Appendix 51

Meadowbank and Whale Tail 2019 Noise Monitoring Report

AGNICO EAGLE

MEADOWBANK GOLD PROJECT

2019 Noise Monitoring Report

In Accordance with NIRB Project Certificates No.004 and No. 008

Prepared by:
Agnico Eagle Mines Limited – Meadowbank Division

March, 2020

EXECUTIVE SUMMARY

The 2019 noise monitoring program at Meadowbank was conducted according to the Noise Monitoring and Abatement Plan (Version 3; AEM, 2018). The objective of this program is to measure noise levels at 11 previously determined monitoring locations around the Meadowbank and Whale Tail sites, over at least two 24 h periods. Since high winds in the area tend to substantially reduce the quantity of available valid data, Agnico Eagle aims to conduct a minimum of two monitoring events of two to four days per station.

In 2019, two monitoring events were successfully completed for stations R2 – R6, and one event was successfully conducted for R1. While noise monitoring was conducted for R7 – R11, sound pressure levels were not logged during those events due to an error in noise meter settings. As a result, data evaluation was not possible for those stations in 2019. Actions to ensure this type of error is more rapidly detected and remediated moving forward are identified.

Following data processing in accordance with standard methods (Alberta Energy Resource Conservation Board Directive 038), monitoring results are compared to the site's daytime target sound level (55 dBA), nighttime target sound level (45 dBA), and FEIS predictions.

Daytime, night-time, and 24 h L_{eq} values calculated from recorded 1-min L_{eq} values for each monitoring event and location are shown in Table 1. No exceedances of the target sound levels or FEIS 24-h predictions occurred. For station R5, the FEIS specified that each 1 h L_{eq} was predicted to be <57 dBA. In 2019, that prediction was marginally exceeded (58 dBA) for one of 32 monitoring hours during a single monitoring event, due to an aircraft flyover.

Impacts of sensory disturbance on wildlife are determined through the Terrestrial Ecosystem Monitoring Plan (TEMP), and reported annually in the Wildlife Summary Report. While sensory disturbance of caribou in excess of impact predictions was identified in that report in 2018, the contribution of noise to sensory disturbance cannot realistically be isolated. However, supplemental wildlife monitoring under the recently updated TEMP (December, 2018) specifically aimed to quantify the response of caribou to blasts in 2019. These results are discussed in the 2019 Wildlife Monitoring Summary Report.

Table 1. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R1 – R6. Day- and night-time periods with fewer than 3 hours of valid data are excluded from analyses (-). Noise levels at R7 – R11 and one event at R1 were accidentally not logged in 2019 (NL). **One of 32 $L_{eq\text{-}1hr}$ values exceeded the prediction, at 58 dBA, during event 2.

Site	Dates (2019)	Noise Targets		FEIS Prediction	Measured Values		
		$L_{eq,\ day}$ (dBA)	$L_{eq,\ night}$ (dBA)	$L_{eq,\ 24h}$ (dBA)	$L_{eq,\ day}$ (dBA)	$L_{eq,\ night}$ (dBA)	$L_{eq,\ 24\ h}$ (dBA)
R1	06/24 – 06/28	55	45	58-63	48.6	44.6	47.6
	07/19 – 07/21	55	45		NL	NL	NL
R2	06/28 – 07/02	55	45	58-63	37.8	35.4	36.8
	07/31 – 08/02				34.2	33.9	34.1
R3	08/10 – 08/14	55	45	49-53	-	-	-
	07/26 – 07/30				38.0	40.5	38.9
R4	07/04 – 07/06	55	45	58-63	-	-	-
	08/03 – 08/06				-	-	-
R5	06/30 – 07/04	55	45	1 hr L_{eqs} < 57**	36.8	-	-
	08/07 – 08/09				45.8	36.1	44.6
R6	07/22 – 07/26	55	45	45.97 – 50.33	42.7	30.4	41.8
	08/18 – 08/21				31.1	23.8	29.5
R7	07/29 – 07/31	55	45	45.14 – 50.04	NL	NL	NL
	08/20 – 08/27				NL	NL	NL
R8	06/30 – 07/03	55	45	40.41 – 45.14	NL	NL	NL
	08/07 – 08/08				NL	NL	NL
R9	07/26 – 07/28	55	45	36.19 – 40.41	NL	NL	NL
	08/12 – 08/14				NL	NL	NL
R10	08/01 – 08/02	55	45	45.14 – 50.04	NL	NL	NL
R11	07/18 – 07/20	55	45	45.14 – 50.04	NL	NL	NL
	07/21 – 07/24				NL	NL	NL
	08/09 – 08/11				NL	NL	NL

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SECTION 1 • INTRODUCTION

Since 2008, Agnico Eagle Mines Ltd. (Agnico Eagle) has conducted outdoor noise monitoring at the Meadowbank site, near Baker Lake, Nunavut, in accordance with NIRB Project Certificate No. 004. The Noise Monitoring and Abatement Plan (Version 3; 2018) was updated in 2018 to include monitoring for the Whale Tail site, according to NIRB Project Certificate No. 008. The objective of this monitoring program is to measure representative noise levels at the perimeter of the main Meadowbank and Whale Tail sites, to document ambient noise levels and inform the implementation of noise mitigation measures.

1.1 MONITORING LOCATIONS

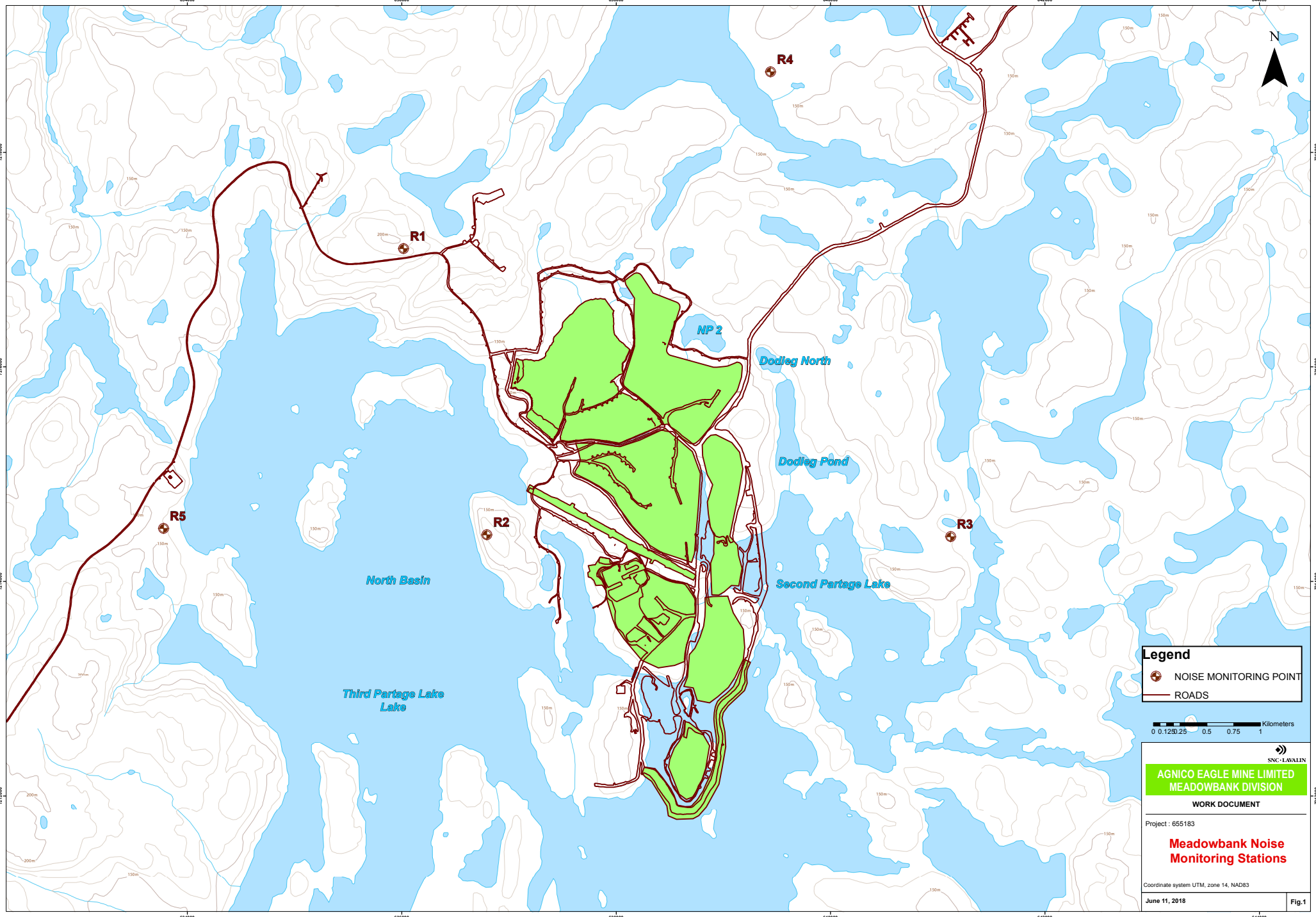
To fulfill the monitoring objectives, the Noise Monitoring and Abatement Plan (AEM, 2018) indicates that at least two 24 h surveys of ambient outdoor noise will be conducted annually at 11 representative locations. However, due to a tendency towards sub-optimal weather conditions for noise monitoring (see Section 2.2), Agnico Eagle aims to conduct a minimum of two surveys for each location, with each survey lasting two to four days.

