969	10
ust Fan	Dryer	954	11	1105	9	1243	8	873	11	983	10
ust Fan	Dryer	957	11	1109	9	1250	8	888	10	996	9
S091	EF-046 Motor	777	14	928	16	1076	14	938	16	1071	14
S090	EF-046 Stack	777	20	928	17	1075	16	938	17	1071	16
S032	EM Feed Pump 2 A	803	20	1000	13	1159	2	999	8	1121	2
S031	EM Feed Pump 2 B	796	20	993	16	1153	2	1002	2	1125	1
S018	EM truck unloading pump	793	13	1003	10	1167	8	1026	9	1147	8
S030	EML Feed Pump A	793	9	990	7	1151	0	1004	0	1127	0
S029	EML Feed Pump B	787	9	985	7	1146	1	1006	0	1130	0
S129	Exhaust Fan	1042	4	1226	7	1370	6	920	9	1010	8
S128	Exhaust Fan	1040	4	1232	7	1379	6	942	9	1030	8
S127	Exhaust Fan	1038	4	1239	3	1389	6	963	9	1051	8
S114b	Exhaust Fan Motor	914	16	1103	14	1254	13	953	4	1061	0
S113b	Exhaust Fan Motor	912	16	1111	14	1266	12	976	2	1083	0
S112b	Exhaust Fan Motor	910	16	1119	14	1276	12	996	1	1102	0
S051	Exhaust Fan Motor - Aux 3	770	15	936	12	1089	14	963	11	1094	10
S045	Exhaust Fan Motor - Aux 4	781	19	970	16	1129	14	995	15	1120	14
S047	Exhaust Fan Motor - Aux 4	787	10	975	7	1132	6	988	7	1114	6
S049	Exhaust Fan Motor - Aux 4	804	10	990	7	1147	6	981	7	1104	6
S114a	Exhaust Fan Opening	914	13	1103	11	1254	9	953	2	1061	0
S113a	Exhaust Fan Opening	912	13	1111	11	1266	9	976	1	1083	0
S112a	Exhaust Fan Opening	910	13	1119	11	1277	9	996	0	1102	0
S082	Exhaust Fan Short - Aux 12	778	17	915	19	1059	10	921	16	1056	15
S146	Exhaust Fan Short - Machine Room	1106	9	1279	9	1417	8	888	16	968	11
S153	Exhaust Fan Short - Mezzanine	1011	8	1177	7	1316	6	883	12	980	11
S154	Exhaust Fan Short - Mezzanine	1052	8	1217	7	1355	6	873	12	964	11
S155	Exhaust Fan Short - Mezzanine	1093	8	1257	6	1392	6	866	12	950	11
S046	Exhaust Fan Stack - Aux 4	786	10	974	8	1132	6	989	7	1114	6
S048	Exhaust Fan Stack - Aux 4	803	9	990	7	1146	5	981	7	1105	5
S100	Exhaust Fan Stack- Aux 2	811	14	948	16	1089	15	901	16	1033	15
S099	Exhaust Fan Stack- Aux 2	809	14	951	16	1094	15	911	16	1042	15
S132	Exhaust From Buffer Zone	1053	4	1237	7	1380	6	919	9	1006	8
S135	Exhaust From Buffer Zone	1064	4	1248	7	1390	6	917	9	1002	8
S131	Exhaust From Buffer Zone	1051	4	1243	7	1390	6	940	9	1026	8
S134	Exhaust From Buffer Zone	1062	4	1254	7	1400	6	938	9	1022	8
S130	Exhaust From Buffer Zone	1050	4	1250	3	1400	6	961	9	1047	8

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Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	1060	4	1260	3	1409	6	959	9	1043	8
S038	Filtrate solution pump	763	13	950	11	1109	9	997	6	1125	8
S011	Flash Tank Bottom Pump	754	6	961	4	1126	3	1033	0	1159	0
S009	Flash Tank Drain Pump	750	6	958	4	1124	3	1035	0	1162	0
S010	Flash Tank Vacuum Pump	751	12	958	14	1124	8	1034	7	1161	6
S035	Flushing oil feed pump	761	13	952	11	1113	9	1004	9	1132	8
S016	LP feed pump A	790	13	994	10	1157	8	1017	1	1139	1
S017	LP feed pump B	792	13	997	10	1159	8	1015	1	1137	2
S019	LP truck unloading pump	794	13	1004	10	1168	8	1025	9	1146	8
S012	Reboiler Circulation Pump	757	21	962	18	1126	16	1027	5	1154	3
S039	RLP Circulation 2nd Pump	758	17	944	14	1103	12	998	11	1127	9
S037	RLP Circulation Pump	757	17	946	14	1106	12	1003	12	1132	11
S014	RLP feed pump A	781	13	986	10	1149	8	1021	1	1144	1
S015	RLP feed pump B	783	13	988	10	1151	8	1019	1	1142	1
S149	Roof Top Unit	909	7	1077	5	1221	4	912	2	1024	1
S152	Roof Top Unit	995	10	1161	8	1301	7	886	10	986	9
S184	Roof Top Unit	1197	5	1354	4	1482	6	840	7	906	10
S102	Roof Top Unit	1129	6	1335	1	1483	3	975	1	1047	1
S103	Roof Top Unit	1156	5	1361	2	1507	3	973	1	1040	1
S101	Roof Top Unit	1161	9	1370	4	1519	3	988	3	1054	3
S104	Roof Top Unit	1190	5	1392	4	1537	3	971	2	1032	2
S001a	T1 - 160 MVA HVTX (NEMA) Core	605	28	771	29	937	23	1051	26	1197	25
S001b	T1 - 160 MVA HVTX (NEMA) Fan	605	19	771	20	937	13	1051	17	1197	15
S002a	T2 - 160 MVA HVTX (NEMA) Core	577	28	743	30	912	26	1070	25	1218	24
S002b	T2 - 160 MVA HVTX (NEMA) Fan	577	19	743	21	912	16	1070	16	1218	15
S003a	T3 - 160 MVA HVTX (NEMA) Core	549	29	717	30	889	28	1088	20	1239	19
S003b	T3 - 160 MVA HVTX (NEMA) Fan	549	20	717	21	889	19	1088	11	1239	10
S004a	T4 - 160 MVA HVTX (NEMA) Core	520	29	689	31	864	28	1108	20	1261	19
S004b	T4 - 160 MVA HVTX (NEMA) Fan	520	20	689	22	864	19	1108	11	1261	10
S005a	T5 - 160 MVA HVTX (NEMA) Core	493	29	663	31	841	28	1128	20	1282	19
S005b	T5 - 160 MVA HVTX (NEMA) Fan	493	20	663	22	841	19	1128	11	1282	10
S006a	T6 - 160 MVA HVTX (NEMA) Core	465	30	636	31	818	28	1148	20	1304	18
S006b	T6 - 160 MVA HVTX (NEMA) Fan	465	21	636	22	818	19	1148	11	1304	9
S185	Truck Pass By	993	28	1302	23	1448	22	949	28	1035	28
S033	VAC Truck	821	30	1019	18	1177	14	995	27	1114	25
S021	VAC Truck	819	30	1024	27	1185	22	1009	27	1128	25
S023	Washed EM Feed Pump A	776	14	975	12	1136	10	1012	1	1137	0
S022	Washed EM Feed Pump B	775	14	974	12	1136	10	1012	1	1137	0
S007	Wastewater Blower Intake	691	18	899	20	1069	13	1059	14	1192	13
S025	WEM Feed Pump A	778	25	975	22	1136	20	1008	4	1132	3
S024	WEM Feed Pump B	777	25	974	22	1135	20	1008	4	1133	3
S028	WH Pump	782	15	981	12	1142	10	1009	1	1133	0
S036	WLP Booster Pump	758	7	948	5	1109	4	1005	4	1133	3
S020	WO truck loading pump	796	13	1006	10	1170	8	1025	9	1145	8
S027	WS Feed Pump A	780	25	977	22	1138	20	1007	4	1131	3
S026	WS Feed Pump B	779	25	976	22	1137	20	1007	4	1132	3
Total Level [dBA]			42		41		38		38		37

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Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S081	1.5 MVA Transformer	1069	0	1249	0	1200	0	1300	0	1534	0
S080	1.5 MVA Transformer	1071	0	1250	0	1201	0	1300	0	1533	0
S079	1.5 MVA Transformer	1072	0	1251	0	1201	0	1299	0	1531	0
S078	1.5 MVA Transformer	1073	0	1252	0	1202	0	1299	0	1530	0
S083	10 MVA Transformer	1060	9	1240	8	1193	8	1297	3	1535	1
S084	10 MVA Transformer	1053	9	1234	8	1186	8	1290	2	1529	1
S089	13) Air Compressor - Louver	1060	16	1238	16	1183	15	1274	19	1502	17
S087	13) Air Compressor - Louver	1064	7	1242	5	1188	3	1279	0	1507	0
S086	13) Air Compressor - Louver	1067	0	1245	0	1191	0	1281	0	1508	0
S088	13) Air Compressor - Louver	1061	6	1240	5	1185	3	1277	0	1505	0
S085	13) Air Compressor - Louver	1068	0	1246	0	1191	0	1280	0	1506	0
S107	1a1 - Raw material Receiving Blower x3	990	2	1155	1	1073	1	1119	1	1324	1
S111	1a2 - Raw and additive feed blower	969	3	1135	2	1057	2	1111	2	1326	2
S110	1a3 - Raw and additive feed blower	981	1	1145	1	1063	1	1109	1	1315	1
S109	1a4 - Raw and additive feed blower	992	2	1155	2	1069	2	1107	2	1305	2
S117	1a5 - Cleaning Blower	964	9	1130	8	1051	8	1105	8	1320	6
S116	1a6 - Cleaning Blower	975	9	1139	8	1057	8	1102	8	1309	6
S115	1a7 - Cleaning Blower	987	9	1149	7	1063	8	1100	8	1299	6
S098	2) Refrigerated Water - Louver	1038	0	1218	0	1168	0	1269	0	1508	0
S097	2) Refrigerated Water - Louver	1041	0	1220	0	1169	0	1267	0	1504	0
S096	2) Refrigerated Water - Louver	1044	0	1222	0	1170	0	1266	0	1500	0
S095	2) Refrigerated Water - Louver	1046	0	1224	0	1171	0	1265	0	1497	0
S094	2) Refrigerated Water - Louver	1048	0	1226	0	1172	0	1263	0	1494	0
S092	2) Refrigerated Water - Roof	1030	13	1206	12	1155	11	1250	8	1489	6
S093	2) Refrigerated Water - Walls	1030	2	1207	2	1156	1	1252	1	1488	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1077	16	1253	14	1194	15	1274	14	1491	13
S042	4) Waste Gas Absorption - Louver	1079	0	1251	0	1181	0	1241	4	1443	20
S043	4) Waste Gas Absorption - Louver	1062	0	1233	0	1162	0	1222	4	1426	18
S040	4) Waste Gas Absorption - Roof	1063	7	1243	5	1173	6	1230	3	1444	3
S041	4) Waste Gas Absorption - Walls	1064	11	1239	10	1173	10	1231	9	1443	10
S077a	60 MVA MVTX (NEMA-10) Core	1116	3	1297	5	1251	2	1351	2	1580	0
S076a	60 MVA MVTX (NEMA-10) Core	1123	3	1303	2	1253	2	1348	2	1572	1
S077b	60 MVA MVTX (NEMA-10) Fan	1116	8	1297	11	1251	7	1351	7	1580	0
S076b	60 MVA MVTX (NEMA-10) Fan	1123	8	1303	7	1253	7	1348	6	1572	5
S157	Air Handling Unit	941	11	1115	7	1054	7	1144	6	1388	6
S156	Air Handling Unit	944	11	1118	7	1055	7	1142	6	1384	6
S159	Air Handling Unit	913	17	1087	15	1026	11	1119	11	1370	9
S158	Air Handling Unit	916	17	1090	15	1027	11	1118	11	1366	9
S169	Air Handling Unit	893	17	1065	15	1000	16	1090	11	1342	9
S168	Air Handling Unit	896	17	1068	15	1002	11	1089	11	1338	9
S171	Air Handling Unit	867	17	1038	15	972	14	1062	11	1317	9
S170	Air Handling Unit	871	17	1042	15	974	12	1061	11	1314	9
S173	Air Handling Unit	841	18	1011	16	943	12	1033	12	1293	10
S150	Air Handling Unit	916	17	1085	15	1012	11	1085	11	1321	9
S151	Air Handling Unit	910	17	1079	15	1006	11	1078	11	1315	9
S172	Air Handling Unit	845	18	1014	16	944	12	1031	12	1289	10
S108	Air Handling Unit	972	1	1139	1	1063	1	1120	1	1337	0
S175	Air Handling Unit	819	18	988	16	918	12	1008	12	1273	10
S178	Air Handling Unit	794	18	962	16	893	13	989	12	1261	10

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Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S106	Air Handling Unit	996	2	1163	2	1085	2	1137	2	1345	2
S174	Air Handling Unit	823	18	991	16	920	12	1007	12	1269	10
S179	Air Handling Unit	789	18	957	16	887	13	983	12	1257	10
S105	Air Handling Unit	1000	2	1166	2	1087	2	1136	2	1342	2
S142	Air Handling Unit	918	17	1084	10	1006	11	1068	11	1296	9
S143	Air Handling Unit	912	15	1078	10	1000	11	1061	11	1290	9
S180	Air Handling Unit	764	16	930	12	858	12	954	12	1233	10
S120	Air Handling Unit	942	12	1107	10	1025	11	1077	11	1295	13
S176	Air Handling Unit	808	14	974	12	898	12	980	12	1241	10
S181	Air Handling Unit	758	14	924	12	851	12	947	12	1227	10
S123	Air Handling Unit	936	12	1100	10	1019	11	1070	11	1289	13
S177	Air Handling Unit	802	14	967	12	891	12	973	12	1236	10
S119	Air Handling Unit	950	12	1114	10	1030	11	1075	11	1287	13
S122	Air Handling Unit	944	12	1107	10	1023	11	1068	11	1281	13
S144	Air Handling Unit	859	13	1021	11	938	12	998	12	1237	10
S145	Air Handling Unit	854	13	1015	11	932	12	991	12	1231	10
S126	Air Handling Unit	897	12	1058	11	973	11	1023	11	1248	14
S118	Air Handling Unit	961	12	1123	10	1036	11	1074	11	1278	13
S121	Air Handling Unit	955	12	1117	10	1029	11	1066	11	1271	13
S125	Air Handling Unit	909	12	1069	10	980	11	1020	11	1237	14
S182	Air Handling Unit	696	19	857	16	779	17	875	17	1169	15
S183	Air Handling Unit	690	19	851	16	772	18	868	17	1164	15
S124	Air Handling Unit	917	12	1076	10	984	11	1019	12	1230	14
S138	Air Handling Unit	839	13	996	11	905	12	953	12	1188	14
S141	Air Handling Unit	833	13	990	11	899	12	945	12	1182	14
S137	Air Handling Unit	853	13	1008	11	913	12	950	12	1176	14
S148	Air Handling Unit	750	14	906	16	815	17	878	17	1143	15
S140	Air Handling Unit	847	13	1002	11	906	12	943	12	1170	14
S147	Air Handling Unit	755	14	910	16	817	17	877	17	1139	15
S136	Air Handling Unit	862	12	1015	11	918	12	948	14	1169	14
S139	Air Handling Unit	856	13	1009	11	911	12	941	12	1163	14
S044	Carbon Bed - 3x Blowers (Stack)	1080	12	1252	11	1185	11	1248	11	1452	10
S034	Coaguration tank ejection pump	1100	0	1272	0	1204	0	1266	2	1465	6
S062	Cooling Tower Louver	1047	3	1223	2	1164	2	1248	0	1473	0
S064	Cooling Tower Louver	1042	3	1218	2	1159	2	1243	0	1468	0
S066	Cooling Tower Louver	1037	3	1213	2	1154	2	1238	0	1464	0
S068	Cooling Tower Louver	1032	3	1208	2	1148	2	1233	0	1459	0
S061	Cooling Tower Louver	1049	0	1225	0	1165	0	1247	2	1469	1
S070	Cooling Tower Louver	1027	2	1203	2	1143	2	1227	0	1454	0
S063	Cooling Tower Louver	1045	0	1220	0	1160	0	1242	2	1465	1
S065	Cooling Tower Louver	1040	0	1215	0	1155	0	1236	2	1460	1
S072	Cooling Tower Louver	1022	2	1198	2	1138	2	1222	0	1450	0
S067	Cooling Tower Louver	1035	0	1210	0	1150	0	1231	2	1455	1
S069	Cooling Tower Louver	1030	0	1205	0	1144	0	1226	2	1451	1
S071	Cooling Tower Louver	1025	0	1200	0	1139	0	1221	2	1446	0
S053	Cooling Tower Top	1048	13	1224	11	1165	12	1247	11	1471	7
S054	Cooling Tower Top	1043	13	1219	11	1159	12	1242	11	1466	7
S055	Cooling Tower Top	1038	13	1214	11	1154	12	1237	11	1462	7
S056	Cooling Tower Top	1033	13	1209	11	1149	12	1232	11	1457	7

Project: Asahi Kasei Battery Separator Canada
Project Number: 24025.02

Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S057	Cooling Tower Top	1028	13	1204	11	1143	12	1226	11	1452	7
S058	Cooling Tower Top	1024	13	1199	11	1138	12	1221	11	1448	6
S073	Cooling water pump A	1043	23	1220	21	1163	21	1250	20	1477	4
S074	Cooling water pump B	1039	23	1215	21	1158	20	1245	20	1472	4
S075	Cooling water pump C	1034	23	1210	21	1152	20	1239	20	1468	4
S163	Dehumidifier Fan	901	11	1075	9	1015	9	1113	9	1368	7
S162	Dehumidifier Fan	907	11	1080	9	1018	9	1109	9	1359	7
S161	Dehumidifier Fan	914	11	1086	9	1021	9	1106	9	1351	7
S160	Dehumidifier Fan	921	10	1092	9	1024	9	1103	9	1342	7
S013	Distillation Column Reflex Pump	1111	5	1282	5	1210	6	1262	2	1453	7
S008	Distillation Pump 2	1115	9	1287	9	1216	17	1271	11	1464	16
ust Fan	Dryer	894	11	1068	9	1007	9	1095	9	1336	7
ust Fan	Dryer	900	11	1073	9	1010	9	1098	9	1344	7
ust Fan	Dryer	907	11	1079	9	1013	9	1101	9	1353	7
ust Fan	Dryer	915	11	1085	9	1016	9	1105	9	1361	7
S091	EF-046 Motor	1065	15	1242	13	1188	9	1277	9	1504	7
S090	EF-046 Stack	1065	16	1243	15	1188	12	1278	11	1504	9
S032	EM Feed Pump 2 A	1066	14	1236	9	1164	8	1221	4	1421	9
S031	EM Feed Pump 2 B	1071	14	1242	13	1171	8	1227	4	1427	10
S018	EM truck unloading pump	1084	5	1253	5	1177	1	1224	1	1415	6
S030	EML Feed Pump A	1075	0	1245	4	1174	2	1230	1	1430	2
S029	EML Feed Pump B	1079	0	1250	0	1179	2	1236	1	1435	3
S129	Exhaust Fan	861	10	1021	8	933	9	983	9	1215	7
S128	Exhaust Fan	874	9	1032	8	940	9	980	9	1203	7
S127	Exhaust Fan	888	9	1043	8	947	9	978	9	1192	7
S114b	Exhaust Fan Motor	967	1	1133	0	1055	0	1110	0	1326	0
S113b	Exhaust Fan Motor	980	1	1144	0	1062	0	1107	0	1314	0
S112b	Exhaust Fan Motor	991	1	1154	0	1068	0	1105	0	1304	0
S051	Exhaust Fan Motor - Aux 3	1077	11	1253	9	1193	10	1273	9	1491	6
S045	Exhaust Fan Motor - Aux 4	1079	11	1252	9	1184	9	1247	7	1451	7
S047	Exhaust Fan Motor - Aux 4	1072	4	1245	3	1177	3	1242	2	1448	2
S049	Exhaust Fan Motor - Aux 4	1057	4	1229	3	1161	3	1225	1	1433	1
S114a	Exhaust Fan Opening	967	1	1133	0	1055	0	1110	0	1326	0
S113a	Exhaust Fan Opening	980	0	1144	0	1062	0	1107	0	1314	0
S112a	Exhaust Fan Opening	992	0	1154	0	1069	0	1105	0	1303	0
S082	Exhaust Fan Short - Aux 12	1061	9	1241	8	1190	8	1288	7	1521	1
S146	Exhaust Fan Short - Machine Room	798	13	956	11	867	12	925	12	1176	9
S153	Exhaust Fan Short - Mezzanine	865	12	1031	8	955	8	1027	8	1272	6
S154	Exhaust Fan Short - Mezzanine	830	9	994	8	914	9	986	8	1237	6
S155	Exhaust Fan Short - Mezzanine	796	10	958	8	875	9	945	8	1203	7
S046	Exhaust Fan Stack - Aux 4	1073	4	1246	3	1178	3	1243	2	1449	2
S048	Exhaust Fan Stack - Aux 4	1058	3	1230	2	1162	3	1226	2	1434	1
S100	Exhaust Fan Stack- Aux 2	1028	16	1207	14	1155	15	1255	11	1493	9
S099	Exhaust Fan Stack- Aux 2	1033	16	1211	14	1157	15	1252	11	1487	9
S132	Exhaust From Buffer Zone	852	10	1011	8	922	9	971	9	1205	7
S135	Exhaust From Buffer Zone	844	10	1002	8	912	9	960	9	1196	7
S131	Exhaust From Buffer Zone	865	9	1022	8	929	9	968	9	1194	7
S134	Exhaust From Buffer Zone	856	10	1012	8	919	9	958	9	1184	7
S130	Exhaust From Buffer Zone	879	9	1033	8	937	9	966	9	1182	7

Project: Asahi Kasei Battery Separator Canada
Project Number: 24025.02

Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day	Distance to POR (m)	Sound Level at POR (dBA) Day
S133	Exhaust From Buffer Zone	871	9	1024	8	927	9	956	9	1173	7
S038	Filtrate solution pump	1093	0	1266	0	1201	0	1267	0	1471	0
S011	Flash Tank Bottom Pump	1114	0	1285	1	1214	1	1266	0	1457	1
S009	Flash Tank Drain Pump	1117	0	1289	1	1217	1	1269	0	1460	1
S010	Flash Tank Vacuum Pump	1117	7	1288	7	1216	7	1269	4	1460	9
S035	Flushing oil feed pump	1097	0	1270	0	1203	0	1266	0	1468	0
S016	LP feed pump A	1082	6	1252	5	1178	4	1230	1	1425	6
S017	LP feed pump B	1080	5	1250	5	1176	4	1228	1	1423	6
S019	LP truck unloading pump	1083	5	1252	5	1176	1	1223	1	1414	6
S012	Reboiler Circulation Pump	1109	6	1281	7	1209	12	1264	7	1457	12
S039	RLP Circulation 2nd Pump	1097	12	1271	11	1206	1	1272	1	1477	1
S037	RLP Circulation Pump	1100	1	1273	1	1207	1	1272	1	1474	1
S014	RLP feed pump A	1090	8	1260	6	1187	5	1239	2	1433	6
S015	RLP feed pump B	1088	8	1258	6	1185	4	1237	2	1431	6
S149	Roof Top Unit	953	1	1124	1	1055	1	1129	1	1361	0
S152	Roof Top Unit	878	11	1045	5	971	6	1043	5	1286	4
S184	Roof Top Unit	705	12	861	10	772	11	848	11	1131	8
S102	Roof Top Unit	835	3	980	3	871	5	883	11	1099	9
S103	Roof Top Unit	816	3	959	3	847	7	856	11	1077	9
S101	Roof Top Unit	823	6	964	10	849	12	850	11	1064	9
S104	Roof Top Unit	792	12	932	10	816	12	823	12	1049	9
S001a	T1 - 160 MVA HVTX (NEMA) Core	1232	25	1413	24	1362	19	1445	19	1648	21
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1232	16	1413	14	1362	10	1445	10	1648	12
S002a	T2 - 160 MVA HVTX (NEMA) Core	1260	25	1441	23	1391	19	1475	19	1675	21
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1260	16	1441	14	1391	10	1475	10	1675	12
S003a	T3 - 160 MVA HVTX (NEMA) Core	1287	25	1469	23	1420	19	1503	19	1701	21
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1287	15	1469	14	1420	10	1503	10	1701	12
S004a	T4 - 160 MVA HVTX (NEMA) Core	1316	24	1498	23	1450	19	1533	18	1728	21
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1316	15	1498	13	1450	10	1533	9	1728	12
S005a	T5 - 160 MVA HVTX (NEMA) Core	1344	24	1526	23	1479	18	1562	18	1755	21
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1344	15	1526	13	1479	9	1562	9	1755	11
S006a	T6 - 160 MVA HVTX (NEMA) Core	1372	24	1555	22	1508	18	1592	18	1782	20
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1372	14	1555	13	1508	9	1592	9	1782	11
S185	Truck Pass By	916	30	1076	28	1003	31	1062	32	1315	28
S033	VAC Truck	1051	19	1220	18	1147	16	1201	13	1403	15
S021	VAC Truck	1059	19	1227	17	1151	13	1200	13	1395	18
S023	Washed EM Feed Pump A	1090	1	1261	1	1190	6	1247	2	1445	6
S022	Washed EM Feed Pump B	1091	1	1262	1	1191	6	1248	2	1446	6
S007	Wastewater Blower Intake	1168	13	1342	12	1275	12	1331	12	1518	14
S025	WEM Feed Pump A	1086	4	1258	3	1187	5	1246	9	1445	16
S024	WEM Feed Pump B	1087	4	1259	3	1189	5	1247	9	1446	16
S028	WH Pump	1084	1	1255	1	1184	5	1241	2	1439	6
S036	WLP Booster Pump	1100	0	1273	0	1206	0	1270	0	1472	0
S020	WO truck loading pump	1082	5	1251	4	1175	1	1222	1	1413	6
S027	WS Feed Pump A	1084	4	1256	3	1185	5	1243	9	1443	16
S026	WS Feed Pump B	1085	4	1257	3	1186	5	1245	9	1444	16
Total Level [dBA]			38		36		36		36		35

Receiver: R06

Project: Asahi Kasei Battery Separator Canada

Project Number: 24025.02

Time Period	Total (dBA)*
Day	39

Receiver Name	Receiver ID	X	Y	Z
R06	R06	645018 m	4756515 m	180.9 m

Source ID	Source Name	X	Y	Z	Ref.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S084	10 MVA Transformer	644966.8	4757220.2	188.5	0	85	0.0	A	68.0	0.0	-1.5	0.0	1.9	0.0	0.0	0.0	0.0	0.0	17
S084	10 MVA Transformer	644966.8	4757220.2	188.5	1	85	0.0	A	68.1	0.0	-1.6	0.0	1.9	0.0	0.0	0.0	0.0	0.6	16
S083	10 MVA Transformer	644959.8	4757219.9	188.5	0	85	0.0	A	68.0	0.0	-1.5	0.0	1.9	0.0	0.0	0.0	0.0	0.0	17
S083	10 MVA Transformer	644959.8	4757219.9	188.5	1	85	0.0	A	68.1	0.0	-1.6	0.0	1.9	0.0	0.0	0.0	0.0	0.6	16
S088	13) Air Compressor - Louver	644971.7	4757256.8	190.5	0	75	3.0	A	68.4	3.0	0.2	2.4	0.6	0.0	0.0	0.0	7.5	0.0	17
S088	13) Air Compressor - Louver	644971.7	4757256.8	191.5	0	75	3.0	A	68.4	3.0	0.3	0.0	0.6	0.0	0.0	0.0	7.7	0.0	19
S087	13) Air Compressor - Louver	644969.0	4757256.7	191.5	0	75	3.0	A	68.4	3.0	0.3	0.0	0.6	0.0	0.0	0.0	7.7	0.0	19
S087	13) Air Compressor - Louver	644969.0	4757256.7	190.5	0	75	3.0	A	68.4	3.0	0.2	3.3	0.6	0.0	0.0	0.0	7.5	0.0	16
S050	3) Gas Boiler - Boiler Package (3x Boilers)	644967.7	4757289.5	196.0	0	88	0.0	A	68.8	0.0	-3.3	0.6	0.3	0.0	0.0	0.0	0.0	0.0	22
S077b	60 MVA MVTX (NEMA-10) Fan	644902.3	4757225.6	190.0	0	85	0.0	A	68.2	0.0	-1.7	0.0	2.4	0.0	0.0	0.0	0.0	0.0	16
S077b	60 MVA MVTX (NEMA-10) Fan	644902.3	4757225.6	190.0	1	85	0.0	A	68.3	0.0	-1.8	0.0	2.4	0.0	0.0	0.0	0.0	0.5	16
S159	Air Handling Unit	645133.3	4757257.8	201.1	0	89	0.0	A	68.5	0.0	-0.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S157	Air Handling Unit	645106.0	4757265.8	196.5	0	89	0.0	A	68.6	0.0	-0.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S158	Air Handling Unit	645133.1	4757265.1	201.1	0	89	0.0	A	68.6	0.0	-0.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S156	Air Handling Unit	645105.8	4757272.4	196.5	0	89	0.0	A	68.6	0.0	-0.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S169	Air Handling Unit	645160.5	4757268.6	201.1	0	89	0.0	A	68.7	0.0	-0.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S171	Air Handling Unit	645189.7	4757269.8	201.1	0	89	0.0	A	68.8	0.0	-0.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S168	Air Handling Unit	645160.2	4757275.9	201.1	0	89	0.0	A	68.8	0.0	-0.5	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S170	Air Handling Unit	645189.0	4757277.0	201.1	0	89	0.0	A	68.9	0.0	-0.5	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S173	Air Handling Unit	645219.5	4757270.1	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	18
S178	Air Handling Unit	645267.9	4757260.1	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S179	Air Handling Unit	645273.7	4757260.3	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S172	Air Handling Unit	645219.2	4757277.5	197.0	0	89	0.0	A	68.9	0.0	-0.8	2.7	2.4	0.0	0.0	0.0	0.0	0.0	15
S175	Air Handling Unit	645244.4	4757270.8	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S174	Air Handling Unit	645244.1	4757278.3	197.0	0	89	0.0	A	69.0	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S180	Air Handling Unit	645303.6	4757261.9	197.0	0	89	0.0	A	69.1	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S181	Air Handling Unit	645310.8	4757262.2	197.0	0	89	0.0	A	69.1	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S176	Air Handling Unit	645269.0	4757290.8	197.0	0	89	0.0	A	69.2	0.0	-0.9	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S177	Air Handling Unit	645276.1	4757291.0	197.0	0	89	0.0	A	69.3	0.0	-0.9	0.0	2.4	0.0	0.0	0.0	0.0	0.0	18
S182	Air Handling Unit	645385.3	4757264.9	201.1	0	89	0.0	A	69.4	0.0	-0.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	17
S183	Air Handling Unit	645392.5	4757265.1	201.1	0	89	0.0	A	69.5	0.0	-0.5	0.0	2.5	0.0	0.0	0.0	0.0	0.0	17
S108	Air Handling Unit	645112.9	4757348.0	201.1	0	89	0.0	A	69.5	0.0	-0.7	0.0	2.5	0.0	0.0	0.0	0.0	0.0	17
S106	Air Handling Unit	645093.7	4757362.9	201.1	0	89	0.0	A	69.6	0.0	-0.7	0.0	2.5	0.0	0.0	0.0	0.0	0.0	17
S144	Air Handling Unit	645239.0	4757338.8	201.1	0	89	0.0	A	69.6	0.0	-0.7	0.0	2.5	0.0	0.0	0.0	0.0	0.0	17
S145	Air Handling Unit	645245.8	4757339.4	201.1	0	89	0.0	A	69.6	0.0	-0.7	0.0	2.5	0.0	0.0	0.0	0.0	0.0	17
S105	Air Handling Unit	645093.5	4757370.0	201.1	0	89	0.0	A	69.7	0.0	-0.7	0.0	2.5	0.0	0.0	0.0	0.0	0.0	17
S138	Air Handling Unit	645280.4	4757364.6	201.1	0	89	0.0	A	70.0	0.0	-0.8	0.0	2.6	0.0	0.0	0.0	0.0	0.0	17
S141	Air Handling Unit	645287.6	4757364.9	201.1	0	89	0.0	A	70.0	0.0	-0.8	0.0	2.6	0.0	0.0	0.0	0.0	0.0	17
S044	Carbon Bed - 3x Blowers (Stack)	644985.8	4757336.5	201.0	0	96	0.0	A	69.3	0.0	0.1	0.0	6.4	0.0	0.0	0.0	-1.4	0.0	18
S070	Cooling Tower Louver	645017.5	4757278.6	189.3	0	75	5.6	A	68.7	0.0	-1.6	0.0	3.1	0.0	0.0	0.0	4.9	0.0	16
S070	Cooling Tower Louver	645017.5	4757278.6	191.3	0	75	5.6	A	68.7	0.0	-1.3	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S070	Cooling Tower Louver	645017.5	4757278.6	190.3	0	75	5.6	A	68.7	0.0	-1.5	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S072	Cooling Tower Louver	645022.8	4757278.8	190.3	0	75	5.6	A	68.7	0.0	-1.5	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S072	Cooling Tower Louver	645022.8	4757278.8	191.3	0	75	5.6	A	68.7	0.0	-1.3	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S072	Cooling Tower Louver	645022.8	4757278.8	189.3	0	75	5.6	A	68.7	0.0	-1.6	0.0	3.1	0.0	0.0	0.0	4.9	0.0	16

