

Floatel #1 Noise Monitoring Survey - 8 (December 15 – 19, 2025)

Woodfibre LNG Project

March 5, 2026

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Preamble

The Woodfibre Liquefied Natural Gas Project (the Project) is a liquefied natural gas export facility being constructed on the former Woodfibre Pulp and Paper Mill site in Átl'ka7tsem (Howe Sound), approximately seven kilometres south of Skwxwú7mesh (Squamish). The Project is on the historical location of a Skwxwú7mesh Úxwumixw (Squamish Nation) village known as Swiyát. Swiyát and Átl'ka7tsem (Howe Sound) are tied to the cultural well-being of Skwxwú7mesh Úxwumixw (Squamish Nation) members, their ancestors, and their descendants, and to other Indigenous groups as defined in the Project's Environmental Assessment Certificates. The Project is also operating within the traditional, ancestral, and unceded territory of the səliwətał (Tsleil-Waututh) Nation, and to other Indigenous groups as defined in the Project's Environmental Assessment Certificates. Woodfibre LNG General Partner Inc. (Woodfibre LNG) recognizes the importance of these areas to the Skwxwú7mesh stélmexw (Squamish People), and other Indigenous groups. Woodfibre LNG General Partner Inc., as general partner on behalf of Woodfibre LNG Limited Partnership seeks to construct and operate the Project in a manner that is respectful of Indigenous values. This Floatel Noise Monitoring and Mitigation Plan is primarily written in English with important place names, phrases, and passages provided in Skwxwú7mesh sníchim (the Squamish language).

Temíxwiyíkw chet wa naantem chet ti temíxw Swiyát
Chet wa sméñhemswit kwis ns7éyxnitas chet ti temíxw
We7ú chet kwis t'íchimwit iy íwas chet ek' l tti.

Our ancient ancestors named this place Swiyát
We, as their descendants safeguard these lands
We will continue to swim and fish in these clear waters.

Limitations and Sign-off

This document entitled Floatel #1 Noise Monitoring Survey - 8 was prepared by Stantec Consulting Ltd. (“Stantec”) for the account of Woodfibre LNG General Partner Inc. (the “Client”). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec’s professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

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Executive Summary

Woodfibre LNG General Partner Inc. (Woodfibre LNG) is constructing the Woodfibre Liquefied Natural Gas Project (the Project), a liquefied natural gas export facility located on the former Woodfibre Pulp Mill site approximately seven kilometres (km) southwest of Skwxwú7mesh (Squamish), British Columbia (BC).

In accordance with the Floatel Noise Monitoring and Mitigation Plan (FNMMP), Stantec Consulting Ltd. (Stantec) commenced quarterly noise monitoring program following the deployment of the first floating worker accommodation (Floatel #1). Eight noise monitoring surveys have been conducted on Floatel #1 since July 2024, with seven summary reports previously been submitted.

To satisfy Condition 36 of Amendment #4 of EAC #E15-02, the 8th subsequent noise monitoring survey, representing the Quarter 1 2026 monitoring program for Floatel #1, was conducted from December 15 to December 19, 2025. Continuous 24-hour sound level monitoring was conducted at six cabins located on different decks of Floatel #1: Cabin 2027, Cabin 5645, Cabin 6437, Cabin 7016, Cabin 9400, and Cabin 0108.

Sound level targets are set forth based on the Health Canada's Guidance for Evaluating Human Health Effects in Impact Assessment: NOISE, 2023 (Health Canada thresholds), and the American National Standards Institute (ANSI) ANSI S12.2-2019 (Reaffirmed in 2023) Criteria for Evaluating Room Noise (ANSI S12.2). Measured sound levels were compared against the Health Canada sleep disturbance thresholds and the ANSI S12.2 indoor sound level criteria to assess compliance. Occupant interviews were also conducted to identify potential noise related concerns.

The results of the 8th monitoring survey indicated that measured sound levels exceeded Health Canada thresholds; however, the indoor sound level complied with ANSI S12.2 room sound level criteria at most monitored cabins, except for Cabin 9400, where high airflow from the ceiling ventilation outlet contributed to exceedances. No sleep disturbances, complaints, or occupant concerns related to construction noise were reported during the survey period. Noise generated by Project construction activities did not affect the interior acoustic environment within Floatel #1. The Communication Protocol and Complaint Response Procedure outlined in the FNMMP will be maintained to address and manage any future noise concerns raised by the occupants.

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Abbreviations

ANSI	American National Standards Institute
BC	British Columbia
BCER	British Columbia Energy Regulator
dB	Decibel level
dBA	A-weighted decibel level
EAC	Environmental Assessment Certificate
EAO	Environmental Assessment Office
FDS	Federal Decision Statement
FN MMP	Floatel Noise Monitoring and Mitigation Plan
HVAC	Heating, ventilation, and air-conditioning
Hz	Hertz
L_{Amax}	Maximum A-weighted equivalent sound level
L_d	Daytime equivalent sound level
L_{eq}	Energy equivalent sound level
L_n	Nighttime equivalent sound level
LNG	Liquefied natural gas
MOH	Ministry of Health
the Project	Woodfibre Liquefied Natural Gas Project
SPL	Sound pressure level
VCH	Vancouver Coastal Health
WHO	World Health Organization
Woodfibre LNG	Woodfibre LNG General Partner Inc.

Glossary

Adaptive Management	A systematic process for continually improving management policies and practices by learning from the outcomes of operational programs.
Bands (octave, 1/3 octave)	A series of electronic filters separate sound into discrete frequency bands, making it possible to know how sound energy is distributed as a function of frequency. Each octave band has a centre frequency that is double the centre frequency of the octave band preceding it.
daytime	The hours from 07:00 to 22:00.
dB - Decibel	A logarithmic unit associated with sound pressure levels and sound power levels.
dBA - decibel, A-weighted	A logarithmic unit where the recorded sound has been filtered using the A frequency weighting scale. A-weighting somewhat mimics the response of the human ear to sounds at different frequencies. A weighted sound pressure levels are denoted by the suffix 'A' (i.e., dBA), and the term pressure is normally omitted from the description (i.e., sound level or noise level).
energy equivalent sound level (L_{eq})	An energy-average sound level taken over a specified period of time. It represents the average sound pressure encountered for the period. The time period is often added as a suffix to the label (e.g., $L_{eq}(24)$ for the 24-hour equivalent sound level). L_{eq} is usually A-weighted. A L_{eq} value expressed in dBA is a good, single value descriptor of the annoyance of noise.
frequency	Number of cycles per unit of time. In acoustics frequency is expressed in hertz (Hz), i.e., cycles per second.
Floatel(s)	Marine-based work camp, associated facilities and mooring infrastructure dedicated to housing up to 705 and 735 workers (including crew), in Floatel #1 and Floatel #2, respectively, during the Construction and Commissioning of the Project.
hertz (Hz)	Unit of measurement of frequency, numerically equal to cycles per second.
L_d	Daytime sound level, an equivalent continuous sound level taken over 15 hours from 07:00 to 22:00.

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L_{Amax}	The maximum value of the A-weighted sound pressure level during a measurement duration.
L_n	Nighttime sound level, an equivalent continuous sound level taken over 9 hours from 22:00 to 07:00.
nighttime	The hours from 22:00 to 07:00.
noise	Unwanted sound.
noise level	Same as sound level, except applied to unwanted sounds.
sound	A dynamic (fluctuating) pressure.
sound pressure level (SPL)	<p>The logarithmic ratio of the root mean square (RMS) sound pressure to the sound pressure at the threshold of hearing. The sound pressure level is defined by the equation below where P is the RMS pressure due to a sound and P_0 is the reference pressure. P_0 is usually taken as 2.0×10^{-5} Pascals.</p> $SPL (dB) = 20 \log (P_{RMS}/P_0)$

1.0 INTRODUCTION

In accordance with the Floatel Noise Monitoring and Mitigation Plan (FNMMP), Stantec conducted the 8th subsequent noise monitoring survey from December 15 to December 17, 2025, to satisfy Condition 36 of Amendment #4. This survey represents the Quarter 1 2026 noise monitoring program for Floatel #1 and was advanced to allow for early monitoring following the commissioning of Floatel #2. This report focuses on the noise monitoring survey on Floatel #1 herein. Initial noise monitoring survey on Floatel #2 is summarized in a separate report.

Eight noise monitoring surveys have been conducted on Floatel #1 since July 2024, and seven summary reports have been submitted. All reports are listed in Table 1.1:

Table 1.1 Noise Monitoring Survey History

Survey	Date	Report	Reference
1	July 10 to 14, 2024	Floatel Noise Monitoring Survey - 1 (July 10 – 14, 2024) – Woodfibre LNG Project	Stantec 2024a
2	September 4 to 7, 2024	Floatel Noise Monitoring Survey - 2 (September 4 – 7, 2024) – Woodfibre LNG Project	Stantec 2024b
3	October 8 to 11, 2024	Floatel Noise Monitoring Survey - 3 (October 8 – 11, 2024) – Woodfibre LNG Project	Stantec 2024c
4	January 31 to February 2, 2025	Floatel Noise Monitoring Survey - 4 (January 31 – February 2, 2025) – Woodfibre LNG Project	Stantec 2025a
5	May 14 to 17, 2025	Floatel Noise Monitoring Survey - 5 (May 14 – 17, 2025) – Woodfibre LNG Project	Stantec 2025b
6	July 23 to 28, 2025	Floatel Noise Monitoring Survey - 6 (July 23 – 28, 2025) – Woodfibre LNG Project	Stantec 2025c
7	October 2 to 5, 2025	Floatel Noise Monitoring Survey - 7 (October 2 – 5, 2025) – Woodfibre LNG Project	Stantec 2025d

The objectives of the noise monitoring programs include the following:

- Measure sound levels at the selected cabins.
- Analyze data gathered and evaluate noise effects on the floatel cabins from construction activities.
- Compare the measured sound levels with applicable sleep disturbance thresholds and assess compliance for sleep disturbance effect for sleeping quarter occupants.
- Conduct interviews about noise with occupants.
- Recommend mitigation or adaptive management plan if required.
- This report summarizes the measurement results and findings during the 8th noise monitoring.