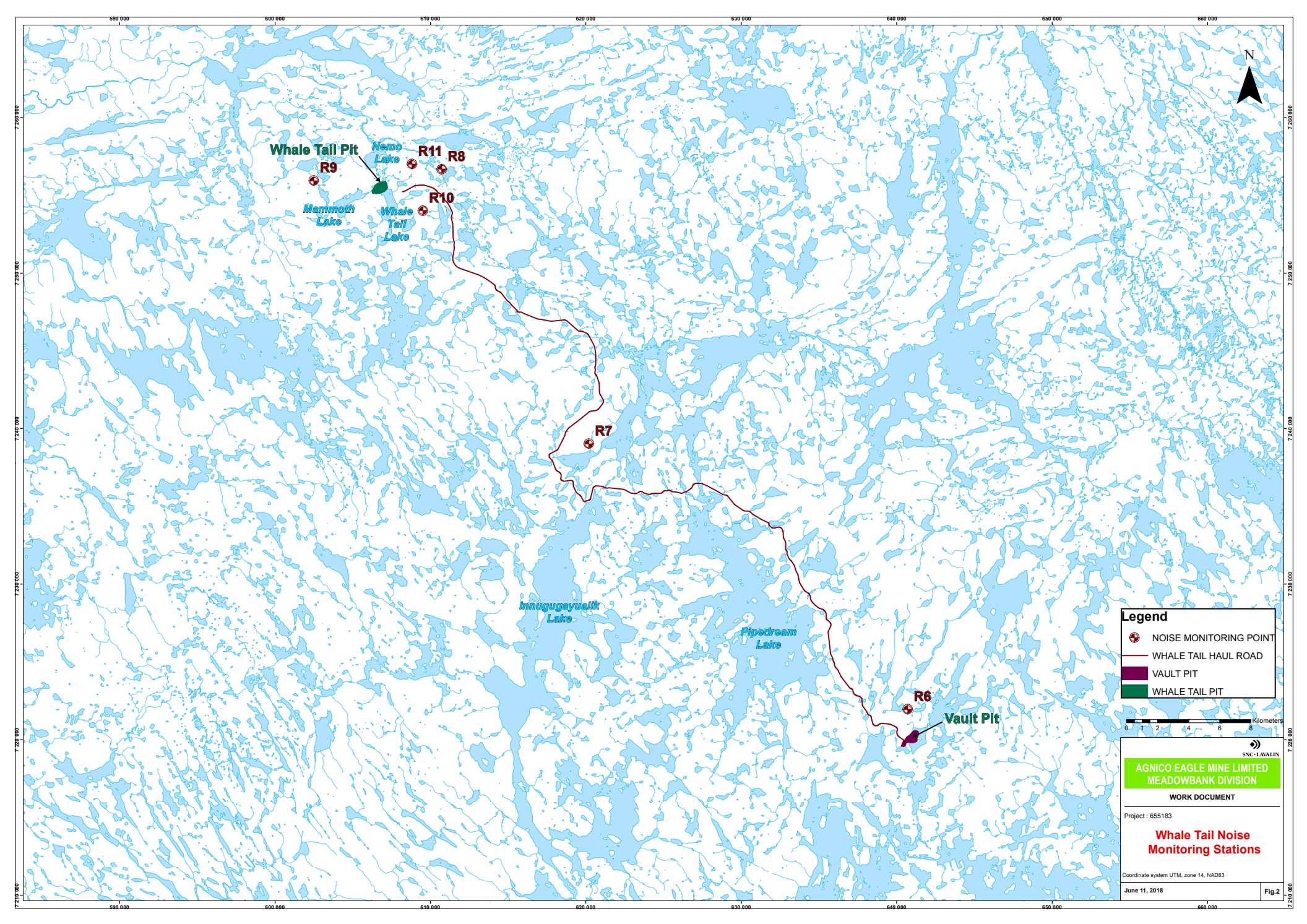
Noise monitoring locations R1 – R5 have been in place since 2014. Sites R6 – R11 were added in 2018 as a result of development of the Whale Tail Pit and Haul Road. All sites were located as recommended in the Noise Monitoring and Abatement Plan (2018), with any minor deviations noted below. UTM coordinates are provided in Table 2, and are shown in relation to mine site features in Figures 1 and 2. Photos of the monitoring locations are provided in Appendix A.

In 2019, two monitoring events were successfully completed for stations R2 – R6. One event was successfully conducted for R1. While noise monitoring was conducted for an additional event at R1, as well as two events each at R7 – R11, sound pressure levels were accidentally not logged during those events, so data evaluation was not possible for those stations in 2019.

Table 2. UTM coordinates and monitoring dates for the Meadowbank and Whale Tail noise monitoring locations. *Data was accidentally not logged for event 2 at R1, and all events at R7 – R11.

Monitoring Location	Easting	Northing	Start Time	Stop Time
R1	636149	7217332	6/24/19 16:30	6/28/19 14:15
			*7/19/19 8:00**	*7/21/19 13:46*
R2	636795	7214435	6/28/19 15:12	6/30/19 12:48
			7/31/19 14:44	8/02/19 8:41
R3	641104	7214427	8/10/19 18:01	8/14/19 10:12
			7/26/19 11:11	7/30/19 14:54
R4	639990	7218810	7/04/19 16:17	7/06/19 14:02
			8/03/19 8:35	8/06/19 12:13
R5	633781	7214493	6/30/19 17:21	7/04/19 13:53
			8/07/19 10:08	8/09/19 8:07
R6	640708	7221964	7/22/19 10:10	7/25/19 10:38
			8/18/19 15:48	8/21/19 8:13
R7*	620194	7239038	*7/29/19 14:10*	*7/31/19 8:15*
			8/20/19 16:15	*8/27/19 10:19*
R8*	610725	7256677	*6/30/19 14:45*	*7/03/19 14:13*
			8/07/19 8:20	*8/08/19 15:45*
R9*	602488	7255946	*7/26/19 14:55*	*07/28/2019*
			08/12/2019 12:40	*8/14/19 13:08*
R10*	609516	7254055	*8/01/19 7:30*	*8/02/19 14:35*
R11*	608786	7257008	*7/18/19 13:40*	*7/20/19 16:30*
			7/21/19 15:13	*7/24/19 9:54*
			8/09/19 8:10	*8/11/19 8:40*


R1
R2
R3
R4
R5
NP 2
Dodieg North
Dodieg Pond
North Basin
Second Portage Lake
Third Portage Lake
Lake
N
Legend
NOISE MONITORING POINT
ROADS
Kilometers
0 0.125 0.25 0.5 0.75 1
SNC·LAVALIN
AGNICO EAGLE MINE LIMITED
MEADOWBANK DIVISION
WORK DOCUMENT
Project : 655183
Meadowbank Noise Monitoring Stations
Coordinate system UTM, zone 14, NAD83
June 11, 2018
Fig.1


590 000
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620 000
630 000
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7 260 000
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Whale Tail Pit
R9
Nemo Lake
R11
R8
R10
Mammoth Lake
Whale Tail Lake
R7
Innugugayualik Lake
Pipedream Lake
R6
Vault Pit
Legend
NOISE MONITORING POINT
WHALE TAIL HAUL ROAD
VAULT PIT
WHALE TAIL PIT
0 1 2 4 6 8 Kilometers
SNC·LAVALIN
AGNICO EAGLE MINE LIMITED
MEADOWBANK DIVISION
WORK DOCUMENT
Project : 655183
Whale Tail Noise Monitoring Stations
Coordinate system UTM, zone 14, NAD83
June 11, 2018
Fig.2

1.1.1 R1

Location R1 was initially approximately 700 m south of the explosive storage area, and 400 m northeast of the all-weather access road. A spur road and a storage area were constructed within 100 m of this location in 2011. As a result, in 2014 Agnico Eagle moved this station approximately 700 m northwest of the explosives storage area to better represent the originally intended orientation.

1.1.2 R2

Location R2 is approximately 600 m west of the airstrip. Third Portage Lake is to the west and southwest and surrounding terrain is vegetated tundra with rocky outcrops.

1.1.3 R3

Location R3 is approximately 1,800 m east of the East Dike. Second Portage Lake is to the west and east, and surrounding terrain is vegetated tundra with rocky outcrops.

1.1.4 R4

Location R4 is approximately 1,500 m southwest of the future location of Vault Pit, and less than 1 km from the Vault Haul Road. Turn Lake is to the west, and surrounding terrain is vegetated tundra with rocky outcrops.

1.1.5 R5

Location R5 is approximately 500 m south of the exploration camp and 300 m east of the all-weather access road. Third Portage Lake is immediately to the east, and surrounding terrain away from the shoreline is vegetated tundra with rocky outcrops. This location is situated on a known caribou migration route.

1.1.6 R6

Location R6 is located approximately 1,500 m east from the proposed Whale Tail Pit Haul road and approximately 1,500 m north from the centre of the Vault Pit. The terrain is relatively flat and covered by vegetation typical of tundra (i.e., low vegetation). In addition, the ground surface near the receptor is covered by scattered rocks. The waste rock storage area of the Vault Pit is located approximately 750 m south from the monitoring site.

1.1.7 R7

Location R7 is located approximately 1,500 m east from the proposed Whale Tail Pit Haul Road. The ground surface around the monitoring site is generally covered by vegetation typical of tundra (i.e., low vegetation). In addition, the ground surface is covered with scattered rocks.

1.1.8 R8

Location R8 is located on an elevated plateau approximately 1,500 m northeast from the Whale Tail Pit site. The ground surface is covered by vegetation typical of tundra (i.e., low vegetation) and covered by scattered rocks. This monitoring station was moved 150 m east of the original baseline monitoring location due to ongoing quarrying activities.

1.1.9 R9

Location R9 is located approximately 1,500 m northwest from the proposed Whale Tail Pit. The ground surface is covered by vegetation typical of tundra (i.e., low vegetation) and covered by scattered rocks.

1.1.10 R10

Location R10 is located approximately 1,000 m southeast from the Whale Tail Pit site, on the east side of Whale Tail Lake.

1.1.11 R11

Location R11 is located approximately 1,000 m north from the Whale Tail Pit site, on the east side of Nemo Lake.

SECTION 2 • METHODS

In 2019, Agnico Eagle technicians conducted noise surveys at each of the locations described in Section 1.1. These surveys provide data on average noise levels during a typical day, as well as variability of noise levels within the day.

2.1 SOUND LEVEL METER

For all stations a Bruel and Kjaer Model 2250 integrating sound level meter was used to conduct the noise survey. As in the past, the noise level logging rate was set at one-minute intervals.

The parameters logged each minute included:

- Integrated average sound level, in dBA – L_{eq}
- Absolute maximum sound level, in dBA – L_{max}
- Absolute minimum sound level, in dBA – L_{min}

Sound recordings were also obtained for the complete duration of all monitoring events to facilitate data interpretation.

Calibration of the instrument was performed before and after each monitoring event using a Bruel and Kjaer Type 4231 Calibrator, to ensure variance was within 0.5 dB (see field notes, Appendix B). Estimated uncertainty of the calibrator is ± 0.12 dB at a 99% confidence level.

2.2 WEATHER DATA

Weather data for the noise monitoring periods was collected using the mine site's permanent weather station. Hourly data for wind, temperature and relative humidity was available from this station.

The Alberta Energy Resource Conservation Board (Directive 038; ERCB, 2007) has published preferred weather conditions for data to be used in noise complaint investigations because wind and precipitation can affect noise levels. Based on these guidelines, noise monitoring data was filtered to remove measurements collected outside of conditions where wind speed exceeded 15 km/h (4.17 m/s) or relative humidity exceeded 90% (assuming precipitation occurred), prior to data analysis. Average hourly humidity and wind speed values were used, since filtering based on maximum values has historically resulted in exclusion of nearly the entire noise dataset. Weather data (wind speed, wind direction, temperature, and humidity) are provided in Appendix C.

In 2019, as in all previous years, wind speeds commonly exceeded preferred levels, so the available data was significantly reduced.

2.3 FIELD NOTES

A pocket weather meter (Kestrel 3000) was used by field staff to record wind speed, direction and temperature at the beginning and end of each monitoring period. Other observations included precipitation, cloud cover and observed noise sources during instrument set-up and take-down. All field observations are provided in Appendix B.

2.4 DATA ANALYSIS

Since noise levels constantly vary over time, the monitoring instrument used at Meadowbank measures continuously and records a single-number value for each minute, representing the equivalent sound level (L_{eq}).

All datapoints associated with the first hour of measurement were filtered out to remove noise from technicians, and to ensure more than 30 min of data contributed to hourly averages. Since noise monitors were usually left in the field until the battery ran out, records from the last hour were only filtered out if less than 30 min of data were recorded or technician interference was noted.