Receiver: R06
 Project: Asahi Kasei Battery Separator Canada
 Project Number: 24025.02

Time Period	Total (dBA)*
Day	39

Receiver Name	Receiver ID	X	Y	Z
R06	R06	645018 m	4756515 m	180.9 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S057	Cooling Tower Top	645017.6	4757282.2	192.0	0	96	0.0	A	68.7	0.0	-1.3	4.6	4.6	0.0	0.0	0.0	-4.0	0.0	15
S058	Cooling Tower Top	645022.7	4757282.4	192.0	0	96	0.0	A	68.7	0.0	-1.3	4.6	4.6	0.0	0.0	0.0	-4.0	0.0	15
S008	Distillation Pump 2	644958.2	4757360.4	187.2	0	99	0.0	A	69.6	0.0	-2.4	4.8	4.2	0.0	0.0	0.0	0.0	0.0	23
S091	EF-046 Motor	644970.0	4757261.1	197.0	0	90	0.0	A	68.5	0.0	-1.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	18
S090	EF-046 Stack	644969.5	4757261.1	199.0	0	89	0.0	A	68.5	0.0	1.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	19
S114b	Exhaust Fan Motor	645122.4	4757353.7	208.1	0	90	0.0	A	69.5	0.0	-0.7	0.0	4.8	0.0	0.0	0.0	0.0	0.0	16
S113b	Exhaust Fan Motor	645121.6	4757378.3	208.1	0	90	0.0	A	69.8	0.0	-0.7	0.0	4.9	0.0	0.0	0.0	0.0	0.0	16
S112b	Exhaust Fan Motor	645120.9	4757399.4	208.1	0	90	0.0	A	70.0	0.0	-0.8	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S045	Exhaust Fan Motor - Aux 4	644986.4	4757336.4	199.0	0	90	0.0	A	69.3	0.0	-1.1	0.0	4.8	0.0	0.0	0.0	0.0	0.0	17
S082	Exhaust Fan Short - Aux 12	644964.7	4757237.2	192.0	0	90	0.0	A	68.2	0.0	-1.5	0.0	4.4	0.0	0.0	0.0	0.0	0.0	19
S146	Exhaust Fan Short - Machine Room	645313.5	4757340.4	200.6	0	90	0.0	A	69.9	0.0	-1.1	0.0	4.9	0.0	0.0	0.0	0.0	0.0	16
S100	Exhaust Fan Stack- Aux 2	644999.3	4757235.6	197.0	0	88	0.0	A	68.2	0.0	1.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	18
S099	Exhaust Fan Stack- Aux 2	644999.0	4757247.1	197.0	0	88	0.0	A	68.3	0.0	1.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	18
S012	Reboiler Circulation Pump	644965.8	4757362.6	187.2	0	95	0.0	A	69.6	0.0	-2.4	4.8	4.2	0.0	0.0	0.0	0.0	0.0	19
S001a	T1 - 160 MVA HVTX (NEMA) Core	644796.2	4757274.0	192.9	0	99	0.0	A	69.0	0.0	-0.1	3.7	2.1	0.0	0.0	0.0	0.0	0.0	24
S001b	T1 - 160 MVA HVTX (NEMA) Fan	644796.2	4757274.0	192.9	0	90	0.0	A	69.0	0.0	-0.5	4.0	2.6	0.0	0.0	0.0	0.0	0.0	15
S002a	T2 - 160 MVA HVTX (NEMA) Core	644766.2	4757273.3	193.2	0	99	0.0	A	69.1	0.0	-0.1	4.4	2.1	0.0	0.0	0.0	0.0	0.0	24
S003a	T3 - 160 MVA HVTX (NEMA) Core	644737.5	4757272.1	193.4	0	99	0.0	A	69.1	0.0	0.1	4.3	2.1	0.0	0.0	0.0	0.0	0.0	23
S004a	T4 - 160 MVA HVTX (NEMA) Core	644707.1	4757271.4	193.6	0	99	0.0	A	69.3	0.0	0.3	4.3	2.1	0.0	0.0	0.0	0.0	0.0	23
S005a	T5 - 160 MVA HVTX (NEMA) Core	644677.7	4757270.5	193.8	0	99	0.0	A	69.4	0.0	0.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	23
S006a	T6 - 160 MVA HVTX (NEMA) Core	644647.8	4757269.6	193.9	0	99	0.0	A	69.5	0.0	0.2	4.3	2.2	0.0	0.0	0.0	0.0	0.0	23
S185	Truck Pass By	645046.3	4757374.2	188.6	0	70	25.2	A	69.7	0.0	-1.9	4.7	2.6	0.0	0.0	0.0	0.0	0.0	21
S185	Truck Pass By	645048.3	4757192.0	188.6	0	70	14.8	A	67.6	0.0	-1.4	0.0	2.2	0.0	0.0	0.0	0.0	0.0	17
S185	Truck Pass By	645752.2	4757366.3	188.4	0	70	19.0	A	72.0	0.0	-1.6	0.0	3.2	0.0	0.0	0.0	0.0	0.0	16
S033	VAC Truck	645029.4	4757359.0	188.1	0	104	0.0	A	69.5	0.0	-2.3	4.7	3.6	0.0	0.0	0.0	0.0	0.0	29
S021	VAC Truck	645028.7	4757375.1	188.1	0	104	0.0	A	69.7	0.0	-2.3	4.7	3.6	0.0	0.0	0.0	0.0	0.0	29
S007	Wastewater Blower Intake	644898.2	4757358.4	195.0	0	93	0.0	A	69.6	0.0	-0.7	0.0	3.9	0.0	0.0	0.0	0.0	0.0	20

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Receiver: R06g
 Project: Asahi Kasei Battery Separator Canada
 Project Number: 24025.02

Time Period	Total (dBA)*
Day	38

Receiver Name	Receiver ID	X	Y	Z
R06g	R06g	645028 m	4756543 m	178.1 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S088	13) Air Compressor - Louver	644971.7	4757256.8	190.5	0	75	3.0	A	68.1	3.0	2.6	1.0	0.6	0.0	0.0	0.0	7.2	0.0	16
S088	13) Air Compressor - Louver	644971.7	4757256.8	191.5	0	75	3.0	A	68.1	3.0	2.7	0.5	0.6	0.0	0.0	0.0	7.2	0.0	16
S087	13) Air Compressor - Louver	644969.0	4757256.7	190.5	0	75	3.0	A	68.1	3.0	2.6	1.6	0.6	0.0	0.0	0.0	7.2	0.0	15
S050	3) Gas Boiler - Boiler Package (3x Boilers)	644967.7	4757289.5	196.0	0	88	0.0	A	68.5	0.0	-3.4	0.5	0.3	0.0	0.0	0.0	0.0	0.0	23
S159	Air Handling Unit	645133.3	4757257.8	201.1	0	89	0.0	A	68.2	0.0	2.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	16
S157	Air Handling Unit	645106.0	4757265.8	196.5	0	89	0.0	A	68.2	0.0	2.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	16
S158	Air Handling Unit	645133.1	4757265.1	201.1	0	89	0.0	A	68.3	0.0	2.5	0.0	2.2	0.0	0.0	0.0	0.0	0.0	16
S156	Air Handling Unit	645105.8	4757272.4	196.5	0	89	0.0	A	68.3	0.0	2.1	0.0	2.2	0.0	0.0	0.0	0.0	0.0	16
S169	Air Handling Unit	645160.5	4757268.6	201.1	0	89	0.0	A	68.4	0.0	2.4	0.0	2.2	0.0	0.0	0.0	0.0	0.0	16
S171	Air Handling Unit	645189.7	4757269.8	201.1	0	89	0.0	A	68.4	0.0	2.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S168	Air Handling Unit	645160.2	4757275.9	201.1	0	89	0.0	A	68.4	0.0	2.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S170	Air Handling Unit	645189.0	4757277.0	201.1	0	89	0.0	A	68.5	0.0	2.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S173	Air Handling Unit	645219.5	4757270.1	197.0	0	89	0.0	A	68.5	0.0	2.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	16
S178	Air Handling Unit	645267.9	4757260.1	197.0	0	89	0.0	A	68.6	0.0	2.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	16
S179	Air Handling Unit	645273.7	4757260.3	197.0	0	89	0.0	A	68.6	0.0	2.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	16
S175	Air Handling Unit	645244.4	4757270.8	197.0	0	89	0.0	A	68.6	0.0	2.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	16
S174	Air Handling Unit	645244.1	4757278.3	197.0	0	89	0.0	A	68.7	0.0	2.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	16
S180	Air Handling Unit	645303.6	4757261.9	197.0	0	89	0.0	A	68.7	0.0	2.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S181	Air Handling Unit	645310.8	4757262.2	197.0	0	89	0.0	A	68.8	0.0	2.1	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S176	Air Handling Unit	645269.0	4757290.8	197.0	0	89	0.0	A	68.9	0.0	2.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	15
S177	Air Handling Unit	645276.1	4757291.0	197.0	0	89	0.0	A	68.9	0.0	2.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	15
S044	Carbon Bed - 3x Blowers (Stack)	644985.8	4757336.5	201.0	0	96	0.0	A	69.0	0.0	3.6	0.0	6.4	0.0	0.0	0.0	-1.3	0.0	15
S008	Distillation Pump 2	644958.2	4757360.4	187.2	0	99	0.0	A	69.3	0.0	-1.4	7.8	4.1	0.0	0.0	0.0	0.0	0.0	19
S091	EF-046 Motor	644970.0	4757261.1	197.0	0	90	0.0	A	68.2	0.0	1.6	0.0	4.4	0.0	0.0	0.0	0.0	0.0	16
S090	EF-046 Stack	644969.5	4757261.1	199.0	0	89	0.0	A	68.2	0.0	3.7	0.0	0.8	0.0	0.0	0.0	0.0	0.0	17
S082	Exhaust Fan Short - Aux 12	644964.7	4757237.2	192.0	0	90	0.0	A	67.9	0.0	1.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	17
S100	Exhaust Fan Stack- Aux 2	644999.3	4757235.6	197.0	0	88	0.0	A	67.8	0.0	3.5	0.0	0.9	0.0	0.0	0.0	0.0	0.0	16
S099	Exhaust Fan Stack- Aux 2	644999.0	4757247.1	197.0	0	88	0.0	A	68.0	0.0	3.5	0.0	0.9	0.0	0.0	0.0	0.0	0.0	16
S012	Reboiler Circulation Pump	644965.8	4757362.6	187.2	0	95	0.0	A	69.3	0.0	-1.4	4.5	4.1	0.0	0.0	0.0	0.0	0.0	19
S001a	T1 - 160 MVA HVTX (NEMA) Core	644796.2	4757274.0	192.9	0	99	0.0	A	68.7	0.0	3.0	1.7	2.0	0.0	0.0	0.0	0.0	0.0	24
S002a	T2 - 160 MVA HVTX (NEMA) Core	644766.2	4757273.3	193.2	0	99	0.0	A	68.8	0.0	3.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	23
S003a	T3 - 160 MVA HVTX (NEMA) Core	644737.5	4757272.1	193.4	0	99	0.0	A	68.9	0.0	3.2	2.0	2.1	0.0	0.0	0.0	0.0	0.0	23
S004a	T4 - 160 MVA HVTX (NEMA) Core	644707.1	4757271.4	193.6	0	99	0.0	A	69.0	0.0	3.4	1.8	2.1	0.0	0.0	0.0	0.0	0.0	23
S005a	T5 - 160 MVA HVTX (NEMA) Core	644677.7	4757270.5	193.8	0	99	0.0	A	69.1	0.0	3.4	1.8	2.1	0.0	0.0	0.0	0.0	0.0	23
S006a	T6 - 160 MVA HVTX (NEMA) Core	644647.8	4757269.6	193.9	0	99	0.0	A	69.3	0.0	3.4	1.8	2.1	0.0	0.0	0.0	0.0	0.0	22
S185	Truck Pass By	645046.3	4757374.2	188.6	0	70	25.2	A	69.4	0.0	1.0	3.1	2.5	0.0	0.0	0.0	0.0	0.0	20
S033	VAC Truck	645029.4	4757359.0	188.1	0	104	0.0	A	69.2	0.0	-0.4	3.9	3.5	0.0	0.0	0.0	0.0	0.0	28
S021	VAC Truck	645028.7	4757375.1	188.1	0	104	0.0	A	69.4	0.0	-0.4	4.0	3.5	0.0	0.0	0.0	0.0	0.0	28
S007	Wastewater Blower Intake	644898.2	4757358.4	195.0	0	93	0.0	A	69.3	0.0	2.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	18

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Receiver: R23

Project: Asahi Kasei Battery Separator Canada

Project Number: 24025.02

Time Period	Total (dBA)*
Day	42

Receiver Name	Receiver ID	X	Y	Z
R23	R23	644211 m	4757430 m	189.5 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S095	2) Refrigerated Water - Louver	644985.6	4757250.1	191.5	0	81	3.0	A	69.0	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.1	0.0	22
S095	2) Refrigerated Water - Louver	644985.6	4757250.1	190.5	0	81	3.0	A	69.0	3.0	-2.3	4.8	1.5	0.0	0.0	0.0	8.1	0.0	22
S096	2) Refrigerated Water - Louver	644985.7	4757243.9	190.5	0	81	3.0	A	69.0	3.0	-2.2	4.9	1.5	0.0	0.0	0.0	8.0	0.0	22
S096	2) Refrigerated Water - Louver	644985.7	4757243.9	191.5	0	81	3.0	A	69.0	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.0	0.0	22
S097	2) Refrigerated Water - Louver	644985.9	4757235.8	190.5	0	81	3.0	A	69.0	3.0	-2.3	4.9	1.5	0.0	0.0	0.0	8.0	0.0	22
S097	2) Refrigerated Water - Louver	644985.9	4757235.8	191.5	0	81	3.0	A	69.0	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.0	0.0	22
S098	2) Refrigerated Water - Louver	644986.1	4757229.0	191.5	0	81	3.0	A	69.1	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.0	0.0	22
S098	2) Refrigerated Water - Louver	644986.1	4757229.0	190.5	0	81	3.0	A	69.1	3.0	-2.3	4.9	1.5	0.0	0.0	0.0	8.0	0.0	22
S050	3) Gas Boiler - Boiler Package (3x Boilers)	644967.7	4757289.5	196.0	0	88	0.0	A	68.7	0.0	-3.5	4.7	0.3	0.0	0.0	0.0	0.0	0.0	18
S105	Air Handling Unit	645093.5	4757370.0	201.1	0	89	0.0	A	69.9	0.0	-1.2	0.0	2.6	0.0	0.0	0.0	0.0	0.0	17
S106	Air Handling Unit	645093.7	4757362.9	201.1	0	89	0.0	A	69.9	0.0	-1.4	0.0	2.6	0.0	0.0	0.0	0.0	0.0	17
S108	Air Handling Unit	645112.9	4757348.0	201.1	0	89	0.0	A	70.1	0.0	-1.6	0.0	2.6	0.0	0.0	0.0	0.0	0.0	17
S158	Air Handling Unit	645133.1	4757265.1	201.1	0	89	0.0	A	70.4	0.0	-2.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	17
S159	Air Handling Unit	645133.3	4757257.8	201.1	0	89	0.0	A	70.4	0.0	-2.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	17
S150	Air Handling Unit	645156.2	4757310.4	201.1	0	89	0.0	A	70.6	0.0	-2.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	17
S151	Air Handling Unit	645163.0	4757310.5	201.1	0	89	0.0	A	70.6	0.0	-2.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	17
S168	Air Handling Unit	645160.2	4757275.9	201.1	0	89	0.0	A	70.7	0.0	-2.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	17
S142	Air Handling Unit	645168.4	4757336.4	201.1	0	89	0.0	A	70.7	0.0	-1.8	0.0	2.8	0.0	0.0	0.0	0.0	0.0	17
S169	Air Handling Unit	645160.5	4757268.6	201.1	0	89	0.0	A	70.7	0.0	-2.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	17
S170	Air Handling Unit	645189.0	4757277.0	201.1	0	89	0.0	A	70.9	0.0	-2.1	0.0	2.8	0.0	0.0	0.0	0.0	0.0	17
S171	Air Handling Unit	645189.7	4757269.8	201.1	0	89	0.0	A	70.9	0.0	-2.1	0.0	2.8	0.0	0.0	0.0	0.0	0.0	17
S044	Carbon Bed - 3x Blowers (Stack)	644985.8	4757336.5	201.0	0	96	0.0	A	68.8	0.0	-1.0	0.0	6.4	0.0	0.0	0.0	-1.4	0.0	20
S053	Cooling Tower Top	644996.1	4757281.5	192.0	0	96	0.0	A	69.0	0.0	-2.4	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S054	Cooling Tower Top	645001.6	4757281.7	192.0	0	96	0.0	A	69.1	0.0	-2.4	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S055	Cooling Tower Top	645006.8	4757281.9	192.0	0	96	0.0	A	69.2	0.0	-2.4	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S056	Cooling Tower Top	645012.2	4757282.1	192.0	0	96	0.0	A	69.2	0.0	-2.5	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S057	Cooling Tower Top	645017.6	4757282.2	192.0	0	96	0.0	A	69.3	0.0	-2.5	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	15
S058	Cooling Tower Top	645022.7	4757282.4	192.0	0	96	0.0	A	69.3	0.0	-2.5	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	15
S073	Cooling water pump A	644996.2	4757269.9	188.3	0	101	0.0	A	69.1	0.0	-3.2	4.8	4.0	0.0	0.0	0.0	0.0	0.0	27
S074	Cooling water pump B	645001.4	4757270.2	188.3	0	101	0.0	A	69.1	0.0	-3.2	4.8	4.0	0.0	0.0	0.0	0.0	0.0	27
S075	Cooling water pump C	645006.8	4757270.3	188.3	0	101	0.0	A	69.2	0.0	-3.2	4.8	4.0	0.0	0.0	0.0	0.0	0.0	27
S008	Distillation Pump 2	644958.2	4757360.4	187.2	0	99	0.0	A	68.5	0.0	-3.0	4.8	3.8	0.0	0.0	0.0	0.0	0.0	25
S090	EF-046 Stack	644969.5	4757261.1	199.0	0	89	0.0	A	68.8	0.0	-0.3	0.0	0.8	0.0	0.0	0.0	0.0	0.0	20
S032	EM Feed Pump 2 A	645010.5	4757354.8	187.2	0	95	0.0	A	69.1	0.0	-3.1	4.8	4.0	0.0	0.0	0.0	0.0	0.0	20
S031	EM Feed Pump 2 B	645003.7	4757354.3	187.2	0	95	0.0	A	69.0	0.0	-3.1	4.8	4.0	0.0	0.0	0.0	0.0	0.0	20
S112b	Exhaust Fan Motor	645120.9	4757399.4	208.1	0	90	0.0	A	70.2	0.0	-1.3	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S113b	Exhaust Fan Motor	645121.6	4757378.3	208.1	0	90	0.0	A	70.2	0.0	-1.3	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S114b	Exhaust Fan Motor	645122.4	4757353.7	208.1	0	90	0.0	A	70.2	0.0	-1.5	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S045	Exhaust Fan Motor - Aux 4	644986.4	4757336.4	199.0	0	90	0.0	A	68.8	0.0	-2.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	19
S012	Reboiler Circulation Pump	644965.8	4757362.6	187.2	0	95	0.0	A	68.6	0.0	-2.9	4.8	3.8	0.0	0.0	0.0	0.0	0.0	21
S039	RLP Circulation 2nd Pump	644962.3	4757326.9	187.2	0	91	0.0	A	68.6	0.0	-3.3	4.8	3.8	0.0	0.0	0.0	0.0	0.0	17
S037	RLP Circulation Pump	644962.0	4757332.5	187.2	0	91	0.0	A	68.6	0.0	-3.3	4.8	3.8	0.0	0.0	0.0	0.0	0.0	17
S001a	T1 - 160 MVA HVTX (NEMA) Core	644796.2	4757274.0	192.9	0	99	0.0	A	66.6	0.0	-1.9	4.7	1.7	0.0	0.0	0.0	0.0	0.0	28
S001b	T1 - 160 MVA HVTX (NEMA) Fan	644796.2	4757274.0	192.9	0	90	0.0	A	66.6	0.0	-2.2	4.8	2.0	0.0	0.0	0.0	0.0	0.0	19
S002a	T2 - 160 MVA HVTX (NEMA) Core	644766.2	4757273.3	193.2	0	99	0.0	A	66.2	0.0	-1.8	4.7	1.6	0.0	0.0	0.0	0.0	0.0	28

Receiver: R23

Project: Asahi Kasei Battery Separator Canada

Project Number: 24025.02

Time Period	Total (dBA)*
Day	42

Receiver Name	Receiver ID	X	Y	Z
R23	R23	644211 m	4757430 m	189.5 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S002b	T2 - 160 MVA HVTX (NEMA) Fan	644766.2	4757273.3	193.2	0	90	0.0	A	66.2	0.0	-2.1	4.8	1.9	0.0	0.0	0.0	0.0	0.0	19
S003a	T3 - 160 MVA HVTX (NEMA) Core	644737.5	4757272.1	193.4	0	99	0.0	A	65.8	0.0	-1.7	4.7	1.5	0.0	0.0	0.0	0.0	0.0	29
S003b	T3 - 160 MVA HVTX (NEMA) Fan	644737.5	4757272.1	193.4	0	90	0.0	A	65.8	0.0	-1.9	4.7	1.9	0.0	0.0	0.0	0.0	0.0	20
S004a	T4 - 160 MVA HVTX (NEMA) Core	644707.1	4757271.4	193.6	0	99	0.0	A	65.3	0.0	-1.4	4.6	1.5	0.0	0.0	0.0	0.0	0.0	29
S004b	T4 - 160 MVA HVTX (NEMA) Fan	644707.1	4757271.4	193.6	0	90	0.0	A	65.3	0.0	-1.7	4.7	1.8	0.0	0.0	0.0	0.0	0.0	20
S005a	T5 - 160 MVA HVTX (NEMA) Core	644677.7	4757270.5	193.8	0	99	0.0	A	64.9	0.0	-1.2	4.6	1.4	0.0	0.0	0.0	0.0	0.0	29
S005b	T5 - 160 MVA HVTX (NEMA) Fan	644677.7	4757270.5	193.8	0	90	0.0	A	64.9	0.0	-1.5	4.7	1.7	0.0	0.0	0.0	0.0	0.0	20
S006a	T6 - 160 MVA HVTX (NEMA) Core	644647.8	4757269.6	193.9	0	99	0.0	A	64.3	0.0	-0.9	4.5	1.3	0.0	0.0	0.0	0.0	0.0	30
S006b	T6 - 160 MVA HVTX (NEMA) Fan	644647.8	4757269.6	193.9	0	90	0.0	A	64.3	0.0	-1.2	4.7	1.6	0.0	0.0	0.0	0.0	0.0	21
S185	Truck Pass By	645045.9	4757391.7	188.6	0	70	19.9	A	69.4	0.0	-2.3	4.8	2.6	0.0	0.0	0.0	0.0	0.0	16
S185	Truck Pass By	645043.6	4757490.9	188.6	0	70	20.0	A	69.4	0.0	-2.3	0.0	2.6	0.0	0.0	0.0	0.0	0.0	21
S185	Truck Pass By	645213.9	4757581.6	188.6	0	70	24.6	A	71.1	0.0	-2.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	23
S185	Truck Pass By	645578.3	4757578.6	188.4	0	70	24.3	A	73.8	0.0	-2.6	0.0	3.7	0.0	0.0	0.0	0.0	0.0	20
S021	VAC Truck	645028.7	4757375.1	188.1	0	104	0.0	A	69.3	0.0	-2.6	4.6	3.5	0.0	0.0	0.0	0.0	0.0	30
S021	VAC Truck	645028.7	4757375.1	188.1	1	104	0.0	A	70.2	0.0	-2.8	4.8	3.8	0.0	0.0	0.0	0.0	11.4	17
S033	VAC Truck	645029.4	4757359.0	188.1	0	104	0.0	A	69.3	0.0	-2.9	4.8	3.5	0.0	0.0	0.0	0.0	0.0	30
S033	VAC Truck	645029.4	4757359.0	188.1	1	104	0.0	A	70.2	0.0	-2.9	4.8	3.8	0.0	0.0	0.0	0.0	11.5	17
S007	Wastewater Blower Intake	644898.2	4757358.4	195.0	0	93	0.0	A	67.8	0.0	-1.0	4.6	3.6	0.0	0.0	0.0	0.0	0.0	18
S025	WEM Feed Pump A	644985.7	4757350.9	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25
S024	WEM Feed Pump B	644984.3	4757350.9	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25
S027	WS Feed Pump A	644987.9	4757351.3	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25
S026	WS Feed Pump B	644986.7	4757351.2	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Project: Asahi Kasei Battery Separator Canada
Project Number: 24025.02

Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	829	4	654	3	628	3	766	2	763	2
S080	1.5 MVA Transformer	832	4	657	3	631	3	769	2	766	2
S079	1.5 MVA Transformer	835	4	660	3	634	3	772	2	768	2
S078	1.5 MVA Transformer	837	4	663	3	637	3	775	2	771	2
S083	10 MVA Transformer	821	18	644	15	618	15	756	13	752	13
S084	10 MVA Transformer	824	18	645	15	619	15	757	13	752	13
S089	13) Air Compressor - Louver	863	17	684	6	658	7	796	5	791	6
S087	13) Air Compressor - Louver	859	18	681	18	655	19	793	17	789	17
S086	13) Air Compressor - Louver	860	12	683	8	657	9	795	7	791	7
S088	13) Air Compressor - Louver	860	19	682	18	655	19	794	17	789	17
S085	13) Air Compressor - Louver	864	12	687	8	661	9	799	7	795	7
S107	1a1 - Raw material Receiving Blower x3	1025	9	824	9	796	9	934	8	923	8
S111	1a2 - Raw and additive feed blower	1011	11	806	11	778	12	915	10	903	10
S110	1a3 - Raw and additive feed blower	1030	9	827	8	799	9	936	7	925	7
S109	1a4 - Raw and additive feed blower	1049	11	847	11	819	11	956	10	945	10
S117	1a5 - Cleaning Blower	1015	9	809	9	781	9	918	7	906	7
S116	1a6 - Cleaning Blower	1034	8	829	8	802	9	939	7	927	7
S115	1a7 - Cleaning Blower	1053	8	850	8	822	8	959	7	948	7
S098	2) Refrigerated Water - Louver	839	17	655	12	629	12	767	10	762	10
S097	2) Refrigerated Water - Louver	846	17	662	12	636	12	774	10	769	10
S096	2) Refrigerated Water - Louver	853	17	670	12	644	12	782	10	777	9
S095	2) Refrigerated Water - Louver	859	17	676	11	650	11	788	10	783	9
S094	2) Refrigerated Water - Louver	864	16	682	11	656	11	794	10	789	9
S092	2) Refrigerated Water - Roof	860	14	669	13	643	13	781	11	775	11
S093	2) Refrigerated Water - Walls	860	2	669	3	642	3	781	2	775	2
S050	3) Gas Boiler - Boiler Package (3x Boilers)	890	22	714	23	688	24	826	22	822	21
S042	4) Waste Gas Absorption - Louver	949	0	771	0	745	0	883	0	878	0
S043	4) Waste Gas Absorption - Louver	957	0	774	0	747	0	886	0	879	0
S040	4) Waste Gas Absorption - Roof	941	8	761	9	736	9	874	8	866	8
S041	4) Waste Gas Absorption - Walls	942	6	760	6	734	6	872	6	866	7
S077a	60 MVA MVTX (NEMA-10) Core	808	10	648	9	623	8	760	8	760	8
S076a	60 MVA MVTX (NEMA-10) Core	825	4	665	4	640	4	778	3	777	3
S077b	60 MVA MVTX (NEMA-10) Fan	808	18	648	17	623	15	760	16	760	16
S076b	60 MVA MVTX (NEMA-10) Fan	825	9	665	9	640	9	778	8	777	8
S157	Air Handling Unit	924	14	714	13	687	14	824	12	812	12
S156	Air Handling Unit	929	14	721	13	693	14	830	12	818	12
S159	Air Handling Unit	930	13	715	13	687	13	823	12	810	12
S158	Air Handling Unit	936	13	722	13	694	13	830	11	817	12
S169	Air Handling Unit	953	13	734	13	706	13	841	11	826	12
S168	Air Handling Unit	959	13	740	13	712	13	848	11	833	11
S171	Air Handling Unit	969	13	745	13	717	13	851	11	835	11
S170	Air Handling Unit	975	13	752	13	723	13	857	11	842	11
S173	Air Handling Unit	986	8	757	10	728	10	861	9	844	10
S150	Air Handling Unit	987	9	772	10	744	10	880	9	866	9
S151	Air Handling Unit	990	8	774	10	746	10	882	9	868	9
S172	Air Handling Unit	992	8	763	9	735	9	868	9	851	9
S108	Air Handling Unit	1000	13	796	12	768	13	905	11	894	11
S175	Air Handling Unit	1000	13	768	13	739	13	871	11	853	12
S178	Air Handling Unit	1005	13	769	13	740	13	870	11	851	12