2.0 CABIN SOUND LEVEL TARGETS

Construction noise may cause sleep disturbance for the occupants on Floatel #1 during the Project construction phase. This section focuses on the sleep disturbance threshold recommendations by Health Canada, as well as room sound level criteria from ANSI S12.2. The noise descriptors, including energy equivalent sound level (L_{eq}), daytime equivalent A-weighted sound level (L_d), nighttime equivalent A-weighted sound level (L_n), and maximum A-weighted sound level (L_{Amax}) are used to quantify noise levels.

2.1 HEALTH CANADA SLEEP DISTURBANCE THRESHOLD

The Project construction activities may be scheduled 24 hours per day, meaning that the floatel occupants could be off-duty and sleeping during both daytime and nighttime while construction is ongoing. In accordance with the Health Canada thresholds for sleep disturbances, the recommended indoor noise thresholds for Floatel #1 are:

- 30 dBA (L_{eq}) for continuous noise level during sleep periods.
- Maximum 15 times of occurrence of $L_{Amax} > 45$ dBA during both daytime (07:00 to 22:00) and nighttime (22:00 to 07:00).

Although the Health Canada sleep disturbance threshold of 30 dBA is used in this assessment, it is better suited for private residential bedrooms with very low background noise. However, in spaces with higher occupant density, such as apartment buildings and hotel or motel rooms, background noise from central heating, ventilation and air-conditioning (HVAC) systems, as well as local people activities, a sound level of 30 dBA may not be feasible.

Therefore, in addition to the Health Canada's thresholds, the ANSI S12.2 standard for hotel and motel room sound level criteria is used as an achievable target for evaluating interior noise on the floatels.

2.2 ANSI S12.2 SOUND LEVEL CRITERIA FOR ROOM

The ANSI S12.2 sound level criteria for room noise is commonly used as a reference guide for assessment of sound level criteria for occupants in various interior environments. The ANSI standard specifies sound level criteria when evaluating the room noise by using the survey method that employs the A-weighted sound level. Table 2.1 lists the A-weighted sound level criteria for individual rooms or suite in hotels and motels, based on ANSI sound level criteria for room of various uses (ANSI S12.2).

Table 2.1 A-weighted Sound Level Criteria for Rooms – Hotels and Motels

Occupancy	A-weighted Sound Level dBA
Hotels/motels	
Individual rooms or suites	39-44
Meeting/banquet rooms	35-44
Service support areas	48-57
Source: Table C.1 of ANSI S12.2	

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As the floatel worker accommodation is similar to the hotel/motel classification, the A-weighted sound level criteria of 39 to 44 dBA for individual rooms or suites will be included in the noise evaluation for Floatel #1, and 44 dBA will be set as the achievable target for the sleep disturbance thresholds during both daytime and nighttime periods.

3.0 NOISE MONITORING PROGRAM

In accordance with the FNMMP, Stantec Qualified Professionals conducted this noise monitoring program on Floatel #1 from December 15 to December 19, 2025. The following sections outline the monitoring program details, including cabin locations, measurement instrumentation, measurement setup, Project construction activities occurring during the measurement period, and data analysis methods.

3.1 CABIN LOCATIONS

The sound level meters were set up inside the representative cabins on different decks of Floatel #1. A representative cabin is an unoccupied cabin that is available for occupancy and is selected based on the highest potential noise impact. Key factors in cabin selection included proximity to construction activities, line of sight to noise sources, and availability during the survey period.

Six cabins were selected for the 8th noise monitoring survey: Cabin 2027, Cabin 5645, Cabin 6437, Cabin 7016, Cabin 9400 and Cabin 0108. Each cabin is located on a different deck, indicated by the first digit of the cabin number (e.g., Cabin 5645 on Deck 5 and Cabin 0108 on Deck 10).

Construction activities within the Project area were the major noise sources onsite and were the focus of the 8th noise monitoring surveys. Floatel #1 is berthed starboard to shore, Cabin 5645, Cabin 7016, Cabin 9400 and Cabin 0108 are located at the starboard side of the floatel and facing the southwestern construction site. They were selected to evaluate noise effects from construction activities in the southwest. The rationale for the cabin selections is also presented in Table 3.1.

Table 3.1 summarizes the selected cabins, general descriptions, and field observations. Figure 2 through Figure 4, and Figure 6 through Figure 10 illustrate these cabin locations on each deck of Floatel #1.

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Table 3.1 Selected Cabins, Descriptions, and Observations

Cabin	Deck	Description and Observations during Monitoring Period	Reference Figures
2027	2	<ul style="list-style-type: none"> Deck 2 is under the ship water line. The 86 cabins on Deck 2 are mainly occupied by the crew members, there are a few construction workers also staying on Deck 2 due to full occupancy. Some cabins are adjacent to the floatel operating facilities, including Engine Stores (engine room) and workshop, and auxiliary equipment on Deck 3. Shore grid power provided power to the floatel during the survey period. Noise levels due to floatel operating equipment were reduced along the corridors. Cabin 2027 is located at the fourth row of cabins. Cabin ceiling ventilation was continuously operating. 	Figure 2 Figure 5
5645	5	<ul style="list-style-type: none"> Total of 219 cabins, the second highest numbers of cabins per deck after Deck 6. There are Vent Stores (i.e., ventilation rooms) and Service Workshop located at the stern of Deck 5. Cabin 5645 was selected as it is located at the stern of the floatel and inside the cabin area on Deck 5. Cabin ceiling ventilation was continuously operating. 	Figure 2 Figure 6
6437	6	<ul style="list-style-type: none"> Total of 248 cabins, highest number of cabins per deck among all decks. Cabin 6437 was selected as it is located at the stern of the floatel and inside the cabin area on Deck 6, and it is underneath the Gym on Deck 7. Cabin ceiling ventilation was continuously operating. 	Figure 3 Figure 7
7016	7	<ul style="list-style-type: none"> Total of 58 cabins on Deck 7. Ancillary service facilities on Deck 7 including Reception, Gym, Games Lounge, and other facility rooms. Cabin 7016 it is located at the starboard side of the floatel and facing the southwestern construction site. Cabin ceiling ventilation was continuously operating. 	Figure 3 Figure 8
9400	9	<ul style="list-style-type: none"> Total of 88 cabins on Deck 9. There is an outdoor area at the stern and a smoking area on the starboard side of Deck 9. Some cabins are located underneath the Fan Rooms (rooms with ventilation fans) on Deck 10. Higher noise from Fan Rooms ventilation openings was observed at the smoke area. Cabin 9400 is located at the starboard side of the floatel and facing the southwestern construction site. Cabin ceiling ventilation was continuously operating. 	Figure 4 Figure 9
0108	10	<ul style="list-style-type: none"> Total of 17 cabins with office areas on Deck 10. There are several Fan Rooms on Deck 10. Cabin 0108 is located at the starboard side of the floatel and facing the southwestern construction site. Cabin ceiling ventilation was continuously operating. 	Figure 4 Figure 10

3.2 MEASUREMENT INSTRUMENTATION

Noise monitoring was conducted with two Brüel & Kjær Model 2250 sound level meters fitted with Brüel & Kjær 4189 type microphones. The sound level meters meet the ANSI S1.4-2006 Type 1 and IEC 61672-1 Class 1 specifications. The sound level meters were field calibrated before and after each measurement period and have valid laboratory certificates. Laboratory certificates are considered valid within two-year period after last recalibration for the sound level meters and within one year period for the calibrator.

Table 3.2 summarizes details of the measurement instrumentation. Corresponding calibration certificates of sound level meters and calibrator are attached in Appendix B.

Table 3.2 Details of Measurement Instrumentation

Item	Description
Sound Level Meter	Brüel & Kjær Model 2250 s/n 3007710 Brüel & Kjær Model 2250 s/n 3007892
Microphone	Brüel & Kjær Model 4189 s/n 2680621 Brüel & Kjær Model 4189 s/n 2780543
Calibrator	Brüel & Kjær Model 4231 s/n 2053018
Bandwidth	1/3 Octave Band
Frequency Range	6.3 Hz – 20 kHz
Frequency Weightings	Z (Linear), A & C
Calibration Level	94 dB at 1 kHz

3.3 MEASUREMENT SETUP

Dayshift workers sleep during nighttime and nightshift workers sleep during daytime on Floatel #1. Therefore, continuous sound levels over 24 hours (i.e., multiple daytime and nighttime periods) were measured at the cabins.

Two sound level meters were deployed for continuous noise monitoring. The sound level meters were set to 1-minute logging intervals measuring L_{Amax} and L_{eq} sound levels in one-third octave band L_{eq} sound levels from 6.3 Hz to 20 kHz frequency range.

Sound level meters also recorded the continuous digital audio signal simultaneously for further data analysis and post-processing to remove (isolate) extraneous noise events from the dataset.

The microphones were set up at bed height (i.e., 1 meter above the room floor) in each cabin. Figure 5 through Figure 10 in Appendix A illustrate the sound level meter setup at each cabin.

The monitoring procedures are described as below:

- Two sound level meters were set up at Cabin 2027 and Cabin 5645, respectively, to collect continuous noise data over 24 hours from December 15 to December 16.

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- Two sound level meters were switched to Cabin 6437 and Cabin 7016, respectively, to collect continuous noise data over 24 hours from December 16 to December 17.
- One sound level meter was switched to Cabin 9400 to collect continuous noise data over 24 hours from December 17 to December 18.
- One sound level meter was switched to Cabin 0108 to collect continuous noise data over 24 hours from December 18 to December 19.

Table 3.3 summarizes the measurement duration at each cabin during the noise monitoring period.

Table 3.3 Noise Monitoring Duration at Cabins

Cabin	Measurement Start		Measurement End		Measurement Duration (hrs mm)
	Date (mm/dd/yyyy)	Time (hh:mm)	Date (mm/dd/yyyy)	Time (hh:mm)	
2027	12/15/2025	19:41	12/16/2025	19:51	24 hrs 10 mins
5645	12/15/2025	19:28	12/16/2025	19:33	24 hrs 3 mins
6437	12/16/2025	19:47	12/17/2025	19:50	24 hrs 3 mins
7016	12/16/2025	20:02	12/17/2025	20:17	24 hrs 15 mins
9400	12/17/2025	20:09	12/18/2025	22:13	26 hrs 4 mins
0108	12/18/2025	07:08	12/19/2025	07:11	24 hrs 4 mins

3.4 PROJECT CONSTRUCTION ACTIVITIES

There were Project dayshift and nightshift construction activities during the noise monitoring period from December 15 to December 19. The dayshift was from 07:00 to 17:00 and the nightshift was from 19:00 to 07:00. Figure 12 illustrates the construction areas onsite with Area ID #.