Recorded one-minute L_{eq} values were then used to calculate hourly equivalent noise levels ($L_{eq, 1h}$). After filtering based on weather considerations in accordance with Directive 038 (Section 2.2), valid hourly L_{eq} values were energy-averaged across calendar days within a monitoring event (2 – 4 sequential days) and average values for each hour were used to calculate daytime (7am-11pm), night-time (11pm-7am) and 24 h L_{eq} values for each event. This approach was taken beginning in 2016 due to the frequency of high-wind conditions, in order to maximize the utility of the available data, and obtain day- and night-time L_{eq} values with at least 3 hr of coverage.

When calculated L_{eq} values exceeded FEIS predictions or noise targets, sound recordings were reviewed to identify and if appropriate, remove noise data dominated by background noise sources unrelated to mine activity, and causing recorded 1-min L_{eq} values in excess of FEIS predictions or noise targets (e.g. wind gusts, ongoing animal disturbance in close proximity to the microphone, human interference). After this second data filtering, hourly L_{eq} values with less than 30 min of valid data were excluded from calculations, in accordance with Directive 038. Similarly, day- and night-time, and 24-h L_{eq} values were only calculated when more than 180 valid minutes were available from each of the daytime and nighttime periods.

These final L_{eq} values were compared to FEIS predictions and the site's noise monitoring criteria (see Table 3).

2.5 SITE NOISE TARGETS AND FEIS PREDICTIONS

Although no residential receptors are located nearby, Agnico Eagle aims to meet target sound levels identified in Environment Canada's "Environmental Code of Practice for Metal Mines" (2009). These values are 55 dBA (daytime) and 45 dBA (night-time).

For all monitoring stations, results are also compared to predictions made in the Project FEIS documents (Cumberland, 2006; Golder, 2016). While noise modeling for EIS purposes determines a single sound pressure level produced by the Project at a given location, in reality, noise levels vary over time, depending on contributions from background sources, wind direction, ongoing activities, etc. FEIS predictions are therefore compared to the 24-h L_{eq} calculated from monitoring results, which represents the average sound pressure level produced by all sources over the course of a day.

Predictions for Whale Tail pit sites (R6 – R11) have been adjusted to include contributions from background sound levels (30 dBA), as measured in the impact assessment for that project (Golder, 2016). For the initial EIS (sites R1 – R5; Cumberland, 2005), contributions from background noise were assumed to be negligible in comparison to project-related noise, so no adjustment was made.

Table 3. FEIS predictions and target sound levels for the Meadowbank and Whale Tail sites.

Location	FEIS Prediction $L_{eq\text{-}24h}$ (dBA)	Daytime Target $L_{eq\text{-}daytime}$ (dBA)	Night-time Target $L_{eq\text{-}night\text{-}time}$ (dBA)
R1	58-63	55	45
R2	58-63	55	45
R3	49-53	55	45
R4	58-63	55	45
R5	(all 1 hr L_{eq} < 57)	55	45
R6	45.97 – 50.33	55	45
R7	45.14 – 50.04	55	45
R8	40.41 – 45.14	55	45
R9	36.19 – 40.41	55	45
R10	45.14 – 50.04	55	45
R11	45.14 – 50.04	55	45

SECTION 3 • RESULTS

3.1 R1

One-minute filtered and unfiltered L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) during monitoring event 1 at R1 are shown in Figure 3. Filtered one-minute L_{eq} values exclude data collected in the first hour to remove technician interference, and data collected under non-optimal weather conditions (wind speed > 15 km/h, relative humidity > 90%). Filtered values were used in subsequent analyses, but unfiltered values are provided for reference.

For station R1, 70 h of valid data were available from the first monitoring event (June 24 – 28). In total, 12 h were filtered out due to measured weather conditions, and 12 h were filtered out after review of sound recordings, due to audible wind gusts producing L_{eq} values in excess of targets (no project-related sounds were audible during this time). For the second monitoring event (July 19 – 21), data was not logged so no analysis could be performed.

Final calculated daytime, night-time, and 24-h L_{eq} values are provided in Section 4.

Weather data and hourly L_{eq} values for all noise monitoring events are provided in Appendix C.

Noise sources noted in the field log at this location include AWAR traffic and animals (Appendix B).

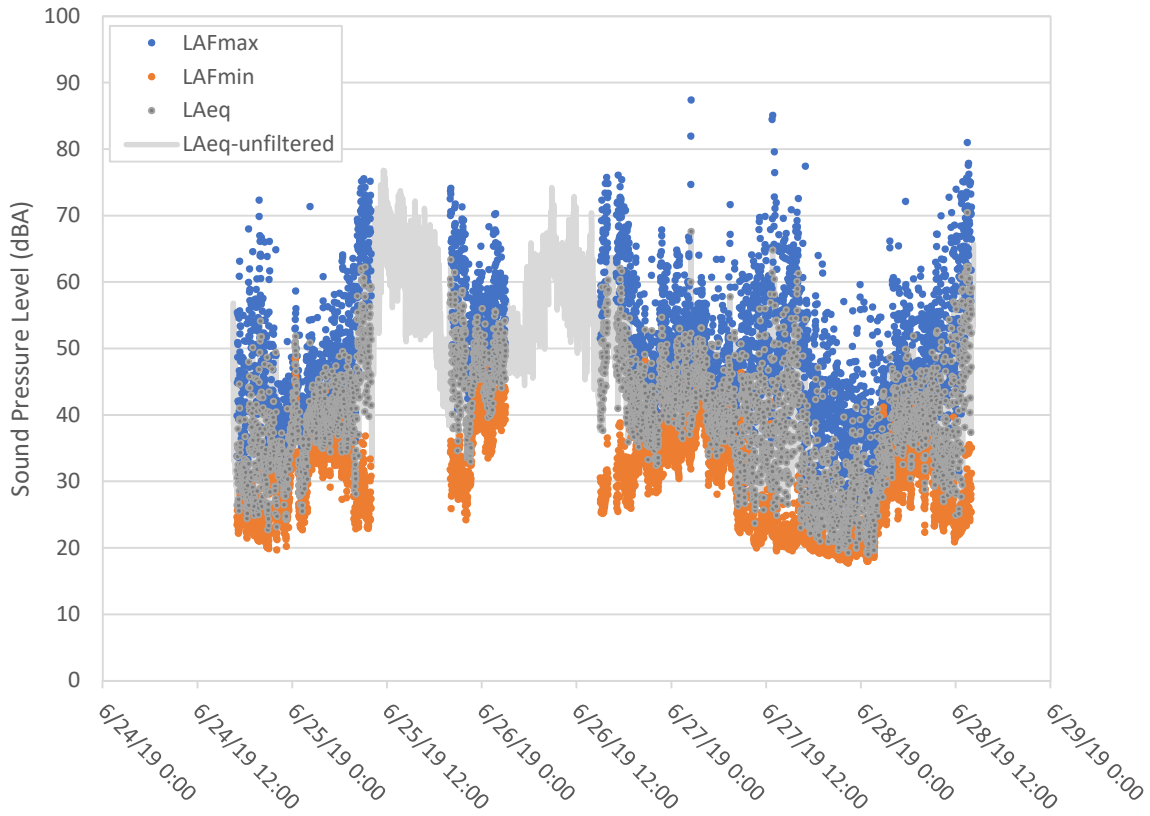


Figure 3. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R1 at the Meadowbank site during monitoring event 1. Filtered data excludes those measurements taken outside of optimal conditions (set-up, take-down, wind > 15 km/h, RH > 90%).

3.2 R2

One-minute filtered and unfiltered L_{eq} value, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) over the two monitoring events at R2 are shown in Figures 4 and 5.

After filtering due to recorded weather conditions, 17h and 25h of valid data were available from the first and second monitoring event, respectively.

Final calculated daytime, night-time, and 24-h L_{eq} values for each monitoring event are provided in Section 4.

Weather data and hourly L_{eq} values for all noise monitoring events are provided in Appendix C.

Noise sources noted in the field log at this location include insects (Appendix B).

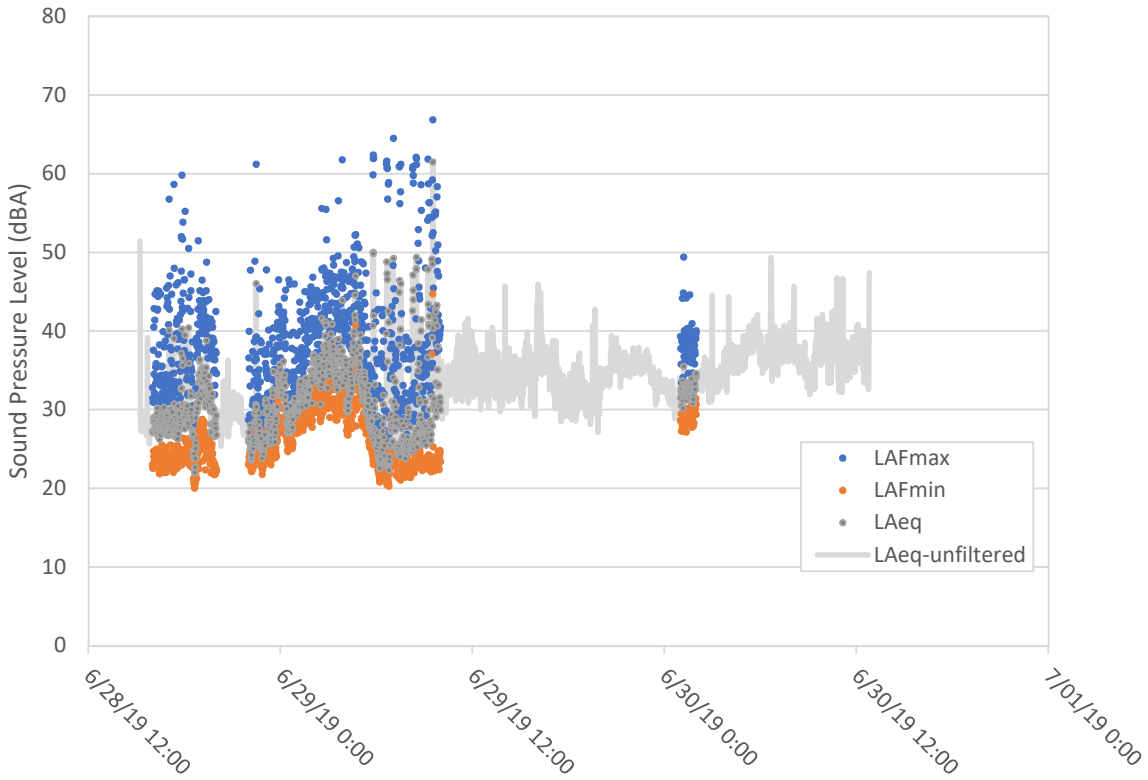


Figure 4. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R2 at the Meadowbank site during monitoring event 1. Filtered data excludes those measurements taken outside of optimal conditions (set-up, take-down, wind > 4.17 m/s, RH > 90%).