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Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	1005	13	806	12	778	12	916	11	906	11
S174	Air Handling Unit	1006	13	775	13	746	13	878	11	860	12
S179	Air Handling Unit	1009	13	772	13	743	13	873	11	853	12
S105	Air Handling Unit	1012	13	812	12	785	12	923	11	912	11
S142	Air Handling Unit	1016	8	800	10	772	10	908	9	894	9
S143	Air Handling Unit	1019	8	803	10	775	10	910	9	896	9
S180	Air Handling Unit	1028	13	787	12	759	13	887	11	866	11
S120	Air Handling Unit	1030	8	819	10	791	10	927	8	914	9
S176	Air Handling Unit	1031	13	797	12	768	13	899	11	880	11
S181	Air Handling Unit	1033	13	791	12	763	13	891	11	869	11
S123	Air Handling Unit	1033	8	821	10	793	10	929	8	915	9
S177	Air Handling Unit	1035	13	800	12	772	13	902	11	883	11
S119	Air Handling Unit	1043	2	834	9	806	10	942	8	929	8
S122	Air Handling Unit	1047	8	836	9	808	10	944	8	931	8
S144	Air Handling Unit	1054	8	828	10	799	10	933	9	916	9
S145	Air Handling Unit	1058	8	831	10	803	10	935	9	918	11
S126	Air Handling Unit	1058	8	838	9	810	10	945	8	929	8
S118	Air Handling Unit	1060	1	852	9	824	10	960	8	948	8
S121	Air Handling Unit	1064	2	854	9	826	10	962	8	949	8
S125	Air Handling Unit	1076	8	858	9	830	10	965	8	950	8
S182	Air Handling Unit	1083	12	833	12	805	12	929	10	905	11
S183	Air Handling Unit	1088	12	838	12	809	12	933	10	908	11
S124	Air Handling Unit	1088	8	871	9	843	9	978	8	963	8
S138	Air Handling Unit	1098	8	868	9	840	9	972	8	953	8
S141	Air Handling Unit	1102	8	871	9	843	9	975	8	956	8
S137	Air Handling Unit	1116	8	887	9	859	9	991	8	973	8
S148	Air Handling Unit	1118	12	876	9	848	9	974	8	952	8
S140	Air Handling Unit	1120	8	891	9	862	9	994	8	976	8
S147	Air Handling Unit	1124	12	882	9	854	9	981	8	959	8
S136	Air Handling Unit	1127	8	900	9	872	9	1004	8	986	8
S139	Air Handling Unit	1131	8	903	9	875	9	1007	8	989	8
S044	Carbon Bed - 3x Blowers (Stack)	940	17	762	16	736	16	874	14	869	14
S034	Coaguration tank ejection pump	940	10	767	12	741	10	879	10	875	9
S062	Cooling Tower Louver	889	9	705	10	678	10	817	9	811	9
S064	Cooling Tower Louver	891	9	706	10	679	10	818	9	811	9
S066	Cooling Tower Louver	893	8	707	10	680	10	818	9	812	9
S068	Cooling Tower Louver	895	8	707	10	681	11	819	9	812	10
S061	Cooling Tower Louver	895	0	712	0	686	0	824	0	818	0
S070	Cooling Tower Louver	897	9	708	15	682	16	820	15	813	18
S063	Cooling Tower Louver	897	0	713	0	686	0	825	0	819	0
S065	Cooling Tower Louver	899	0	714	0	687	0	825	0	819	0
S072	Cooling Tower Louver	899	11	709	19	683	20	821	18	814	18
S067	Cooling Tower Louver	902	0	715	0	688	0	826	0	819	0
S069	Cooling Tower Louver	904	0	715	0	689	0	827	0	820	0
S071	Cooling Tower Louver	906	0	716	0	690	1	828	0	821	1
S053	Cooling Tower Top	892	12	709	12	682	13	820	12	815	12
S054	Cooling Tower Top	894	12	709	12	683	13	821	12	815	12
S055	Cooling Tower Top	896	12	710	12	684	13	822	12	816	12
S056	Cooling Tower Top	898	12	711	12	684	13	823	12	816	12

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Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	901	12	712	14	685	14	824	13	817	14
S058	Cooling Tower Top	903	12	713	15	686	16	824	14	817	14
S073	Cooling water pump A	881	8	697	11	670	11	809	9	803	9
S074	Cooling water pump B	883	8	698	10	671	10	810	9	803	9
S075	Cooling water pump C	885	8	699	10	672	11	810	9	804	9
S163	Dehumidifier Fan	927	10	709	9	681	10	817	8	803	8
S162	Dehumidifier Fan	940	10	724	9	695	10	831	8	818	8
S161	Dehumidifier Fan	953	10	738	9	710	9	846	8	832	8
S160	Dehumidifier Fan	966	10	752	9	724	9	860	8	847	8
S013	Distillation Column Reflex Pump	964	8	792	9	766	9	905	9	901	8
S008	Distillation Pump 2	954	22	784	23	758	24	896	22	892	22
ust Fan	Dryer	931	10	712	9	684	10	819	8	805	8
ust Fan	Dryer	944	10	726	9	698	10	834	8	820	8
ust Fan	Dryer	957	10	740	9	712	9	848	8	834	8
ust Fan	Dryer	970	10	755	9	727	9	863	8	849	8
S091	EF-046 Motor	864	17	686	17	660	17	798	15	793	15
S090	EF-046 Stack	864	18	686	17	660	18	798	16	794	16
S032	EM Feed Pump 2 A	965	3	783	3	756	3	895	2	888	3
S031	EM Feed Pump 2 B	963	3	782	3	755	3	894	2	888	3
S018	EM truck unloading pump	987	3	807	2	781	2	919	2	914	2
S030	EML Feed Pump A	962	0	782	0	755	0	894	0	888	0
S029	EML Feed Pump B	960	0	781	0	754	0	893	0	887	0
S129	Exhaust Fan	1078	7	852	8	824	8	957	7	940	7
S128	Exhaust Fan	1097	7	872	7	844	8	977	6	960	7
S127	Exhaust Fan	1115	7	892	7	863	8	997	6	981	6
S114b	Exhaust Fan Motor	1010	15	804	14	776	15	913	13	901	13
S113b	Exhaust Fan Motor	1031	14	827	14	800	15	937	13	925	13
S112b	Exhaust Fan Motor	1050	14	848	14	820	14	957	12	946	13
S051	Exhaust Fan Motor - Aux 3	890	19	714	17	688	16	826	14	822	13
S045	Exhaust Fan Motor - Aux 4	940	16	762	16	736	16	874	14	869	14
S047	Exhaust Fan Motor - Aux 4	939	8	759	7	733	8	871	6	866	6
S049	Exhaust Fan Motor - Aux 4	945	7	762	7	735	8	873	6	867	6
S114a	Exhaust Fan Opening	1010	11	804	12	777	12	913	10	902	10
S113a	Exhaust Fan Opening	1032	11	828	11	800	12	937	10	926	10
S112a	Exhaust Fan Opening	1050	11	848	11	820	12	958	10	947	10
S082	Exhaust Fan Short - Aux 12	839	17	661	18	635	18	774	16	769	16
S146	Exhaust Fan Short - Machine Room	1097	14	861	11	833	12	962	13	943	13
S153	Exhaust Fan Short - Mezzanine	1018	8	794	10	765	10	899	8	883	9
S154	Exhaust Fan Short - Mezzanine	1043	8	812	11	784	11	915	10	897	10
S155	Exhaust Fan Short - Mezzanine	1068	10	832	11	803	11	933	10	913	10
S046	Exhaust Fan Stack - Aux 4	938	8	759	9	733	9	871	7	866	7
S048	Exhaust Fan Stack - Aux 4	945	7	762	8	735	8	873	7	867	7
S100	Exhaust Fan Stack- Aux 2	851	17	664	17	637	17	775	15	769	15
S099	Exhaust Fan Stack- Aux 2	861	17	675	16	648	17	787	15	780	15
S132	Exhaust From Buffer Zone	1085	7	858	8	829	8	962	6	944	7
S135	Exhaust From Buffer Zone	1092	7	863	8	834	8	966	6	948	7
S131	Exhaust From Buffer Zone	1103	7	877	7	849	8	981	6	964	6
S134	Exhaust From Buffer Zone	1109	7	882	7	853	8	986	6	968	6
S130	Exhaust From Buffer Zone	1121	7	897	7	869	8	1002	6	985	6

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Source ID	Source Name	Point of Reception R01		Point of Reception R02		Point of Reception R02g		Point of Reception R03		Point of Reception R04	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	1127	7	901	7	873	7	1006	6	988	6
S038	Filtrate solution pump	927	11	753	8	727	8	865	7	861	5
S011	Flash Tank Bottom Pump	962	4	791	5	765	5	903	3	900	3
S009	Flash Tank Drain Pump	961	4	791	5	766	5	904	3	900	3
S010	Flash Tank Vacuum Pump	960	10	791	11	765	11	903	13	899	11
S035	Flushing oil feed pump	934	10	760	10	734	9	873	9	869	8
S016	LP feed pump A	974	2	795	1	769	1	907	1	901	1
S017	LP feed pump B	975	2	795	1	769	1	907	1	901	1
S019	LP truck unloading pump	988	3	808	2	781	2	920	2	914	2
S012	Reboiler Circulation Pump	958	18	786	19	761	20	899	17	895	17
S039	RLP Circulation 2nd Pump	923	14	751	16	725	16	863	14	859	14
S037	RLP Circulation Pump	928	14	756	16	730	16	869	14	865	14
S014	RLP feed pump A	971	7	794	1	767	1	906	1	901	2
S015	RLP feed pump B	971	4	794	1	767	1	906	1	901	1
S149	Roof Top Unit	961	7	754	5	726	5	863	6	852	4
S152	Roof Top Unit	1008	3	786	4	758	5	892	4	876	4
S184	Roof Top Unit	1123	3	875	4	846	4	970	3	947	3
S102	Roof Top Unit	1188	1	956	1	927	1	1058	1	1039	1
S103	Roof Top Unit	1205	1	969	1	941	1	1070	1	1050	1
S101	Roof Top Unit	1220	2	985	2	957	2	1086	2	1066	2
S104	Roof Top Unit	1225	1	986	1	957	1	1085	1	1064	1
S001a	T1 - 160 MVA HVTX (NEMA) Core	833	23	706	24	684	24	817	22	822	22
S001b	T1 - 160 MVA HVTX (NEMA) Fan	833	14	706	15	684	15	817	13	822	13
S002a	T2 - 160 MVA HVTX (NEMA) Core	828	23	711	24	689	24	821	22	828	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	828	14	711	15	689	15	821	13	828	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	824	23	717	24	696	24	826	22	834	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	824	14	717	15	696	15	826	13	834	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	822	23	724	24	704	24	832	22	842	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	822	14	724	15	704	15	832	13	842	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	820	23	732	24	713	24	839	22	850	22
S005b	T5 - 160 MVA HVTX (NEMA) Fan	820	14	732	15	713	15	839	13	850	13
S006a	T6 - 160 MVA HVTX (NEMA) Core	820	23	741	24	723	24	847	23	860	22
S006b	T6 - 160 MVA HVTX (NEMA) Fan	820	14	741	15	723	15	847	14	860	13
S185	Truck Pass By	1106	18	878	18	847	18	985	17	970	17
S033	VAC Truck	976	0	790	0	763	0	901	0	894	0
S021	VAC Truck	991	0	805	0	779	0	917	0	910	0
S023	Washed EM Feed Pump A	956	11	780	1	754	1	892	1	887	3
S022	Washed EM Feed Pump B	956	11	780	1	754	1	892	1	887	4
S007	Wastewater Blower Intake	936	19	781	18	756	19	893	17	893	17
S025	WEM Feed Pump A	953	11	776	6	750	7	889	5	883	8
S024	WEM Feed Pump B	953	14	776	7	750	7	888	5	883	9
S028	WH Pump	959	2	781	1	754	1	893	1	888	1
S036	WLP Booster Pump	931	5	759	6	733	7	871	5	867	5
S020	WO truck loading pump	988	3	808	2	782	2	920	2	914	2
S027	WS Feed Pump A	954	9	777	6	751	6	889	5	884	7
S026	WS Feed Pump B	954	10	777	6	751	7	889	5	884	7
Total Level [dBA]			36		37		37		35		35

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	766	3	719	6	692	3	858	2	722	3
S080	1.5 MVA Transformer	769	3	722	3	694	3	861	2	724	2
S079	1.5 MVA Transformer	772	3	725	3	697	3	864	2	727	2
S078	1.5 MVA Transformer	775	3	727	3	700	3	866	2	730	1
S083	10 MVA Transformer	755	19	708	20	680	14	846	14	709	14
S084	10 MVA Transformer	755	19	707	20	680	14	845	14	708	14
S089	13) Air Compressor - Louver	794	12	746	14	718	12	882	11	742	14
S087	13) Air Compressor - Louver	792	20	744	21	716	18	881	17	742	18
S086	13) Air Compressor - Louver	794	8	745	5	718	2	883	1	744	1
S088	13) Air Compressor - Louver	792	20	744	21	716	19	880	17	741	19
S085	13) Air Compressor - Louver	798	3	750	2	722	2	887	1	748	1
S107	1a1 - Raw material Receiving Blower x3	919	10	868	11	839	8	986	7	834	9
S111	1a2 - Raw and additive feed blower	899	13	848	13	819	11	964	9	812	11
S110	1a3 - Raw and additive feed blower	921	10	869	10	840	8	986	7	834	7
S109	1a4 - Raw and additive feed blower	941	12	890	13	861	11	1007	9	855	9
S117	1a5 - Cleaning Blower	901	10	850	10	821	8	966	7	813	9
S116	1a6 - Cleaning Blower	923	10	871	10	842	8	987	7	834	8
S115	1a7 - Cleaning Blower	943	9	892	10	863	8	1008	6	855	8
S098	2) Refrigerated Water - Louver	764	11	715	8	687	6	850	3	710	3
S097	2) Refrigerated Water - Louver	770	11	722	8	694	6	857	3	717	2
S096	2) Refrigerated Water - Louver	778	11	730	7	702	6	865	3	725	2
S095	2) Refrigerated Water - Louver	785	11	736	7	708	6	871	2	731	2
S094	2) Refrigerated Water - Louver	791	11	742	7	714	6	877	2	736	2
S092	2) Refrigerated Water - Roof	776	15	727	16	699	12	859	10	719	12
S093	2) Refrigerated Water - Walls	776	3	731	3	699	3	860	2	719	3
S050	3) Gas Boiler - Boiler Package (3x Boilers)	825	20	777	22	749	23	913	20	774	21
S042	4) Waste Gas Absorption - Louver	879	0	831	0	803	0	964	0	821	0
S043	4) Waste Gas Absorption - Louver	880	0	831	0	803	0	962	0	817	0
S040	4) Waste Gas Absorption - Roof	869	9	820	9	791	8	950	6	807	8
S041	4) Waste Gas Absorption - Walls	868	9	819	11	791	9	950	11	807	13
S077a	60 MVA MVTX (NEMA-10) Core	766	11	720	11	694	9	865	7	735	8
S076a	60 MVA MVTX (NEMA-10) Core	783	3	738	4	711	3	882	2	751	3
S077b	60 MVA MVTX (NEMA-10) Fan	766	18	720	19	694	17	865	15	735	16
S076b	60 MVA MVTX (NEMA-10) Fan	783	9	738	9	711	8	882	7	751	8
S157	Air Handling Unit	808	15	756	16	727	13	874	11	723	13
S156	Air Handling Unit	814	15	763	16	734	13	881	11	730	13
S159	Air Handling Unit	804	15	752	15	723	13	866	11	713	13
S158	Air Handling Unit	811	14	759	15	730	13	873	11	720	13
S169	Air Handling Unit	819	14	767	15	738	13	877	11	722	13
S168	Air Handling Unit	827	14	774	15	745	13	884	11	729	13
S171	Air Handling Unit	827	14	774	15	745	13	880	11	723	13
S170	Air Handling Unit	834	14	781	15	752	13	887	11	730	13
S173	Air Handling Unit	835	13	782	15	752	13	882	11	724	13
S150	Air Handling Unit	860	10	808	10	778	10	919	8	764	10
S151	Air Handling Unit	861	10	809	10	780	10	919	8	764	10
S172	Air Handling Unit	842	12	789	13	759	11	890	11	731	13
S108	Air Handling Unit	890	14	839	14	810	12	956	10	804	10
S175	Air Handling Unit	842	14	789	15	759	13	886	11	726	13
S178	Air Handling Unit	839	14	786	15	756	13	878	11	718	13

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	903	14	852	14	823	12	972	10	821	12
S174	Air Handling Unit	849	14	796	15	767	13	893	11	734	13
S179	Air Handling Unit	841	14	788	15	758	13	879	11	719	13
S105	Air Handling Unit	910	14	859	14	830	12	979	10	828	12
S142	Air Handling Unit	888	10	836	10	806	10	945	8	790	10
S143	Air Handling Unit	889	10	837	10	808	10	946	8	790	10
S180	Air Handling Unit	853	14	800	15	770	13	886	11	725	13
S120	Air Handling Unit	908	9	856	10	827	10	968	8	814	10
S176	Air Handling Unit	869	14	816	15	786	13	909	11	749	13
S181	Air Handling Unit	856	14	803	15	773	13	888	11	726	13
S123	Air Handling Unit	909	9	857	10	828	9	968	8	813	10
S177	Air Handling Unit	871	14	818	15	788	12	910	11	750	13
S119	Air Handling Unit	924	9	872	10	842	9	984	8	829	10
S122	Air Handling Unit	925	9	873	10	844	9	984	8	829	10
S144	Air Handling Unit	906	14	853	14	824	12	953	10	794	12
S145	Air Handling Unit	908	14	856	14	826	12	954	10	795	12
S126	Air Handling Unit	921	9	869	10	839	9	973	8	816	10
S118	Air Handling Unit	942	9	891	10	861	9	1003	8	849	9
S121	Air Handling Unit	944	9	892	10	863	9	1004	8	849	9
S125	Air Handling Unit	942	9	889	10	860	9	994	8	837	9
S182	Air Handling Unit	888	14	835	14	806	12	908	11	746	13
S183	Air Handling Unit	892	14	839	14	809	12	910	11	748	13
S124	Air Handling Unit	956	9	903	10	874	9	1008	8	851	9
S138	Air Handling Unit	942	13	889	14	860	9	984	10	823	10
S141	Air Handling Unit	945	13	892	14	862	9	985	10	824	10
S137	Air Handling Unit	963	9	910	9	880	9	1005	8	845	9
S148	Air Handling Unit	938	9	885	10	855	9	965	8	802	10
S140	Air Handling Unit	965	9	912	9	882	9	1006	8	846	9
S147	Air Handling Unit	944	9	891	10	862	9	972	8	809	10
S136	Air Handling Unit	976	9	923	9	893	9	1019	8	859	9
S139	Air Handling Unit	978	9	925	9	896	9	1020	8	859	9
S044	Carbon Bed - 3x Blowers (Stack)	871	18	823	18	795	15	956	14	814	15
S034	Coaguration tank ejection pump	878	8	830	10	802	10	966	9	825	9
S062	Cooling Tower Louver	812	10	764	10	736	9	897	8	755	9
S064	Cooling Tower Louver	813	10	764	10	736	9	896	9	754	10
S066	Cooling Tower Louver	813	10	764	11	736	10	895	10	753	14
S068	Cooling Tower Louver	813	14	764	17	736	17	895	18	751	19
S061	Cooling Tower Louver	820	0	771	0	743	0	904	0	762	0
S070	Cooling Tower Louver	813	21	764	21	736	20	894	18	750	21
S063	Cooling Tower Louver	820	0	771	0	743	0	903	0	761	0
S065	Cooling Tower Louver	820	0	771	0	743	0	903	0	759	0
S072	Cooling Tower Louver	814	21	764	21	736	20	894	18	749	21
S067	Cooling Tower Louver	820	0	771	0	743	0	902	0	758	0
S069	Cooling Tower Louver	820	0	771	0	743	0	901	0	757	1
S071	Cooling Tower Louver	821	1	771	1	743	1	901	0	756	1
S053	Cooling Tower Top	816	12	767	12	739	12	900	11	758	12
S054	Cooling Tower Top	816	12	767	12	739	12	900	11	757	12
S055	Cooling Tower Top	816	12	767	12	739	12	899	11	756	13
S056	Cooling Tower Top	817	12	767	12	739	12	899	13	755	15

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	817	15	768	15	739	15	898	13	754	17
S058	Cooling Tower Top	817	15	768	15	739	15	897	13	753	16
S073	Cooling water pump A	804	10	756	9	728	9	889	8	747	9
S074	Cooling water pump B	805	10	756	9	728	9	888	8	746	11
S075	Cooling water pump C	805	10	756	11	728	10	888	11	745	14
S163	Dehumidifier Fan	797	11	745	12	715	9	857	8	703	10
S162	Dehumidifier Fan	812	11	760	12	730	9	872	8	718	9
S161	Dehumidifier Fan	826	11	774	12	745	9	887	8	733	9
S160	Dehumidifier Fan	841	11	790	12	760	9	903	7	749	9
S013	Distillation Column Reflex Pump	903	9	855	11	828	11	991	7	850	8
S008	Distillation Pump 2	896	22	848	23	820	19	984	20	844	21
ust Fan	Dryer	799	11	746	12	717	9	858	8	703	10
ust Fan	Dryer	813	11	761	12	732	9	873	8	718	9
ust Fan	Dryer	828	11	776	12	747	9	888	8	733	9
ust Fan	Dryer	843	11	791	11	762	9	903	7	749	9
S091	EF-046 Motor	796	17	748	18	721	16	885	14	746	16
S090	EF-046 Stack	796	18	748	19	721	17	885	14	746	16
S032	EM Feed Pump 2 A	889	3	840	4	812	3	971	4	826	5
S031	EM Feed Pump 2 B	889	3	840	3	812	3	971	2	827	4
S018	EM truck unloading pump	915	2	866	2	838	2	997	2	853	3
S030	EML Feed Pump A	889	0	840	0	812	0	972	0	828	0
S029	EML Feed Pump B	889	0	840	0	812	0	972	0	829	0
S129	Exhaust Fan	930	9	877	9	847	8	975	6	816	8
S128	Exhaust Fan	951	9	898	9	868	7	997	6	838	8
S127	Exhaust Fan	972	8	919	9	889	7	1019	6	860	8
S114b	Exhaust Fan Motor	897	16	846	16	817	14	962	12	809	9
S113b	Exhaust Fan Motor	921	16	870	16	841	14	987	12	834	8
S112b	Exhaust Fan Motor	942	15	891	16	862	13	1008	9	855	1
S051	Exhaust Fan Motor - Aux 3	825	14	777	14	749	13	913	12	773	14
S045	Exhaust Fan Motor - Aux 4	871	16	823	17	795	15	956	13	814	15
S047	Exhaust Fan Motor - Aux 4	867	8	818	9	791	7	951	5	809	7
S049	Exhaust Fan Motor - Aux 4	868	8	819	9	791	7	950	5	806	7
S114a	Exhaust Fan Opening	898	12	846	13	817	11	963	9	810	7
S113a	Exhaust Fan Opening	922	12	870	13	841	11	987	9	834	5
S112a	Exhaust Fan Opening	943	12	891	12	862	10	1008	6	856	1
S082	Exhaust Fan Short - Aux 12	772	18	725	19	697	17	862	14	724	17
S146	Exhaust Fan Short - Machine Room	930	16	877	16	847	14	965	13	804	15
S153	Exhaust Fan Short - Mezzanine	874	9	821	10	791	10	923	9	766	12
S154	Exhaust Fan Short - Mezzanine	887	12	834	13	804	11	930	10	770	12
S155	Exhaust Fan Short - Mezzanine	901	12	848	12	818	11	937	9	776	11
S046	Exhaust Fan Stack - Aux 4	867	9	819	9	791	8	952	6	809	8
S048	Exhaust Fan Stack - Aux 4	868	8	819	8	791	8	950	6	806	7
S100	Exhaust Fan Stack- Aux 2	770	18	721	18	693	16	855	14	713	16
S099	Exhaust Fan Stack- Aux 2	782	17	733	18	705	16	866	14	724	16
S132	Exhaust From Buffer Zone	934	9	881	9	851	8	978	6	818	8
S135	Exhaust From Buffer Zone	938	9	885	9	855	8	980	6	820	8
S131	Exhaust From Buffer Zone	954	9	902	9	872	7	999	6	839	8
S134	Exhaust From Buffer Zone	958	9	905	9	875	7	1001	6	841	8
S130	Exhaust From Buffer Zone	975	8	923	9	893	7	1021	6	861	8

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Source ID	Source Name	Point of Reception R05		Point of Reception R06		Point of Reception R06g		Point of Reception R07		Point of Reception R08	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	978	8	925	9	896	7	1022	6	862	8
S038	Filtrate solution pump	864	6	816	9	788	9	952	9	811	8
S011	Flash Tank Bottom Pump	903	3	855	4	827	4	991	3	850	3
S009	Flash Tank Drain Pump	903	4	855	4	828	3	992	3	851	3
S010	Flash Tank Vacuum Pump	902	10	854	12	827	11	991	10	850	10
S035	Flushing oil feed pump	871	7	823	10	796	9	959	9	819	9
S016	LP feed pump A	903	2	854	1	826	1	986	1	842	2
S017	LP feed pump B	903	1	854	1	826	1	985	1	841	2
S019	LP truck unloading pump	915	2	866	2	838	2	997	2	853	4
S012	Reboiler Circulation Pump	898	17	850	19	822	19	985	16	844	17
S039	RLP Circulation 2nd Pump	862	13	814	9	787	8	951	9	811	7
S037	RLP Circulation Pump	868	14	820	10	792	9	956	10	816	8
S014	RLP feed pump A	902	2	854	2	826	1	987	1	844	1
S015	RLP feed pump B	902	2	853	1	825	1	986	1	843	1
S149	Roof Top Unit	848	8	796	9	767	5	914	5	762	4
S152	Roof Top Unit	868	4	816	5	786	4	920	3	763	5
S184	Roof Top Unit	930	7	877	4	848	4	950	3	787	4
S102	Roof Top Unit	1026	1	973	1	943	1	1061	1	900	1
S103	Roof Top Unit	1037	1	983	1	954	1	1068	1	906	1
S101	Roof Top Unit	1053	2	1000	2	970	2	1084	1	922	2
S104	Roof Top Unit	1050	1	997	1	967	1	1076	1	914	1
S001a	T1 - 160 MVA HVTX (NEMA) Core	833	23	791	24	767	24	945	22	824	25
S001b	T1 - 160 MVA HVTX (NEMA) Fan	833	14	791	15	767	15	945	13	824	16
S002a	T2 - 160 MVA HVTX (NEMA) Core	840	23	800	24	776	23	955	21	838	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	840	14	800	14	776	14	955	12	838	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	848	23	808	23	785	23	966	21	852	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	848	13	808	14	785	14	966	12	852	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	857	23	818	23	796	23	978	20	868	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	857	13	818	14	796	14	978	12	868	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	866	22	829	23	807	23	990	20	883	22
S005b	T5 - 160 MVA HVTX (NEMA) Fan	866	13	829	14	807	13	990	11	883	13
S006a	T6 - 160 MVA HVTX (NEMA) Core	877	22	841	23	820	22	1004	20	900	21
S006b	T6 - 160 MVA HVTX (NEMA) Fan	877	13	841	14	820	13	1004	11	900	12
S185	Truck Pass By	957	19	905	20	871	18	1002	17	847	18
S033	VAC Truck	894	0	844	0	816	0	973	0	827	0
S021	VAC Truck	910	0	860	0	832	0	989	0	843	0
S023	Washed EM Feed Pump A	889	4	841	2	813	2	975	1	832	1
S022	Washed EM Feed Pump B	889	5	841	3	813	2	975	1	832	1
S007	Wastewater Blower Intake	899	20	852	20	826	18	995	16	861	17
S025	WEM Feed Pump A	885	9	837	7	809	6	970	5	828	6
S024	WEM Feed Pump B	885	10	837	8	809	7	971	5	828	6
S028	WH Pump	889	2	841	1	813	1	974	1	831	1
S036	WLP Booster Pump	870	3	822	3	794	2	958	3	818	3
S020	WO truck loading pump	915	2	866	3	838	2	997	2	853	4
S027	WS Feed Pump A	886	8	837	6	809	6	970	4	828	6
S026	WS Feed Pump B	886	8	837	7	809	6	971	4	828	6
Total Level [dBA]			37		37		36		34		36