Based on the Construction Log of the Project, major construction activities during the noise monitoring period included the following:

- Excavator work was conducted in Areas 1100, 1200, and 4200.
- Aggregate was offloaded.
- Rock scaling and drilling activities were conducted in Areas 1100.

3.5 DATA ISOLATION ANALYSIS

The FNMMP prescribes that measured noise data that are not representative of the existing acoustic environment, and non-representative weather conditions can be isolated from the data set prior to the calculation of any average values.

Weather during this monitoring period was generally representative most of the time, there were no high winds and heavy rain observed outside to influence the indoor measurements. Therefore, isolation was not applied to weather conditions.

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Noise events isolated from the data set included:

- Qualified Professional activities (e.g., equipment setup and disassembly, daily regular checkups).
- Door knocking or opening at the monitored cabin.

These noise events were identified using audio recordings and also based on the Qualified Professional's field notes and then removed from the valid measurement data. Noise from local anthropogenic activities from neighbor occupants (e.g., toilet flushing, foot traffic and conversation in the corridor) and crew member activities nearby (e.g., regular operations, cleaning and maintenance activities) was considered to be part of the existing acoustic environment and was not isolated.

After the data isolation, L_{eq} , L_d , L_n , and L_{Amax} values were determined for the different measurement periods. Once the data isolation analysis was completed, the resulting valid noise data set (i.e., with invalid data removed) was logarithmically averaged over the corresponding time periods using the following formula:

$$L_{Aeq}(isolated, ave) = 10 \lg_{10} \left[\frac{1}{N_V} \sum_{i=1}^{N_V} 10^{(0.1 L_{A,eq})} \right] dBA$$

where:

N_V = number of valid 1-minute logging periods in the measurement data set.

4.0 MEASUREMENT RESULTS

This section summarizes the analysis results. The L_d , L_n , the occurrence of L_{Amax} higher than 45 dBA (i.e., Health Canada thresholds) are analyzed and presented in tables herein. In total, there are approximately 8800 minutes logged measurement values at six cabins during the monitoring period on Floatel #1.

4.1 MEASUREMENT RESULTS AT CABINS

Table 4.1 provides an overall summary of the noise monitoring results at each noise monitoring cabin. In all tables below, the nighttime period was designated as spanning from 22:00 until 07:00 of the following day, e.g., nighttime of December 15 was from 22:00 of December 15 to 07:00 of December 16.

Table 4.1 Summary of Measurement Results

Cabin	Deck	Overall Average Daytime L_d , dBA	Overall Average Nighttime L_n , dBA	Highest Occurrences of $L_{Amax} > 45$ dBA	
				Daytime	Nighttime
2027	2	41.7	41.5	82	90
5645	5	36.7	36.6	45	18
6437	6	39.9	39.8	39	11
7016	7	35.8	35.8	8	20
9400	9	44.8	44.8	897	540
0108	10	42.1	42.1	75	7

The overall average daytime L_d sound levels are the logarithmic average of two daytime measurement results at each cabin. Details of daily measurement results at each cabin are described in the following sections. The daily results are compared to the Health Canada sleep disturbance thresholds and ANSI room sound level criteria.

4.2 CABIN 2027

Table 4.2 summarizes the daily L_d and L_n sound levels, and occurrences with $L_{Amax} > 45$ dBA at Cabin 2027.

Table 4.2 Summary of Daily L_d and L_n at Cabin 2027

Date (mm/dd/yyyy)	Average Daytime L_d , dBA	Average Nighttime L_n , dBA	Daytime Occurrences of $L_{Amax} >$ 45 dBA	Nighttime Occurrences of $L_{Amax} >$ 45 dBA	Health Canada		ANSI S12.2
					L_{eq} , dBA	Qty. of $L_{Amax} >$ 45 dBA	L_{eq} , dBA
12/15/2025 ¹	41.6	41.5	15	90	30	15	39 to 44
12/16/2025	41.9	- ²	82	- ²	30	15	39 to 44

Notes:

¹ The measurements started at 19:41.

² "-" indicates no data was measured. The survey ended at 19:51.

Monitoring results for Cabin 2027 are summarized as follows:

- L_d and L_n are higher than the Health Canada noise threshold of 30 dBA.
- L_d and L_n are lower than recommended ANSI S12.2 room sound level criteria limit of 44 dBA.
- Occurrences with $L_{Amax} > 45$ dBA are equal to 15 times during daytime period of December 15.
- Occurrences with $L_{Amax} > 45$ dBA are more than 15 times during nighttime period of December 15 and daytime period of December 16.

4.3 CABIN 5645

Table 4.3 summarizes the daily L_d and L_n sound levels, and occurrences with $L_{Amax} > 45$ dBA at Cabin 5645.

Table 4.3 Summary of Daily L_d and L_n at Cabin 5645

Date (mm/dd/yyyy)	Average Daytime L_d , dBA	Average Nighttime L_n , dBA	Daytime Occurrences of $L_{Amax} >$ 45 dBA	Nighttime Occurrences of $L_{Amax} >$ 45 dBA	Health Canada		ANSI S12.2
					L_{eq} , dBA	Qty. of $L_{Amax} >$ 45 dBA	L_{eq} , dBA
12/15/2025 ¹	36.5	36.6	5	18	30	15	39 to 44
12/16/2025	36.8	- ²	45	- ²	30	15	39 to 44

Notes:

¹ The measurements started at 19:28.

² "-" indicates no data was measured. The survey ended at 19:33.

Monitoring results for Cabin 5645 are summarized as follows:

- L_d and L_n are higher than the Health Canada noise threshold of 30 dBA.
- L_d and L_n are lower than recommended ANSI S12.2 room sound level criteria limit of 44 dBA.
- Occurrences with $L_{Amax} > 45$ dBA are more than 15 times during nighttime period of December 15 and daytime period of December 16.
- Occurrences with $L_{Amax} > 45$ dBA are less than 15 times during daytime period of December 15.

4.4 CABIN 6437

Table 4.4 summarizes the daily L_d and L_n sound levels, and occurrences with $L_{Amax} > 45$ dBA at Cabin 6437.

Table 4.4 Summary of Daily L_d and L_n at Cabin 6437

Date (mm/dd/yyyy)	Average Daytime L_d , dBA	Average Nighttime L_n , dBA	Daytime Occurrences of $L_{Amax} >$ 45 dBA	Nighttime Occurrences of $L_{Amax} >$ 45 dBA	Health Canada		ANSI S12.2
					L_{eq} , dBA	Qty. of $L_{Amax} >$ 45 dBA	L_{eq} , dBA
12/16/2025 ¹	39.9	39.8	8	11	30	15	39 to 44
12/17/2025	40.0	- ²	39	- ²	30	15	39 to 44

Notes:

¹ The measurements started at 19:47.

² "-" indicates no data was measured. The survey ended at 19:50.

Monitoring results for Cabin 6437 are summarized as follows:

- L_d and L_n sound levels are higher than the Health Canada noise threshold of 30 dBA.
- L_d and L_n sound levels are lower than the ANSI S12.2 room sound level criteria limit of 44 dBA.
- Occurrences with $L_{Amax} > 45$ dBA are more than 15 times during daytime period of December 17.
- Occurrences with $L_{Amax} > 45$ dBA are less than 15 times during both daytime and nighttime periods of December 16.

4.5 CABIN 7016

Table 4.5 summarizes the daily L_d and L_n sound levels, and occurrences with $L_{Amax} > 45$ dBA at Cabin 7016.

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Table 4.5 Summary of Daily L_d and L_n at Cabin 7016

Date (mm/dd/yyyy)	Average Daytime L_d , dBA	Average Nighttime L_n , dBA	Daytime Occurrences of $L_{Amax} >$ 45 dBA	Nighttime Occurrences of $L_{Amax} >$ 45 dBA	Health Canada		ANSI S12.2
					L_{eq} , dBA	Qty. of $L_{Amax} >$ 45 dBA	L_{eq} , dBA
12/16/2025 ¹	35.7	35.8	1	20	30	15	39-44
12/17/2025	35.8	- ²	8	- ²	30	15	39-44

Notes:

¹ The measurements started at 20:03.

² "-" indicates no data was measured. The survey ended at 20:17.

Monitoring results for Cabin 7016 are summarized as follows:

- L_d and L_n sound levels are higher than the Health Canada noise threshold of 30 dBA.
- L_d and L_n sound levels are lower than the ANSI S12.2 room sound level criteria limit of 44 dBA.
- Occurrences with $L_{Amax} > 45$ dBA are more than 15 times during nighttime period of December 16.
- Occurrences with $L_{Amax} > 45$ dBA are less than 15 times during both daytime periods of December 16 and December 17.

4.6 CABIN 9400

Table 4.6 summarizes the daily L_d and L_n sound levels, and occurrences with $L_{Amax} > 45$ dBA at Cabin 9400.

Table 4.6 Summary of Daily L_d and L_n at Cabin 9400

Date (mm/dd/yyyy)	Average Daytime L_d , dBA	Average Nighttime L_n , dBA	Daytime Occurrences of $L_{Amax} >$ 45 dBA	Nighttime Occurrences of $L_{Amax} >$ 45 dBA	Health Canada		ANSI S12.2
					L_{eq} , dBA	Qty. of $L_{Amax} >$ 45 dBA	L_{eq} , dBA
12/17/2025 ¹	44.9	45.0	107	540	30	15	39 to 44
12/18/2025	44.8	44.7 ²	897	12 ²	30	15	39 to 44

Notes:

¹ The measurements started at 20:09.

² The measurements ended at 22:13.

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Monitoring results for Cabin 9400 are summarized as follows:

- L_d and L_n sound levels are higher than the Health Canada noise threshold of 30 dBA.
- L_d and L_n sound levels are higher than the ANSI S12.2 room sound level criteria limit of 44 dBA.
- Occurrences with $L_{Amax} > 45$ dBA are more than 15 times during both daytime and nighttime periods of December 17, and daytime period of December 18.
- Occurrences with $L_{Amax} > 45$ dBA are less than 15 times during nighttime period of December 18 for a short period of 13 minutes.