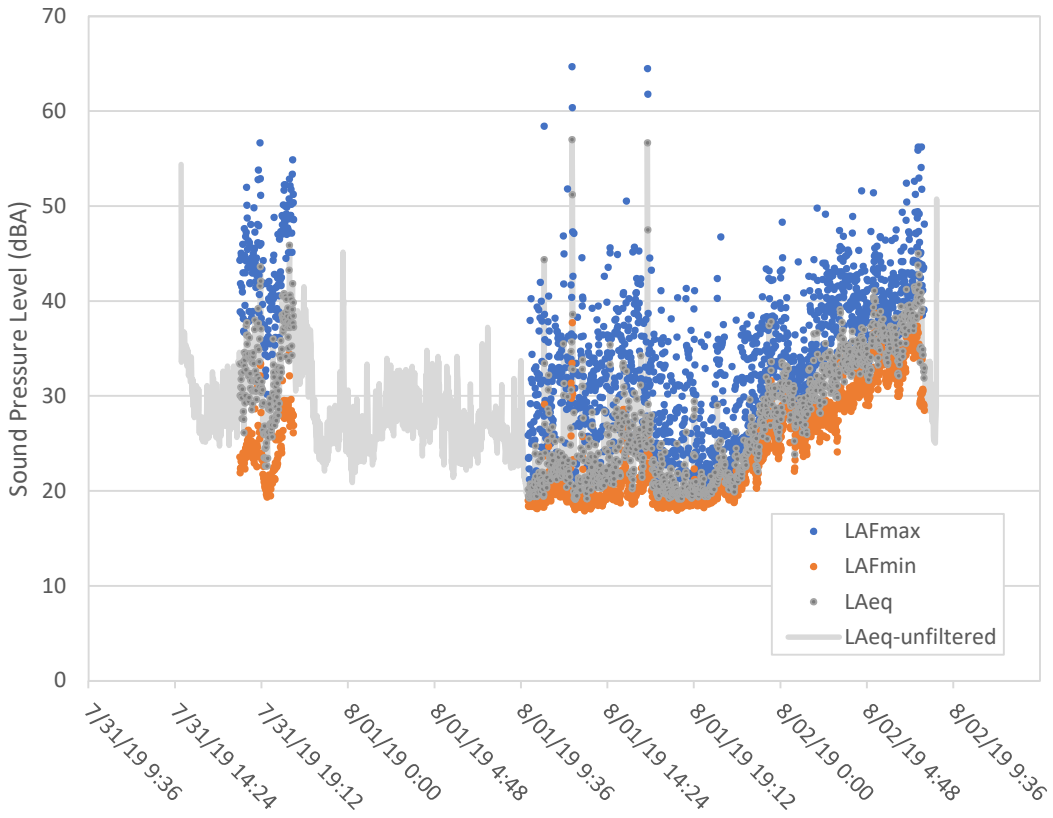


Figure 5. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R2 at the Meadowbank site during monitoring event 2. Filtered data excludes those measurements taken outside of optimal conditions (set-up, take-down, wind > 4.17 m/s, RH > 90%).

3.3 R3

One-minute filtered and unfiltered L_{eq} value, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) for the monitoring event at R3 are shown in Figures 6 and 7.

After filtering due to recorded weather conditions, 2 h and 40 h of valid data were available from the first and second monitoring event, respectively.

Final calculated daytime, night-time, and 24-h L_{eq} values for each monitoring event are provided in Section 4. L_{eq} values were not calculated for the first monitoring event, due to insufficient valid data.

Weather data and hourly L_{eq} values for both events are provided in Appendix C.

Audible noises previously noted in the field log at this location include mine traffic, air traffic, birds and waves. None were noted in 2019 (Appendix B).

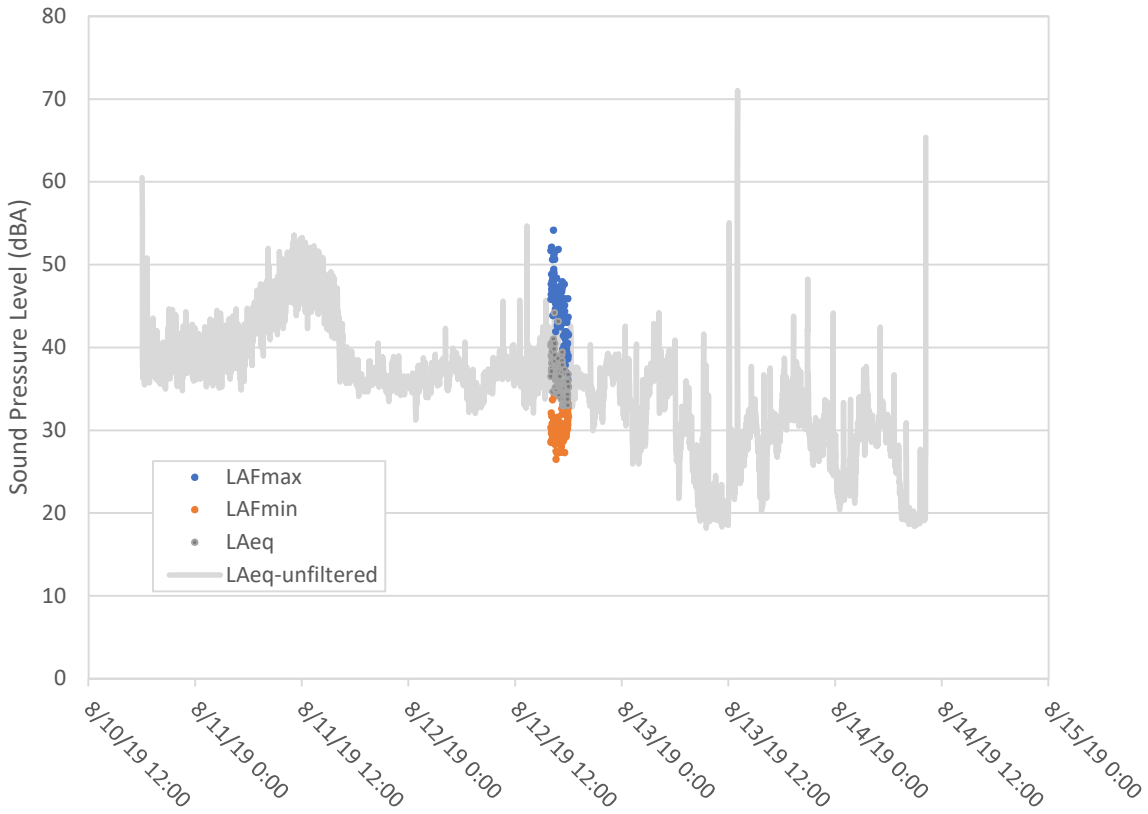


Figure 6. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R3 at the Meadowbank site during monitoring event 1. Filtered data excludes those measurements taken outside of optimal conditions (set-up, take-down, wind > 4.17 m/s, RH > 90%).

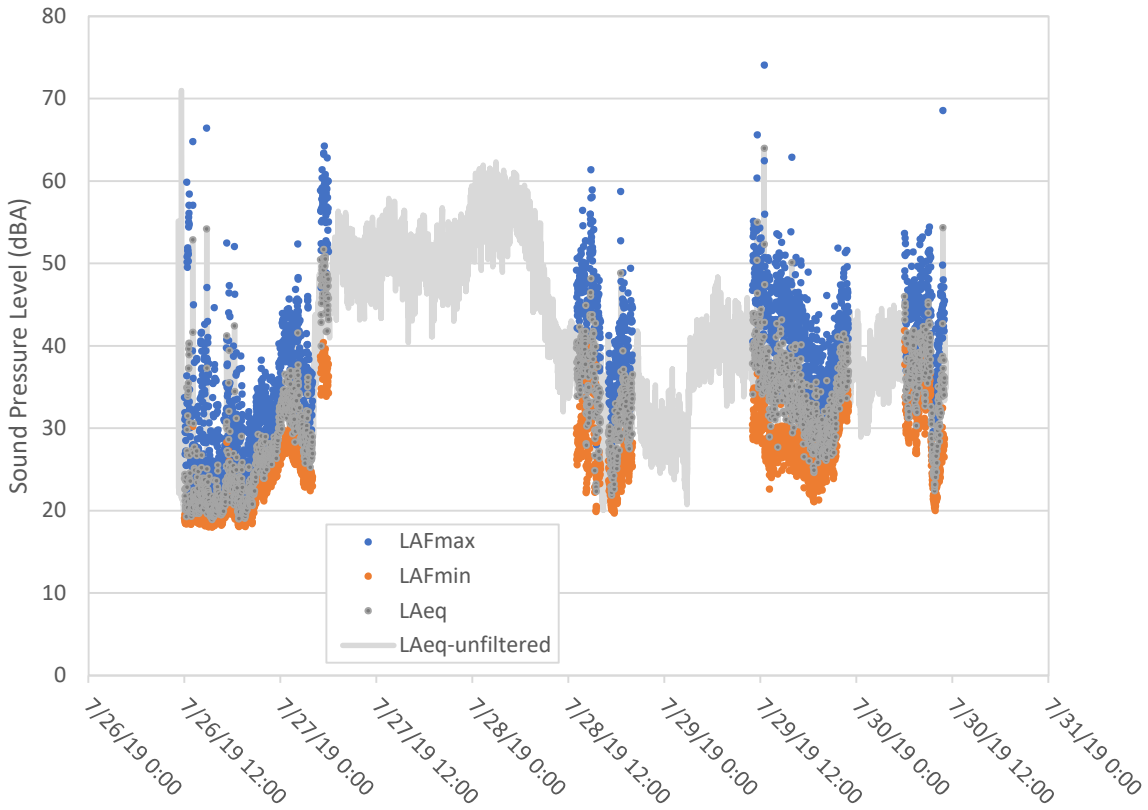


Figure 7. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R3 at the Meadowbank site during monitoring event 2. Filtered data excludes those measurements taken outside of optimal conditions (set-up, take-down, wind > 4.17 m/s, RH > 90%).

3.4 R4

One-minute filtered and unfiltered L_{eq} value, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) over the two monitoring events at R4 are shown in Figure 8 and 9.

Throughout the duration of both monitoring events, weather conditions were outside of acceptable ranges due to both high wind speeds and rain events. As a result, no daytime, night-time, or 24-h L_{eq} values were calculated.

Weather data and hourly L_{eq} values for both events are provided in Appendix C.

Noises noted previously in the field log include waves, mine traffic, and birds. None were noted in 2019 (Appendix B).