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	708	3	854	2	1087	0	1061	0	1029	0
S080	1.5 MVA Transformer	710	2	856	2	1089	0	1063	0	1030	0
S079	1.5 MVA Transformer	713	2	859	1	1091	0	1065	0	1031	0
S078	1.5 MVA Transformer	716	1	862	1	1093	0	1067	0	1032	0
S083	10 MVA Transformer	695	14	841	18	1074	13	1049	8	1020	8
S084	10 MVA Transformer	693	14	839	18	1070	13	1044	8	1014	8
S089	13) Air Compressor - Louver	728	15	872	15	1093	14	1067	14	1017	15
S087	13) Air Compressor - Louver	728	19	872	19	1095	11	1068	11	1021	6
S086	13) Air Compressor - Louver	730	1	874	2	1098	0	1071	0	1024	0
S088	13) Air Compressor - Louver	727	19	871	18	1093	10	1067	10	1018	5
S085	13) Air Compressor - Louver	734	1	878	1	1101	0	1075	0	1025	0
S107	1a1 - Raw material Receiving Blower x3	819	9	946	7	1104	2	1075	2	932	2
S111	1a2 - Raw and additive feed blower	797	11	923	9	1079	3	1051	3	913	3
S110	1a3 - Raw and additive feed blower	819	7	945	5	1098	1	1069	1	923	1
S109	1a4 - Raw and additive feed blower	839	9	965	6	1116	2	1087	2	933	2
S117	1a5 - Cleaning Blower	797	9	923	10	1076	8	1048	6	907	8
S116	1a6 - Cleaning Blower	819	8	944	9	1095	8	1066	6	917	7
S115	1a7 - Cleaning Blower	840	8	965	9	1113	8	1084	6	927	7
S098	2) Refrigerated Water - Louver	696	3	839	2	1063	0	1037	0	997	0
S097	2) Refrigerated Water - Louver	703	2	846	1	1068	0	1042	0	999	0
S096	2) Refrigerated Water - Louver	710	2	853	1	1074	0	1048	0	1001	0
S095	2) Refrigerated Water - Louver	716	2	859	1	1079	0	1052	0	1003	0
S094	2) Refrigerated Water - Louver	722	2	865	2	1083	0	1057	0	1005	0
S092	2) Refrigerated Water - Roof	704	12	846	14	1065	13	1038	9	985	10
S093	2) Refrigerated Water - Walls	704	3	849	3	1062	2	1036	1	987	2
S050	3) Gas Boiler - Boiler Package (3x Boilers)	759	21	902	17	1120	15	1093	16	1032	16
S042	4) Waste Gas Absorption - Louver	806	0	946	0	1147	0	1120	0	1028	0
S043	4) Waste Gas Absorption - Louver	803	0	941	0	1136	0	1108	0	1010	0
S040	4) Waste Gas Absorption - Roof	793	8	934	9	1132	9	1104	6	1018	6
S041	4) Waste Gas Absorption - Walls	793	13	933	15	1133	12	1106	10	1016	10
S077a	60 MVA MVTX (NEMA-10) Core	721	9	871	9	1119	5	1094	3	1077	2
S076a	60 MVA MVTX (NEMA-10) Core	738	3	887	3	1132	2	1107	2	1082	2
S077b	60 MVA MVTX (NEMA-10) Fan	721	17	871	17	1119	12	1094	9	1077	7
S076b	60 MVA MVTX (NEMA-10) Fan	738	8	887	8	1132	7	1107	6	1082	6
S157	Air Handling Unit	708	13	838	15	1014	7	986	6	893	8
S156	Air Handling Unit	715	13	844	14	1019	7	991	6	895	8
S159	Air Handling Unit	698	13	824	14	991	13	963	10	865	9
S158	Air Handling Unit	705	13	831	14	997	13	969	10	867	9
S169	Air Handling Unit	707	13	830	14	985	13	956	10	843	12
S168	Air Handling Unit	714	13	837	14	991	13	962	10	846	12
S171	Air Handling Unit	708	13	827	14	970	13	941	10	816	12
S170	Air Handling Unit	715	13	834	14	976	13	947	10	819	12
S173	Air Handling Unit	709	13	823	15	954	13	925	11	788	10
S150	Air Handling Unit	749	10	872	10	1022	8	993	8	862	9
S151	Air Handling Unit	749	10	871	10	1018	8	990	8	856	12
S172	Air Handling Unit	716	13	831	15	960	13	931	11	791	10
S108	Air Handling Unit	789	11	917	9	1077	2	1049	2	917	0
S175	Air Handling Unit	711	13	822	15	942	13	913	11	765	10
S178	Air Handling Unit	703	13	810	15	921	14	892	11	740	13

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	806	12	935	11	1100	8	1072	7	940	1
S174	Air Handling Unit	718	13	829	15	949	13	919	11	769	10
S179	Air Handling Unit	703	13	810	15	918	14	889	11	734	13
S105	Air Handling Unit	813	12	942	10	1106	8	1078	7	943	1
S142	Air Handling Unit	774	10	896	9	1037	8	1008	8	861	9
S143	Air Handling Unit	775	10	895	9	1034	12	1005	10	855	9
S180	Air Handling Unit	709	13	811	15	906	14	876	11	707	11
S120	Air Handling Unit	798	10	921	9	1065	8	1036	7	884	9
S176	Air Handling Unit	733	13	841	15	947	13	918	11	751	10
S181	Air Handling Unit	711	13	811	15	903	14	873	11	701	10
S123	Air Handling Unit	798	10	920	9	1061	8	1032	8	878	9
S177	Air Handling Unit	734	13	841	15	944	13	915	11	745	10
S119	Air Handling Unit	814	10	937	9	1078	8	1049	7	891	9
S122	Air Handling Unit	814	10	936	9	1074	8	1045	7	885	9
S144	Air Handling Unit	778	12	890	14	1004	13	975	10	799	10
S145	Air Handling Unit	779	12	890	14	1001	13	972	10	793	10
S126	Air Handling Unit	800	10	916	13	1039	12	1010	8	836	9
S118	Air Handling Unit	833	9	956	9	1095	8	1066	7	901	9
S121	Air Handling Unit	833	9	955	9	1092	8	1062	7	895	9
S125	Air Handling Unit	821	10	937	9	1058	8	1028	8	847	9
S182	Air Handling Unit	730	13	818	14	875	14	845	11	635	14
S183	Air Handling Unit	733	13	819	14	872	14	842	11	629	14
S124	Air Handling Unit	836	9	951	9	1070	8	1041	7	854	9
S138	Air Handling Unit	808	10	914	14	1008	8	979	8	775	10
S141	Air Handling Unit	809	10	914	14	1006	8	976	8	769	10
S137	Air Handling Unit	829	10	936	9	1028	8	999	8	787	10
S148	Air Handling Unit	787	10	880	10	942	9	912	8	685	11
S140	Air Handling Unit	830	10	936	9	1025	8	996	8	781	10
S147	Air Handling Unit	794	10	888	10	949	9	919	8	689	11
S136	Air Handling Unit	843	9	950	9	1041	8	1011	8	795	10
S139	Air Handling Unit	844	9	950	9	1038	8	1008	8	789	10
S044	Carbon Bed - 3x Blowers (Stack)	800	15	940	17	1144	16	1117	12	1030	12
S034	Coaguration tank ejection pump	811	9	952	9	1161	1	1134	1	1050	0
S062	Cooling Tower Louver	740	9	881	9	1092	9	1066	8	1001	2
S064	Cooling Tower Louver	739	10	880	11	1089	17	1062	15	996	2
S066	Cooling Tower Louver	738	14	878	18	1086	17	1059	15	991	2
S068	Cooling Tower Louver	737	19	877	20	1082	17	1055	15	986	2
S061	Cooling Tower Louver	747	0	888	0	1098	0	1071	0	1003	0
S070	Cooling Tower Louver	736	22	875	21	1079	17	1052	15	981	2
S063	Cooling Tower Louver	746	0	886	0	1094	0	1067	0	998	0
S065	Cooling Tower Louver	745	0	885	0	1091	0	1064	0	993	0
S072	Cooling Tower Louver	735	21	873	22	1076	17	1049	15	976	2
S067	Cooling Tower Louver	744	0	883	0	1088	0	1061	0	988	0
S069	Cooling Tower Louver	743	1	882	0	1085	0	1057	0	983	0
S071	Cooling Tower Louver	742	1	880	1	1081	0	1054	0	978	0
S053	Cooling Tower Top	744	12	885	12	1095	12	1068	12	1002	12
S054	Cooling Tower Top	743	12	883	12	1092	12	1065	12	997	12
S055	Cooling Tower Top	742	13	882	14	1088	12	1061	12	992	12
S056	Cooling Tower Top	740	15	880	14	1085	12	1058	12	987	12

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	739	17	878	14	1082	12	1055	12	982	12
S058	Cooling Tower Top	738	16	877	16	1078	12	1051	12	977	12
S073	Cooling water pump A	733	10	874	10	1086	7	1059	6	998	23
S074	Cooling water pump B	731	11	872	11	1083	8	1056	7	994	23
S075	Cooling water pump C	730	15	871	16	1080	22	1053	22	988	22
S163	Dehumidifier Fan	688	10	814	11	979	10	951	7	853	8
S162	Dehumidifier Fan	703	10	828	11	991	9	963	7	858	8
S161	Dehumidifier Fan	718	9	843	11	1004	9	975	7	864	8
S160	Dehumidifier Fan	734	9	858	11	1016	9	988	7	870	8
S013	Distillation Column Reflex Pump	835	9	977	5	1181	4	1153	3	1059	6
S008	Distillation Pump 2	830	21	972	21	1180	8	1153	7	1064	9
ust Fan	Dryer	688	10	812	11	974	10	946	7	846	8
ust Fan	Dryer	703	10	827	11	987	10	958	7	851	8
ust Fan	Dryer	718	9	842	11	999	9	971	7	857	8
ust Fan	Dryer	733	9	857	11	1012	9	984	7	862	8
S091	EF-046 Motor	732	16	875	16	1097	14	1071	12	1021	13
S090	EF-046 Stack	732	16	876	17	1098	15	1071	13	1022	14
S032	EM Feed Pump 2 A	812	6	949	6	1142	2	1115	2	1013	8
S031	EM Feed Pump 2 B	813	4	951	4	1146	1	1119	1	1020	13
S018	EM truck unloading pump	838	3	976	5	1167	8	1140	8	1030	4
S030	EML Feed Pump A	814	0	952	0	1149	0	1121	0	1023	4
S029	EML Feed Pump B	815	0	954	0	1152	0	1124	0	1028	0
S129	Exhaust Fan	801	8	911	9	1018	8	988	6	799	8
S128	Exhaust Fan	823	8	933	9	1038	8	1008	6	810	8
S127	Exhaust Fan	844	8	955	9	1057	8	1028	6	822	8
S114b	Exhaust Fan Motor	794	9	921	7	1077	0	1048	0	911	1
S113b	Exhaust Fan Motor	819	8	945	4	1098	0	1069	0	922	0
S112b	Exhaust Fan Motor	840	1	966	1	1116	0	1087	0	932	0
S051	Exhaust Fan Motor - Aux 3	759	14	902	12	1120	10	1093	9	1031	10
S045	Exhaust Fan Motor - Aux 4	800	15	940	16	1143	14	1116	11	1029	10
S047	Exhaust Fan Motor - Aux 4	794	7	934	8	1136	6	1109	4	1022	3
S049	Exhaust Fan Motor - Aux 4	791	7	929	8	1126	6	1099	4	1007	3
S114a	Exhaust Fan Opening	795	7	921	4	1077	0	1048	0	911	0
S113a	Exhaust Fan Opening	819	5	945	2	1098	0	1069	0	922	0
S112a	Exhaust Fan Opening	840	1	966	1	1116	0	1088	0	932	0
S082	Exhaust Fan Short - Aux 12	710	17	855	17	1083	15	1057	12	1020	8
S146	Exhaust Fan Short - Machine Room	789	15	890	16	973	11	943	10	734	13
S153	Exhaust Fan Short - Mezzanine	750	12	865	12	992	11	963	9	809	10
S154	Exhaust Fan Short - Mezzanine	755	12	864	12	973	11	944	10	771	10
S155	Exhaust Fan Short - Mezzanine	761	12	864	12	956	11	926	10	735	10
S046	Exhaust Fan Stack - Aux 4	795	8	935	8	1137	6	1110	5	1023	4
S048	Exhaust Fan Stack - Aux 4	791	8	930	7	1127	5	1100	5	1008	3
S100	Exhaust Fan Stack- Aux 2	699	16	841	17	1059	15	1032	12	986	14
S099	Exhaust Fan Stack- Aux 2	710	16	852	17	1067	15	1041	12	989	14
S132	Exhaust From Buffer Zone	803	8	911	9	1013	8	984	6	789	8
S135	Exhaust From Buffer Zone	804	8	912	9	1009	8	979	6	780	8
S131	Exhaust From Buffer Zone	824	8	933	9	1033	8	1003	6	800	8
S134	Exhaust From Buffer Zone	825	8	933	9	1028	8	999	6	791	8
S130	Exhaust From Buffer Zone	846	8	955	9	1053	8	1023	6	813	8

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Source ID	Source Name	Point of Reception R08g		Point of Reception R09		Point of Reception R10		Point of Reception R10g		Point of Reception R11	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	847	8	954	9	1049	8	1019	6	804	8
S038	Filtrate solution pump	797	8	939	8	1149	8	1122	7	1044	0
S011	Flash Tank Bottom Pump	835	3	977	3	1182	0	1155	0	1063	0
S009	Flash Tank Drain Pump	837	3	979	3	1185	0	1158	0	1066	0
S010	Flash Tank Vacuum Pump	836	10	978	9	1184	6	1157	5	1065	7
S035	Flushing oil feed pump	804	9	946	9	1156	1	1128	1	1047	0
S016	LP feed pump A	827	2	966	2	1160	2	1133	1	1029	4
S017	LP feed pump B	827	2	965	2	1159	2	1131	8	1027	4
S019	LP truck unloading pump	838	4	976	6	1167	8	1139	7	1029	4
S012	Reboiler Circulation Pump	830	17	971	9	1177	3	1149	3	1058	6
S039	RLP Circulation 2nd Pump	797	7	939	11	1152	11	1125	10	1049	11
S037	RLP Circulation Pump	802	8	944	11	1156	11	1129	10	1051	1
S014	RLP feed pump A	829	1	968	1	1166	1	1138	1	1038	5
S015	RLP feed pump B	828	1	967	1	1164	1	1136	1	1035	5
S149	Roof Top Unit	747	5	875	3	1042	1	1014	0	901	0
S152	Roof Top Unit	748	5	865	4	999	7	970	5	823	5
S184	Roof Top Unit	772	5	859	8	905	7	875	5	639	8
S102	Roof Top Unit	884	1	983	1	1048	1	1017	1	762	2
S103	Roof Top Unit	890	1	985	1	1039	1	1009	1	742	2
S101	Roof Top Unit	907	2	1001	2	1052	2	1022	2	748	5
S104	Roof Top Unit	899	1	989	1	1029	1	999	1	716	7
S001a	T1 - 160 MVA HVTX (NEMA) Core	811	25	966	26	1230	24	1205	21	1192	19
S001b	T1 - 160 MVA HVTX (NEMA) Fan	811	17	966	17	1230	15	1205	13	1192	11
S002a	T2 - 160 MVA HVTX (NEMA) Core	826	22	981	22	1252	24	1228	21	1221	19
S002b	T2 - 160 MVA HVTX (NEMA) Fan	826	13	981	12	1252	14	1228	12	1221	10
S003a	T3 - 160 MVA HVTX (NEMA) Core	840	22	996	21	1273	19	1249	18	1249	19
S003b	T3 - 160 MVA HVTX (NEMA) Fan	840	13	996	12	1273	10	1249	9	1249	10
S004a	T4 - 160 MVA HVTX (NEMA) Core	856	22	1013	21	1296	19	1273	18	1278	19
S004b	T4 - 160 MVA HVTX (NEMA) Fan	856	13	1013	12	1296	9	1273	9	1278	10
S005a	T5 - 160 MVA HVTX (NEMA) Core	872	22	1030	21	1319	18	1295	18	1306	18
S005b	T5 - 160 MVA HVTX (NEMA) Fan	872	13	1030	12	1319	9	1295	9	1306	9
S006a	T6 - 160 MVA HVTX (NEMA) Core	889	22	1047	21	1342	18	1319	17	1335	18
S006b	T6 - 160 MVA HVTX (NEMA) Fan	889	13	1047	11	1342	9	1319	8	1335	9
S185	Truck Pass By	828	18	942	20	1048	20	1016	17	860	21
S033	VAC Truck	812	0	948	0	1134	0	1107	0	998	0
S021	VAC Truck	828	0	963	0	1148	0	1120	0	1004	0
S023	Washed EM Feed Pump A	818	1	958	1	1159	0	1132	0	1039	1
S022	Washed EM Feed Pump B	818	1	958	1	1160	0	1132	0	1039	1
S007	Wastewater Blower Intake	847	17	993	19	1218	12	1191	12	1120	13
S025	WEM Feed Pump A	814	6	954	5	1155	3	1128	3	1035	4
S024	WEM Feed Pump B	814	6	954	5	1156	3	1128	3	1036	4
S028	WH Pump	816	1	956	1	1155	0	1128	0	1032	1
S036	WLP Booster Pump	804	3	946	3	1157	3	1130	3	1051	0
S020	WO truck loading pump	838	5	976	8	1166	8	1138	7	1028	4
S027	WS Feed Pump A	813	6	953	5	1154	3	1126	3	1033	4
S026	WS Feed Pump B	814	6	953	5	1154	3	1127	3	1034	4
Total Level [dBA]			36		36		35		33		34

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	1015	0	1647	0	1637	0	1644	0	1627	0
S080	1.5 MVA Transformer	1016	0	1648	0	1638	0	1644	0	1628	0
S079	1.5 MVA Transformer	1017	0	1649	0	1639	0	1645	0	1628	0
S078	1.5 MVA Transformer	1018	0	1650	0	1640	0	1646	0	1629	0
S083	10 MVA Transformer	1007	8	1639	9	1629	4	1635	9	1619	4
S084	10 MVA Transformer	1000	8	1632	9	1622	4	1629	9	1612	4
S089	13) Air Compressor - Louver	1003	15	1635	14	1625	13	1630	15	1613	13
S087	13) Air Compressor - Louver	1007	6	1639	4	1629	4	1634	4	1617	3
S086	13) Air Compressor - Louver	1010	0	1642	0	1632	0	1637	0	1620	0
S088	13) Air Compressor - Louver	1004	5	1636	4	1626	3	1631	4	1615	3
S085	13) Air Compressor - Louver	1011	0	1643	0	1633	0	1638	0	1621	0
S107	1a1 - Raw material Receiving Blower x3	916	2	1542	1	1532	1	1531	1	1513	1
S111	1a2 - Raw and additive feed blower	896	3	1524	1	1514	1	1513	1	1496	1
S110	1a3 - Raw and additive feed blower	906	1	1532	1	1522	1	1521	1	1503	1
S109	1a4 - Raw and additive feed blower	916	2	1541	1	1531	1	1528	1	1510	1
S117	1a5 - Cleaning Blower	891	8	1518	5	1508	3	1507	6	1490	3
S116	1a6 - Cleaning Blower	900	8	1526	5	1516	3	1514	6	1497	3
S115	1a7 - Cleaning Blower	910	7	1535	5	1525	3	1522	5	1504	3
S098	2) Refrigerated Water - Louver	983	0	1615	0	1605	0	1612	0	1595	0
S097	2) Refrigerated Water - Louver	985	0	1617	0	1607	0	1613	0	1596	0
S096	2) Refrigerated Water - Louver	987	0	1619	0	1609	0	1615	0	1598	0
S095	2) Refrigerated Water - Louver	989	0	1621	0	1611	0	1616	0	1600	0
S094	2) Refrigerated Water - Louver	991	0	1623	0	1613	0	1618	0	1601	0
S092	2) Refrigerated Water - Roof	972	10	1604	9	1594	6	1600	10	1583	6
S093	2) Refrigerated Water - Walls	974	2	1606	1	1596	1	1602	1	1585	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1017	16	1649	12	1639	12	1643	12	1626	13
S042	4) Waste Gas Absorption - Louver	1013	0	1643	0	1633	0	1634	0	1617	0
S043	4) Waste Gas Absorption - Louver	995	0	1625	0	1615	0	1616	0	1599	0
S040	4) Waste Gas Absorption - Roof	1001	6	1627	3	1617	3	1622	4	1605	3
S041	4) Waste Gas Absorption - Walls	1001	10	1628	7	1618	7	1621	8	1604	7
S077a	60 MVA MVTX (NEMA-10) Core	1064	2	1696	3	1686	1	1693	3	1676	1
S076a	60 MVA MVTX (NEMA-10) Core	1069	2	1701	1	1691	1	1697	1	1680	1
S077b	60 MVA MVTX (NEMA-10) Fan	1064	7	1696	8	1686	5	1693	8	1676	5
S076b	60 MVA MVTX (NEMA-10) Fan	1069	7	1701	4	1691	3	1697	4	1680	3
S157	Air Handling Unit	878	8	1510	3	1500	3	1503	4	1486	3
S156	Air Handling Unit	880	8	1512	3	1502	3	1505	4	1488	3
S159	Air Handling Unit	850	9	1481	9	1471	6	1475	9	1458	6
S158	Air Handling Unit	852	9	1484	9	1474	6	1477	9	1460	6
S169	Air Handling Unit	827	10	1458	9	1448	6	1451	9	1434	6
S168	Air Handling Unit	830	10	1461	9	1451	6	1453	9	1436	6
S171	Air Handling Unit	800	12	1431	9	1421	6	1423	9	1406	6
S170	Air Handling Unit	803	12	1434	9	1424	6	1425	9	1408	6
S173	Air Handling Unit	772	10	1403	9	1393	7	1394	10	1377	7
S150	Air Handling Unit	846	9	1476	5	1466	5	1466	5	1449	5
S151	Air Handling Unit	840	12	1469	5	1459	5	1460	5	1442	5
S172	Air Handling Unit	775	10	1405	9	1395	7	1396	6	1379	5
S108	Air Handling Unit	900	0	1529	0	1519	0	1518	0	1501	0
S175	Air Handling Unit	749	11	1379	9	1369	7	1370	6	1353	5
S178	Air Handling Unit	724	13	1354	9	1344	7	1345	10	1328	7

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	924	1	1552	1	1542	1	1541	1	1524	1
S174	Air Handling Unit	753	11	1382	6	1372	5	1373	6	1356	5
S179	Air Handling Unit	718	13	1348	10	1338	7	1339	6	1322	5
S105	Air Handling Unit	927	1	1555	1	1545	1	1544	1	1526	1
S142	Air Handling Unit	845	9	1473	5	1463	5	1462	5	1445	5
S143	Air Handling Unit	839	9	1467	5	1457	5	1456	5	1438	5
S180	Air Handling Unit	691	11	1320	6	1310	5	1311	6	1294	5
S120	Air Handling Unit	867	9	1494	5	1484	4	1482	5	1465	5
S176	Air Handling Unit	734	11	1363	6	1353	5	1352	6	1335	5
S181	Air Handling Unit	685	10	1314	6	1304	5	1304	6	1287	5
S123	Air Handling Unit	861	9	1487	5	1477	5	1476	5	1458	5
S177	Air Handling Unit	728	10	1356	6	1346	5	1346	6	1328	5
S119	Air Handling Unit	874	9	1500	5	1490	4	1488	5	1470	5
S122	Air Handling Unit	868	9	1493	5	1483	4	1481	5	1463	5
S144	Air Handling Unit	782	10	1408	5	1398	5	1396	6	1378	5
S145	Air Handling Unit	776	10	1401	5	1391	5	1389	6	1372	5
S126	Air Handling Unit	819	10	1444	5	1434	5	1431	5	1414	5
S118	Air Handling Unit	884	9	1508	5	1498	4	1495	5	1477	5
S121	Air Handling Unit	877	9	1501	5	1491	4	1488	5	1470	5
S125	Air Handling Unit	829	9	1452	5	1442	5	1439	5	1421	5
S182	Air Handling Unit	618	14	1245	10	1235	7	1234	10	1216	7
S183	Air Handling Unit	612	14	1238	10	1228	7	1227	10	1210	7
S124	Air Handling Unit	836	9	1458	5	1448	5	1444	5	1426	5
S138	Air Handling Unit	757	10	1379	5	1369	5	1365	6	1347	5
S141	Air Handling Unit	751	10	1372	5	1362	5	1358	10	1341	5
S137	Air Handling Unit	769	10	1388	5	1378	5	1373	10	1356	5
S148	Air Handling Unit	667	11	1288	10	1278	7	1274	10	1256	7
S140	Air Handling Unit	763	10	1382	5	1371	5	1367	10	1349	5
S147	Air Handling Unit	671	11	1291	10	1281	7	1277	10	1259	7
S136	Air Handling Unit	776	10	1394	5	1384	5	1379	10	1361	5
S139	Air Handling Unit	770	10	1388	5	1378	5	1372	10	1354	5
S044	Carbon Bed - 3x Blowers (Stack)	1015	12	1645	8	1635	8	1637	9	1620	8
S034	Coaguration tank ejection pump	1035	0	1666	0	1656	0	1657	0	1640	0
S062	Cooling Tower Louver	987	2	1619	1	1609	1	1613	1	1596	1
S064	Cooling Tower Louver	982	2	1614	1	1604	1	1607	1	1591	1
S066	Cooling Tower Louver	977	2	1608	1	1598	1	1602	1	1585	1
S068	Cooling Tower Louver	971	2	1603	1	1593	1	1597	1	1580	1
S061	Cooling Tower Louver	989	0	1621	0	1611	0	1614	0	1597	0
S070	Cooling Tower Louver	966	2	1598	1	1588	1	1592	1	1575	1
S063	Cooling Tower Louver	984	0	1615	0	1605	0	1609	0	1592	0
S065	Cooling Tower Louver	979	0	1610	0	1600	0	1604	0	1587	0
S072	Cooling Tower Louver	961	2	1593	1	1583	1	1587	1	1570	1
S067	Cooling Tower Louver	974	0	1605	0	1595	0	1599	0	1582	0
S069	Cooling Tower Louver	969	0	1600	0	1590	0	1594	0	1577	0
S071	Cooling Tower Louver	964	0	1595	0	1585	0	1589	0	1572	0
S053	Cooling Tower Top	988	12	1619	8	1609	8	1613	9	1596	8
S054	Cooling Tower Top	982	12	1614	8	1604	8	1608	9	1591	8
S055	Cooling Tower Top	978	12	1609	8	1599	8	1603	9	1586	8
S056	Cooling Tower Top	972	12	1604	8	1594	8	1598	9	1581	8

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	967	12	1599	8	1589	8	1593	9	1576	8
S058	Cooling Tower Top	962	12	1594	8	1584	8	1588	9	1571	8
S073	Cooling water pump A	984	22	1616	17	1606	16	1610	17	1594	16
S074	Cooling water pump B	979	22	1611	17	1601	16	1606	17	1589	16
S075	Cooling water pump C	974	21	1606	17	1596	16	1600	17	1583	16
S163	Dehumidifier Fan	838	8	1470	6	1460	4	1463	7	1446	4
S162	Dehumidifier Fan	843	8	1474	6	1464	4	1467	7	1450	4
S161	Dehumidifier Fan	849	8	1479	6	1469	4	1471	7	1454	4
S160	Dehumidifier Fan	854	8	1484	6	1474	4	1476	7	1459	4
S013	Distillation Column Reflex Pump	1044	6	1674	3	1664	3	1665	3	1647	3
S008	Distillation Pump 2	1049	9	1679	10	1669	9	1670	11	1653	9
ust Fan	Dryer	831	8	1462	6	1452	4	1456	7	1439	4
ust Fan	Dryer	836	8	1467	6	1457	4	1460	7	1443	4
ust Fan	Dryer	841	8	1472	6	1462	4	1464	7	1447	4
ust Fan	Dryer	847	8	1477	6	1467	4	1468	7	1451	4
S091	EF-046 Motor	1007	13	1639	10	1629	7	1634	10	1617	7
S090	EF-046 Stack	1008	14	1640	12	1630	10	1635	14	1618	10
S032	EM Feed Pump 2 A	998	8	1628	8	1618	7	1618	8	1601	7
S031	EM Feed Pump 2 B	1004	9	1634	9	1624	8	1625	9	1608	7
S018	EM truck unloading pump	1014	3	1643	3	1633	3	1633	2	1616	1
S030	EML Feed Pump A	1007	2	1637	2	1627	2	1628	2	1611	1
S029	EML Feed Pump B	1012	0	1642	2	1632	2	1633	2	1616	1
S129	Exhaust Fan	782	8	1405	5	1395	3	1392	5	1374	3
S128	Exhaust Fan	793	8	1414	5	1404	3	1400	5	1382	3
S127	Exhaust Fan	804	8	1423	5	1413	3	1408	5	1390	3
S114b	Exhaust Fan Motor	894	1	1522	0	1512	0	1511	0	1494	0
S113b	Exhaust Fan Motor	905	0	1531	0	1521	0	1520	0	1502	0
S112b	Exhaust Fan Motor	915	0	1540	0	1530	0	1527	0	1509	0
S051	Exhaust Fan Motor - Aux 3	1017	10	1649	6	1639	5	1642	6	1625	5
S045	Exhaust Fan Motor - Aux 4	1014	10	1645	6	1635	5	1637	6	1619	5
S047	Exhaust Fan Motor - Aux 4	1007	3	1638	1	1628	1	1630	1	1612	1
S049	Exhaust Fan Motor - Aux 4	991	3	1622	1	1612	1	1614	1	1596	1
S114a	Exhaust Fan Opening	894	0	1522	0	1512	0	1511	0	1494	0
S113a	Exhaust Fan Opening	905	0	1532	0	1522	0	1520	0	1502	0
S112a	Exhaust Fan Opening	915	0	1540	0	1530	0	1527	0	1510	0
S082	Exhaust Fan Short - Aux 12	1006	8	1638	6	1628	5	1634	6	1617	5
S146	Exhaust Fan Short - Machine Room	717	13	1339	7	1329	7	1326	7	1308	7
S153	Exhaust Fan Short - Mezzanine	792	10	1420	5	1410	5	1410	5	1393	5
S154	Exhaust Fan Short - Mezzanine	754	10	1381	5	1371	5	1370	6	1353	5
S155	Exhaust Fan Short - Mezzanine	718	10	1344	6	1334	5	1332	6	1314	5
S046	Exhaust Fan Stack - Aux 4	1008	4	1639	1	1629	1	1630	3	1613	1
S048	Exhaust Fan Stack - Aux 4	992	3	1623	1	1613	1	1614	1	1597	1
S100	Exhaust Fan Stack- Aux 2	972	14	1604	12	1594	9	1600	13	1583	9
S099	Exhaust Fan Stack- Aux 2	975	14	1607	12	1598	9	1603	13	1586	9
S132	Exhaust From Buffer Zone	772	8	1394	5	1384	3	1381	5	1363	3
S135	Exhaust From Buffer Zone	762	9	1384	5	1374	3	1371	5	1353	3
S131	Exhaust From Buffer Zone	783	8	1403	5	1393	3	1389	5	1371	3
S134	Exhaust From Buffer Zone	773	8	1393	5	1383	3	1379	5	1361	3
S130	Exhaust From Buffer Zone	794	8	1413	5	1403	3	1397	5	1380	3