4.7 CABIN 0108

Table 4.7 summarizes the daily L_d and L_n sound levels, and occurrences with $L_{Amax} > 45$ dBA at Cabin 0108.

Table 4.7 Summary of Daily L_d and L_n at Cabin 0108

Date (mm/dd/yyyy)	Average Daytime L_d , dBA	Average Nighttime L_n , dBA	Daytime Occurrences of $L_{Amax} >$ 45 dBA	Nighttime Occurrences of $L_{Amax} >$ 45 dBA	Health Canada		ANSI S12.2
					L_{eq} , dBA	Qty. of $L_{Amax} >$ 45 dBA	L_{eq} , dBA
12/18/2025 ¹	42.0	42.1	75	7	30	15	39 to 44
12/19/2025	42.2	- ²	0	- ²	30	15	39 to 44

Notes:

¹ The measurements started at 07:08.

² “-” indicates no data was measured. The survey ended at 07:11

Monitoring results for Cabin 0108 are summarized as follows:

- L_d and L_n sound levels are higher than the Health Canada noise threshold of 30 dBA.
- The L_d and L_n sound levels are lower than the ANSI S12.2 room sound level criteria limit of 44 dBA.
- Occurrences with $L_{Amax} > 45$ dBA are more than 15 times during daytime period of December 18.
- Occurrences with $L_{Amax} > 45$ dBA are less than 15 times during nighttime period of December 18 and daytime period of December 19.

5.0 NOISE INTERVIEWS

During the noise monitoring period on Floatel #1, the Qualified Professionals interviewed various cabin occupants. The purpose of the interviews is to obtain an understanding of the noise effects of interest to the occupants; and perform an investigation if there are any potential noise issues identified on Floatel #1 and inform the floatel management for further mitigation plans.

30 occupants were randomly selected for the interviews, which represents about 5% of the total occupants at the time. There were approximately 593 total construction worker occupants during the 8th noise monitoring survey.

Four questions were asked regarding noise issues:

1. General evaluation for your sleeping quality at the floatel.
2. How long have you stayed at the floatel?
3. Can you hear outside construction noise?
4. Any noise concern/complaints.

Details of the interviews, including interviewee ID #, interview date, cabin location, and work shift; and answers for the questions are included in Appendix C.

Feedback for the questions from the interviewees is summarized as below:

- No interviewees have noise concerns or complaints regarding construction noise.
- All interviewees don't have sleep disturbance issues during the stay on Floatel #1, including sleeping during the daytime period.
- A few night shift construction workers mentioned noise events during the daytime such as cabin cleaning noise and people speaking in the corridor.
- Occasionally perceptible noise events raised by one interviewee living on Deck 6, the events are due to activities in the Gym on Deck 7, such as weights dropping on the floor.

6.0 DISCUSSION

Table 6.1 summarizes the measurement results when compared to the Health Canada noise threshold and ANSI S12.2 room sound level criteria.

Table 6.1 Summary of Results

Cabin	Deck	Meet Health Canada Indoor L_{eq} Threshold of 30 dBA		Meet Health Canada $L_{Amax} > 45$ dBA Occurrences Less Than 15 Times		Meet ANSI S12.2 Room Sound Level Criteria of 44 dBA	
		Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime
2027	2	No	No	No	No	Yes	Yes
5645	5	No	No	Yes/No ¹	No	Yes	Yes
6437	6	No	No	Yes/No ²	Yes	Yes	Yes
7016	7	No	No	Yes	No	Yes	Yes
9400	9	No	No	No	Yes/No ³	No	No
0108	10	No	No	Yes/No ⁴	Yes	Yes	Yes

Notes:

- ¹ Meet threshold on December 15 but exceed threshold on December 16.
- ² Meet threshold on December 16 but exceed threshold on December 17.
- ³ Meet threshold on December 18 but exceed threshold on December 17.
- ⁴ Meet threshold on December 19 but exceed threshold on December 18.

Sound levels at all measured cabins are above the Health Canada sleep disturbance threshold of 30 dBA. During noise monitoring, L_d and L_n sound levels of Cabin 9400 exceed the thresholds of 44 dBA by less than 1 dB exceedance, i.e., L_d and L_n are between 44 to 45 dBA. It was observed that noise from strong airflow blowing through the ceiling ventilation outlet is the main contributor inside cabin.

In terms of the threshold of 45 dBA L_{Amax} or above occurrence less than 15 times, Cabin 9400 had the highest occurrence of L_{Amax} exceeding the threshold, continuous L_{Amax} more than 45 dBA noise levels were measured at these cabins. Cabin 6437 and Cabin 0108 met the threshold during nighttime periods. Cabin 2027, Cabin 5645, Cabin 6437 and Cabin 0108 exceed the threshold during daytime periods.

6.1 COMPARISON OF RECENT MEASUREMENT RESULTS

Table 6.2 compares the results from the three most recent surveys (i.e., 6th survey in July 2025, 7th survey in October 2025, and 8th survey in December 2025).

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Table 6.2 Comparisons of 6th, 7th, and 8th Survey Results

Cabin #			Daytime Highest L _d , dBA			Nighttime Highest L _n , dBA			Highest Occurrences of L _{Amax} > 45 dBA					
									Daytime			Nighttime		
6th	7th	8th	6th	7th	8th	6th	7th	8th	6th	7th	8th	6th	7th	8th
2005	2022	2027	48.3	42.3	41.9	48.2	42.4	41.5	649	35	82	539	14	90
5616	5634	5645	39.9	44.6	36.8	39.9	44.6	36.6	12	551	45	7	540	18
6442	6638	6437	38.9	49.2	40.0	38.8	49.3	39.8	22	566	39	5	540	11
7028	7716	7016	34.3	39.3	35.8	34.1	39.4	35.8	15	16	8	2	8	20
9400	9402	9400	50.1	35.3	44.9	49.3	35.2	45.0	647	154	897	540	113	540
0108	0105	0108	40.6	39.8	42.2	40.9	39.8	42.1	31	38	75	7	2	7

6.1.1 ANSI S12.2 Sound Level Criteria

The ceiling ventilation outlets are the dominant noise contributors in most cabins. All cabins do not have the option to open the window. The ceiling ventilation is essential to keep the cabins in comfortable warm or cool air flow for the occupants, similar to any hotel room. Turning off ventilation will affect the air circulation and temperature for cabin occupants. Therefore, the measurement results are compared to the ANSI S12.2 room sound level criteria for hotel/motel rooms.

During the 6th noise monitoring surveys, Cabin 2005 exceeded the sound level criteria. Cabin 2005 is located in the 2nd row of cabins on Deck 2, and is underneath the operating facilities on Deck 3; intrusive noise emitted from the operating equipment was transmitted to these cabins through the partition deck and ceiling plenum and contributed to the high interior sound levels. During the 7th noise monitoring survey, The interior L_d and L_n sound levels were 42.3 dBA and 42.4 dBA, respectively. Cabin 2027 is located in the 3rd row. During the 8th noise monitoring survey, The interior L_d and L_n sound levels were 41.7 dBA and 41.5 dBA, respectively. Cabin 2027 is located in the 4th row.. The cabins in 3rd and 4th rows are further away from the operating equipment. These results indicate that starting from the 3rd row on Deck 2, cabin interior sound levels will meet the sound level criteria.

During the 6th survey, Cabin 9400 had the highest daytime and nighttime sound levels (i.e., L_d 50.1 dBA and L_n 49.3 dBA) and exceeded the ANSI S12.2 room sound level criteria of 44 dBA. It was observed high airflow from the ceiling ventilation outlet, and contributed to the exceedance. During the 8th survey, Cabin 9400 was measured again, and the interior L_d and L_n sound levels were 44.8 dBA, which exceeded the ANSI S12.2 room sound level criterion either. High airflow from the ceiling ventilation outlet remained the dominant noise source contributing to the exceedance. As the distribution of ventilation airflow can be adjusted for cabin areas via control system, lower interior sound levels meeting the ANSI criteria may be achievable by controlling ventilation airflow for the cabin.

6.1.2 Health Canada Threshold of 45 dBA L_{Amax}

In terms of meeting the threshold of 45 dBA L_{Amax} or above occurrence less than 15 times, cabins on Deck 2 (i.e., Cabin 2022), Deck 5 (i.e., Cabin 5616), Deck 6 (i.e., Cabin 6442 and Cabin 6437), Deck 7 (i.e., Cabin 7028 and Cabin 7716), and Deck 10 (i.e., Cabin 0108 and Cabin 0105) met the threshold during the nighttime periods. Most cabins exceeded the threshold during the daytime periods, except Cabin 5616, Cabin 7028, and Cabin 7016 during the 8th survey.

During three surveys (i.e., the 6th, 7th, and 8th surveys), Cabin 2005, Cabin 5643, Cabin 6638 and Cabin 9400 had the highest occurrence results. It was found that continuous L_{Amax} noise levels greater than 45 dBA were measured at these cabins throughout the measurement periods.

Cabin 2022 and Cabin 2027 are located in the 3rd row and 4th row, respectively, which are further away from operating equipment on Deck 3, and had much less occurrences of 45 dBA L_{Amax} noise levels compared with Cabin 2005 in the 2nd row.

6.1.3 Noise Interviews

On all decks, noise from the construction activities does not affect the floatel interior acoustic environment. The interview results also indicate no sleep disturbance issues and no noise concerns or complaints due to construction noise during the noise monitoring survey periods.

7.0 MITIGATION MEASURES

Noise monitoring results show that cabin ceiling ventilation contributes the exceedances over the Health Canada thresholds, instead of construction noise; in addition, no sleep disturbance issues and noise complaints due to construction noise received from the occupants on Floatel #1. However, interior acoustic environment in the cabins may be improved via the following recommendations:

- Shore grid power supply continues to provide power to Floatel #1. The power generation engines inside the Engine Stores will be used only in emergency situations.
- As discussed in Section 6, cabins located in the 1st and 2nd rows on Deck 2 had high interior sound levels. However, sound levels in the cabins further away, starting from the 3rd row, met the ANSI S12.2 room sound level criteria. Workers' cabin allocation to Deck 2 should be reduced where possible, especially in the 1st and 2nd rows of the cabins. These cabin locations are illustrated in Figure 11. Where reducing occupancy of these cabins is not possible, hearing protection (e.g. earplugs) will be offered to occupants to facilitate undisturbed sleep.
- For activities in the Gym, the floatel management has posted additional signage, and the receptionist also does regular patrolling to remind users that dropping the weights (e.g., deadlifts) should be minimized or avoided.
- Should the floatel management receive noise complaints, administration controls can be implemented to select or change specific cabins or decks for the workers who need alternative cabins.
- Maintain the Communication Protocol and Complaint Response Procedure to address and manage any future noise concerns or complaints by the occupants on Floatel #1.