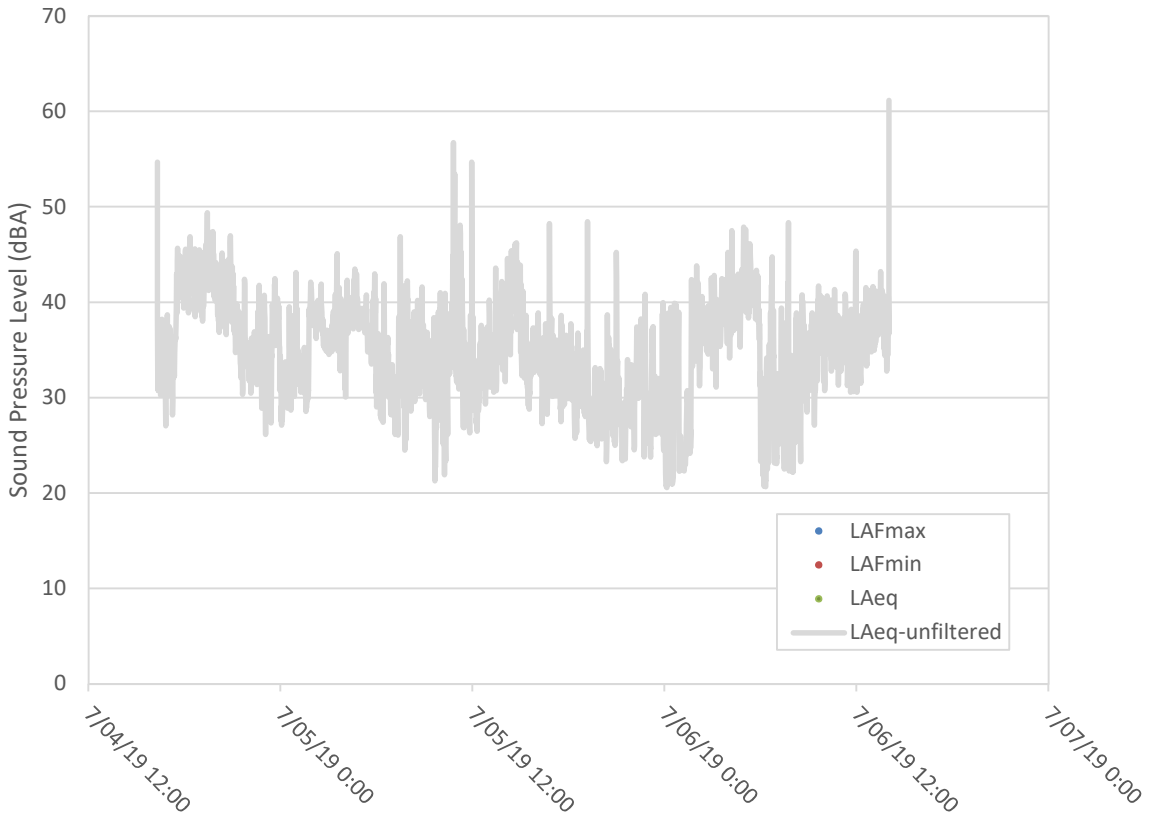


Figure 8. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R4 at the Meadowbank site during monitoring event 1. Filtered data excludes those measurements taken outside of optimal conditions (set-up, wind > 4.17 m/s, RH > 90%).

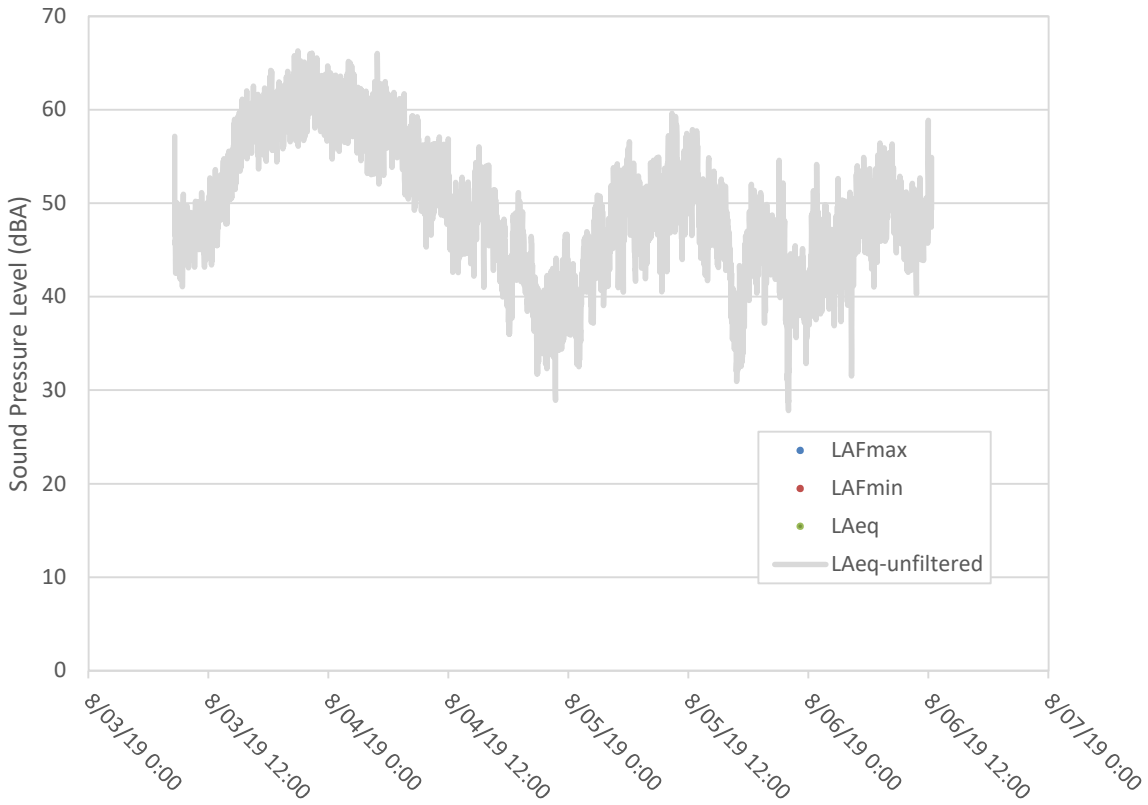


Figure 9. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R4 at the Meadowbank site during monitoring event 2. Filtered data excludes those measurements taken outside of optimal conditions (set-up, wind > 4.17 m/s, RH > 90%).

3.5 R5

One-minute filtered and unfiltered L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) over the two monitoring events at R5 are shown in Figures 10 and 11.

After filtering due to recorded weather conditions, 6 h and 32 h of valid data were available from the first and second monitoring event, respectively.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring events 1 and 2 are provided in Section 4. The 24-h and night-time L_{eq} were not calculated for event 1, because only 1 h of valid data was available from the night-time period.

Weather data and hourly L_{eq} values for both events are provided in Appendix C.

Audible noises noted in the field log previously at this location include road traffic, wind, and helicopter activities at the nearby former exploration camp. Exploration activities related to the Amaruq project between 2014 and 2017 resulted in higher helicopter traffic throughout the summer months, but since construction of the road to Amaruq was completed in 2018, and a helicopter pad was installed at the Meadowbank airstrip, there has been limited helicopter traffic around R5 since that time.

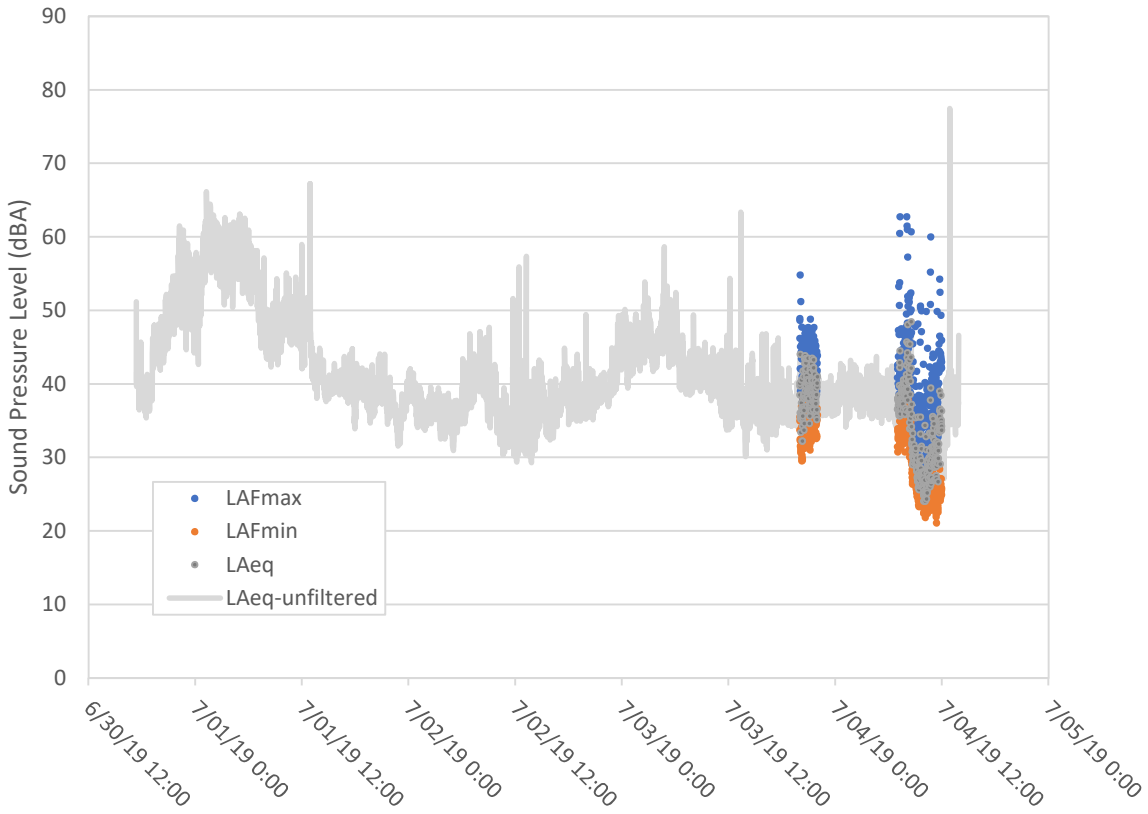


Figure 10. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R5 at the Meadowbank site during monitoring event 1. Filtered data excludes those measurements taken outside of optimal conditions (set-up, wind > 4.17 m/s, RH > 90%).