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Source ID	Source Name	Point of Reception R11g		Point of Reception R12		Point of Reception R12g		Point of Reception R13		Point of Reception R13g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	786	8	1403	5	1393	3	1388	5	1370	3
S038	Filtrate solution pump	1029	0	1660	0	1650	0	1652	0	1635	0
S011	Flash Tank Bottom Pump	1047	2	1677	1	1667	1	1668	1	1651	1
S009	Flash Tank Drain Pump	1050	1	1680	1	1670	1	1671	1	1654	1
S010	Flash Tank Vacuum Pump	1050	7	1680	4	1670	4	1671	5	1653	4
S035	Flushing oil feed pump	1032	0	1663	0	1653	0	1655	0	1638	0
S016	LP feed pump A	1013	4	1643	4	1633	3	1633	4	1616	3
S017	LP feed pump B	1011	4	1641	4	1631	3	1631	4	1614	3
S019	LP truck unloading pump	1013	3	1642	3	1632	3	1632	1	1614	1
S012	Reboiler Circulation Pump	1042	6	1673	7	1663	6	1664	11	1646	10
S039	RLP Circulation 2nd Pump	1034	1	1665	1	1655	0	1657	1	1640	0
S037	RLP Circulation Pump	1036	1	1667	1	1657	0	1659	1	1642	0
S014	RLP feed pump A	1022	5	1652	4	1642	3	1642	4	1625	3
S015	RLP feed pump B	1019	5	1649	4	1639	3	1640	4	1622	3
S149	Roof Top Unit	885	0	1516	0	1506	0	1507	0	1490	0
S152	Roof Top Unit	807	5	1435	2	1425	1	1425	2	1408	1
S184	Roof Top Unit	622	8	1243	4	1233	3	1230	5	1213	3
S102	Roof Top Unit	743	2	1353	2	1342	1	1334	2	1316	2
S103	Roof Top Unit	722	2	1329	2	1319	1	1310	2	1292	2
S101	Roof Top Unit	728	6	1332	5	1322	3	1312	5	1294	3
S104	Roof Top Unit	696	8	1299	5	1289	3	1280	5	1262	3
S001a	T1 - 160 MVA HVTX (NEMA) Core	1179	20	1810	16	1801	15	1807	16	1790	15
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1179	11	1810	7	1801	6	1807	7	1790	6
S002a	T2 - 160 MVA HVTX (NEMA) Core	1208	19	1839	20	1829	17	1836	16	1819	14
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1208	10	1839	11	1829	8	1836	7	1819	6
S003a	T3 - 160 MVA HVTX (NEMA) Core	1235	19	1867	20	1857	16	1864	16	1847	14
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1235	10	1867	11	1857	8	1864	7	1847	6
S004a	T4 - 160 MVA HVTX (NEMA) Core	1265	19	1896	20	1886	16	1893	20	1877	16
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1265	10	1896	11	1886	8	1893	11	1877	8
S005a	T5 - 160 MVA HVTX (NEMA) Core	1293	18	1925	20	1915	16	1922	20	1905	16
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1293	10	1925	10	1915	8	1922	11	1905	8
S006a	T6 - 160 MVA HVTX (NEMA) Core	1322	18	1954	19	1944	16	1951	20	1934	16
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1322	9	1954	10	1944	8	1951	11	1934	8
S185	Truck Pass By	840	22	1467	18	1457	15	1460	19	1442	15
S033	VAC Truck	982	0	1611	0	1601	0	1602	0	1584	0
S021	VAC Truck	988	0	1617	0	1607	0	1607	0	1589	0
S023	Washed EM Feed Pump A	1023	1	1653	1	1643	1	1644	1	1627	1
S022	Washed EM Feed Pump B	1024	1	1654	1	1644	1	1645	1	1628	1
S007	Wastewater Blower Intake	1104	13	1736	9	1726	8	1727	10	1710	8
S025	WEM Feed Pump A	1020	4	1650	3	1640	2	1641	3	1624	3
S024	WEM Feed Pump B	1021	4	1651	3	1641	2	1643	3	1625	3
S028	WH Pump	1017	1	1647	1	1637	1	1638	5	1621	4
S036	WLP Booster Pump	1035	0	1667	0	1656	0	1659	0	1641	0
S020	WO truck loading pump	1012	3	1641	3	1631	3	1630	1	1613	1
S027	WS Feed Pump A	1018	4	1648	3	1638	2	1639	3	1622	3
S026	WS Feed Pump B	1019	4	1649	3	1639	2	1640	3	1623	3
Total Level [dBA]			34		32		30		32		30

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	1656	0	1726	0	1713	0	1667	0	1639	0
S080	1.5 MVA Transformer	1656	0	1727	0	1713	0	1667	0	1639	0
S079	1.5 MVA Transformer	1657	0	1727	0	1713	0	1667	0	1638	0
S078	1.5 MVA Transformer	1658	0	1728	0	1713	0	1667	0	1638	0
S083	10 MVA Transformer	1648	9	1719	8	1706	8	1662	2	1633	2
S084	10 MVA Transformer	1641	9	1712	8	1699	8	1655	1	1626	1
S089	13) Air Compressor - Louver	1641	14	1710	13	1693	13	1645	12	1617	12
S087	13) Air Compressor - Louver	1645	3	1714	3	1698	2	1650	0	1621	0
S086	13) Air Compressor - Louver	1648	0	1717	0	1700	0	1653	0	1624	0
S088	13) Air Compressor - Louver	1642	3	1712	2	1695	2	1648	1	1619	1
S085	13) Air Compressor - Louver	1649	0	1718	0	1701	0	1653	0	1624	0
S107	1a1 - Raw material Receiving Blower x3	1535	1	1597	1	1567	1	1508	1	1480	1
S111	1a2 - Raw and additive feed blower	1518	1	1581	1	1553	1	1496	1	1468	1
S110	1a3 - Raw and additive feed blower	1525	1	1587	1	1556	1	1498	1	1469	1
S109	1a4 - Raw and additive feed blower	1531	1	1592	1	1559	1	1499	1	1470	1
S117	1a5 - Cleaning Blower	1512	5	1575	5	1547	5	1490	4	1461	4
S116	1a6 - Cleaning Blower	1518	5	1580	5	1549	5	1491	4	1462	4
S115	1a7 - Cleaning Blower	1525	5	1586	5	1553	5	1492	4	1464	4
S098	2) Refrigerated Water - Louver	1623	0	1694	0	1680	0	1635	0	1606	0
S097	2) Refrigerated Water - Louver	1625	0	1695	0	1680	0	1635	0	1606	0
S096	2) Refrigerated Water - Louver	1626	0	1696	0	1681	0	1634	0	1605	0
S095	2) Refrigerated Water - Louver	1627	0	1697	0	1681	0	1634	0	1605	0
S094	2) Refrigerated Water - Louver	1629	0	1698	0	1682	0	1634	0	1605	0
S092	2) Refrigerated Water - Roof	1611	8	1682	8	1668	7	1624	5	1595	5
S093	2) Refrigerated Water - Walls	1613	1	1683	1	1667	1	1621	1	1592	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1652	12	1720	12	1701	12	1650	12	1621	13
S042	4) Waste Gas Absorption - Louver	1642	0	1707	0	1681	0	1626	0	1597	0
S043	4) Waste Gas Absorption - Louver	1623	0	1688	0	1662	0	1607	0	1578	0
S040	4) Waste Gas Absorption - Roof	1631	3	1697	3	1672	3	1618	3	1589	3
S041	4) Waste Gas Absorption - Walls	1632	7	1693	7	1672	7	1618	6	1589	6
S077a	60 MVA MVTX (NEMA-10) Core	1705	3	1777	2	1764	1	1719	1	1690	1
S076a	60 MVA MVTX (NEMA-10) Core	1709	1	1780	1	1765	1	1719	1	1690	1
S077b	60 MVA MVTX (NEMA-10) Fan	1705	8	1777	7	1764	4	1719	3	1690	3
S076b	60 MVA MVTX (NEMA-10) Fan	1709	4	1780	4	1765	4	1719	3	1690	3
S157	Air Handling Unit	1512	3	1580	3	1561	3	1513	3	1484	3
S156	Air Handling Unit	1514	3	1581	3	1562	3	1513	2	1484	3
S159	Air Handling Unit	1484	9	1552	8	1534	5	1486	4	1458	5
S158	Air Handling Unit	1486	9	1553	8	1534	5	1486	4	1457	5
S169	Air Handling Unit	1459	9	1527	8	1507	5	1459	5	1430	5
S168	Air Handling Unit	1461	9	1528	5	1508	5	1459	5	1430	5
S171	Air Handling Unit	1431	9	1498	5	1478	5	1429	5	1401	5
S170	Air Handling Unit	1433	5	1500	5	1479	5	1430	5	1401	5
S173	Air Handling Unit	1402	6	1469	5	1448	5	1400	5	1371	5
S150	Air Handling Unit	1473	5	1538	5	1514	5	1461	5	1433	5
S151	Air Handling Unit	1466	5	1531	5	1507	5	1455	5	1426	5
S172	Air Handling Unit	1404	6	1470	5	1449	5	1400	5	1371	5
S108	Air Handling Unit	1524	0	1588	0	1560	0	1504	0	1476	0
S175	Air Handling Unit	1378	6	1444	5	1423	5	1375	5	1346	5
S178	Air Handling Unit	1353	6	1419	5	1400	5	1352	5	1323	5

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	1547	1	1610	1	1581	1	1524	1	1495	1
S174	Air Handling Unit	1380	6	1446	5	1424	5	1375	5	1346	5
S179	Air Handling Unit	1347	6	1414	5	1394	6	1346	5	1317	5
S105	Air Handling Unit	1549	1	1611	1	1582	1	1524	1	1495	1
S142	Air Handling Unit	1468	5	1531	5	1504	5	1449	5	1420	5
S143	Air Handling Unit	1461	5	1524	5	1497	5	1442	5	1413	5
S180	Air Handling Unit	1318	6	1384	5	1364	6	1316	5	1287	5
S120	Air Handling Unit	1487	5	1550	5	1520	5	1463	5	1434	5
S176	Air Handling Unit	1359	6	1424	5	1400	6	1349	5	1320	5
S181	Air Handling Unit	1311	6	1377	5	1357	6	1309	5	1280	5
S123	Air Handling Unit	1480	5	1543	5	1513	5	1456	5	1427	5
S177	Air Handling Unit	1352	6	1417	5	1393	6	1342	5	1313	5
S119	Air Handling Unit	1492	5	1553	5	1522	5	1463	5	1435	5
S122	Air Handling Unit	1485	5	1546	5	1515	5	1456	5	1427	5
S144	Air Handling Unit	1400	5	1463	5	1434	5	1378	5	1349	5
S145	Air Handling Unit	1394	5	1456	5	1427	5	1371	5	1343	5
S126	Air Handling Unit	1435	5	1497	5	1466	5	1408	5	1379	5
S118	Air Handling Unit	1498	5	1559	5	1525	5	1465	5	1436	5
S121	Air Handling Unit	1491	5	1552	5	1518	5	1458	5	1429	5
S125	Air Handling Unit	1442	5	1502	5	1469	5	1409	5	1381	5
S182	Air Handling Unit	1240	10	1304	9	1282	10	1234	7	1205	7
S183	Air Handling Unit	1233	10	1298	9	1275	10	1227	7	1198	7
S124	Air Handling Unit	1446	5	1506	5	1471	5	1410	5	1382	5
S138	Air Handling Unit	1368	6	1428	5	1395	6	1337	5	1308	6
S141	Air Handling Unit	1361	6	1421	9	1388	10	1330	5	1301	6
S137	Air Handling Unit	1375	6	1434	5	1399	10	1339	5	1310	6
S148	Air Handling Unit	1277	10	1338	9	1308	10	1253	8	1224	8
S140	Air Handling Unit	1368	6	1427	9	1392	10	1331	5	1302	6
S147	Air Handling Unit	1279	10	1340	9	1309	10	1253	8	1225	8
S136	Air Handling Unit	1380	6	1438	9	1402	10	1340	5	1311	6
S139	Air Handling Unit	1373	6	1431	9	1394	10	1332	5	1304	6
S044	Carbon Bed - 3x Blowers (Stack)	1645	8	1710	8	1686	8	1631	8	1603	8
S034	Coaguration tank ejection pump	1665	0	1730	0	1705	0	1650	0	1622	0
S062	Cooling Tower Louver	1622	1	1691	1	1672	1	1623	0	1594	0
S064	Cooling Tower Louver	1617	1	1685	1	1667	1	1617	0	1588	0
S066	Cooling Tower Louver	1612	1	1680	1	1661	1	1612	0	1583	0
S068	Cooling Tower Louver	1607	1	1675	1	1656	1	1607	0	1578	0
S061	Cooling Tower Louver	1624	0	1692	0	1672	0	1622	1	1593	1
S070	Cooling Tower Louver	1601	1	1669	1	1650	1	1600	0	1572	0
S063	Cooling Tower Louver	1619	0	1686	0	1667	0	1617	1	1588	1
S065	Cooling Tower Louver	1613	0	1681	0	1662	0	1612	1	1583	1
S072	Cooling Tower Louver	1596	1	1664	1	1645	1	1596	1	1567	1
S067	Cooling Tower Louver	1608	0	1676	0	1656	0	1606	1	1577	1
S069	Cooling Tower Louver	1603	0	1671	0	1651	0	1601	1	1572	1
S071	Cooling Tower Louver	1598	0	1666	0	1646	0	1596	1	1567	1
S053	Cooling Tower Top	1623	8	1691	8	1672	8	1622	8	1593	8
S054	Cooling Tower Top	1618	8	1686	8	1667	8	1617	8	1588	8
S055	Cooling Tower Top	1613	8	1681	8	1661	8	1612	8	1583	8
S056	Cooling Tower Top	1607	8	1675	8	1656	8	1606	8	1577	8

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	1602	8	1670	8	1650	8	1601	8	1572	8
S058	Cooling Tower Top	1597	8	1665	8	1645	8	1596	8	1567	8
S073	Cooling water pump A	1621	17	1689	16	1671	16	1623	16	1594	16
S074	Cooling water pump B	1616	17	1684	16	1666	16	1617	16	1588	16
S075	Cooling water pump C	1610	17	1679	16	1661	16	1612	16	1583	16
S163	Dehumidifier Fan	1473	6	1541	6	1524	6	1478	4	1449	4
S162	Dehumidifier Fan	1476	6	1544	6	1525	6	1477	4	1448	4
S161	Dehumidifier Fan	1480	6	1547	6	1526	6	1477	4	1448	4
S160	Dehumidifier Fan	1483	6	1550	6	1527	6	1477	4	1448	4
S013	Distillation Column Reflex Pump	1671	3	1735	3	1708	2	1651	2	1622	2
S008	Distillation Pump 2	1677	11	1742	14	1715	10	1659	9	1630	9
ust Fan	Dryer	1465	6	1534	6	1517	6	1469	4	1440	4
ust Fan	Dryer	1469	6	1536	6	1517	6	1469	4	1440	4
ust Fan	Dryer	1472	6	1539	6	1518	6	1469	4	1440	4
ust Fan	Dryer	1476	6	1542	6	1520	6	1470	4	1441	4
S091	EF-046 Motor	1645	6	1714	6	1697	6	1649	5	1620	5
S090	EF-046 Stack	1645	12	1714	8	1698	8	1650	8	1621	8
S032	EM Feed Pump 2 A	1625	7	1689	7	1663	3	1607	3	1578	3
S031	EM Feed Pump 2 B	1631	8	1696	8	1670	4	1614	3	1585	3
S018	EM truck unloading pump	1639	1	1702	1	1673	1	1615	1	1586	1
S030	EML Feed Pump A	1635	2	1699	1	1673	0	1617	0	1588	0
S029	EML Feed Pump B	1640	2	1705	2	1678	1	1622	0	1594	0
S129	Exhaust Fan	1395	5	1456	5	1425	5	1367	4	1338	4
S128	Exhaust Fan	1402	5	1462	5	1428	5	1368	4	1339	4
S127	Exhaust Fan	1409	5	1468	5	1432	5	1370	4	1341	4
S114b	Exhaust Fan Motor	1517	0	1580	0	1552	0	1495	0	1466	0
S113b	Exhaust Fan Motor	1524	0	1586	0	1555	0	1496	0	1468	0
S112b	Exhaust Fan Motor	1530	0	1591	0	1558	0	1498	0	1469	0
S051	Exhaust Fan Motor - Aux 3	1652	6	1720	6	1700	6	1650	5	1621	5
S045	Exhaust Fan Motor - Aux 4	1644	6	1710	6	1685	6	1631	5	1602	5
S047	Exhaust Fan Motor - Aux 4	1637	1	1703	1	1679	1	1625	1	1596	1
S049	Exhaust Fan Motor - Aux 4	1621	1	1687	1	1662	1	1608	1	1579	1
S114a	Exhaust Fan Opening	1517	0	1580	0	1552	0	1495	0	1466	0
S113a	Exhaust Fan Opening	1524	0	1586	0	1555	0	1496	0	1468	0
S112a	Exhaust Fan Opening	1531	0	1591	0	1558	0	1498	0	1469	0
S082	Exhaust Fan Short - Aux 12	1646	6	1716	6	1702	5	1656	4	1627	4
S146	Exhaust Fan Short - Machine Room	1329	7	1390	7	1360	7	1304	7	1275	7
S153	Exhaust Fan Short - Mezzanine	1416	5	1480	5	1455	5	1402	5	1374	5
S154	Exhaust Fan Short - Mezzanine	1376	5	1439	5	1413	5	1360	5	1331	6
S155	Exhaust Fan Short - Mezzanine	1337	6	1400	5	1373	5	1319	6	1290	6
S046	Exhaust Fan Stack - Aux 4	1638	1	1704	1	1680	1	1626	1	1597	1
S048	Exhaust Fan Stack - Aux 4	1622	1	1687	1	1663	1	1609	1	1580	1
S100	Exhaust Fan Stack- Aux 2	1611	12	1682	11	1667	11	1621	8	1593	8
S099	Exhaust Fan Stack- Aux 2	1614	12	1683	11	1668	8	1621	8	1592	8
S132	Exhaust From Buffer Zone	1384	5	1445	5	1413	5	1355	4	1327	4
S135	Exhaust From Buffer Zone	1374	5	1434	5	1402	5	1344	4	1316	4
S131	Exhaust From Buffer Zone	1391	5	1451	5	1416	5	1356	4	1328	4
S134	Exhaust From Buffer Zone	1381	5	1440	5	1406	5	1346	4	1317	4
S130	Exhaust From Buffer Zone	1399	5	1457	5	1420	5	1358	4	1329	4

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Source ID	Source Name	Point of Reception R14		Point of Reception R15		Point of Reception R16		Point of Reception R17		Point of Reception R17g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	1389	5	1447	5	1410	5	1348	4	1319	4
S038	Filtrate solution pump	1661	0	1727	0	1703	0	1649	0	1621	0
S011	Flash Tank Bottom Pump	1675	1	1739	1	1712	0	1655	0	1626	0
S009	Flash Tank Drain Pump	1678	1	1742	1	1715	0	1658	0	1629	0
S010	Flash Tank Vacuum Pump	1677	4	1742	4	1715	3	1658	3	1629	3
S035	Flushing oil feed pump	1663	0	1729	0	1704	0	1650	0	1621	0
S016	LP feed pump A	1639	3	1703	1	1676	1	1618	1	1590	1
S017	LP feed pump B	1637	3	1701	1	1673	1	1616	1	1587	1
S019	LP truck unloading pump	1637	1	1701	1	1672	1	1613	1	1585	1
S012	Reboiler Circulation Pump	1670	10	1735	10	1708	6	1652	5	1623	5
S039	RLP Circulation 2nd Pump	1665	1	1732	0	1709	0	1655	0	1626	0
S037	RLP Circulation Pump	1667	1	1733	0	1709	0	1655	0	1626	0
S014	RLP feed pump A	1648	4	1712	4	1685	1	1628	1	1599	1
S015	RLP feed pump B	1646	4	1710	4	1682	1	1625	1	1596	1
S149	Roof Top Unit	1515	0	1581	0	1558	0	1506	0	1477	0
S152	Roof Top Unit	1431	2	1496	2	1471	2	1419	2	1390	2
S184	Roof Top Unit	1234	4	1296	4	1269	4	1216	3	1187	3
S102	Roof Top Unit	1333	2	1388	2	1346	5	1280	3	1251	3
S103	Roof Top Unit	1308	2	1362	5	1320	5	1253	3	1225	3
S101	Roof Top Unit	1309	5	1363	5	1318	5	1250	3	1221	3
S104	Roof Top Unit	1277	5	1331	5	1287	5	1220	3	1191	4
S001a	T1 - 160 MVA HVTX (NEMA) Core	1818	16	1888	15	1871	16	1822	14	1793	15
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1818	7	1888	7	1871	7	1822	6	1793	6
S002a	T2 - 160 MVA HVTX (NEMA) Core	1847	16	1918	15	1901	15	1852	14	1823	14
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1847	7	1918	6	1901	7	1852	6	1823	6
S003a	T3 - 160 MVA HVTX (NEMA) Core	1876	15	1946	15	1930	15	1881	14	1852	14
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1876	7	1946	6	1930	6	1881	5	1852	6
S004a	T4 - 160 MVA HVTX (NEMA) Core	1906	15	1976	15	1960	15	1911	14	1883	14
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1906	6	1976	6	1960	6	1911	5	1883	5
S005a	T5 - 160 MVA HVTX (NEMA) Core	1934	15	2005	15	1990	15	1941	14	1912	14
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1934	6	2005	6	1990	6	1941	5	1912	5
S006a	T6 - 160 MVA HVTX (NEMA) Core	1964	19	2035	14	2019	15	1971	13	1942	14
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1964	10	2035	6	2019	6	1971	5	1942	5
S185	Truck Pass By	1465	18	1530	18	1497	19	1445	15	1416	15
S033	VAC Truck	1608	0	1672	0	1644	0	1588	0	1559	0
S021	VAC Truck	1612	0	1676	0	1647	0	1589	0	1560	0
S023	Washed EM Feed Pump A	1651	5	1716	4	1690	5	1634	1	1605	1
S022	Washed EM Feed Pump B	1652	1	1717	5	1691	5	1635	2	1606	2
S007	Wastewater Blower Intake	1735	9	1800	9	1775	9	1719	8	1690	8
S025	WEM Feed Pump A	1648	3	1713	5	1687	13	1632	7	1603	7
S024	WEM Feed Pump B	1650	4	1714	5	1689	13	1633	7	1604	8
S028	WH Pump	1645	5	1709	4	1683	2	1627	1	1598	1
S036	WLP Booster Pump	1666	0	1732	0	1708	0	1654	0	1625	0
S020	WO truck loading pump	1636	1	1699	1	1670	1	1612	1	1583	1
S027	WS Feed Pump A	1646	4	1711	5	1685	13	1629	7	1601	7
S026	WS Feed Pump B	1647	4	1712	5	1686	13	1630	7	1602	7
Total Level [dBA]			31		30		30		29		29

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	1756	0	1739	0	1738	0	1723	0	1370	0
S080	1.5 MVA Transformer	1756	0	1739	0	1738	0	1722	0	1368	0
S079	1.5 MVA Transformer	1756	0	1739	0	1737	0	1722	0	1367	0
S078	1.5 MVA Transformer	1756	0	1739	0	1737	0	1721	0	1365	0
S083	10 MVA Transformer	1751	1	1734	1	1735	3	1719	1	1372	1
S084	10 MVA Transformer	1744	0	1727	0	1728	2	1712	0	1367	0
S089	13) Air Compressor - Louver	1733	8	1716	7	1712	16	1697	13	1336	16
S087	13) Air Compressor - Louver	1738	0	1721	0	1717	0	1702	0	1341	0
S086	13) Air Compressor - Louver	1740	0	1723	0	1719	0	1704	0	1342	0
S088	13) Air Compressor - Louver	1735	0	1718	0	1715	0	1699	0	1339	0
S085	13) Air Compressor - Louver	1740	0	1723	0	1718	0	1703	0	1339	0
S107	1a1 - Raw material Receiving Blower x3	1590	0	1573	0	1556	1	1540	1	1156	1
S111	1a2 - Raw and additive feed blower	1580	1	1562	1	1548	1	1533	1	1162	2
S110	1a3 - Raw and additive feed blower	1580	0	1562	0	1545	1	1530	1	1148	1
S109	1a4 - Raw and additive feed blower	1580	1	1562	1	1543	1	1527	1	1135	2
S117	1a5 - Cleaning Blower	1573	2	1556	2	1542	5	1526	3	1157	7
S116	1a6 - Cleaning Blower	1572	2	1555	2	1538	5	1523	3	1143	7
S115	1a7 - Cleaning Blower	1573	2	1556	2	1536	5	1520	3	1130	7
S098	2) Refrigerated Water - Louver	1724	0	1707	0	1707	0	1692	0	1347	0
S097	2) Refrigerated Water - Louver	1723	0	1706	0	1705	0	1690	0	1342	0
S096	2) Refrigerated Water - Louver	1723	0	1706	0	1704	0	1688	0	1337	0
S095	2) Refrigerated Water - Louver	1722	0	1705	0	1702	0	1687	0	1333	0
S094	2) Refrigerated Water - Louver	1722	0	1705	0	1701	0	1686	0	1329	0
S092	2) Refrigerated Water - Roof	1706	5	1689	5	1688	6	1673	5	1329	6
S093	2) Refrigerated Water - Walls	1708	0	1690	0	1690	1	1675	0	1329	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1736	12	1719	12	1711	12	1696	12	1321	14
S042	4) Waste Gas Absorption - Louver	1710	1	1692	1	1678	3	1663	3	1268	32
S043	4) Waste Gas Absorption - Louver	1691	0	1673	0	1659	3	1644	3	1253	27
S040	4) Waste Gas Absorption - Roof	1703	1	1685	1	1671	2	1655	2	1268	6
S041	4) Waste Gas Absorption - Walls	1702	5	1684	5	1673	8	1657	8	1267	13
S077a	60 MVA MVTX (NEMA-10) Core	1808	0	1790	0	1789	1	1774	0	1412	0
S076a	60 MVA MVTX (NEMA-10) Core	1807	0	1789	0	1786	1	1771	0	1402	2
S077b	60 MVA MVTX (NEMA-10) Fan	1808	2	1790	1	1789	4	1774	2	1412	1
S076b	60 MVA MVTX (NEMA-10) Fan	1807	2	1789	1	1786	4	1771	1	1402	6
S157	Air Handling Unit	1601	1	1584	1	1582	3	1566	1	1235	5
S156	Air Handling Unit	1600	1	1583	1	1580	3	1565	1	1230	5
S159	Air Handling Unit	1575	4	1557	4	1557	5	1542	4	1221	7
S158	Air Handling Unit	1574	4	1557	4	1556	5	1540	4	1216	7
S169	Air Handling Unit	1546	4	1529	4	1528	5	1513	5	1195	7
S168	Air Handling Unit	1546	4	1529	4	1527	5	1511	5	1189	7
S171	Air Handling Unit	1517	4	1500	4	1500	5	1484	5	1174	7
S170	Air Handling Unit	1517	4	1500	5	1498	5	1483	5	1169	7
S173	Air Handling Unit	1487	5	1470	5	1470	6	1455	5	1153	8
S150	Air Handling Unit	1547	4	1530	4	1523	5	1507	5	1168	7
S151	Air Handling Unit	1540	4	1523	4	1516	5	1501	5	1163	7
S172	Air Handling Unit	1487	5	1470	5	1469	6	1454	5	1148	8
S108	Air Handling Unit	1588	0	1571	0	1558	0	1542	0	1173	0
S175	Air Handling Unit	1463	5	1445	5	1446	6	1431	5	1137	8
S178	Air Handling Unit	1440	5	1423	4	1426	6	1411	5	1130	8