8.0 CONCLUSIONS

The 8th noise monitoring survey, counted as Quarter 1 2026 noise monitoring program for Floatel #1 was conducted from December 15 to December 19, 2025, to fulfill the requirements of Condition 36 of Amendment #4 in EAC #E15-02.

The measurement results of the 8th noise monitoring survey are above the Health Canada thresholds. The measurement results complied with the ANSI S12.2 room sound level criteria at most cabins, except Cabin 9400, where high airflow from the ventilation outlet was a major contributing factor for the noise exceedance. There were no sleep disturbance issues and noise concerns or complaints due to construction noise received from the floatel occupants. Noise from the Project construction activities did not affect the interior acoustic environment on Floatel #1. In addition, the Communication Protocol and Complaint Response Procedure will be maintained to address and manage any noise concerns or complaints from the occupants on Floatel #1.

9.0 REFERENCES

- ANSI (American National Standard) 2005. ANSI S12.9 – 2005/Part 4, Quantities and Procedures for Description and Measurement of Environmental Sound – Part 4: Noise Assessment and Prediction of Long-term Community Response. New York, 2005.
- ANSI (American National Standard) 2023. ANSI S12.2 – 2019 (Reaffirmed in 2023), Criteria for Evaluating Room Noise. New York, 2023.
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- Stantec FNMMP 2024. Floatel Noise Monitoring and Mitigation Plan – Woodfibre LNG Project. April 2024.
- Stantec 2024a. Floatel Noise Monitoring Survey - 1 (July 10 -14, 2024) – Woodfibre LNG Project. 123222160EN-RPT0052 Revision 1, September 16, 2024.
- Stantec 2024b. Floatel Noise Monitoring Survey - 2 (September 4 - 7, 2024) – Woodfibre LNG Project. 123222160EN-RPT0053 Revision 1, November 2024.
- Stantec 2024c. Floatel Noise Monitoring Survey - 3 (October 8 - 11, 2024) – Woodfibre LNG Project. 123222160EN-RPT0054, November 2024.
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- Stantec 2025c. Floatel Noise Monitoring Survey - 6 (July 23 –28, 2025) – Woodfibre LNG Project. 123222160EN-RPT0060, September 2025
- Stantec 2025d. Floatel Noise Monitoring Survey - 7 (October 2 – 5, 2025) – Woodfibre LNG Project. 123222160EN-RPT0060, November 2025
- Woodfibre LNG 2015. Woodfibre LNG Project Application for an Environmental Assessment Certificate.
- Woodfibre LNG 2023. Application for a Temporary Use Permit for the District of Squamish – Floatel. August 2023.

APPENDIX A FIGURES

Figure 1 Site Plan with Floatel #1 and Floatel #2 Locations

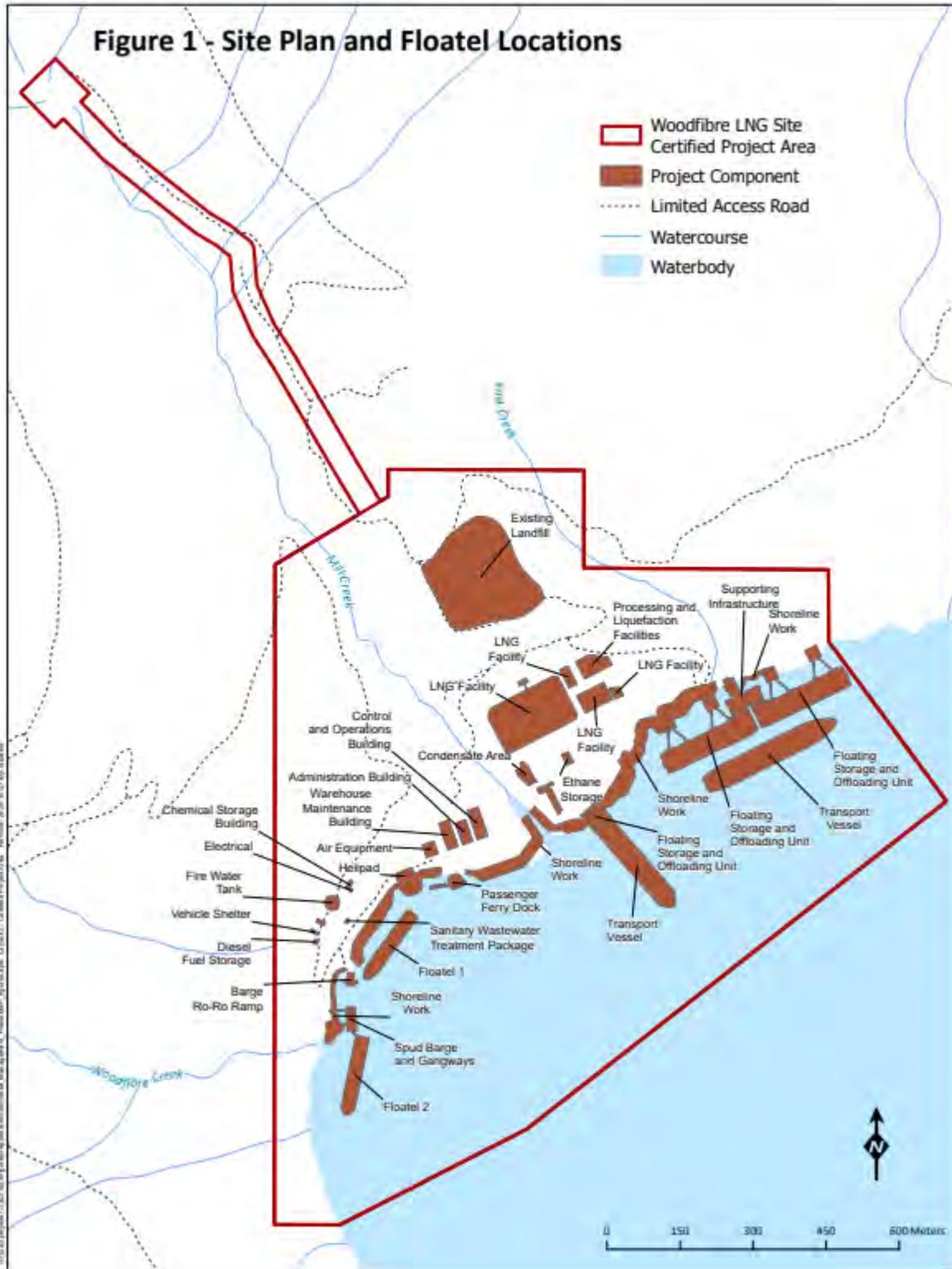
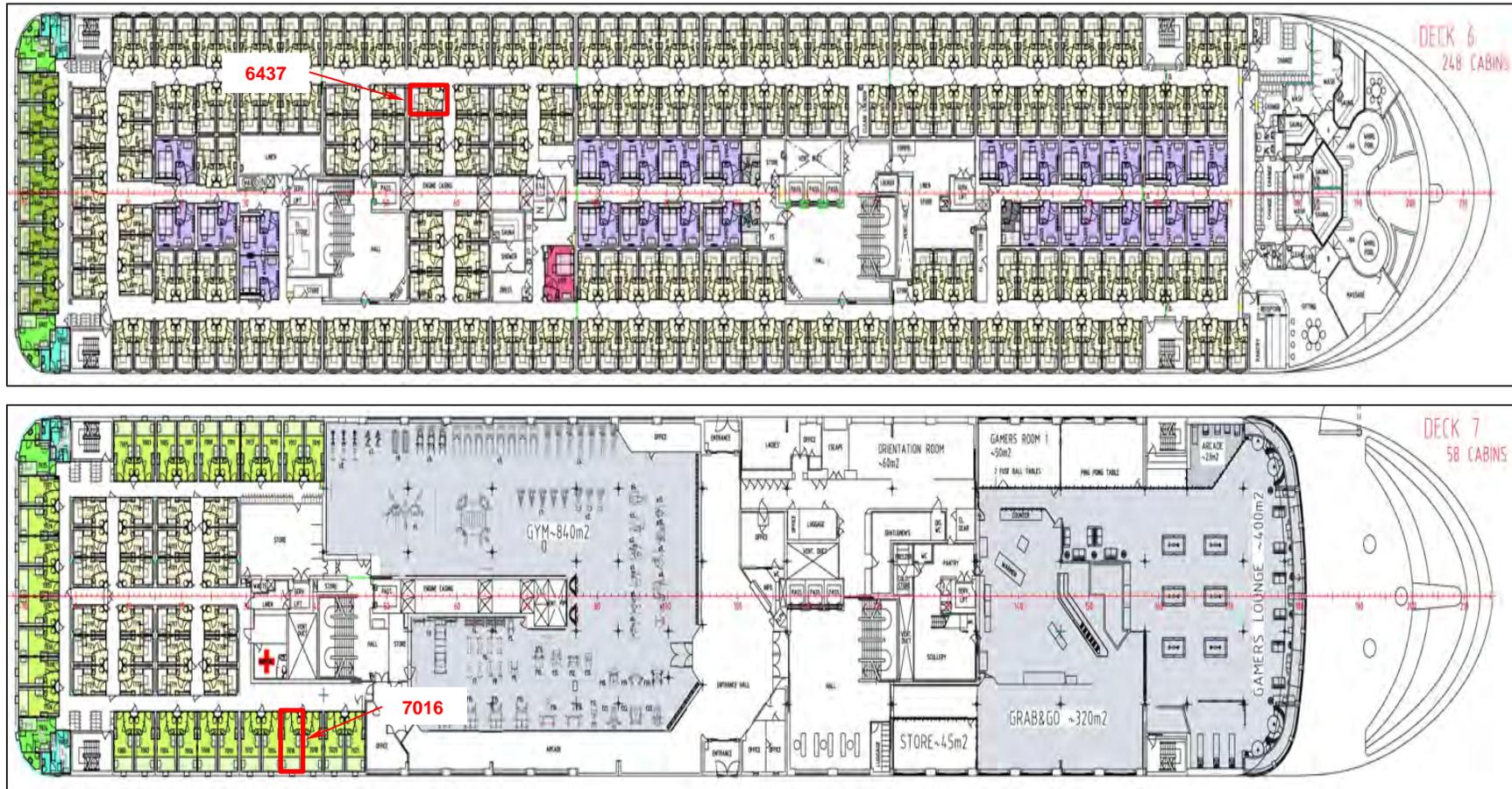