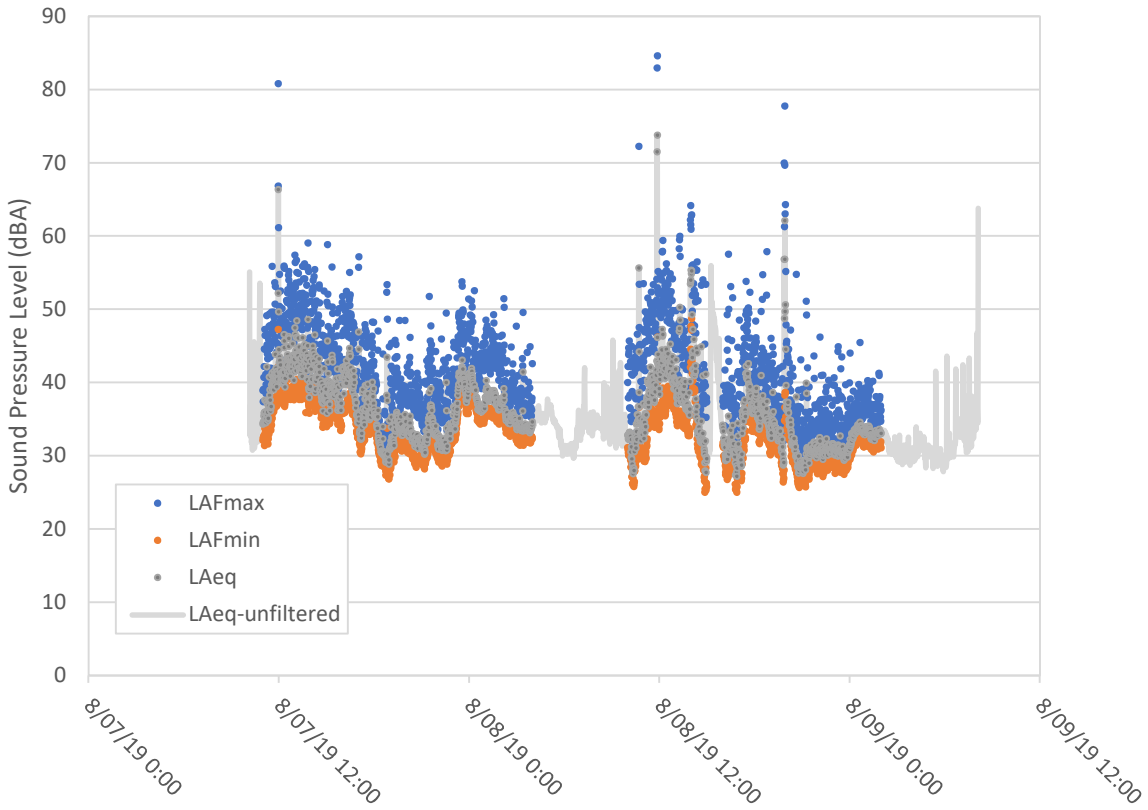


Figure 11. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R5 at the Meadowbank site during monitoring event 2. Filtered data excludes those measurements taken outside of optimal conditions (set-up, wind > 4.17 m/s, RH > 90%).

3.6 R6

One-minute filtered and unfiltered L_{eq} values, maximum sound levels (L_{max}), and minimum sound levels (L_{min}) over the two monitoring events at R6 are shown in Figures 12 and 13.

After filtering due to recorded weather conditions, 35 h and 15 h of valid data were available from the first and second monitoring event, respectively.

Final calculated daytime, night-time, and 24-h L_{eq} values for monitoring events 1 and 2 are provided in Section 4.

Weather data and hourly L_{eq} values for both events are provided in Appendix C.

Audible noises noted in the field log at this location include helicopters and wind (Appendix B).

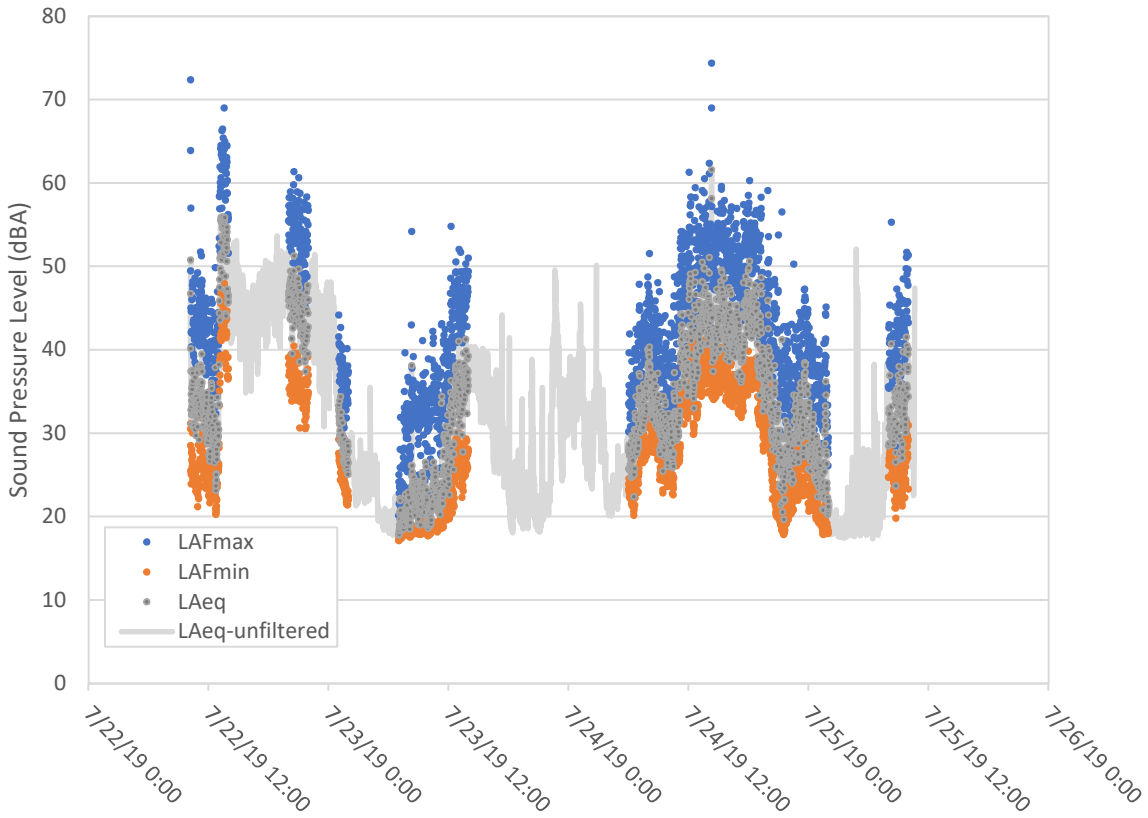


Figure 12. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R6 at the Meadowbank site during monitoring event 1. Filtered data excludes those measurements taken outside of optimal conditions (set-up, wind > 4.17 m/s, RH > 90%).

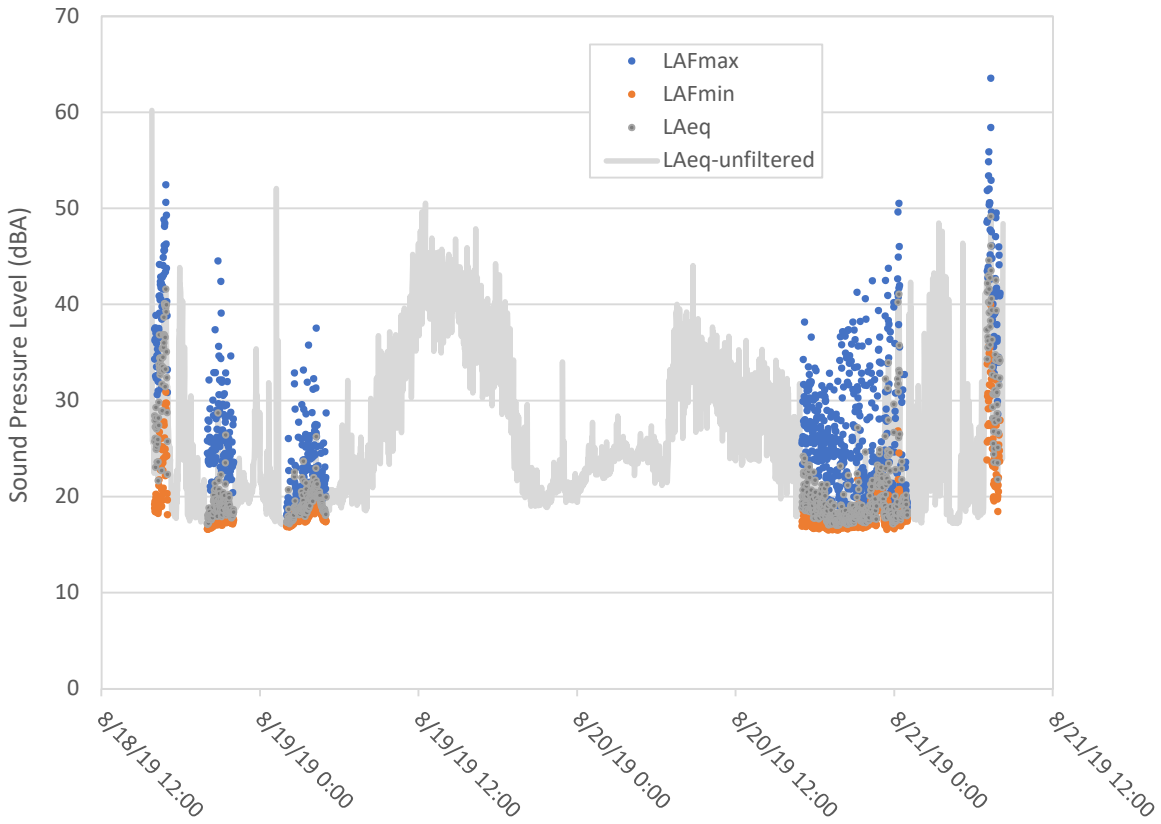


Figure 13. One-minute L_{eq}, L_{max} and L_{min} values recorded at monitoring station R6 at the Meadowbank site during monitoring event 2. Filtered data excludes those measurements taken outside of optimal conditions (set-up, wind > 4.17 m/s, RH > 90%).

3.7 R7 – R11

Monitoring was conducted for stations R7 – R11 around the Whale Tail site according to the dates identified in Table 4. However, due to an error in settings on the noise meter (identified after the field season), sound levels were not logged for the duration of these monitoring events. As a result, daytime, nighttime and 24-h L_{eq} values could not be calculated for these stations in 2019. Actions to ensure this type of error is more rapidly detected and remediated moving forward are identified in Section 6.

Photos for these stations are provided in Appendix A, and field logs for the 2019 monitoring events are provided in Appendix B. Noise sources identified in field logs for each station are as follows:

R7: helicopter, wind, traffic, wildlife

R8: wildlife, helicopter, possible quarry activity

R9: helicopter, wind, wildlife, blasts

R10: none

R11: traffic, wildlife, wind, helicopter

Table 4. UTM coordinates and monitoring dates for the Whale Tail noise monitoring locations. Due to an error in noise meter settings, sound levels were not logged for these stations during the 2019 monitoring events.

Monitoring Location	Easting	Northing	Start Time	Stop Time
R7	620194	7239038	7/29/19 14:10	7/31/19 8:15
			8/20/19 16:15	8/27/19 10:19
R8	610725	7256677	6/30/19 14:45	7/03/19 14:13
			8/07/19 8:20	8/08/19 15:45
R9	602488	7255946	7/26/19 14:55	07/28/2019
			8/12/2019 12:40	8/14/19 13:08
R10	609516	7254055	8/01/19 7:30	8/02/19 14:35
R11	608786	7257008	7/18/19 13:40	7/20/19 16:30
			7/21/19 15:13	7/24/19 9:54
			8/09/19 8:10	8/11/19 8:40

SECTION 4 • SUMMARY

4.1 DAYTIME, NIGHT-TIME, AND 24 H L_{EQ}

L_{eq} values were calculated for daytime (7am-11pm), night-time (11pm-7am), and 24 h time periods, as described in Section 2.4. These L_{eq} values and the total hours of filtered data available for the calculations are shown in Table 5. Alberta ERCB guidance (ERCB 2007) indicates that 3 hours of valid data are required to contribute to daytime and night-time averages, so time periods with a lower coverage are excluded ("-").