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	1606	0	1589	0	1574	1	1558	1	1178	1
S174	Air Handling Unit	1462	5	1445	5	1445	6	1429	5	1131	8
S179	Air Handling Unit	1435	5	1418	4	1421	6	1406	5	1126	8
S105	Air Handling Unit	1606	0	1589	0	1573	1	1557	1	1173	1
S142	Air Handling Unit	1533	4	1516	4	1505	5	1490	5	1141	7
S143	Air Handling Unit	1526	4	1509	5	1499	5	1483	5	1135	7
S180	Air Handling Unit	1405	4	1388	4	1391	6	1376	4	1106	8
S120	Air Handling Unit	1546	4	1528	4	1515	5	1499	5	1134	11
S176	Air Handling Unit	1436	5	1419	5	1417	6	1402	5	1105	7
S181	Air Handling Unit	1398	3	1381	3	1384	6	1369	3	1101	8
S123	Air Handling Unit	1539	4	1521	4	1508	5	1492	5	1129	11
S177	Air Handling Unit	1429	5	1412	5	1411	6	1395	5	1101	7
S119	Air Handling Unit	1546	4	1528	4	1512	5	1497	5	1124	11
S122	Air Handling Unit	1538	4	1521	4	1505	5	1489	5	1118	11
S144	Air Handling Unit	1462	5	1445	5	1436	9	1420	5	1090	8
S145	Air Handling Unit	1456	5	1438	5	1429	9	1414	5	1085	8
S126	Air Handling Unit	1491	5	1474	5	1460	5	1445	5	1094	12
S118	Air Handling Unit	1546	4	1529	4	1510	9	1494	5	1112	11
S121	Air Handling Unit	1539	4	1521	4	1503	9	1487	5	1106	12
S125	Air Handling Unit	1491	5	1474	5	1457	5	1442	5	1079	12
S182	Air Handling Unit	1323	5	1306	5	1312	10	1297	5	1055	12
S183	Air Handling Unit	1316	5	1299	5	1305	10	1290	5	1051	13
S124	Air Handling Unit	1491	5	1474	5	1455	9	1440	5	1070	12
S138	Air Handling Unit	1420	5	1403	5	1390	10	1375	5	1043	12
S141	Air Handling Unit	1413	5	1395	5	1383	10	1368	5	1037	12
S137	Air Handling Unit	1420	5	1403	5	1387	10	1371	5	1027	12
S148	Air Handling Unit	1338	5	1321	5	1316	10	1301	6	1016	12
S140	Air Handling Unit	1413	5	1395	5	1380	10	1364	5	1022	12
S147	Air Handling Unit	1338	5	1321	5	1314	10	1299	6	1010	12
S136	Air Handling Unit	1420	5	1403	5	1385	10	1370	5	1018	12
S139	Air Handling Unit	1413	5	1396	5	1378	10	1362	5	1012	12
S044	Carbon Bed - 3x Blowers (Stack)	1715	4	1698	4	1685	8	1669	8	1277	14
S034	Coaguration tank ejection pump	1734	0	1717	0	1702	2	1687	2	1288	7
S062	Cooling Tower Louver	1709	0	1692	0	1686	0	1671	0	1307	0
S064	Cooling Tower Louver	1704	0	1687	0	1681	0	1666	0	1303	0
S066	Cooling Tower Louver	1699	0	1681	0	1676	0	1660	0	1299	0
S068	Cooling Tower Louver	1693	0	1676	0	1670	0	1655	0	1295	0
S061	Cooling Tower Louver	1709	0	1691	0	1685	1	1669	0	1302	3
S070	Cooling Tower Louver	1688	0	1670	0	1665	0	1650	0	1290	0
S063	Cooling Tower Louver	1703	0	1686	0	1679	1	1664	0	1298	3
S065	Cooling Tower Louver	1698	0	1681	0	1674	1	1659	0	1294	3
S072	Cooling Tower Louver	1682	0	1664	0	1660	0	1644	0	1286	0
S067	Cooling Tower Louver	1693	0	1675	0	1669	1	1654	0	1290	3
S069	Cooling Tower Louver	1687	0	1670	0	1664	1	1648	0	1286	3
S071	Cooling Tower Louver	1682	0	1665	0	1659	1	1643	0	1282	3
S053	Cooling Tower Top	1709	6	1692	6	1685	8	1670	6	1305	8
S054	Cooling Tower Top	1703	6	1686	6	1680	8	1665	6	1300	8
S055	Cooling Tower Top	1698	6	1681	6	1675	8	1659	6	1296	8
S056	Cooling Tower Top	1693	6	1675	6	1669	8	1654	6	1292	7

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	1687	6	1670	6	1664	8	1649	6	1288	7
S058	Cooling Tower Top	1682	6	1665	6	1659	8	1644	6	1284	7
S073	Cooling water pump A	1710	9	1692	9	1688	17	1672	9	1312	4
S074	Cooling water pump B	1704	9	1687	8	1683	17	1667	9	1308	4
S075	Cooling water pump C	1699	9	1682	8	1677	17	1662	8	1304	4
S163	Dehumidifier Fan	1566	4	1549	3	1550	6	1535	3	1221	8
S162	Dehumidifier Fan	1565	3	1548	3	1547	6	1532	3	1211	8
S161	Dehumidifier Fan	1564	3	1547	3	1544	6	1529	3	1200	8
S160	Dehumidifier Fan	1563	3	1546	3	1541	6	1525	4	1190	8
S013	Distillation Column Reflex Pump	1733	0	1716	0	1699	2	1683	2	1273	9
S008	Distillation Pump 2	1742	2	1725	2	1708	11	1692	10	1284	18
ust Fan	Dryer	1555	3	1538	3	1533	6	1518	4	1184	8
ust Fan	Dryer	1556	3	1539	3	1536	6	1521	4	1195	8
ust Fan	Dryer	1557	3	1540	3	1539	6	1524	3	1205	8
ust Fan	Dryer	1558	4	1541	3	1543	6	1527	3	1216	8
S091	EF-046 Motor	1737	5	1719	5	1715	6	1700	5	1338	7
S090	EF-046 Stack	1737	8	1720	8	1716	8	1700	8	1338	10
S032	EM Feed Pump 2 A	1690	0	1673	0	1657	3	1642	3	1247	12
S031	EM Feed Pump 2 B	1697	0	1679	0	1664	4	1649	3	1252	14
S018	EM truck unloading pump	1697	0	1679	0	1661	1	1645	1	1237	7
S030	EML Feed Pump A	1700	0	1683	0	1667	0	1652	0	1255	4
S029	EML Feed Pump B	1705	0	1688	0	1673	1	1657	0	1259	4
S129	Exhaust Fan	1450	2	1433	2	1420	5	1405	3	1066	7
S128	Exhaust Fan	1450	2	1433	2	1417	5	1401	3	1051	8
S127	Exhaust Fan	1450	2	1433	2	1414	5	1398	3	1036	8
S114b	Exhaust Fan Motor	1578	0	1561	0	1547	0	1532	0	1162	0
S113b	Exhaust Fan Motor	1578	0	1561	0	1544	0	1528	0	1147	0
S112b	Exhaust Fan Motor	1578	0	1561	0	1541	0	1526	0	1133	0
S051	Exhaust Fan Motor - Aux 3	1736	4	1719	4	1711	6	1696	5	1321	8
S045	Exhaust Fan Motor - Aux 4	1715	1	1698	1	1684	6	1669	4	1277	8
S047	Exhaust Fan Motor - Aux 4	1709	1	1692	1	1679	1	1663	1	1275	2
S049	Exhaust Fan Motor - Aux 4	1692	1	1675	1	1662	1	1647	1	1261	2
S114a	Exhaust Fan Opening	1578	0	1561	0	1547	0	1532	0	1162	0
S113a	Exhaust Fan Opening	1578	0	1561	0	1544	0	1528	0	1146	0
S112a	Exhaust Fan Opening	1578	0	1561	0	1541	0	1526	0	1133	0
S082	Exhaust Fan Short - Aux 12	1744	1	1727	1	1726	5	1710	1	1357	2
S146	Exhaust Fan Short - Machine Room	1388	6	1371	7	1363	12	1347	7	1039	10
S153	Exhaust Fan Short - Mezzanine	1488	5	1471	5	1465	5	1450	5	1126	7
S154	Exhaust Fan Short - Mezzanine	1446	5	1429	5	1423	5	1408	5	1096	7
S155	Exhaust Fan Short - Mezzanine	1405	5	1388	5	1383	8	1368	5	1068	7
S046	Exhaust Fan Stack - Aux 4	1710	1	1692	1	1680	1	1664	1	1275	5
S048	Exhaust Fan Stack - Aux 4	1693	1	1676	1	1663	1	1648	1	1262	4
S100	Exhaust Fan Stack- Aux 2	1710	7	1693	7	1693	8	1677	7	1333	9
S099	Exhaust Fan Stack- Aux 2	1709	7	1692	7	1690	8	1675	7	1325	9
S132	Exhaust From Buffer Zone	1438	2	1421	2	1409	5	1393	3	1058	7
S135	Exhaust From Buffer Zone	1427	2	1410	2	1398	5	1382	3	1050	8
S131	Exhaust From Buffer Zone	1438	2	1421	2	1405	5	1390	3	1043	8
S134	Exhaust From Buffer Zone	1427	2	1410	2	1395	5	1379	3	1035	8
S130	Exhaust From Buffer Zone	1438	2	1421	2	1402	5	1387	3	1027	8

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Source ID	Source Name	Point of Reception R18		Point of Reception R18g		Point of Reception R19		Point of Reception R19g		Point of Reception R20	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	1428	2	1411	2	1392	5	1377	3	1020	8
S038	Filtrate solution pump	1734	0	1716	0	1704	0	1688	0	1296	0
S011	Flash Tank Bottom Pump	1737	0	1720	0	1702	0	1687	0	1277	2
S009	Flash Tank Drain Pump	1741	0	1723	0	1706	0	1690	0	1279	2
S010	Flash Tank Vacuum Pump	1740	0	1723	0	1705	4	1690	3	1279	11
S035	Flushing oil feed pump	1734	0	1717	0	1703	0	1688	0	1292	7
S016	LP feed pump A	1701	0	1684	0	1666	1	1651	1	1247	7
S017	LP feed pump B	1698	0	1681	0	1664	1	1648	1	1245	7
S019	LP truck unloading pump	1695	0	1678	0	1659	1	1644	1	1236	7
S012	Reboiler Circulation Pump	1734	1	1717	1	1700	7	1685	6	1277	14
S039	RLP Circulation 2nd Pump	1739	0	1722	0	1710	0	1694	0	1302	2
S037	RLP Circulation Pump	1739	0	1722	0	1709	0	1693	0	1298	10
S014	RLP feed pump A	1710	0	1693	0	1676	1	1660	1	1255	7
S015	RLP feed pump B	1708	0	1690	0	1673	1	1658	1	1253	7
S149	Roof Top Unit	1591	0	1574	0	1567	0	1552	0	1203	0
S152	Roof Top Unit	1504	1	1487	1	1481	2	1466	1	1138	3
S184	Roof Top Unit	1303	2	1286	2	1286	5	1271	2	1014	7
S102	Roof Top Unit	1358	2	1341	2	1319	5	1303	2	951	7
S103	Roof Top Unit	1331	2	1314	2	1292	5	1277	2	933	7
S101	Roof Top Unit	1327	2	1310	2	1285	5	1270	2	918	7
S104	Roof Top Unit	1298	2	1280	2	1259	5	1243	2	910	8
S001a	T1 - 160 MVA HVTX (NEMA) Core	1909	14	1891	14	1883	16	1867	14	1466	23
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1909	5	1891	5	1883	7	1867	6	1466	13
S002a	T2 - 160 MVA HVTX (NEMA) Core	1939	14	1921	14	1912	16	1897	14	1491	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1939	5	1921	5	1912	7	1897	5	1491	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	1967	14	1950	14	1941	15	1925	14	1515	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1967	5	1950	5	1941	7	1925	5	1515	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	1998	13	1980	13	1971	15	1955	14	1541	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1998	5	1980	5	1971	6	1955	5	1541	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	2027	13	2010	13	2000	15	1984	13	1565	22
S005b	T5 - 160 MVA HVTX (NEMA) Fan	2027	5	2010	5	2000	6	1984	5	1565	13
S006a	T6 - 160 MVA HVTX (NEMA) Core	2057	13	2040	13	2029	15	2014	13	1591	22
S006b	T6 - 160 MVA HVTX (NEMA) Fan	2057	5	2040	5	2029	6	2014	5	1591	12
S185	Truck Pass By	1530	13	1513	13	1506	18	1490	15	1163	22
S033	VAC Truck	1671	0	1653	0	1638	0	1622	0	1229	0
S021	VAC Truck	1671	0	1654	0	1636	0	1620	0	1220	0
S023	Washed EM Feed Pump A	1717	0	1700	0	1684	2	1668	2	1268	8
S022	Washed EM Feed Pump B	1718	0	1701	0	1685	2	1669	2	1269	8
S007	Wastewater Blower Intake	1802	4	1785	4	1767	9	1752	8	1334	15
S025	WEM Feed Pump A	1715	1	1697	1	1682	9	1667	8	1268	18
S024	WEM Feed Pump B	1716	1	1699	1	1684	9	1668	8	1270	18
S028	WH Pump	1710	0	1693	0	1677	2	1662	2	1262	8
S036	WLP Booster Pump	1738	0	1721	0	1707	0	1692	0	1296	3
S020	WO truck loading pump	1694	0	1676	0	1658	1	1642	1	1234	7
S027	WS Feed Pump A	1713	1	1695	1	1680	9	1665	8	1266	18
S026	WS Feed Pump B	1714	1	1696	1	1681	9	1666	8	1267	18
Total Level [dBA]			27		27		30		28		37

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	1339	0	1092	0	1084	0	1308	1	1303	1
S080	1.5 MVA Transformer	1338	0	1090	0	1081	0	1306	1	1301	1
S079	1.5 MVA Transformer	1336	0	1088	0	1079	0	1303	1	1298	1
S078	1.5 MVA Transformer	1334	0	1085	0	1077	0	1301	1	1296	1
S083	10 MVA Transformer	1342	0	1099	1	1090	1	1320	3	1315	3
S084	10 MVA Transformer	1336	0	1095	1	1087	1	1324	2	1319	2
S089	13) Air Compressor - Louver	1306	15	1058	15	1049	15	1298	0	1294	0
S087	13) Air Compressor - Louver	1311	0	1062	0	1053	0	1297	0	1292	0
S086	13) Air Compressor - Louver	1311	0	1062	0	1053	0	1294	9	1289	9
S088	13) Air Compressor - Louver	1309	0	1061	0	1052	0	1299	0	1294	0
S085	13) Air Compressor - Louver	1309	0	1058	0	1049	0	1291	9	1286	9
S107	1a1 - Raw material Receiving Blower x3	1126	1	891	4	882	4	1305	5	1300	5
S111	1a2 - Raw and additive feed blower	1132	2	907	3	898	3	1328	7	1324	7
S110	1a3 - Raw and additive feed blower	1118	1	887	2	878	2	1313	5	1308	5
S109	1a4 - Raw and additive feed blower	1105	2	868	5	859	5	1298	7	1294	7
S117	1a5 - Cleaning Blower	1126	5	904	7	895	7	1333	4	1328	4
S116	1a6 - Cleaning Blower	1112	6	884	8	875	8	1318	4	1313	4
S115	1a7 - Cleaning Blower	1099	6	865	8	856	8	1303	4	1299	4
S098	2) Refrigerated Water - Louver	1316	0	1079	0	1070	0	1329	14	1324	14
S097	2) Refrigerated Water - Louver	1312	0	1073	0	1064	0	1324	12	1319	12
S096	2) Refrigerated Water - Louver	1307	0	1066	0	1057	0	1318	11	1313	11
S095	2) Refrigerated Water - Louver	1302	0	1060	0	1051	0	1313	12	1308	12
S094	2) Refrigerated Water - Louver	1299	0	1055	0	1046	0	1308	13	1303	13
S092	2) Refrigerated Water - Roof	1299	6	1058	8	1049	9	1328	7	1323	7
S093	2) Refrigerated Water - Walls	1299	1	1058	1	1050	1	1326	1	1321	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1291	14	1034	16	1026	16	1271	19	1266	19
S042	4) Waste Gas Absorption - Louver	1238	30	975	38	966	38	1244	34	1240	34
S043	4) Waste Gas Absorption - Louver	1222	27	964	38	956	38	1257	33	1252	33
S040	4) Waste Gas Absorption - Roof	1238	5	980	7	972	7	1260	5	1255	5
S041	4) Waste Gas Absorption - Walls	1237	12	980	15	972	15	1259	11	1254	12
S077a	60 MVA MVTX (NEMA-10) Core	1382	0	1122	2	1114	2	1281	1	1276	1
S076a	60 MVA MVTX (NEMA-10) Core	1371	1	1108	2	1100	2	1267	2	1262	2
S077b	60 MVA MVTX (NEMA-10) Fan	1382	0	1122	6	1114	6	1281	5	1276	5
S076b	60 MVA MVTX (NEMA-10) Fan	1371	5	1108	7	1100	7	1267	8	1262	8
S157	Air Handling Unit	1204	4	995	3	986	3	1380	7	1376	7
S156	Air Handling Unit	1199	4	989	2	980	2	1376	7	1371	7
S159	Air Handling Unit	1190	6	993	8	983	8	1405	7	1400	7
S158	Air Handling Unit	1185	6	986	8	977	8	1400	7	1395	7
S169	Air Handling Unit	1163	7	973	8	964	8	1417	5	1412	5
S168	Air Handling Unit	1158	7	967	8	957	8	1411	5	1407	5
S171	Air Handling Unit	1142	7	963	8	953	8	1437	5	1432	5
S170	Air Handling Unit	1138	7	956	8	947	8	1431	5	1427	5
S173	Air Handling Unit	1122	7	954	8	944	8	1458	1	1453	1
S150	Air Handling Unit	1137	7	935	8	926	8	1384	2	1380	5
S151	Air Handling Unit	1132	7	933	8	924	8	1389	1	1385	1
S172	Air Handling Unit	1117	7	947	8	937	8	1453	1	1448	1
S108	Air Handling Unit	1142	0	917	1	908	1	1327	7	1323	7
S175	Air Handling Unit	1105	7	947	8	937	8	1476	4	1471	4
S178	Air Handling Unit	1098	7	952	8	942	8	1500	4	1496	4

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	1147	1	911	9	902	9	1303	7	1298	7
S174	Air Handling Unit	1100	7	940	8	930	8	1471	4	1466	4
S179	Air Handling Unit	1094	7	950	8	941	8	1505	4	1500	4
S105	Air Handling Unit	1143	1	905	11	896	11	1298	7	1293	7
S142	Air Handling Unit	1110	7	907	9	897	9	1376	1	1371	1
S143	Air Handling Unit	1104	7	904	9	895	9	1380	1	1376	1
S180	Air Handling Unit	1074	7	943	8	933	8	1526	4	1521	4
S120	Air Handling Unit	1104	7	890	11	881	11	1349	0	1345	0
S176	Air Handling Unit	1074	6	922	6	912	6	1481	1	1476	1
S181	Air Handling Unit	1070	7	941	8	931	8	1531	4	1527	4
S123	Air Handling Unit	1098	7	887	11	878	11	1355	1	1350	1
S177	Air Handling Unit	1069	6	920	6	910	6	1486	5	1481	5
S119	Air Handling Unit	1093	9	875	11	866	11	1339	0	1334	0
S122	Air Handling Unit	1088	9	872	11	863	11	1344	1	1340	1
S144	Air Handling Unit	1058	7	883	9	873	9	1427	5	1422	5
S145	Air Handling Unit	1053	7	880	9	871	9	1432	5	1427	5
S126	Air Handling Unit	1062	7	869	11	860	11	1389	7	1384	7
S118	Air Handling Unit	1081	9	858	11	849	11	1325	7	1321	7
S121	Air Handling Unit	1076	9	855	11	846	11	1331	7	1326	7
S125	Air Handling Unit	1048	9	849	11	840	11	1375	7	1370	7
S182	Air Handling Unit	1024	10	928	8	918	9	1586	4	1582	4
S183	Air Handling Unit	1019	10	927	9	917	9	1592	4	1587	4
S124	Air Handling Unit	1039	9	836	11	826	11	1365	7	1361	7
S138	Air Handling Unit	1011	8	847	11	838	11	1442	6	1438	6
S141	Air Handling Unit	1006	8	845	11	835	11	1448	6	1443	6
S137	Air Handling Unit	996	10	826	11	817	12	1428	7	1424	7
S148	Air Handling Unit	984	10	867	9	857	9	1530	4	1526	4
S140	Air Handling Unit	991	10	824	11	815	12	1434	7	1429	7
S147	Air Handling Unit	979	10	860	9	850	9	1525	4	1521	4
S136	Air Handling Unit	986	10	813	12	803	12	1419	7	1415	7
S139	Air Handling Unit	981	10	811	12	801	12	1425	7	1420	7
S044	Carbon Bed - 3x Blowers (Stack)	1247	10	985	13	976	13	1247	11	1242	11
S034	Coaguration tank ejection pump	1258	6	989	10	980	10	1230	7	1225	7
S062	Cooling Tower Louver	1276	0	1031	0	1022	0	1298	0	1293	0
S064	Cooling Tower Louver	1272	0	1028	0	1019	0	1301	0	1296	0
S066	Cooling Tower Louver	1268	0	1025	0	1017	0	1304	0	1300	0
S068	Cooling Tower Louver	1264	0	1023	0	1014	0	1308	0	1303	0
S061	Cooling Tower Louver	1272	2	1024	8	1016	8	1292	10	1288	10
S070	Cooling Tower Louver	1260	0	1020	0	1011	0	1311	0	1306	0
S063	Cooling Tower Louver	1268	3	1022	15	1013	15	1296	10	1291	10
S065	Cooling Tower Louver	1263	3	1019	16	1010	16	1299	10	1294	10
S072	Cooling Tower Louver	1256	0	1017	0	1009	0	1315	0	1310	0
S067	Cooling Tower Louver	1259	2	1016	15	1008	14	1302	9	1297	9
S069	Cooling Tower Louver	1255	2	1014	13	1005	13	1306	9	1301	9
S071	Cooling Tower Louver	1251	2	1011	13	1003	13	1309	8	1304	8
S053	Cooling Tower Top	1274	8	1027	11	1019	11	1295	10	1290	10
S054	Cooling Tower Top	1270	7	1025	12	1016	12	1299	10	1294	10
S055	Cooling Tower Top	1266	7	1022	12	1013	12	1302	10	1297	10
S056	Cooling Tower Top	1261	7	1019	12	1011	12	1305	10	1301	10

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	1257	7	1017	12	1008	12	1309	9	1304	9
S058	Cooling Tower Top	1253	7	1014	12	1006	12	1312	9	1307	9
S073	Cooling water pump A	1281	4	1038	13	1029	13	1304	14	1299	14
S074	Cooling water pump B	1277	4	1035	13	1026	13	1307	12	1302	12
S075	Cooling water pump C	1273	4	1032	9	1024	9	1311	12	1306	12
S163	Dehumidifier Fan	1190	6	998	7	989	7	1418	4	1414	4
S162	Dehumidifier Fan	1180	6	984	7	975	7	1408	4	1403	4
S161	Dehumidifier Fan	1169	6	970	7	961	7	1397	4	1392	4
S160	Dehumidifier Fan	1159	6	956	7	947	7	1386	4	1381	5
S013	Distillation Column Reflex Pump	1243	8	967	10	959	11	1210	8	1206	8
S008	Distillation Pump 2	1255	17	978	20	970	20	1211	18	1206	18
ust Fan	Dryer	1153	6	953	7	944	7	1391	4	1386	4
ust Fan	Dryer	1163	6	967	7	958	7	1402	4	1397	4
ust Fan	Dryer	1174	6	981	7	972	7	1413	4	1408	4
ust Fan	Dryer	1185	6	995	7	986	7	1424	4	1419	4
S091	EF-046 Motor	1307	6	1058	9	1049	9	1294	9	1289	9
S090	EF-046 Stack	1308	10	1058	12	1050	12	1294	11	1289	11
S032	EM Feed Pump 2 A	1216	11	956	16	948	16	1250	13	1245	13
S031	EM Feed Pump 2 B	1222	13	960	16	951	16	1246	13	1241	13
S018	EM truck unloading pump	1207	7	938	9	929	10	1226	10	1222	10
S030	EML Feed Pump A	1224	4	961	6	953	6	1243	4	1239	4
S029	EML Feed Pump B	1229	4	964	6	956	6	1240	4	1235	4
S129	Exhaust Fan	1035	6	859	7	850	7	1422	3	1417	3
S128	Exhaust Fan	1020	6	838	8	829	8	1407	3	1403	3
S127	Exhaust Fan	1005	6	818	8	808	8	1393	3	1389	3
S114b	Exhaust Fan Motor	1132	0	908	1	899	1	1330	9	1326	9
S113b	Exhaust Fan Motor	1116	0	886	1	877	1	1313	9	1308	9
S112b	Exhaust Fan Motor	1103	0	867	2	858	2	1298	9	1294	9
S051	Exhaust Fan Motor - Aux 3	1290	6	1034	9	1025	9	1271	10	1266	10
S045	Exhaust Fan Motor - Aux 4	1247	7	984	12	976	13	1248	10	1243	10
S047	Exhaust Fan Motor - Aux 4	1244	2	985	5	976	5	1255	3	1250	3
S049	Exhaust Fan Motor - Aux 4	1231	2	976	5	967	5	1265	3	1261	3
S114a	Exhaust Fan Opening	1131	0	908	0	898	0	1330	6	1325	6
S113a	Exhaust Fan Opening	1116	0	885	1	876	1	1313	6	1308	6
S112a	Exhaust Fan Opening	1103	0	866	1	857	1	1298	6	1293	6
S082	Exhaust Fan Short - Aux 12	1327	1	1081	9	1073	9	1310	10	1305	10
S146	Exhaust Fan Short - Machine Room	1007	10	864	11	854	11	1483	6	1479	6
S153	Exhaust Fan Short - Mezzanine	1094	7	915	8	906	8	1427	4	1422	4
S154	Exhaust Fan Short - Mezzanine	1065	7	902	8	893	8	1457	5	1453	5
S155	Exhaust Fan Short - Mezzanine	1037	7	892	8	882	9	1487	5	1483	5
S046	Exhaust Fan Stack - Aux 4	1245	4	985	6	977	6	1254	4	1249	4
S048	Exhaust Fan Stack - Aux 4	1232	4	976	5	968	6	1265	3	1260	3
S100	Exhaust Fan Stack- Aux 2	1302	9	1067	11	1058	11	1333	10	1328	10
S099	Exhaust Fan Stack- Aux 2	1295	9	1057	11	1048	11	1324	10	1319	10
S132	Exhaust From Buffer Zone	1026	6	855	7	846	7	1430	3	1426	3
S135	Exhaust From Buffer Zone	1018	6	852	7	842	8	1438	3	1434	3
S131	Exhaust From Buffer Zone	1011	6	835	8	825	8	1416	3	1412	3
S134	Exhaust From Buffer Zone	1004	6	832	8	822	8	1425	3	1420	3
S130	Exhaust From Buffer Zone	996	6	814	8	804	8	1402	3	1398	3

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Source ID	Source Name	Point of Reception R20g		Point of Reception R21		Point of Reception R21g		Point of Reception R22		Point of Reception R22g	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	989	6	811	8	801	8	1410	3	1406	3
S038	Filtrate solution pump	1266	0	1000	9	992	9	1241	7	1236	7
S011	Flash Tank Bottom Pump	1247	2	970	3	962	3	1208	2	1204	2
S009	Flash Tank Drain Pump	1249	2	971	3	963	3	1206	2	1201	2
S010	Flash Tank Vacuum Pump	1250	9	972	12	964	12	1207	9	1202	9
S035	Flushing oil feed pump	1262	6	994	9	986	10	1235	7	1230	7
S016	LP feed pump A	1217	7	950	9	942	9	1232	10	1228	10
S017	LP feed pump B	1215	7	949	9	941	9	1234	10	1230	10
S019	LP truck unloading pump	1206	7	937	9	929	10	1227	10	1222	10
S012	Reboiler Circulation Pump	1247	13	972	16	964	16	1214	14	1209	14
S039	RLP Circulation 2nd Pump	1272	1	1005	12	996	13	1239	10	1234	10
S037	RLP Circulation Pump	1268	10	1000	13	992	13	1234	10	1229	10
S014	RLP feed pump A	1225	7	955	9	947	9	1226	10	1222	10
S015	RLP feed pump B	1223	7	954	9	946	9	1228	10	1223	10
S149	Roof Top Unit	1172	0	956	0	947	0	1356	2	1352	2
S152	Roof Top Unit	1107	2	922	3	913	3	1416	1	1411	1
S184	Roof Top Unit	983	5	888	4	878	5	1575	1	1571	1
S102	Roof Top Unit	920	5	767	7	758	7	1449	2	1445	2
S103	Roof Top Unit	901	5	762	7	752	7	1471	2	1466	2
S101	Roof Top Unit	886	5	746	7	736	7	1466	2	1461	2
S104	Roof Top Unit	879	6	757	7	747	7	1498	2	1494	2
S001a	T1 - 160 MVA HVTX (NEMA) Core	1436	20	1141	22	1134	22	1182	21	1177	21
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1436	11	1141	13	1134	13	1182	13	1177	13
S002a	T2 - 160 MVA HVTX (NEMA) Core	1461	19	1160	21	1153	21	1166	21	1161	22
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1461	11	1160	13	1153	13	1166	13	1161	13
S003a	T3 - 160 MVA HVTX (NEMA) Core	1486	19	1179	21	1171	21	1153	22	1148	22
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1486	10	1179	13	1171	13	1153	13	1148	13
S004a	T4 - 160 MVA HVTX (NEMA) Core	1511	19	1199	21	1192	21	1138	22	1133	22
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1511	10	1199	12	1192	12	1138	13	1133	13
S005a	T5 - 160 MVA HVTX (NEMA) Core	1536	19	1219	21	1211	21	1125	20	1120	20
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1536	10	1219	12	1211	12	1125	11	1120	11
S006a	T6 - 160 MVA HVTX (NEMA) Core	1562	18	1239	20	1232	20	1112	19	1107	19
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1562	10	1239	12	1232	12	1112	10	1107	11
S185	Truck Pass By	1135	20	939	21	932	21	1414	14	1409	14
S033	VAC Truck	1199	0	943	0	935	0	1260	0	1255	0
S021	VAC Truck	1190	0	930	0	921	0	1248	0	1243	0
S023	Washed EM Feed Pump A	1238	8	970	10	961	10	1232	8	1227	8
S022	Washed EM Feed Pump B	1239	8	970	10	962	10	1231	8	1227	8
S007	Wastewater Blower Intake	1304	13	1013	15	1005	15	1174	13	1169	13
S025	WEM Feed Pump A	1238	18	972	20	964	21	1236	17	1231	18
S024	WEM Feed Pump B	1239	18	973	20	964	21	1235	17	1230	18
S028	WH Pump	1232	8	966	11	958	11	1236	8	1232	8
S036	WLP Booster Pump	1266	2	997	4	989	4	1233	2	1228	2
S020	WO truck loading pump	1204	7	936	9	928	10	1228	10	1223	10
S027	WS Feed Pump A	1236	18	971	20	962	21	1237	17	1233	18
S026	WS Feed Pump B	1237	18	971	20	963	21	1237	17	1232	18
Total Level [dBA]			35		42		42		38		38