Figure 2 Measurement Location at Cabin 2027 and Cabin 5645 (Deck 2 and Deck 5)



Figure 3 Measurement Location at Cabin 6437 and Cabin 7016 (Deck 6 and Deck 7)

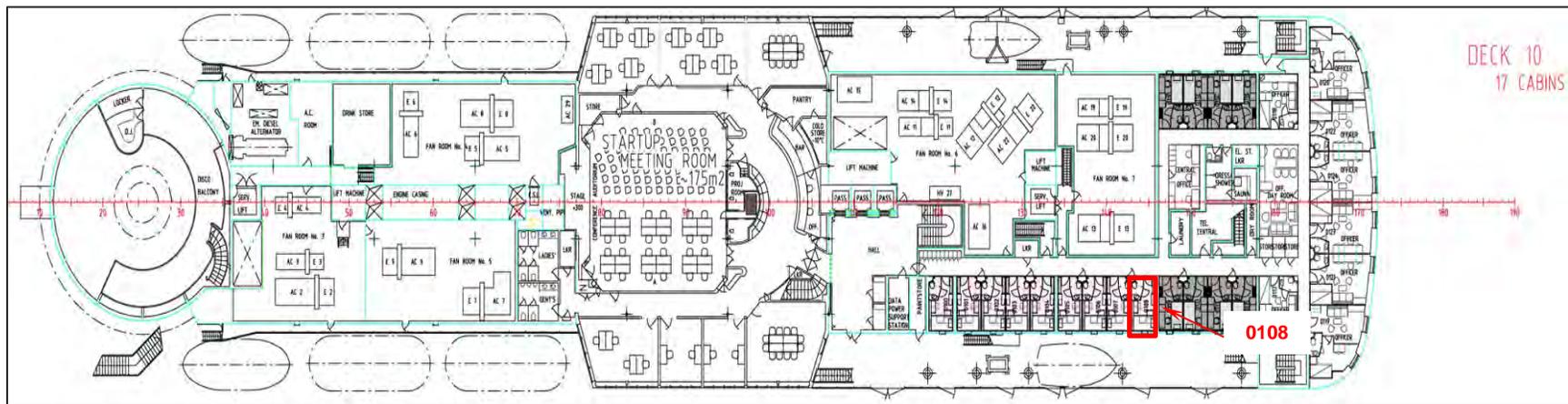
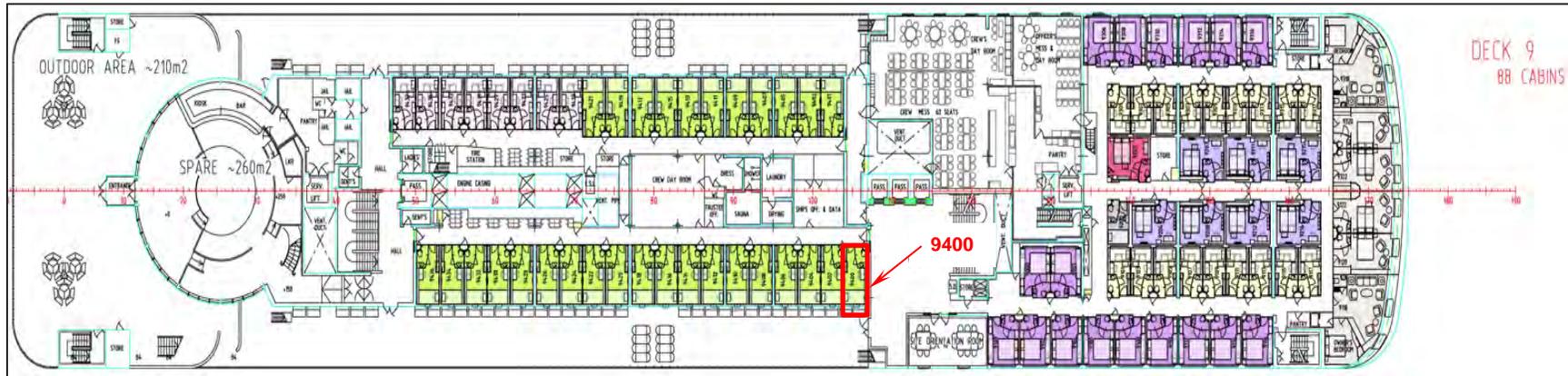


Legend

 Noise monitoring cabin

**WOODFIBRE LNG PROJECT:
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(DECEMBER 15 – 19, 2025)**

Figure 4 Measurement Location at Cabin 9400 and Cabin 0108 (Deck 9 and Deck 10)



Legend

 Noise monitoring cabin

Figure 5 Sound Level Meter Setup at Cabin 2027



Figure 6 Sound Level Meter Setup at Cabin 5645



Figure 7 Sound Level Meter Setup at Cabin 6437



Figure 8 Sound Level Meter Setup at Cabin 7016



Figure 9 Sound Level Meter Setup at Cabin 9400



Figure 10 Sound Level Meter Setup at Cabin 0108



**WOODFIBRE LNG PROJECT:
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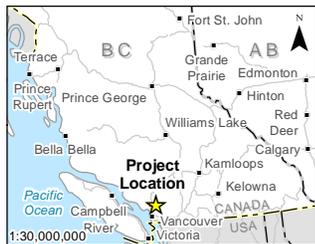
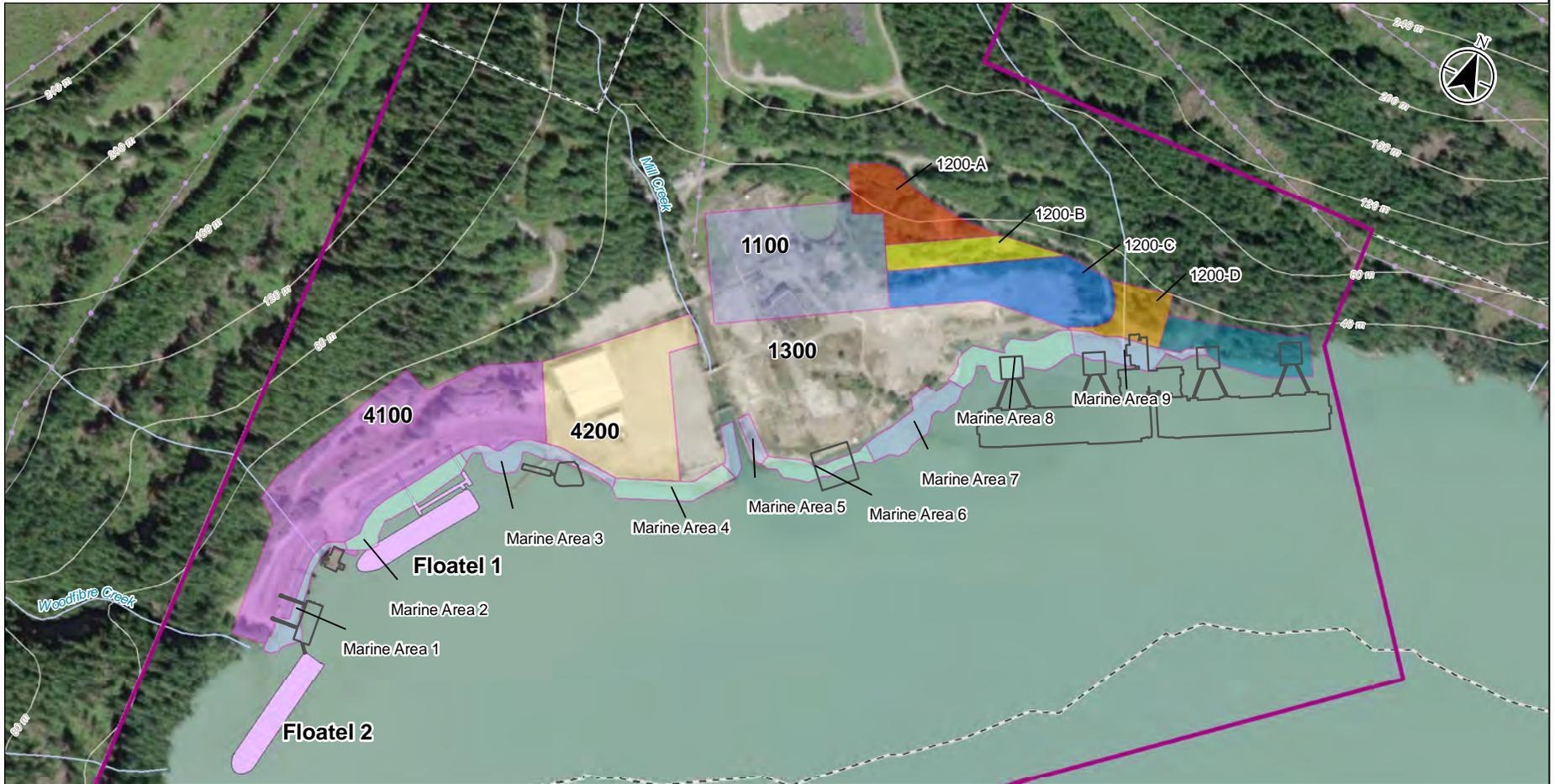
Figure 11 Cabins Not Preferable for Worker Accommodation on Deck 2



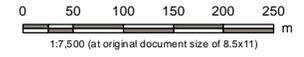
Legend

 Cabins not preferable for worker accommodation

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- Transmission Line
- █ Supporting Infrastructure
- Topographic Contour
- █ Floatel
- Watercourse
- █ Certified Project Area
- Municipal Boundary



Project Location: Woodfibre, British Columbia
 Project Number: 12322160
 Prepared by PKASIANCHUK on 20241004
 Requested by ACALDERON on 20240822
 Checked by YMA on 20240828

Client/Project/Report

Woodfibre LNG
 Floatel Noise Monitoring Survey

Figure No.
12

Title
Construction Areas Onsite

Notes
 1. Coordinate System: NAD 1983 UTM Zone 10N
 2. Data Sources: DataBC, Government of British Columbia; Natural Resources Canada
 3. Orthoimagery: ESRI World Imagery

Disclaimer: Stantec assumes no responsibility for data supplied in electronic format. The recipient accepts full responsibility for verifying the accuracy and completeness of the data. The recipient releases Stantec, its officers, employees, consultants and agents, from any and all claims arising in any way from the content or provision of the data.