No exceedances of the target sound levels or FEIS 24-h predictions occurred. For station R5, the FEIS specified that each 1 h L_{eq} was predicted to be <57 dBA. In 2019, that prediction was exceeded for one of 32 monitoring hours during event 2, at 58 dBA. Review of sound recordings indicated that occurred due to an aircraft flyover, lasting 2.5 min at 11:51 am on August 8. 1-min L_{eq} values for the remainder of the hour were less than 44 dBA.

Table 5. Daytime, night-time, and 24-h L_{eq} values for monitoring locations R1 – R6, and hours of valid data (# hours). Day- and night-time periods with fewer than 3 hours of valid data are excluded (-). Noise levels for event 2 at R1, and both events at R7 – R11 were accidentally not logged in 2019 (NL). **For R5, one of 32 $L_{eq\text{-}1hr}$ values marginally exceeded the prediction, at 58 dBA, during event 2.

Site	Dates (2019)	FEIS Prediction	Measured Values		
		$L_{eq,\ 24h}$ (dBA)	$L_{eq,\ day}$ dBA *(Target = 55 dBA)*	$L_{eq,\ night}$ dBA *(Target = 45 dBA)*	$L_{eq,\ 24\ h}$ dBA
R1	06/24 – 06/28	58-63	48.6	44.6	47.6
	07/19 – 07/21		NL	NL	NL
R2	06/28 – 07/02	58-63	37.8	35.4	36.8
	07/31 – 08/02		34.2	33.9	34.1
R3	08/10 – 08/14	49-53	-	-	-
	07/26 – 07/30		38.0	40.5	38.9
R4	07/04 – 07/06	58-63	-	-	-
	08/03 – 08/06		-	-	-
R5	06/30 – 07/04	(1 h L_{eqs} < 57)**	36.8	-	-
	08/07 – 08/09		45.8	36.1	44.6
R6	07/22 – 07/26	45.97 – 50.33	42.7	30.4	41.8
	08/18 – 08/21		31.1	23.8	29.5
R7	07/29 – 07/31	45.14 – 50.04	NL	NL	NL
	08/20 – 08/27		NL	NL	NL
R8	06/30 – 07/03	40.41 – 45.14	NL	NL	NL
	08/07 – 08/08		NL	NL	NL
R9	07/26 – 07/28	36.19 – 40.41	NL	NL	NL
	08/12 – 08/14		NL	NL	NL
R10	08/01 – 08/02	45.14 – 50.04	NL	NL	NL
R11	07/18 – 07/20	45.14 – 50.04	NL	NL	NL
	07/21 – 07/24		NL	NL	NL
	08/09 – 08/11		NL	NL	NL

4.2 HISTORICAL COMPARISON

Historical 24-h L_{eq} measurements (2009 – 2019) for monitoring stations R1 – R5 are shown in Figure 14 in relation to FEIS predictions. A historical comparison will begin for R6 – R11 after two years of monitoring have occurred at those stations.

No clear trends towards increasing noise levels are evident. For all sites except one instance at R4 in 2018, measured 24-h L_{eq} values have remained below predicted noise levels.

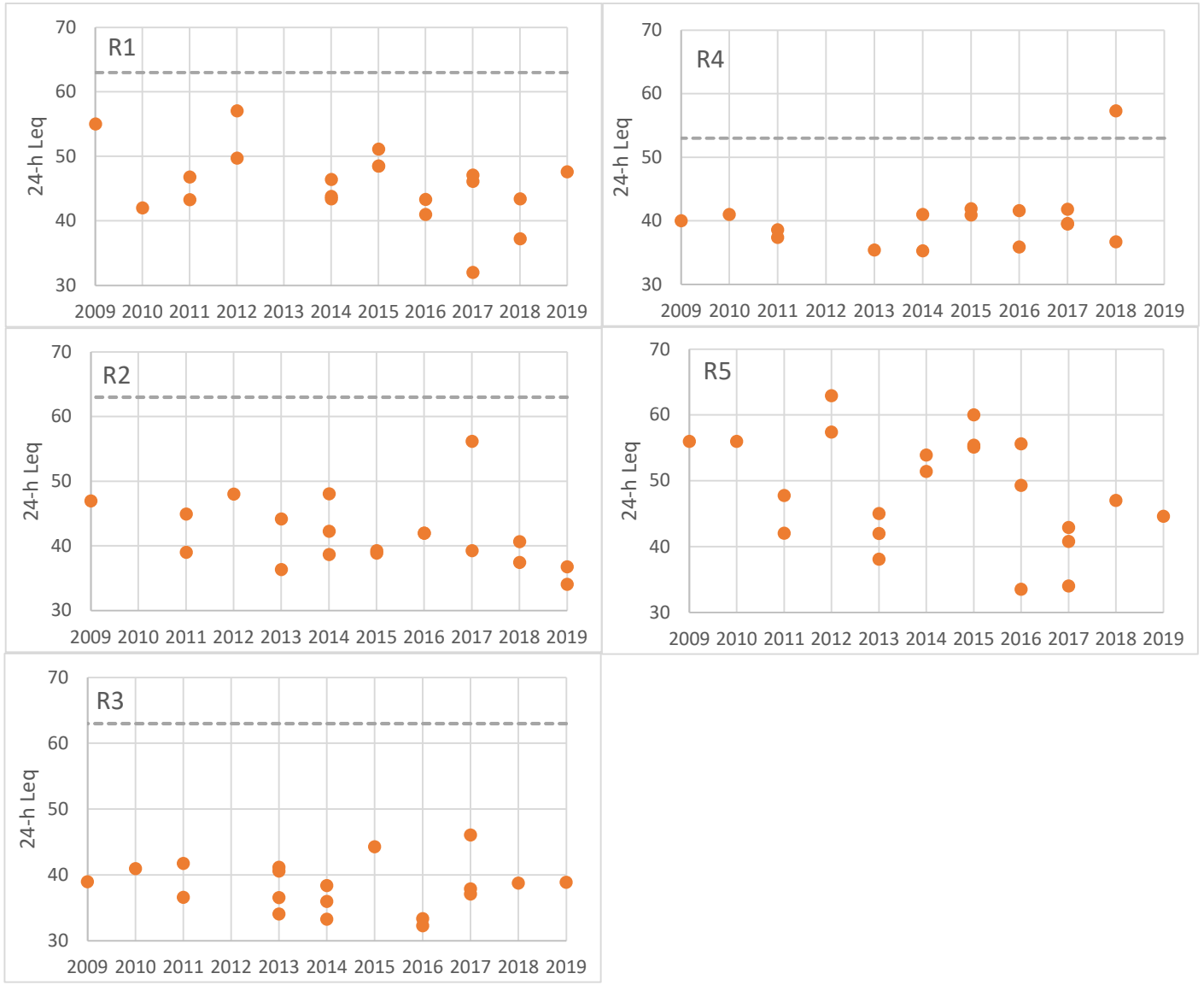


Figure 14. Historical 24-h L_{eq} values for monitoring stations R1, R2, R3, R4, and R5 at the Meadowbank site. Dashed line indicates the maximum FEIS prediction for each station, if available.

SECTION 5 • CONCLUSION

The objective of the noise monitoring program at Meadowbank is to measure noise levels at 11 previously determined monitoring locations over at least two 24 h periods. Each year, Agnico Eagle aims to conduct a minimum of two monitoring rounds of two to four days per station, since high winds in the area tend to substantially reduce the quantity of available valid data. In 2019, one or two monitoring events were successfully completed for stations R1 – R6. While noise monitoring was conducted for R7 – R11, sound pressure levels were not logged during those events due to an error in the noise meter settings, so data evaluation was not possible for those stations this year.

Following removal of datapoints obtained under sub-optimal weather conditions, one or two valid measurements were available for each Health Canada monitoring period (daytime, night-time, 24 h) for stations R1, R2, R3, R5 and R6. Despite 124 h of monitoring over two events (early July and early August), all data for R4 was required to be filtered out due to unacceptable weather conditions, so daytime, nighttime, and 24-h L_{eq} values could not be calculated for that station.

No exceedances of the target sound levels or FEIS 24-h predictions occurred. For station R5, the FEIS specified that each 1 h L_{eq} was predicted to be <57 dBA. In 2019, that prediction was exceeded for one of 32 monitoring hours during event 2, at 58 dBA. Review of sound recordings indicated the exceedance occurred due to an aircraft flyover, lasting 2.5 min at 11:51 am on August 8. 1-min L_{eq} values for the remainder of the hour were less than 44 dBA.

Review of historical monitoring results (2009 – 2019) for each site (R1 – R5) was conducted to determine any trends towards increasing average sound levels around the minesite. No clear trends were observed.

Overall, target sound levels and FEIS impact predictions are rarely exceeded site-wide, during the summertime noise monitoring periods. Elevated wind speeds and snow cover preclude monitoring during the rest of the year, but measurements recorded in July and August are expected to represent the highest noise levels occurring onsite, since general traffic activity is greatest during this period.

Based on these results, no changes to noise abatement or mitigation are proposed at this time.

Impacts of sensory disturbance on wildlife are determined through the Terrestrial Ecosystem Monitoring Plan (TEMP), and reported annually in the Wildlife Summary Report. While sensory disturbance of caribou in excess of impact predictions was identified in that report in 2018, the contribution of noise to sensory disturbance cannot realistically be isolated. However, supplemental wildlife monitoring under the recently updated TEMP (December, 2018) specifically aimed to quantify the response of caribou to blasts in 2019.

SECTION 6 • ACTIONS

No specific actions for supplemental adaptive monitoring or management were planned for 2019.

The following actions are planned for 2020:

- Noise equipment re-training for environment technicians, as necessary, to ensure complete data collection at all monitoring stations.
- Review of noise data immediately following initial monitoring events (early in the season) to ensure no logging errors occurred and sufficient valid data was collected.

SECTION 7 • REFERENCES

AEM, 2013. Noise Monitoring and Abatement Plan, Meadowbank Gold Project. Version 2. Prepared by Agnico Eagle Mines Ltd. January, 2014.

AEM, 2009. Noise Management and Abatement Plan. Meadowbank Gold Project. Version 1. Prepared by Agnico Eagle Mines Ltd. September, 2009.

Cumberland, 2006. Terrestrial Ecosystem Management Plan. Meadowbank Gold Project. Cumberland Resources Ltd. December, 2006.

Cumberland, 2005. Access and Air Traffic Management Plan. Meadowbank Gold Project. Cumberland Resources Ltd. October, 2005.

ERCB, 2007. Noise Control Directive 038. Alberta Energy Resources Conservation Board. Calgary, Alberta.

Golder Associates (Golder), 2012. 2011 Noise Monitoring, Meadowbank Division, Nunavut. Prepared for Agnico-Eagle Mines Ltd. February, 2012.