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Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	768	5	903	4	1046	2	922	1	1058	0
S080	1.5 MVA Transformer	767	5	903	4	1048	2	924	1	1060	0
S079	1.5 MVA Transformer	767	5	904	4	1049	2	926	1	1063	0
S078	1.5 MVA Transformer	766	5	905	4	1050	2	929	1	1065	0
S083	10 MVA Transformer	777	13	906	11	1047	9	909	17	1046	13
S084	10 MVA Transformer	784	12	912	11	1053	9	905	16	1041	13
S089	13) Air Compressor - Louver	781	15	931	23	1078	0	934	15	1067	14
S087	13) Air Compressor - Louver	777	0	926	9	1073	9	935	15	1068	12
S086	13) Air Compressor - Louver	774	18	924	15	1072	13	938	1	1071	0
S088	13) Air Compressor - Louver	780	0	928	10	1075	9	934	14	1066	11
S085	13) Air Compressor - Louver	773	18	925	15	1074	13	941	0	1074	0
S107	1a1 - Raw material Receiving Blower x3	900	11	1100	9	1255	8	980	5	1088	2
S111	1a2 - Raw and additive feed blower	913	13	1103	11	1254	10	955	6	1063	3
S110	1a3 - Raw and additive feed blower	911	10	1110	8	1265	7	976	3	1083	2
S109	1a4 - Raw and additive feed blower	909	13	1118	11	1275	10	996	4	1102	2
S117	1a5 - Cleaning Blower	920	10	1110	8	1261	7	954	9	1061	8
S116	1a6 - Cleaning Blower	918	10	1117	8	1272	7	974	9	1080	8
S115	1a7 - Cleaning Blower	916	10	1124	8	1282	7	994	9	1099	8
S098	2) Refrigerated Water - Louver	800	25	933	25	1074	20	902	1	1036	0
S097	2) Refrigerated Water - Louver	798	25	935	22	1077	20	908	0	1041	0
S096	2) Refrigerated Water - Louver	796	25	937	22	1081	20	915	8	1047	0
S095	2) Refrigerated Water - Louver	795	25	939	22	1084	20	920	8	1052	0
S094	2) Refrigerated Water - Louver	793	17	941	22	1087	20	926	8	1057	0
S092	2) Refrigerated Water - Roof	810	12	949	14	1090	12	907	14	1039	13
S093	2) Refrigerated Water - Walls	810	2	950	2	1092	1	906	2	1036	2
S050	3) Gas Boiler - Boiler Package (3x Boilers)	769	18	935	21	1088	20	963	16	1094	16
S042	4) Waste Gas Absorption - Louver	784	10	978	1	1137	0	1000	0	1124	0
S043	4) Waste Gas Absorption - Louver	803	10	996	1	1154	0	991	0	1114	0
S040	4) Waste Gas Absorption - Roof	794	9	980	10	1144	6	987	9	1113	9
S041	4) Waste Gas Absorption - Walls	795	16	981	7	1143	5	984	14	1112	13
S077a	60 MVA MVTX (NEMA-10) Core	720	6	852	4	999	3	947	9	1089	5
S076a	60 MVA MVTX (NEMA-10) Core	715	6	857	4	1007	3	961	3	1102	2
S077b	60 MVA MVTX (NEMA-10) Fan	720	13	852	10	999	8	947	16	1089	12
S076b	60 MVA MVTX (NEMA-10) Fan	715	13	857	11	1007	8	961	8	1102	7
S157	Air Handling Unit	910	11	1059	9	1198	12	878	11	994	8
S156	Air Handling Unit	908	11	1061	9	1201	7	884	10	1000	8
S159	Air Handling Unit	938	14	1083	12	1219	11	860	14	973	13
S158	Air Handling Unit	936	15	1085	12	1222	11	866	14	979	13
S169	Air Handling Unit	963	14	1112	12	1248	11	859	14	968	13
S168	Air Handling Unit	961	14	1114	12	1251	11	866	14	975	13
S171	Air Handling Unit	991	14	1140	12	1275	11	851	14	955	13
S170	Air Handling Unit	990	14	1142	12	1277	11	858	14	961	13
S173	Air Handling Unit	1021	6	1169	5	1302	5	842	14	941	13
S150	Air Handling Unit	952	14	1120	12	1263	11	900	9	1007	8
S151	Air Handling Unit	959	14	1127	12	1269	11	898	9	1003	8
S172	Air Handling Unit	1019	6	1171	5	1305	5	849	14	948	13
S108	Air Handling Unit	905	15	1092	12	1243	11	951	9	1061	2
S175	Air Handling Unit	1045	10	1193	8	1325	7	835	15	931	13
S178	Air Handling Unit	1070	9	1213	8	1342	11	819	15	911	14

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Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	885	15	1080	12	1234	11	972	9	1083	8
S174	Air Handling Unit	1044	10	1195	8	1328	7	842	14	938	13
S179	Air Handling Unit	1076	9	1219	8	1347	11	818	15	909	14
S105	Air Handling Unit	884	14	1082	12	1238	11	978	9	1089	8
S142	Air Handling Unit	962	14	1140	12	1286	11	921	9	1024	8
S143	Air Handling Unit	968	12	1147	12	1292	11	919	9	1021	12
S180	Air Handling Unit	1105	9	1248	7	1375	11	813	15	898	14
S120	Air Handling Unit	946	1	1135	1	1285	0	947	9	1051	8
S176	Air Handling Unit	1067	9	1222	8	1355	7	848	14	939	13
S181	Air Handling Unit	1112	9	1255	7	1382	7	811	15	896	14
S123	Air Handling Unit	953	1	1142	1	1291	1	945	9	1048	8
S177	Air Handling Unit	1074	9	1229	8	1362	7	847	14	936	13
S119	Air Handling Unit	944	1	1141	1	1293	0	962	9	1065	8
S122	Air Handling Unit	952	1	1147	1	1299	1	960	9	1062	8
S144	Air Handling Unit	1032	5	1208	12	1349	6	902	14	995	13
S145	Air Handling Unit	1038	6	1214	7	1356	6	901	14	992	13
S126	Air Handling Unit	1000	4	1187	12	1334	6	933	13	1028	12
S118	Air Handling Unit	943	1	1147	1	1302	0	981	9	1082	8
S121	Air Handling Unit	950	2	1154	1	1308	1	979	9	1079	8
S125	Air Handling Unit	998	4	1194	4	1344	5	953	9	1048	8
S182	Air Handling Unit	1186	8	1328	11	1452	10	803	15	873	14
S183	Air Handling Unit	1193	8	1335	11	1459	10	803	15	871	14
S124	Air Handling Unit	997	5	1199	4	1350	3	967	9	1061	8
S138	Air Handling Unit	1071	7	1255	7	1398	6	918	13	1002	13
S141	Air Handling Unit	1078	7	1262	7	1405	6	917	13	1000	13
S137	Air Handling Unit	1069	7	1262	7	1407	6	939	9	1023	8
S148	Air Handling Unit	1157	8	1324	7	1458	6	869	10	941	9
S140	Air Handling Unit	1076	7	1268	7	1414	6	938	9	1020	8
S147	Air Handling Unit	1156	8	1326	7	1461	6	876	10	948	9
S136	Air Handling Unit	1068	7	1266	6	1413	6	953	9	1036	8
S139	Air Handling Unit	1075	7	1273	7	1420	6	952	9	1034	8
S044	Carbon Bed - 3x Blowers (Stack)	780	20	970	17	1129	16	995	17	1121	16
S034	Coaguration tank ejection pump	760	13	955	11	1116	9	1010	9	1137	1
S062	Cooling Tower Louver	799	0	958	3	1107	1	939	10	1068	9
S064	Cooling Tower Louver	804	0	963	3	1111	1	937	14	1065	16
S066	Cooling Tower Louver	810	0	968	2	1116	2	934	19	1062	17
S068	Cooling Tower Louver	815	0	973	2	1121	2	932	19	1058	17
S061	Cooling Tower Louver	798	3	960	0	1110	0	945	0	1074	0
S070	Cooling Tower Louver	820	0	979	2	1126	2	929	19	1055	18
S063	Cooling Tower Louver	803	3	966	0	1115	0	943	0	1070	0
S065	Cooling Tower Louver	808	3	971	0	1120	0	940	0	1067	0
S072	Cooling Tower Louver	825	0	984	2	1130	1	927	21	1052	18
S067	Cooling Tower Louver	813	3	976	0	1124	0	938	0	1064	0
S069	Cooling Tower Louver	819	3	981	0	1129	0	935	0	1061	0
S071	Cooling Tower Louver	824	3	986	0	1134	0	933	1	1058	0
S053	Cooling Tower Top	799	16	959	13	1109	12	942	12	1070	12
S054	Cooling Tower Top	804	16	965	13	1113	11	940	13	1067	12
S055	Cooling Tower Top	809	16	969	13	1118	12	937	13	1064	12
S056	Cooling Tower Top	814	16	975	13	1123	12	935	13	1061	12

Project: Asahi Kasei Battery Separator Canada
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Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	820	16	980	13	1128	12	932	13	1058	12
S058	Cooling Tower Top	825	16	985	13	1132	12	930	13	1055	12
S073	Cooling water pump A	801	27	956	14	1103	16	932	10	1061	7
S074	Cooling water pump B	806	27	961	15	1107	13	930	12	1058	7
S075	Cooling water pump C	811	27	966	17	1112	11	927	21	1055	22
S163	Dehumidifier Fan	949	11	1089	9	1223	8	848	11	960	10
S162	Dehumidifier Fan	946	11	1093	9	1230	8	862	11	973	10
S161	Dehumidifier Fan	943	11	1097	9	1236	8	876	11	986	10
S160	Dehumidifier Fan	940	11	1101	9	1243	8	890	10	1000	9
S013	Distillation Column Reflex Pump	758	10	965	12	1130	6	1032	3	1158	3
S008	Distillation Pump 2	750	25	954	22	1119	20	1029	14	1156	9
ust Fan	Dryer	948	11	1097	9	1231	8	845	11	957	10
ust Fan	Dryer	951	11	1101	9	1237	8	859	11	969	10
ust Fan	Dryer	954	11	1105	9	1243	8	873	11	983	10
ust Fan	Dryer	957	11	1109	9	1250	8	888	10	996	9
S091	EF-046 Motor	777	14	928	16	1076	14	938	16	1071	14
S090	EF-046 Stack	777	20	928	17	1075	16	938	17	1071	16
S032	EM Feed Pump 2 A	803	20	1000	13	1159	2	999	8	1121	2
S031	EM Feed Pump 2 B	796	20	993	16	1153	2	1002	2	1125	1
S018	EM truck unloading pump	793	13	1003	10	1167	8	1026	9	1147	8
S030	EML Feed Pump A	793	9	990	7	1151	0	1004	0	1127	0
S029	EML Feed Pump B	787	9	985	7	1146	1	1006	0	1130	0
S129	Exhaust Fan	1042	4	1226	7	1370	6	920	9	1010	8
S128	Exhaust Fan	1040	4	1232	7	1379	6	942	9	1030	8
S127	Exhaust Fan	1038	4	1239	3	1389	6	963	9	1051	8
S114b	Exhaust Fan Motor	914	16	1103	14	1254	13	953	4	1061	0
S113b	Exhaust Fan Motor	912	16	1111	14	1266	12	976	2	1083	0
S112b	Exhaust Fan Motor	910	16	1119	14	1276	12	996	1	1102	0
S051	Exhaust Fan Motor - Aux 3	770	15	936	12	1089	14	963	11	1094	10
S045	Exhaust Fan Motor - Aux 4	781	19	970	16	1129	14	995	15	1120	14
S047	Exhaust Fan Motor - Aux 4	787	10	975	7	1132	6	988	7	1114	6
S049	Exhaust Fan Motor - Aux 4	804	10	990	7	1147	6	981	7	1104	6
S114a	Exhaust Fan Opening	914	13	1103	11	1254	9	953	2	1061	0
S113a	Exhaust Fan Opening	912	13	1111	11	1266	9	976	1	1083	0
S112a	Exhaust Fan Opening	910	13	1119	11	1277	9	996	0	1102	0
S082	Exhaust Fan Short - Aux 12	778	17	915	19	1059	10	921	16	1056	15
S146	Exhaust Fan Short - Machine Room	1106	9	1279	9	1417	8	888	16	968	11
S153	Exhaust Fan Short - Mezzanine	1011	8	1177	7	1316	6	883	12	980	11
S154	Exhaust Fan Short - Mezzanine	1052	8	1217	7	1355	6	873	12	964	11
S155	Exhaust Fan Short - Mezzanine	1093	8	1257	6	1392	6	866	12	950	11
S046	Exhaust Fan Stack - Aux 4	786	10	974	8	1132	6	989	7	1114	6
S048	Exhaust Fan Stack - Aux 4	803	9	990	7	1146	5	981	7	1105	5
S100	Exhaust Fan Stack- Aux 2	811	14	948	16	1089	15	901	16	1033	15
S099	Exhaust Fan Stack- Aux 2	809	14	951	16	1094	15	911	16	1042	15
S132	Exhaust From Buffer Zone	1053	4	1237	7	1380	6	919	9	1006	8
S135	Exhaust From Buffer Zone	1064	4	1248	7	1390	6	917	9	1002	8
S131	Exhaust From Buffer Zone	1051	4	1243	7	1390	6	940	9	1026	8
S134	Exhaust From Buffer Zone	1062	4	1254	7	1400	6	938	9	1022	8
S130	Exhaust From Buffer Zone	1050	4	1250	3	1400	6	961	9	1047	8

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Project Number: 24025.02

Source ID	Source Name	Point of Reception R23		Point of Reception R24		Point of Reception R25		Point of Reception VL01		Point of Reception VL02	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	1060	4	1260	3	1409	6	959	9	1043	8
S038	Filtrate solution pump	763	13	950	11	1109	9	997	6	1125	8
S011	Flash Tank Bottom Pump	754	6	961	4	1126	3	1033	0	1159	0
S009	Flash Tank Drain Pump	750	6	958	4	1124	3	1035	0	1162	0
S010	Flash Tank Vacuum Pump	751	12	958	14	1124	8	1034	7	1161	6
S035	Flushing oil feed pump	761	13	952	11	1113	9	1004	9	1132	8
S016	LP feed pump A	790	13	994	10	1157	8	1017	1	1139	1
S017	LP feed pump B	792	13	997	10	1159	8	1015	1	1137	2
S019	LP truck unloading pump	794	13	1004	10	1168	8	1025	9	1146	8
S012	Reboiler Circulation Pump	757	21	962	18	1126	16	1027	5	1154	3
S039	RLP Circulation 2nd Pump	758	17	944	14	1103	12	998	11	1127	9
S037	RLP Circulation Pump	757	17	946	14	1106	12	1003	12	1132	11
S014	RLP feed pump A	781	13	986	10	1149	8	1021	1	1144	1
S015	RLP feed pump B	783	13	988	10	1151	8	1019	1	1142	1
S149	Roof Top Unit	909	5	1077	3	1221	3	912	1	1024	1
S152	Roof Top Unit	995	8	1161	6	1301	5	886	7	986	7
S184	Roof Top Unit	1197	3	1354	2	1482	4	840	4	906	7
S102	Roof Top Unit	1129	4	1335	1	1483	2	975	1	1047	1
S103	Roof Top Unit	1156	3	1361	1	1507	2	973	1	1040	1
S101	Roof Top Unit	1161	7	1370	2	1519	2	988	2	1054	2
S104	Roof Top Unit	1190	3	1392	2	1537	2	971	1	1032	1
S001a	T1 - 160 MVA HVTX (NEMA) Core	605	28	771	29	937	23	1051	26	1197	25
S001b	T1 - 160 MVA HVTX (NEMA) Fan	605	19	771	20	937	13	1051	17	1197	15
S002a	T2 - 160 MVA HVTX (NEMA) Core	577	28	743	30	912	26	1070	25	1218	24
S002b	T2 - 160 MVA HVTX (NEMA) Fan	577	19	743	21	912	16	1070	16	1218	15
S003a	T3 - 160 MVA HVTX (NEMA) Core	549	29	717	30	889	28	1088	20	1239	19
S003b	T3 - 160 MVA HVTX (NEMA) Fan	549	20	717	21	889	19	1088	11	1239	10
S004a	T4 - 160 MVA HVTX (NEMA) Core	520	29	689	31	864	28	1108	20	1261	19
S004b	T4 - 160 MVA HVTX (NEMA) Fan	520	20	689	22	864	19	1108	11	1261	10
S005a	T5 - 160 MVA HVTX (NEMA) Core	493	29	663	31	841	28	1128	20	1282	19
S005b	T5 - 160 MVA HVTX (NEMA) Fan	493	20	663	22	841	19	1128	11	1282	10
S006a	T6 - 160 MVA HVTX (NEMA) Core	465	30	636	31	818	28	1148	20	1304	18
S006b	T6 - 160 MVA HVTX (NEMA) Fan	465	21	636	22	818	19	1148	11	1304	9
S185	Truck Pass By	993	21	1302	16	1448	14	949	20	1035	20
S033	VAC Truck	821	0	1019	0	1177	0	995	0	1114	0
S021	VAC Truck	819	0	1024	0	1185	0	1009	0	1128	0
S023	Washed EM Feed Pump A	776	14	975	12	1136	10	1012	1	1137	0
S022	Washed EM Feed Pump B	775	14	974	12	1136	10	1012	1	1137	0
S007	Wastewater Blower Intake	691	18	899	20	1069	13	1059	14	1192	13
S025	WEM Feed Pump A	778	25	975	22	1136	20	1008	4	1132	3
S024	WEM Feed Pump B	777	25	974	22	1135	20	1008	4	1133	3
S028	WH Pump	782	15	981	12	1142	10	1009	1	1133	0
S036	WLP Booster Pump	758	7	948	5	1109	4	1005	4	1133	3
S020	WO truck loading pump	796	13	1006	10	1170	8	1025	9	1145	8
S027	WS Feed Pump A	780	25	977	22	1138	20	1007	4	1131	3
S026	WS Feed Pump B	779	25	976	22	1137	20	1007	4	1132	3
Total Level [dBA]			41		41		38		36		35

Project: Asahi Kasei Battery Separator Canada
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Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S081	1.5 MVA Transformer	1069	0	1249	0	1200	0	1300	0	1534	0
S080	1.5 MVA Transformer	1071	0	1250	0	1201	0	1300	0	1533	0
S079	1.5 MVA Transformer	1072	0	1251	0	1201	0	1299	0	1531	0
S078	1.5 MVA Transformer	1073	0	1252	0	1202	0	1299	0	1530	0
S083	10 MVA Transformer	1060	9	1240	8	1193	8	1297	3	1535	1
S084	10 MVA Transformer	1053	9	1234	8	1186	8	1290	2	1529	1
S089	13) Air Compressor - Louver	1060	16	1238	16	1183	15	1274	19	1502	17
S087	13) Air Compressor - Louver	1064	7	1242	5	1188	3	1279	0	1507	0
S086	13) Air Compressor - Louver	1067	0	1245	0	1191	0	1281	0	1508	0
S088	13) Air Compressor - Louver	1061	6	1240	5	1185	3	1277	0	1505	0
S085	13) Air Compressor - Louver	1068	0	1246	0	1191	0	1280	0	1506	0
S107	1a1 - Raw material Receiving Blower x3	990	2	1155	1	1073	1	1119	1	1324	1
S111	1a2 - Raw and additive feed blower	969	3	1135	2	1057	2	1111	2	1326	2
S110	1a3 - Raw and additive feed blower	981	1	1145	1	1063	1	1109	1	1315	1
S109	1a4 - Raw and additive feed blower	992	2	1155	2	1069	2	1107	2	1305	2
S117	1a5 - Cleaning Blower	964	9	1130	8	1051	8	1105	8	1320	6
S116	1a6 - Cleaning Blower	975	9	1139	8	1057	8	1102	8	1309	6
S115	1a7 - Cleaning Blower	987	9	1149	7	1063	8	1100	8	1299	6
S098	2) Refrigerated Water - Louver	1038	0	1218	0	1168	0	1269	0	1508	0
S097	2) Refrigerated Water - Louver	1041	0	1220	0	1169	0	1267	0	1504	0
S096	2) Refrigerated Water - Louver	1044	0	1222	0	1170	0	1266	0	1500	0
S095	2) Refrigerated Water - Louver	1046	0	1224	0	1171	0	1265	0	1497	0
S094	2) Refrigerated Water - Louver	1048	0	1226	0	1172	0	1263	0	1494	0
S092	2) Refrigerated Water - Roof	1030	13	1206	12	1155	11	1250	8	1489	6
S093	2) Refrigerated Water - Walls	1030	2	1207	2	1156	1	1252	1	1488	1
S050	3) Gas Boiler - Boiler Package (3x Boilers)	1077	16	1253	14	1194	15	1274	14	1491	13
S042	4) Waste Gas Absorption - Louver	1079	0	1251	0	1181	0	1241	4	1443	20
S043	4) Waste Gas Absorption - Louver	1062	0	1233	0	1162	0	1222	4	1426	18
S040	4) Waste Gas Absorption - Roof	1063	7	1243	5	1173	6	1230	3	1444	3
S041	4) Waste Gas Absorption - Walls	1064	11	1239	10	1173	10	1231	9	1443	10
S077a	60 MVA MVTX (NEMA-10) Core	1116	3	1297	5	1251	2	1351	2	1580	0
S076a	60 MVA MVTX (NEMA-10) Core	1123	3	1303	2	1253	2	1348	2	1572	1
S077b	60 MVA MVTX (NEMA-10) Fan	1116	8	1297	11	1251	7	1351	7	1580	0
S076b	60 MVA MVTX (NEMA-10) Fan	1123	8	1303	7	1253	7	1348	6	1572	5
S157	Air Handling Unit	941	8	1115	5	1054	4	1144	4	1388	4
S156	Air Handling Unit	944	8	1118	5	1055	4	1142	4	1384	4
S159	Air Handling Unit	913	14	1087	12	1026	8	1119	8	1370	6
S158	Air Handling Unit	916	14	1090	12	1027	8	1118	8	1366	6
S169	Air Handling Unit	893	14	1065	12	1000	13	1090	8	1342	7
S168	Air Handling Unit	896	14	1068	12	1002	8	1089	8	1338	7
S171	Air Handling Unit	867	14	1038	12	972	11	1062	8	1317	7
S170	Air Handling Unit	871	14	1042	12	974	10	1061	8	1314	7
S173	Air Handling Unit	841	15	1011	13	943	9	1033	9	1293	7
S150	Air Handling Unit	916	14	1085	12	1012	8	1085	8	1321	6
S151	Air Handling Unit	910	14	1079	12	1006	8	1078	8	1315	7
S172	Air Handling Unit	845	15	1014	13	944	9	1031	9	1289	7
S108	Air Handling Unit	972	0	1139	0	1063	0	1120	0	1337	0
S175	Air Handling Unit	819	15	988	13	918	10	1008	9	1273	7
S178	Air Handling Unit	794	15	962	13	893	10	989	9	1261	7

Project: Asahi Kasei Battery Separator Canada
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Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S106	Air Handling Unit	996	1	1163	1	1085	1	1137	1	1345	1
S174	Air Handling Unit	823	15	991	13	920	9	1007	9	1269	7
S179	Air Handling Unit	789	15	957	13	887	10	983	9	1257	7
S105	Air Handling Unit	1000	1	1166	1	1087	1	1136	1	1342	1
S142	Air Handling Unit	918	14	1084	8	1006	8	1068	8	1296	7
S143	Air Handling Unit	912	12	1078	8	1000	8	1061	8	1290	7
S180	Air Handling Unit	764	13	930	10	858	10	954	9	1233	7
S120	Air Handling Unit	942	9	1107	8	1025	8	1077	8	1295	10
S176	Air Handling Unit	808	11	974	9	898	9	980	9	1241	7
S181	Air Handling Unit	758	11	924	9	851	9	947	9	1227	7
S123	Air Handling Unit	936	9	1100	8	1019	8	1070	8	1289	11
S177	Air Handling Unit	802	11	967	9	891	9	973	9	1236	7
S119	Air Handling Unit	950	9	1114	8	1030	8	1075	8	1287	10
S122	Air Handling Unit	944	9	1107	8	1023	8	1068	8	1281	10
S144	Air Handling Unit	859	10	1021	8	938	9	998	9	1237	7
S145	Air Handling Unit	854	10	1015	8	932	9	991	9	1231	7
S126	Air Handling Unit	897	10	1058	8	973	9	1023	9	1248	11
S118	Air Handling Unit	961	9	1123	7	1036	8	1074	8	1278	10
S121	Air Handling Unit	955	9	1117	8	1029	8	1066	8	1271	10
S125	Air Handling Unit	909	9	1069	8	980	9	1020	9	1237	11
S182	Air Handling Unit	696	16	857	14	779	15	875	14	1169	12
S183	Air Handling Unit	690	16	851	14	772	15	868	14	1164	12
S124	Air Handling Unit	917	9	1076	8	984	9	1019	9	1230	11
S138	Air Handling Unit	839	10	996	8	905	9	953	9	1188	11
S141	Air Handling Unit	833	10	990	8	899	9	945	9	1182	11
S137	Air Handling Unit	853	10	1008	8	913	9	950	9	1176	11
S148	Air Handling Unit	750	11	906	13	815	14	878	14	1143	12
S140	Air Handling Unit	847	10	1002	8	906	9	943	9	1170	11
S147	Air Handling Unit	755	11	910	13	817	14	877	14	1139	12
S136	Air Handling Unit	862	10	1015	8	918	9	948	11	1169	11
S139	Air Handling Unit	856	10	1009	8	911	9	941	9	1163	11
S044	Carbon Bed - 3x Blowers (Stack)	1080	12	1252	11	1185	11	1248	11	1452	10
S034	Coaguration tank ejection pump	1100	0	1272	0	1204	0	1266	2	1465	6
S062	Cooling Tower Louver	1047	3	1223	2	1164	2	1248	0	1473	0
S064	Cooling Tower Louver	1042	3	1218	2	1159	2	1243	0	1468	0
S066	Cooling Tower Louver	1037	3	1213	2	1154	2	1238	0	1464	0
S068	Cooling Tower Louver	1032	3	1208	2	1148	2	1233	0	1459	0
S061	Cooling Tower Louver	1049	0	1225	0	1165	0	1247	2	1469	1
S070	Cooling Tower Louver	1027	2	1203	2	1143	2	1227	0	1454	0
S063	Cooling Tower Louver	1045	0	1220	0	1160	0	1242	2	1465	1
S065	Cooling Tower Louver	1040	0	1215	0	1155	0	1236	2	1460	1
S072	Cooling Tower Louver	1022	2	1198	2	1138	2	1222	0	1450	0
S067	Cooling Tower Louver	1035	0	1210	0	1150	0	1231	2	1455	1
S069	Cooling Tower Louver	1030	0	1205	0	1144	0	1226	2	1451	1
S071	Cooling Tower Louver	1025	0	1200	0	1139	0	1221	2	1446	0
S053	Cooling Tower Top	1048	13	1224	11	1165	12	1247	11	1471	7
S054	Cooling Tower Top	1043	13	1219	11	1159	12	1242	11	1466	7
S055	Cooling Tower Top	1038	13	1214	11	1154	12	1237	11	1462	7
S056	Cooling Tower Top	1033	13	1209	11	1149	12	1232	11	1457	7

Project: Asahi Kasei Battery Separator Canada
Project Number: 24025.02

Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S057	Cooling Tower Top	1028	13	1204	11	1143	12	1226	11	1452	7
S058	Cooling Tower Top	1024	13	1199	11	1138	12	1221	11	1448	6
S073	Cooling water pump A	1043	23	1220	21	1163	21	1250	20	1477	4
S074	Cooling water pump B	1039	23	1215	21	1158	20	1245	20	1472	4
S075	Cooling water pump C	1034	23	1210	21	1152	20	1239	20	1468	4
S163	Dehumidifier Fan	901	11	1075	9	1015	9	1113	9	1368	7
S162	Dehumidifier Fan	907	11	1080	9	1018	9	1109	9	1359	7
S161	Dehumidifier Fan	914	11	1086	9	1021	9	1106	9	1351	7
S160	Dehumidifier Fan	921	10	1092	9	1024	9	1103	9	1342	7
S013	Distillation Column Reflex Pump	1111	5	1282	5	1210	6	1262	2	1453	7
S008	Distillation Pump 2	1115	9	1287	9	1216	17	1271	11	1464	16
ust Fan	Dryer	894	11	1068	9	1007	9	1095	9	1336	7
ust Fan	Dryer	900	11	1073	9	1010	9	1098	9	1344	7
ust Fan	Dryer	907	11	1079	9	1013	9	1101	9	1353	7
ust Fan	Dryer	915	11	1085	9	1016	9	1105	9	1361	7
S091	EF-046 Motor	1065	15	1242	13	1188	9	1277	9	1504	7
S090	EF-046 Stack	1065	16	1243	15	1188	12	1278	11	1504	9
S032	EM Feed Pump 2 A	1066	14	1236	9	1164	8	1221	4	1421	9
S031	EM Feed Pump 2 B	1071	14	1242	13	1171	8	1227	4	1427	10
S018	EM truck unloading pump	1084	5	1253	5	1177	1	1224	1	1415	6
S030	EML Feed Pump A	1075	0	1245	4	1174	2	1230	1	1430	2
S029	EML Feed Pump B	1079	0	1250	0	1179	2	1236	1	1435	3
S129	Exhaust Fan	861	10	1021	8	933	9	983	9	1215	7
S128	Exhaust Fan	874	9	1032	8	940	9	980	9	1203	7
S127	Exhaust Fan	888	9	1043	8	947	9	978	9	1192	7
S114b	Exhaust Fan Motor	967	1	1133	0	1055	0	1110	0	1326	0
S113b	Exhaust Fan Motor	980	1	1144	0	1062	0	1107	0	1314	0
S112b	Exhaust Fan Motor	991	1	1154	0	1068	0	1105	0	1304	0
S051	Exhaust Fan Motor - Aux 3	1077	11	1253	9	1193	10	1273	9	1491	6
S045	Exhaust Fan Motor - Aux 4	1079	11	1252	9	1184	9	1247	7	1451	7
S047	Exhaust Fan Motor - Aux 4	1072	4	1245	3	1177	3	1242	2	1448	2
S049	Exhaust Fan Motor - Aux 4	1057	4	1229	3	1161	3	1225	1	1433	1
S114a	Exhaust Fan Opening	967	1	1133	0	1055	0	1110	0	1326	0
S113a	Exhaust Fan Opening	980	0	1144	0	1062	0	1107	0	1314	0
S112a	Exhaust Fan Opening	992	0	1154	0	1069	0	1105	0	1303	0
S082	Exhaust Fan Short - Aux 12	1061	9	1241	8	1190	8	1288	7	1521	1
S146	Exhaust Fan Short - Machine Room	798	13	956	11	867	12	925	12	1176	9
S153	Exhaust Fan Short - Mezzanine	865	12	1031	8	955	8	1027	8	1272	6
S154	Exhaust Fan Short - Mezzanine	830	9	994	8	914	9	986	8	1237	6
S155	Exhaust Fan Short - Mezzanine	796	10	958	8	875	9	945	8	1203	7
S046	Exhaust Fan Stack - Aux 4	1073	4	1246	3	1178	3	1243	2	1449	2
S048	Exhaust Fan Stack - Aux 4	1058	3	1230	2	1162	3	1226	2	1434	1
S100	Exhaust Fan Stack- Aux 2	1028	16	1207	14	1155	15	1255	11	1493	9
S099	Exhaust Fan Stack- Aux 2	1033	16	1211	14	1157	15	1252	11	1487	9
S132	Exhaust From Buffer Zone	852	10	1011	8	922	9	971	9	1205	7
S135	Exhaust From Buffer Zone	844	10	1002	8	912	9	960	9	1196	7
S131	Exhaust From Buffer Zone	865	9	1022	8	929	9	968	9	1194	7
S134	Exhaust From Buffer Zone	856	10	1012	8	919	9	958	9	1184	7
S130	Exhaust From Buffer Zone	879	9	1033	8	937	9	966	9	1182	7