APPENDIX B INSTRUMENTATION CALIBRATION CERTIFICATION

CERTIFICATE OF CALIBRATION

No.: 424477-708

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CALIBRATION OF:

Calibrator:	Brüel & Kjær	Type	4231	Serial No.:	2053018
Identification:	B	IEC Class:	1		

CUSTOMER:Stantec Consulting Ltd.
325 25 Street SE - Unit 200
Calgary, AB T2A 7H8**CALIBRATION CONDITIONS:**

Environment conditions:	Air temperature:	23.6	°C
	Air pressure:	98.63	kPa
	Relative Humidity:	49.5	%RH

SPECIFICATIONS: This document certifies that the acoustic calibrator as listed under "Type" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. Hottinger Brüel & Kjær Inc. utilizes a simple acceptance decision rule as defined by ILAC G8 with measurement uncertainty value which will not exceed 50% of the tolerance. The calibration of the listed transducer was accomplished using a test system which conforms to the requirements of ISO/IEC 17025, ANSI/NC SL Z540-1, and guidelines of ISO 10012-1. For "as received" and "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation. This Certificate and attached data pages shall not be reproduced, except in full, without written approval of the Hottinger Brüel & Kjær Inc. Calibration Laboratory-Duluth, GA. Results relate only to the items tested. The transducer has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants. The acoustic calibrator has been calibrated in accordance with the requirements as specified in IEC60942.

PROCEDURE: The measurements have been performed with the assistance of Hottinger Brüel & Kjær Inc. acoustic calibrator calibration application Software version 2.3.4 Type 7794 using calibration procedure 4231 Complete

RESULTS:

<input checked="" type="checkbox"/> "As Received" Data: Within Acceptance Criteria	<input type="checkbox"/> "As Received" Data: Outside Acceptance Criteria
<input checked="" type="checkbox"/> "Final" Data : Within Acceptance Criteria	<input type="checkbox"/> "Final" Data : Outside Acceptance Criteria

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from the standards, calibration method, effect of environmental conditions and any short time contribution from the calibrator under calibration.

Date of Calibration: 9 April, 2025

Certificate issued: 9 April, 2025

Can Phan
Calibration Technician
Grant Kennedy

Quality Representative

CERTIFICATE OF CALIBRATION

No.: 424477-708

Type: 4231

Serial No.: 2053018

Page 2 of 2

Sound Pressure Levels

All stated values are valid at environmental reference conditions

Nominal Level [dB]	Accept Limit Lower [dB]	Accept Limit Upper [dB]	Measured Level [dB]	Measurement Uncertainty [dB]
94	93.80	94.20	93.99	0.12
114	113.80	114.20	114.01	0.12

Frequency

Nominal Frequency [Hz]	Accept Limit Lower [Hz]	Accept Limit Upper [Hz]	Measured Frequency [Hz]	Measurement Uncertainty [Hz]
1000	999.00	1001.00	999.80	0.10

Total Distortion*

Distortion mode: TD* THD*

Calibration Level [dB]*	Accept Limit [%]*	Measured Distortion [%]*	Measurement Uncertainty [%]*
94	1.00	0.84	0.13
114	1.00	0.15	0.13

Environmental Reference Conditions:

Pressure: 101.3 kPa, Temperature: 23 °C, Relative Humidity: 50%

Instrument List

Type	Description	Serial no	Cal. date	Due date	Calibrated by	Trace number
3560	PULSE Analyzer	2723320	2024-10-16	2025-10-31	GK	401410-801
9545	Transfer Microphone	3	2024-10-18	2025-10-31	MH	401410-401
4228	Reference Sound Source	1618502	2023-04-19	2025-04-30	WS	CAS-632564-L2S0L9-708

During the calibration the calibrator has been loaded by the load volume of the Transfer Microphone. The load volumes for a number of different types of Transfer Microphones are listed in the table below.

For Brüel & Kjør Pistonphones types 4220 and 4228 the result of the SPL calibration has been corrected to be valid for a load volume of 1333 mm³. For all other types the result is valid with the actual load volume.

Transfer Microphone Type	Fulfils standard IEC 61094-1 LS	Fulfils standard IEC 61094-4 WS	Load Volume 1" (1/2" mic including DP-0776)	Load Volume 1/2"
4180	yes	yes	1126 mm ³	43 mm ³
4192	-	yes	1273 mm ³	190 mm ³
9545	-	-	1333 mm ³	-

Condition "As Received":

Good

The Hottinger Brüel & Kjær Calibration Laboratory
3079 Premiere Parkway Suite 120
Duluth, GA 30097
Telephone: 770/209-6907
Fax: 770/447-4033
Web site address: <http://www.hbkworld.com>

CERTIFICATE OF CALIBRATION

Certificate No: 409505- 801

Page 1 of 10

CALIBRATION OF:

Sound Level Meter:	Brüel & Kjær	2250	Serial No: 3007710
Microphone:	Brüel & Kjær	4189	Serial No: 2680621
Preamplifier:	Brüel & Kjær	ZC-0032	Serial No: 15717
Software version:	BZ7222 Version 4.7.8		

CLIENT: Stantec Consulting Ltd.
200 - 325 25th Street SE
Calgary, AB T2A 7H8

CALIBRATION CONDITIONS:

Preconditioning: 4 hours at 23 ± 3 °C
Environment conditions See actual values in Environmental Condition sections

SPECIFICATIONS:

This document certifies that the instrument as listed under "Model/Serial Number" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95%. Statements of compliance, where applicable, are based on calibration results falling within specified criteria with no reduction by the uncertainty of the measurement. The calibration of the listed instrumentation, was accomplished using a test system which conforms with the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and ISO 10012-1. For "as received" and/or "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation. This Certificate and attached data pages shall not be reproduced, except in full, without the written approval of the Hottinger Brüel & Kjær Calibration Laboratory-Duluth, GA. Results relate only to the items tested. This instrument has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants.

PROCEDURE:

Hottinger Brüel & Kjær Model 3630 Sound Level Meter Calibration System Software 7763 Version 8.6 - DB: 8.60 Test Collection 2250-4189.

RESULTS:

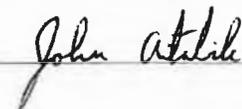
As Received Condition	As Received Data	Final Data
X Received in good condition	_X_ Within acceptance criteria	_X_ Within acceptance criteria

Date of Calibration: 28 Feb. 2025

Certificate issued: 28 Feb. 2025

Grant Kennedy

Calibration Technician



John Avitabile
Quality Representative

Summary

Preliminary inspection	<u>Passed</u>
Environmental conditions, Prior to calibration	<u>Passed</u>
Reference information	<u>Passed</u>
Indication at the calibration check frequency	<u>Passed</u>
Acoustical signal tests of a frequency weighting, C weighting	<u>Passed</u>
Self-generated noise, Microphone installed	<u>Passed</u>
Self-generated noise, Electrical	<u>Passed</u>
Electrical signal tests of frequency weightings, A weighting	<u>Passed</u>
Electrical signal tests of frequency weightings, C weighting	<u>Passed</u>
Electrical signal tests of frequency weightings, Z weighting	<u>Passed</u>
Frequency and time weightings at 1 kHz	<u>Passed</u>
Long-term stability, Reference	<u>Passed</u>
Level linearity on the reference level range, Upper	<u>Passed</u>
Level linearity on the reference level range, Lower	<u>Passed</u>
Toneburst response, Time-weighting Fast	<u>Passed</u>
Toneburst response, Time-weighting Slow	<u>Passed</u>
Toneburst response, LAE	<u>Passed</u>
C-weighted peak sound level, 8 kHz	<u>Passed</u>
C-weighted peak sound level, 500 Hz	<u>Passed</u>
Overload indication	<u>Passed</u>
Long-term stability, 1. relative	<u>Passed</u>
High-level stability	<u>Passed</u>
Long-term stability, 2. relative	<u>Passed</u>
Environmental conditions, Following calibration	<u>Passed</u>

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 cover only a limited subset of the specifications in IEC 61672-1:2013.

Conformance to a performance specification is demonstrated when the following criteria are both satisfied: (a) a measured deviation from a design goal does not exceed the applicable acceptance limit and (b) the corresponding uncertainty of measurement does not exceed the corresponding maximum-permitted uncertainty of measurement given in IEC 61672-1:2013 for the same coverage probability of 95 %.



CERTIFICATE OF CALIBRATION

No.: 409505-702

Page 1 of 4

CALIBRATION OF:

Microphone: Brüel & Kjær Type 4189 Serial No. 2680621
Identification: 5

CUSTOMER:

Stantec Consulting Ltd
200-325 25 St SE
Calgary AB T2P 7H8

CALIBRATION CONDITIONS:

Environment conditions: Air temperature: 22 °C
Air pressure: 99.3 kPa
Relative Humidity: 23.5 %RH
Applied polarization voltage: 0 Vdc

SPECIFICATIONS:

This document certifies that the instrument as listed under "Type" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. Hottinger Brüel & Kjær Inc. utilizes a simple acceptance decision rule as defined by ILAC G8 with measurement uncertainty value which will not exceed 50% of the tolerance. The calibration of the listed transducer was accomplished using a test system which conforms to the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and guidelines of ISO 10012-1. For "as received" and "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation. This Certificate and attached data pages shall not be reproduced, except in full, without written approval of the Hottinger Brüel & Kjær Calibration Laboratory-Duluth, GA. Results relate only to the items tested. The transducer has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants.