Project: Asahi Kasei Battery Separator Canada
Project Number: 24025.02

Source ID	Source Name	Point of Reception VL03		Point of Reception VL04		Point of Reception VL05		Point of Reception VL06		Point of Reception VL07	
		Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night	Distance to POR (m)	Sound Level at POR (dBA) Night
S133	Exhaust From Buffer Zone	871	9	1024	8	927	9	956	9	1173	7
S038	Filtrate solution pump	1093	0	1266	0	1201	0	1267	0	1471	0
S011	Flash Tank Bottom Pump	1114	0	1285	1	1214	1	1266	0	1457	1
S009	Flash Tank Drain Pump	1117	0	1289	1	1217	1	1269	0	1460	1
S010	Flash Tank Vacuum Pump	1117	7	1288	7	1216	7	1269	4	1460	9
S035	Flushing oil feed pump	1097	0	1270	0	1203	0	1266	0	1468	0
S016	LP feed pump A	1082	6	1252	5	1178	4	1230	1	1425	6
S017	LP feed pump B	1080	5	1250	5	1176	4	1228	1	1423	6
S019	LP truck unloading pump	1083	5	1252	5	1176	1	1223	1	1414	6
S012	Reboiler Circulation Pump	1109	6	1281	7	1209	12	1264	7	1457	12
S039	RLP Circulation 2nd Pump	1097	12	1271	11	1206	1	1272	1	1477	1
S037	RLP Circulation Pump	1100	1	1273	1	1207	1	1272	1	1474	1
S014	RLP feed pump A	1090	8	1260	6	1187	5	1239	2	1433	6
S015	RLP feed pump B	1088	8	1258	6	1185	4	1237	2	1431	6
S149	Roof Top Unit	953	0	1124	0	1055	0	1129	0	1361	0
S152	Roof Top Unit	878	8	1045	3	971	4	1043	4	1286	2
S184	Roof Top Unit	705	9	861	7	772	8	848	8	1131	6
S102	Roof Top Unit	835	2	980	2	871	3	883	8	1099	6
S103	Roof Top Unit	816	2	959	2	847	5	856	9	1077	7
S101	Roof Top Unit	823	4	964	7	849	9	850	9	1064	7
S104	Roof Top Unit	792	9	932	7	816	9	823	9	1049	7
S001a	T1 - 160 MVA HVTX (NEMA) Core	1232	25	1413	24	1362	19	1445	19	1648	21
S001b	T1 - 160 MVA HVTX (NEMA) Fan	1232	16	1413	14	1362	10	1445	10	1648	12
S002a	T2 - 160 MVA HVTX (NEMA) Core	1260	25	1441	23	1391	19	1475	19	1675	21
S002b	T2 - 160 MVA HVTX (NEMA) Fan	1260	16	1441	14	1391	10	1475	10	1675	12
S003a	T3 - 160 MVA HVTX (NEMA) Core	1287	25	1469	23	1420	19	1503	19	1701	21
S003b	T3 - 160 MVA HVTX (NEMA) Fan	1287	15	1469	14	1420	10	1503	10	1701	12
S004a	T4 - 160 MVA HVTX (NEMA) Core	1316	24	1498	23	1450	19	1533	18	1728	21
S004b	T4 - 160 MVA HVTX (NEMA) Fan	1316	15	1498	13	1450	10	1533	9	1728	12
S005a	T5 - 160 MVA HVTX (NEMA) Core	1344	24	1526	23	1479	18	1562	18	1755	21
S005b	T5 - 160 MVA HVTX (NEMA) Fan	1344	15	1526	13	1479	9	1562	9	1755	11
S006a	T6 - 160 MVA HVTX (NEMA) Core	1372	24	1555	22	1508	18	1592	18	1782	20
S006b	T6 - 160 MVA HVTX (NEMA) Fan	1372	14	1555	13	1508	9	1592	9	1782	11
S185	Truck Pass By	916	22	1076	20	1003	23	1062	25	1315	20
S033	VAC Truck	1051	0	1220	0	1147	0	1201	0	1403	0
S021	VAC Truck	1059	0	1227	0	1151	0	1200	0	1395	0
S023	Washed EM Feed Pump A	1090	1	1261	1	1190	6	1247	2	1445	6
S022	Washed EM Feed Pump B	1091	1	1262	1	1191	6	1248	2	1446	6
S007	Wastewater Blower Intake	1168	13	1342	12	1275	12	1331	12	1518	14
S025	WEM Feed Pump A	1086	4	1258	3	1187	5	1246	9	1445	16
S024	WEM Feed Pump B	1087	4	1259	3	1189	5	1247	9	1446	16
S028	WH Pump	1084	1	1255	1	1184	5	1241	2	1439	6
S036	WLP Booster Pump	1100	0	1273	0	1206	0	1270	0	1472	0
S020	WO truck loading pump	1082	5	1251	4	1175	1	1222	1	1413	6
S027	WS Feed Pump A	1084	4	1256	3	1185	5	1243	9	1443	16
S026	WS Feed Pump B	1085	4	1257	3	1186	5	1245	9	1444	16
Total Level [dBA]			36		35		34		33		33

Receiver: R06

Project: Asahi Kasei Battery Separator Canada

Project Number: 24025.02

Time Period	Total (dBA)*
Night	37

Receiver Name	Receiver ID	X	Y	Z
R06	R06	645018 m	4756515 m	180.9 m

Source ID	Source Name	X	Y	Z	Ref.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S084	10 MVA Transformer	644966.8	4757220.2	188.5	0	85	0.0	A	68.0	0.0	-1.5	0.0	1.9	0.0	0.0	0.0	0.0	0.0	17
S084	10 MVA Transformer	644966.8	4757220.2	188.5	1	85	0.0	A	68.1	0.0	-1.6	0.0	1.9	0.0	0.0	0.0	0.0	0.6	16
S083	10 MVA Transformer	644959.8	4757219.9	188.5	0	85	0.0	A	68.0	0.0	-1.5	0.0	1.9	0.0	0.0	0.0	0.0	0.0	17
S083	10 MVA Transformer	644959.8	4757219.9	188.5	1	85	0.0	A	68.1	0.0	-1.6	0.0	1.9	0.0	0.0	0.0	0.0	0.6	16
S088	13) Air Compressor - Louver	644971.7	4757256.8	190.5	0	75	3.0	A	68.4	3.0	0.2	2.4	0.6	0.0	0.0	0.0	7.5	0.0	17
S088	13) Air Compressor - Louver	644971.7	4757256.8	191.5	0	75	3.0	A	68.4	3.0	0.3	0.0	0.6	0.0	0.0	0.0	7.7	0.0	19
S087	13) Air Compressor - Louver	644969.0	4757256.7	191.5	0	75	3.0	A	68.4	3.0	0.3	0.0	0.6	0.0	0.0	0.0	7.7	0.0	19
S087	13) Air Compressor - Louver	644969.0	4757256.7	190.5	0	75	3.0	A	68.4	3.0	0.2	3.3	0.6	0.0	0.0	0.0	7.5	0.0	16
S050	3) Gas Boiler - Boiler Package (3x Boilers)	644967.7	4757289.5	196.0	0	88	0.0	A	68.8	0.0	-3.3	0.6	0.3	0.0	0.0	0.0	0.0	0.0	22
S077b	60 MVA MVTX (NEMA-10) Fan	644902.3	4757225.6	190.0	0	85	0.0	A	68.2	0.0	-1.7	0.0	2.4	0.0	0.0	0.0	0.0	0.0	16
S077b	60 MVA MVTX (NEMA-10) Fan	644902.3	4757225.6	190.0	1	85	0.0	A	68.3	0.0	-1.8	0.0	2.4	0.0	0.0	0.0	0.0	0.5	16
S159	Air Handling Unit	645133.3	4757257.8	201.1	0	89	0.0	A	68.5	0.0	-0.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S157	Air Handling Unit	645106.0	4757265.8	196.5	0	89	0.0	A	68.6	0.0	-0.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S158	Air Handling Unit	645133.1	4757265.1	201.1	0	89	0.0	A	68.6	0.0	-0.4	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S156	Air Handling Unit	645105.8	4757272.4	196.5	0	89	0.0	A	68.6	0.0	-0.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S173	Air Handling Unit	645219.5	4757270.1	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.3	0.0	0.0	0.0	0.0	0.0	15
S178	Air Handling Unit	645267.9	4757260.1	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	15
S179	Air Handling Unit	645273.7	4757260.3	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	15
S175	Air Handling Unit	645244.4	4757270.8	197.0	0	89	0.0	A	68.9	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	15
S174	Air Handling Unit	645244.1	4757278.3	197.0	0	89	0.0	A	69.0	0.0	-0.8	0.0	2.4	0.0	0.0	0.0	0.0	0.0	15
S044	Carbon Bed - 3x Blowers (Stack)	644985.8	4757336.5	201.0	0	96	0.0	A	69.3	0.0	0.1	0.0	6.4	0.0	0.0	0.0	-1.4	0.0	18
S070	Cooling Tower Louver	645017.5	4757278.6	189.3	0	75	5.6	A	68.7	0.0	-1.6	0.0	3.1	0.0	0.0	0.0	4.9	0.0	16
S070	Cooling Tower Louver	645017.5	4757278.6	191.3	0	75	5.6	A	68.7	0.0	-1.3	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S070	Cooling Tower Louver	645017.5	4757278.6	190.3	0	75	5.6	A	68.7	0.0	-1.5	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S072	Cooling Tower Louver	645022.8	4757278.8	190.3	0	75	5.6	A	68.7	0.0	-1.5	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S072	Cooling Tower Louver	645022.8	4757278.8	191.3	0	75	5.6	A	68.7	0.0	-1.3	0.0	3.1	0.0	0.0	0.0	4.9	0.0	15
S072	Cooling Tower Louver	645022.8	4757278.8	189.3	0	75	5.6	A	68.7	0.0	-1.6	0.0	3.1	0.0	0.0	0.0	4.9	0.0	16
S057	Cooling Tower Top	645017.6	4757282.2	192.0	0	96	0.0	A	68.7	0.0	-1.3	4.6	4.6	0.0	0.0	0.0	-4.0	0.0	15
S058	Cooling Tower Top	645022.7	4757282.4	192.0	0	96	0.0	A	68.7	0.0	-1.3	4.6	4.6	0.0	0.0	0.0	-4.0	0.0	15
S008	Distillation Pump 2	644958.2	4757360.4	187.2	0	99	0.0	A	69.6	0.0	-2.4	4.8	4.2	0.0	0.0	0.0	0.0	0.0	23
S091	EF-046 Motor	644970.0	4757261.1	197.0	0	90	0.0	A	68.5	0.0	-1.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	18
S090	EF-046 Stack	644969.5	4757261.1	199.0	0	89	0.0	A	68.5	0.0	1.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	19
S114b	Exhaust Fan Motor	645122.4	4757353.7	208.1	0	90	0.0	A	69.5	0.0	-0.7	0.0	4.8	0.0	0.0	0.0	0.0	0.0	16
S113b	Exhaust Fan Motor	645121.6	4757378.3	208.1	0	90	0.0	A	69.8	0.0	-0.7	0.0	4.9	0.0	0.0	0.0	0.0	0.0	16
S112b	Exhaust Fan Motor	645120.9	4757399.4	208.1	0	90	0.0	A	70.0	0.0	-0.8	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S045	Exhaust Fan Motor - Aux 4	644986.4	4757336.4	199.0	0	90	0.0	A	69.3	0.0	-1.1	0.0	4.8	0.0	0.0	0.0	0.0	0.0	17
S082	Exhaust Fan Short - Aux 12	644964.7	4757237.2	192.0	0	90	0.0	A	68.2	0.0	-1.5	0.0	4.4	0.0	0.0	0.0	0.0	0.0	19
S146	Exhaust Fan Short - Machine Room	645313.5	4757340.4	200.6	0	90	0.0	A	69.9	0.0	-1.1	0.0	4.9	0.0	0.0	0.0	0.0	0.0	16
S100	Exhaust Fan Stack- Aux 2	644999.3	4757235.6	197.0	0	88	0.0	A	68.2	0.0	1.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	18
S099	Exhaust Fan Stack- Aux 2	644999.0	4757247.1	197.0	0	88	0.0	A	68.3	0.0	1.1	0.0	1.0	0.0	0.0	0.0	0.0	0.0	18
S012	Reboiler Circulation Pump	644965.8	4757362.6	187.2	0	95	0.0	A	69.6	0.0	-2.4	4.8	4.2	0.0	0.0	0.0	0.0	0.0	19
S001a	T1 - 160 MVA HVTX (NEMA) Core	644796.2	4757274.0	192.9	0	99	0.0	A	69.0	0.0	-0.1	3.7	2.1	0.0	0.0	0.0	0.0	0.0	24
S001b	T1 - 160 MVA HVTX (NEMA) Fan	644796.2	4757274.0	192.9	0	90	0.0	A	69.0	0.0	-0.5	4.0	2.6	0.0	0.0	0.0	0.0	0.0	15
S002a	T2 - 160 MVA HVTX (NEMA) Core	644766.2	4757273.3	193.2	0	99	0.0	A	69.1	0.0	-0.1	4.4	2.1	0.0	0.0	0.0	0.0	0.0	24
S003a	T3 - 160 MVA HVTX (NEMA) Core	644737.5	4757272.1	193.4	0	99	0.0	A	69.1	0.0	0.1	4.3	2.1	0.0	0.0	0.0	0.0	0.0	23

Receiver: R06

Project: Asahi Kasei Battery Separator Canada

Project Number: 24025.02

Time Period	Total (dBA)*
Night	37

Receiver Name	Receiver ID	X	Y	Z
R06	R06	645018 m	4756515 m	180.9 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S004a	T4 - 160 MVA HVTX (NEMA) Core	644707.1	4757271.4	193.6	0	99	0.0	A	69.3	0.0	0.3	4.3	2.1	0.0	0.0	0.0	0.0	0.0	23
S005a	T5 - 160 MVA HVTX (NEMA) Core	644677.7	4757270.5	193.8	0	99	0.0	A	69.4	0.0	0.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	23
S006a	T6 - 160 MVA HVTX (NEMA) Core	644647.8	4757269.6	193.9	0	99	0.0	A	69.5	0.0	0.2	4.3	2.2	0.0	0.0	0.0	0.0	0.0	23
S007	Wastewater Blower Intake	644898.2	4757358.4	195.0	0	93	0.0	A	69.6	0.0	-0.7	0.0	3.9	0.0	0.0	0.0	0.0	0.0	20

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Receiver: R06g
 Project: Asahi Kasei Battery Separator Canada
 Project Number: 24025.02

Time Period	Total (dBA)*
Night	36

Receiver Name	Receiver ID	X	Y	Z
R06g	R06g	645028 m	4756543 m	178.1 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S088	13) Air Compressor - Louver	644971.7	4757256.8	190.5	0	75	3.0	A	68.1	3.0	2.6	1.0	0.6	0.0	0.0	0.0	7.2	0.0	16
S088	13) Air Compressor - Louver	644971.7	4757256.8	191.5	0	75	3.0	A	68.1	3.0	2.7	0.5	0.6	0.0	0.0	0.0	7.2	0.0	16
S087	13) Air Compressor - Louver	644969.0	4757256.7	190.5	0	75	3.0	A	68.1	3.0	2.6	1.6	0.6	0.0	0.0	0.0	7.2	0.0	15
S050	3) Gas Boiler - Boiler Package (3x Boilers)	644967.7	4757289.5	196.0	0	88	0.0	A	68.5	0.0	-3.4	0.5	0.3	0.0	0.0	0.0	0.0	0.0	23
S044	Carbon Bed - 3x Blowers (Stack)	644985.8	4757336.5	201.0	0	96	0.0	A	69.0	0.0	3.6	0.0	6.4	0.0	0.0	0.0	-1.3	0.0	15
S008	Distillation Pump 2	644958.2	4757360.4	187.2	0	99	0.0	A	69.3	0.0	-1.4	7.8	4.1	0.0	0.0	0.0	0.0	0.0	19
S091	EF-046 Motor	644970.0	4757261.1	197.0	0	90	0.0	A	68.2	0.0	1.6	0.0	4.4	0.0	0.0	0.0	0.0	0.0	16
S090	EF-046 Stack	644969.5	4757261.1	199.0	0	89	0.0	A	68.2	0.0	3.7	0.0	0.8	0.0	0.0	0.0	0.0	0.0	17
S082	Exhaust Fan Short - Aux 12	644964.7	4757237.2	192.0	0	90	0.0	A	67.9	0.0	1.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	17
S100	Exhaust Fan Stack- Aux 2	644999.3	4757235.6	197.0	0	88	0.0	A	67.8	0.0	3.5	0.0	0.9	0.0	0.0	0.0	0.0	0.0	16
S099	Exhaust Fan Stack- Aux 2	644999.0	4757247.1	197.0	0	88	0.0	A	68.0	0.0	3.5	0.0	0.9	0.0	0.0	0.0	0.0	0.0	16
S012	Reboiler Circulation Pump	644965.8	4757362.6	187.2	0	95	0.0	A	69.3	0.0	-1.4	4.5	4.1	0.0	0.0	0.0	0.0	0.0	19
S001a	T1 - 160 MVA HVTX (NEMA) Core	644796.2	4757274.0	192.9	0	99	0.0	A	68.7	0.0	3.0	1.7	2.0	0.0	0.0	0.0	0.0	0.0	24
S002a	T2 - 160 MVA HVTX (NEMA) Core	644766.2	4757273.3	193.2	0	99	0.0	A	68.8	0.0	3.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	23
S003a	T3 - 160 MVA HVTX (NEMA) Core	644737.5	4757272.1	193.4	0	99	0.0	A	68.9	0.0	3.2	2.0	2.1	0.0	0.0	0.0	0.0	0.0	23
S004a	T4 - 160 MVA HVTX (NEMA) Core	644707.1	4757271.4	193.6	0	99	0.0	A	69.0	0.0	3.4	1.8	2.1	0.0	0.0	0.0	0.0	0.0	23
S005a	T5 - 160 MVA HVTX (NEMA) Core	644677.7	4757270.5	193.8	0	99	0.0	A	69.1	0.0	3.4	1.8	2.1	0.0	0.0	0.0	0.0	0.0	23
S006a	T6 - 160 MVA HVTX (NEMA) Core	644647.8	4757269.6	193.9	0	99	0.0	A	69.3	0.0	3.4	1.8	2.1	0.0	0.0	0.0	0.0	0.0	22
S007	Wastewater Blower Intake	644898.2	4757358.4	195.0	0	93	0.0	A	69.3	0.0	2.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	18

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

Receiver: R23

Project: Asahi Kasei Battery Separator Canada

Project Number: 24025.02

Time Period	Total (dBA)*
Night	41

Receiver Name	Receiver ID	X	Y	Z
R23	R23	644211 m	4757430 m	189.5 m

Source ID	Source Name	X	Y	Z	Ref.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S095	2) Refrigerated Water - Louver	644985.6	4757250.1	191.5	0	81	3.0	A	69.0	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.1	0.0	22
S095	2) Refrigerated Water - Louver	644985.6	4757250.1	190.5	0	81	3.0	A	69.0	3.0	-2.3	4.8	1.5	0.0	0.0	0.0	8.1	0.0	22
S096	2) Refrigerated Water - Louver	644985.7	4757243.9	190.5	0	81	3.0	A	69.0	3.0	-2.2	4.9	1.5	0.0	0.0	0.0	8.0	0.0	22
S096	2) Refrigerated Water - Louver	644985.7	4757243.9	191.5	0	81	3.0	A	69.0	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.0	0.0	22
S097	2) Refrigerated Water - Louver	644985.9	4757235.8	190.5	0	81	3.0	A	69.0	3.0	-2.3	4.9	1.5	0.0	0.0	0.0	8.0	0.0	22
S097	2) Refrigerated Water - Louver	644985.9	4757235.8	191.5	0	81	3.0	A	69.0	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.0	0.0	22
S098	2) Refrigerated Water - Louver	644986.1	4757229.0	191.5	0	81	3.0	A	69.1	3.0	-2.0	4.7	1.5	0.0	0.0	0.0	8.0	0.0	22
S098	2) Refrigerated Water - Louver	644986.1	4757229.0	190.5	0	81	3.0	A	69.1	3.0	-2.3	4.9	1.5	0.0	0.0	0.0	8.0	0.0	22
S050	3) Gas Boiler - Boiler Package (3x Boilers)	644967.7	4757289.5	196.0	0	88	0.0	A	68.7	0.0	-3.5	4.7	0.3	0.0	0.0	0.0	0.0	0.0	18
S044	Carbon Bed - 3x Blowers (Stack)	644985.8	4757336.5	201.0	0	96	0.0	A	68.8	0.0	-1.0	0.0	6.4	0.0	0.0	0.0	-1.4	0.0	20
S053	Cooling Tower Top	644996.1	4757281.5	192.0	0	96	0.0	A	69.0	0.0	-2.4	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S054	Cooling Tower Top	645001.6	4757281.7	192.0	0	96	0.0	A	69.1	0.0	-2.4	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S055	Cooling Tower Top	645006.8	4757281.9	192.0	0	96	0.0	A	69.2	0.0	-2.4	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S056	Cooling Tower Top	645012.2	4757282.1	192.0	0	96	0.0	A	69.2	0.0	-2.5	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	16
S057	Cooling Tower Top	645017.6	4757282.2	192.0	0	96	0.0	A	69.3	0.0	-2.5	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	15
S058	Cooling Tower Top	645022.7	4757282.4	192.0	0	96	0.0	A	69.3	0.0	-2.5	4.8	4.8	0.0	0.0	0.0	-4.0	0.0	15
S073	Cooling water pump A	644996.2	4757269.9	188.3	0	101	0.0	A	69.1	0.0	-3.2	4.8	4.0	0.0	0.0	0.0	0.0	0.0	27
S074	Cooling water pump B	645001.4	4757270.2	188.3	0	101	0.0	A	69.1	0.0	-3.2	4.8	4.0	0.0	0.0	0.0	0.0	0.0	27
S075	Cooling water pump C	645006.8	4757270.3	188.3	0	101	0.0	A	69.2	0.0	-3.2	4.8	4.0	0.0	0.0	0.0	0.0	0.0	27
S008	Distillation Pump 2	644958.2	4757360.4	187.2	0	99	0.0	A	68.5	0.0	-3.0	4.8	3.8	0.0	0.0	0.0	0.0	0.0	25
S090	EF-046 Stack	644969.5	4757261.1	199.0	0	89	0.0	A	68.8	0.0	-0.3	0.0	0.8	0.0	0.0	0.0	0.0	0.0	20
S032	EM Feed Pump 2 A	645010.5	4757354.8	187.2	0	95	0.0	A	69.1	0.0	-3.1	4.8	4.0	0.0	0.0	0.0	0.0	0.0	20
S031	EM Feed Pump 2 B	645003.7	4757354.3	187.2	0	95	0.0	A	69.0	0.0	-3.1	4.8	4.0	0.0	0.0	0.0	0.0	0.0	20
S112b	Exhaust Fan Motor	645120.9	4757399.4	208.1	0	90	0.0	A	70.2	0.0	-1.3	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S113b	Exhaust Fan Motor	645121.6	4757378.3	208.1	0	90	0.0	A	70.2	0.0	-1.3	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S114b	Exhaust Fan Motor	645122.4	4757353.7	208.1	0	90	0.0	A	70.2	0.0	-1.5	0.0	5.0	0.0	0.0	0.0	0.0	0.0	16
S045	Exhaust Fan Motor - Aux 4	644986.4	4757336.4	199.0	0	90	0.0	A	68.8	0.0	-2.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	19
S012	Reboiler Circulation Pump	644965.8	4757362.6	187.2	0	95	0.0	A	68.6	0.0	-2.9	4.8	3.8	0.0	0.0	0.0	0.0	0.0	21
S039	RLP Circulation 2nd Pump	644962.3	4757326.9	187.2	0	91	0.0	A	68.6	0.0	-3.3	4.8	3.8	0.0	0.0	0.0	0.0	0.0	17
S037	RLP Circulation Pump	644962.0	4757332.5	187.2	0	91	0.0	A	68.6	0.0	-3.3	4.8	3.8	0.0	0.0	0.0	0.0	0.0	17
S001a	T1 - 160 MVA HVTX (NEMA) Core	644796.2	4757274.0	192.9	0	99	0.0	A	66.6	0.0	-1.9	4.7	1.7	0.0	0.0	0.0	0.0	0.0	28
S001b	T1 - 160 MVA HVTX (NEMA) Fan	644796.2	4757274.0	192.9	0	90	0.0	A	66.6	0.0	-2.2	4.8	2.0	0.0	0.0	0.0	0.0	0.0	19
S002a	T2 - 160 MVA HVTX (NEMA) Core	644766.2	4757273.3	193.2	0	99	0.0	A	66.2	0.0	-1.8	4.7	1.6	0.0	0.0	0.0	0.0	0.0	28
S002b	T2 - 160 MVA HVTX (NEMA) Fan	644766.2	4757273.3	193.2	0	90	0.0	A	66.2	0.0	-2.1	4.8	1.9	0.0	0.0	0.0	0.0	0.0	19
S003a	T3 - 160 MVA HVTX (NEMA) Core	644737.5	4757272.1	193.4	0	99	0.0	A	65.8	0.0	-1.7	4.7	1.5	0.0	0.0	0.0	0.0	0.0	29
S003b	T3 - 160 MVA HVTX (NEMA) Fan	644737.5	4757272.1	193.4	0	90	0.0	A	65.8	0.0	-1.9	4.7	1.9	0.0	0.0	0.0	0.0	0.0	20
S004a	T4 - 160 MVA HVTX (NEMA) Core	644707.1	4757271.4	193.6	0	99	0.0	A	65.3	0.0	-1.4	4.6	1.5	0.0	0.0	0.0	0.0	0.0	29
S004b	T4 - 160 MVA HVTX (NEMA) Fan	644707.1	4757271.4	193.6	0	90	0.0	A	65.3	0.0	-1.7	4.7	1.8	0.0	0.0	0.0	0.0	0.0	20
S005a	T5 - 160 MVA HVTX (NEMA) Core	644677.7	4757270.5	193.8	0	99	0.0	A	64.9	0.0	-1.2	4.6	1.4	0.0	0.0	0.0	0.0	0.0	29
S005b	T5 - 160 MVA HVTX (NEMA) Fan	644677.7	4757270.5	193.8	0	90	0.0	A	64.9	0.0	-1.5	4.7	1.7	0.0	0.0	0.0	0.0	0.0	20
S006a	T6 - 160 MVA HVTX (NEMA) Core	644647.8	4757269.6	193.9	0	99	0.0	A	64.3	0.0	-0.9	4.5	1.3	0.0	0.0	0.0	0.0	0.0	30
S006b	T6 - 160 MVA HVTX (NEMA) Fan	644647.8	4757269.6	193.9	0	90	0.0	A	64.3	0.0	-1.2	4.7	1.6	0.0	0.0	0.0	0.0	0.0	21
S185	Truck Pass By	645213.9	4757581.6	188.6	0	63	24.6	A	71.1	0.0	-2.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	15
S007	Wastewater Blower Intake	644898.2	4757358.4	195.0	0	93	0.0	A	67.8	0.0	-1.0	4.6	3.6	0.0	0.0	0.0	0.0	0.0	18
S025	WEM Feed Pump A	644985.7	4757350.9	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25

Receiver: R23
Project: Asahi Kasei Battery Separator Canada
Project Number: 24025.02

Time Period	Total (dBA)*
Night	41

Receiver Name	Receiver ID	X	Y	Z
R23	R23	644211 m	4757430 m	189.5 m

Source ID	Source Name	X	Y	Z	Refl.	Lw	L/A	Freq	Adiv	K0	Agr	Abar	Aatm	Afol	Ahous	Cmet	Dc	RL	Lr
S024	WEM Feed Pump B	644984.3	4757350.9	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25
S027	WS Feed Pump A	644987.9	4757351.3	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25
S026	WS Feed Pump B	644986.7	4757351.2	187.2	0	99	0.0	A	68.8	0.0	-3.1	4.8	3.9	0.0	0.0	0.0	0.0	0.0	25

*The total value shown accounts for all modelled sources and may include small contributions from sources not described in the table above

End of Report