PROCEDURE:

The measurements have been performed with the assistance of the Hottinger Brüel & Kjær Inc. Microphone Calibration System B&K 9721 with application software WT9649 and WT9650 version 5.3.0.11 using calibration procedure: 4189-S251-FF-01

RESULTS:

"As Received" Data: Within Acceptance Criteria "As Received" Data: Outside Acceptance Criteria
 "Final" Data : Within Acceptance Criteria "Final" Data : Outside Acceptance Criteria

The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k=2$ providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with EA-4/02 from elements originating from standards, calibration method, effect of environmental conditions and any short-term contribution from the device under calibration.

Date of Calibration: February 28, 2025

Certificate issued: February 28, 2025

Can Phan
Calibration Technician

Aundra Welch
Quality Representative

CERTIFICATE OF CALIBRATION

No.: 409505-702

Type: 4189

Serial No.: 2680621

Page 2 of 4

Sensitivity

Nominal sensitivity:	-26 dB re. 1V/Pa	+/-	1.5 dB
Sensitivity at calibration conditions:	-26.26 dB re. 1V/Pa	or	48.62 mV/Pa
Sensitivity at reference conditions:	-26.29 dB re. 1V/Pa	or	48.50 mV/Pa
Uncertainty:	+/- 0.11 dB		
Correction factor K at reference conditions:	0.29 dB		
Calibration Frequency:	251.19 Hz		

Reference Conditions:

Pressure: 101.3 kPa
Temperature: 23 °C
Relative Humidity: 50%

Traceable references

Type	Serial no	Cal. date	Due date	Calibrated by	Trace number
4180	2602440	2024-04-23	2026-04-30	DPLA	M2.10-1646-3.1

Condition "As Received":

Good

The Hottinger Brüel & Kjær Calibration Laboratory
3079 Premiere Parkway Suite 120
Duluth, GA 30097
Telephone: 770/209-6907
Fax: 770/447-4033
Web site address: <http://www.hbkworld.com>

CERTIFICATE OF CALIBRATION

Certificate No: 418346-801

Page 1 of 10

CALIBRATION OF:

Sound Level Meter: Brüel & Kjær 2250 Serial No: 3007892
Microphone: Brüel & Kjær 4189 Serial No: 2780543
Preamplifier: Brüel & Kjær ZC-0032 Serial No: 30312
Software version: BZ7222 Version 4.7.7

CLIENT: Stantec Consulting Ltd.
200 - 325 25th Street SE
Calgary, AB T2A 7H8

CALIBRATION CONDITIONS:

Preconditioning: 4 hours at 23 ± 3 °C
Environment conditions See actual values in Environmental Condition sections

SPECIFICATIONS:

This document certifies that the instrument as listed under "Model/Serial Number" has been calibrated and unless otherwise indicated under "Final Data", meets acceptance criteria as prescribed by the referenced Procedure. The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor $k = 2$ providing a level of confidence of approximately 95%. Statements of compliance, where applicable, are based on calibration results falling within specified criteria with no reduction by the uncertainty of the measurement. The calibration of the listed instrumentation, was accomplished using a test system which conforms with the requirements of ISO/IEC 17025, ANSI/NCSL Z540-1, and ISO 10012-1. For "as received" and/or "final" data, see the attached page(s). Items marked with one asterisk (*) are not covered by the scope of the current A2LA accreditation This Certificate and attached data pages shall not be reproduced, except in full, without the written approval of the Hottinger Brüel & Kjær Calibration Laboratory-Duluth, GA. Results relate only to the items tested. This instrument has been calibrated using Measurement Standards with values traceable to the National Institute of Standards and Technology, National Measurement Institutes or derived from natural physical constants.

PROCEDURE:

Hottinger Brüel & Kjær Model 3630 Sound Level Meter Calibration System Software 7763 Version 8.6 - DB: 8.60 Test Collection 2250-4189.

RESULTS:

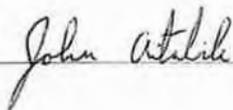
As Received Condition	As Received Data	Final Data
<input type="checkbox"/> Received in good condition	<input checked="" type="checkbox"/> Within acceptance criteria	<input checked="" type="checkbox"/> Within acceptance criteria

Date of Calibration: 27 Feb. 2025

Certificate issued: 28 Feb. 2025

Grant Kennedy

Calibration Technician



John Avitabile
Quality Representative

Summary

Preliminary inspection	<u>Passed</u>
Environmental conditions, Prior to calibration	<u>Passed</u>
Reference information	<u>Passed</u>
Indication at the calibration check frequency	<u>Passed</u>
Acoustical signal tests of a frequency weighting, C weighting	<u>Passed</u>
Self-generated noise, Microphone installed	<u>Passed</u>
Self-generated noise, Electrical	<u>Passed</u>
Electrical signal tests of frequency weightings, A weighting	<u>Passed</u>
Electrical signal tests of frequency weightings, C weighting	<u>Passed</u>
Electrical signal tests of frequency weightings, Z weighting	<u>Passed</u>
Frequency and time weightings at 1 kHz	<u>Passed</u>
Long-term stability, Reference	<u>Passed</u>
Level linearity on the reference level range, Upper	<u>Passed</u>
Level linearity on the reference level range, Lower	<u>Passed</u>
Toneburst response, Time-weighting Fast	<u>Passed</u>
Toneburst response, Time-weighting Slow	<u>Passed</u>
Toneburst response, LAE	<u>Passed</u>
C-weighted peak sound level, 8 kHz	<u>Passed</u>
C-weighted peak sound level, 500 Hz	<u>Passed</u>
Overload indication	<u>Passed</u>
Long-term stability, 1. relative	<u>Passed</u>
High-level stability	<u>Passed</u>
Long-term stability, 2. relative	<u>Passed</u>
Environmental conditions, Following calibration	<u>Passed</u>

The sound level meter submitted for testing successfully completed the periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

However, no general statement or conclusion can be made about conformance of the sound level meter to the full specifications of IEC 61672-1:2013 because (a) evidence was not publicly available, from an independent testing organization responsible for pattern approvals, to demonstrate that the model of sound level meter fully conformed to the class 1 specifications in IEC 61672-1:2013 or correction data for acoustical test of frequency weighting were not provided in the Instruction Manual and (b) because the periodic tests of IEC 61672-3:2013 cover only a limited subset of the specifications in IEC 61672-1:2013.

Conformance to a performance specification is demonstrated when the following criteria are both satisfied: (a) a measured deviation from a design goal does not exceed the applicable acceptance limit and (b) the corresponding uncertainty of measurement does not exceed the corresponding maximum-permitted uncertainty of measurement given in IEC 61672-1:2013 for the same coverage probability of 95 %.

CERTIFICATE OF CALIBRATION

No.: 418346-703

Type: 4189

Serial No.: 2780543

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Sensitivity

Nominal sensitivity:	-26 dB re. 1V/Pa	+/-	1.5 dB
Sensitivity at calibration conditions:	-26.29 dB re. 1V/Pa	or	48.47 mV/Pa
Sensitivity at reference conditions:	-26.32 dB re. 1V/Pa	or	48.32 mV/Pa
Uncertainty:	+/- 0.11 dB		
Correction factor K at reference conditions:	0.32 dB		
Calibration Frequency:	251.19 Hz		

Reference Conditions:

Pressure: 101.3 kPa

Temperature: 23 °C

Relative Humidity: 50%

Traceable references

Type	Serial no	Cal. date	Due date	Calibrated by	Trace number
4180	2602440	2024-04-23	2026-04-30	DPLA	M2. 10-1646-3.1

Condition "As Received":

Good

APPENDIX C NOISE INTERVIEW RECORDS

**WOODFIBRE LNG PROJECT:
FLOATEL #1 NOISE MONITORING SURVEY - 8
(DECEMBER 15 – 19, 2025)**

Interviewer: Emma Xiong, EIT				Interview Questionnaire			
Interviewee Information							
ID # of Interviewee	Interview Date	Living Deck	Work Shift	1.General evaluation for your sleeping quality at Floatel	2.How long have you stayed?	3. Can you hear outside construction noise?	3. Any noise concerns/ complaints
#1	December 16	5	Day	No issues, sleep well	6 months	No	No concern
#2	December 16	5	Day	All good	2 months	No	No
#3	December 16	5	Day	Most time good	2 months	No	No noise concern
#4	December 16	7	Day	No noise problem	1 month	Never noticed	Some noise from next doors washroom
#5	December 16	7	Day	It's fine	1 month	No	No complaint
#6	December 16	6	Night	Good	10 months	No noise from outside	People talking in corridor
#7	December 16	6	Night	No problem	10 months	No	Nothing complaint
#8	December 16	5	Day	It's OK	14 months	Nothing heard from construction	All good
#9	December 16	6	Day	Great	10 months	Not at all	Not for noise
#10	December 16	6	Day	Already used to	8 months	No	No
#11	December 16	2	Night	Good	2 years	No construction noise	Nothing
#12	December 16	6	Day	All OK	5 months	Barely	Cleaning noise from nearby cabins
#13	December 17	5	Night	All good	10 months	No	Sometimes noise from people
#14	December 17	5	Day	Not bad	12 months	Didn't notice	Gym noise, depending on location, not this time
#15	December 17	7	Day	Average	12 months	Not yet	No
#16	December 17	7	Day	It's OK	13 months	Not yet	No
#17	December 17	9	Night	Generally Ok	16 months	Not heard from outside	Nothing complaint
#18	December 17	5	Day	So far so good	11 months	No	Noise is Ok
#19	December 18	6	Day	It's good	3 months	Not really	All good
#20	December 18	6	Day	No issues	3 weeks	Never	No, but people work out late at gym sometimes
#21	December 18	9	Night	No problem	5 months	No	Room services, cleaner knock doors
#22	December 18	5	Night	Not too bad	7 months	No	Really quiet
#23	December 18	9	Day	Pretty good	15 months	No noise from construction activity	Nothing at all
#24	December 18	5	Day	Sleep well	10 months	Nothing heard from outside	Not really
#25	December 18	7	Day	Good	2 months	No	No AC noise concern
#26	December 18	5	Day	Excellent	12 months	Not heard inside cabin	All good
#27	December 18	6	Night	Good condition	1 month	No	it's a good camp
#28	December 18	6	Day	OK	14 months	No	No issues
#29	December 18	5	Night	Just OK	7 months	Barely heard	No
#30	December 18	6	Day	It's OK	4 months	No	Generally great