APPENDIX A

Site Photos

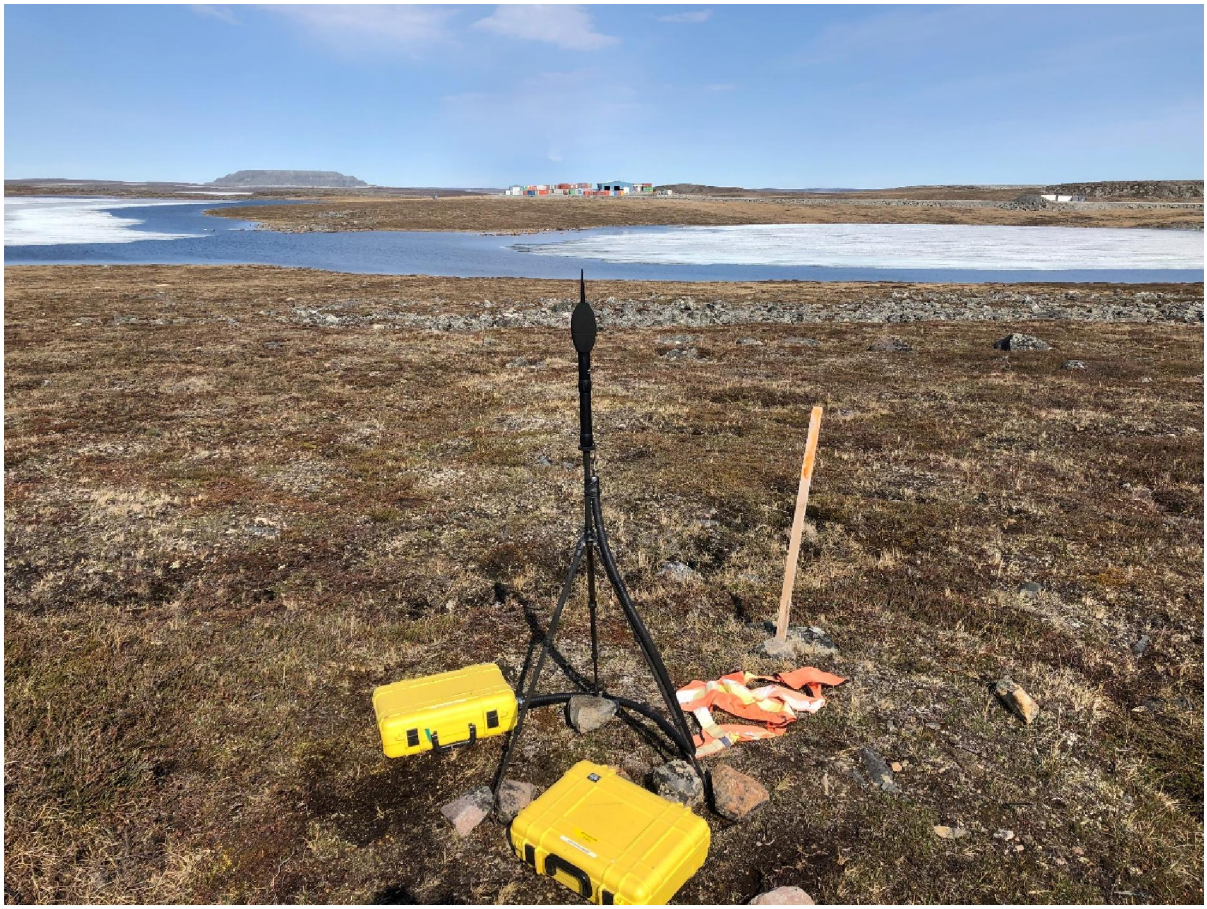


Figure -Apx 1: Monitoring location R1 (June 24, 2019).

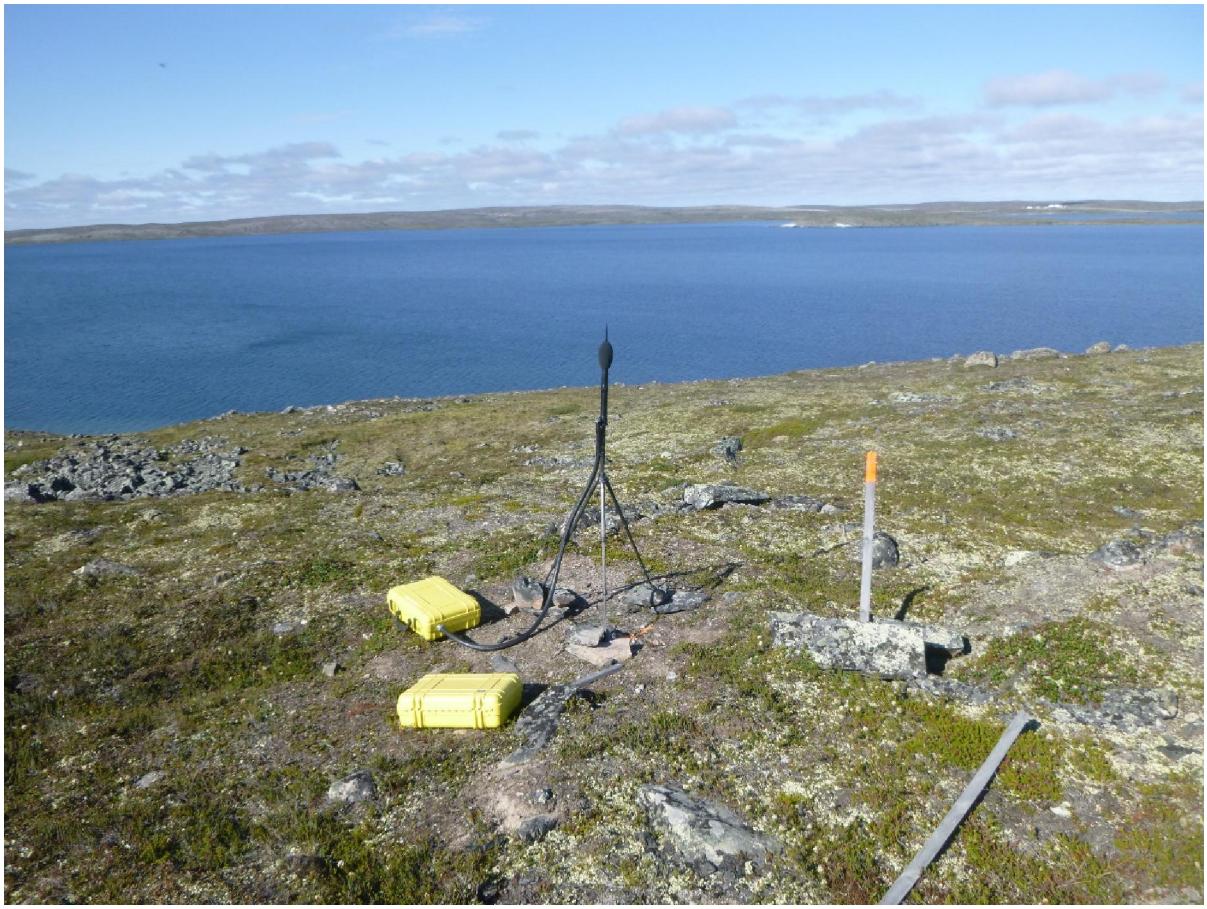


Figure -Apx 2: Monitoring location R2 (July 21, 2018).

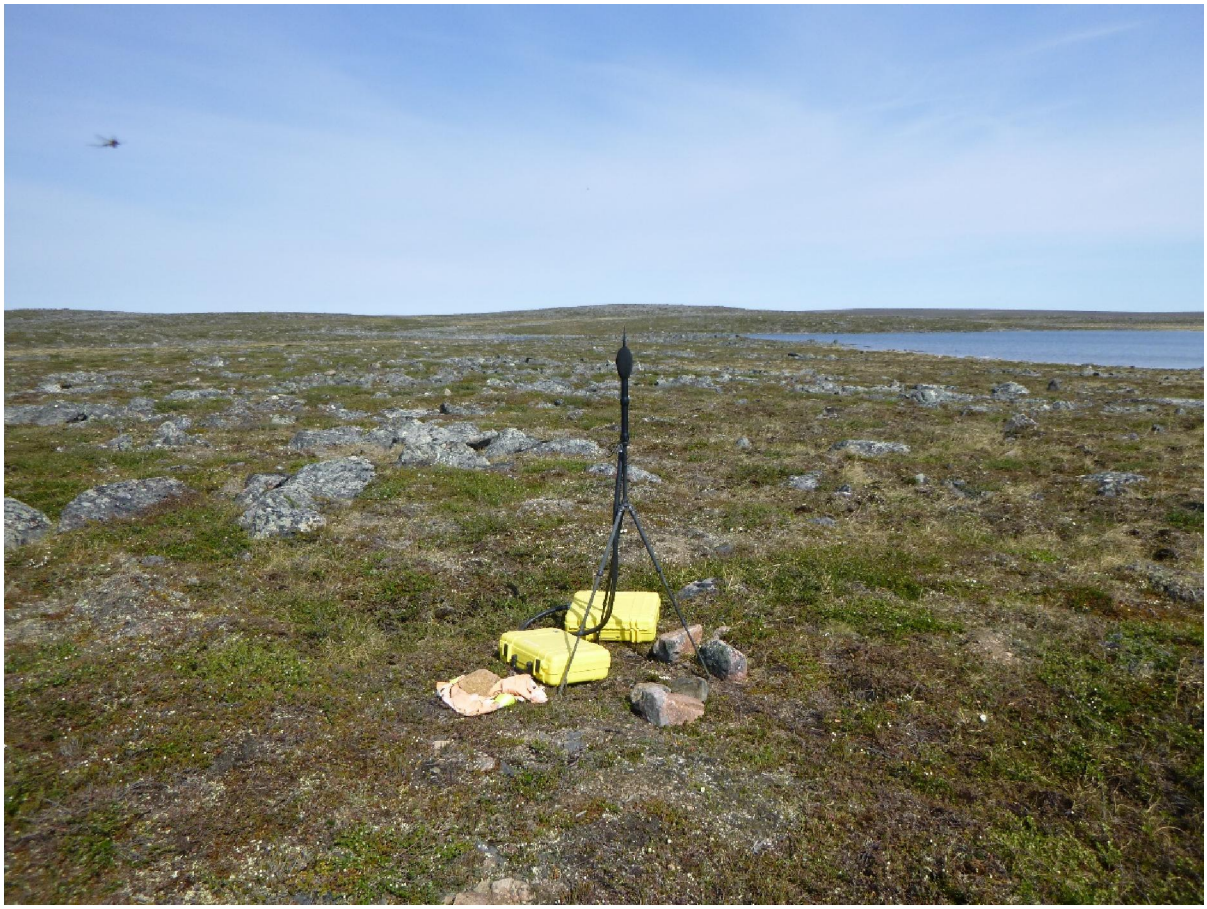


Figure -Apx 3: Monitoring location R3 (July 9, 2018).

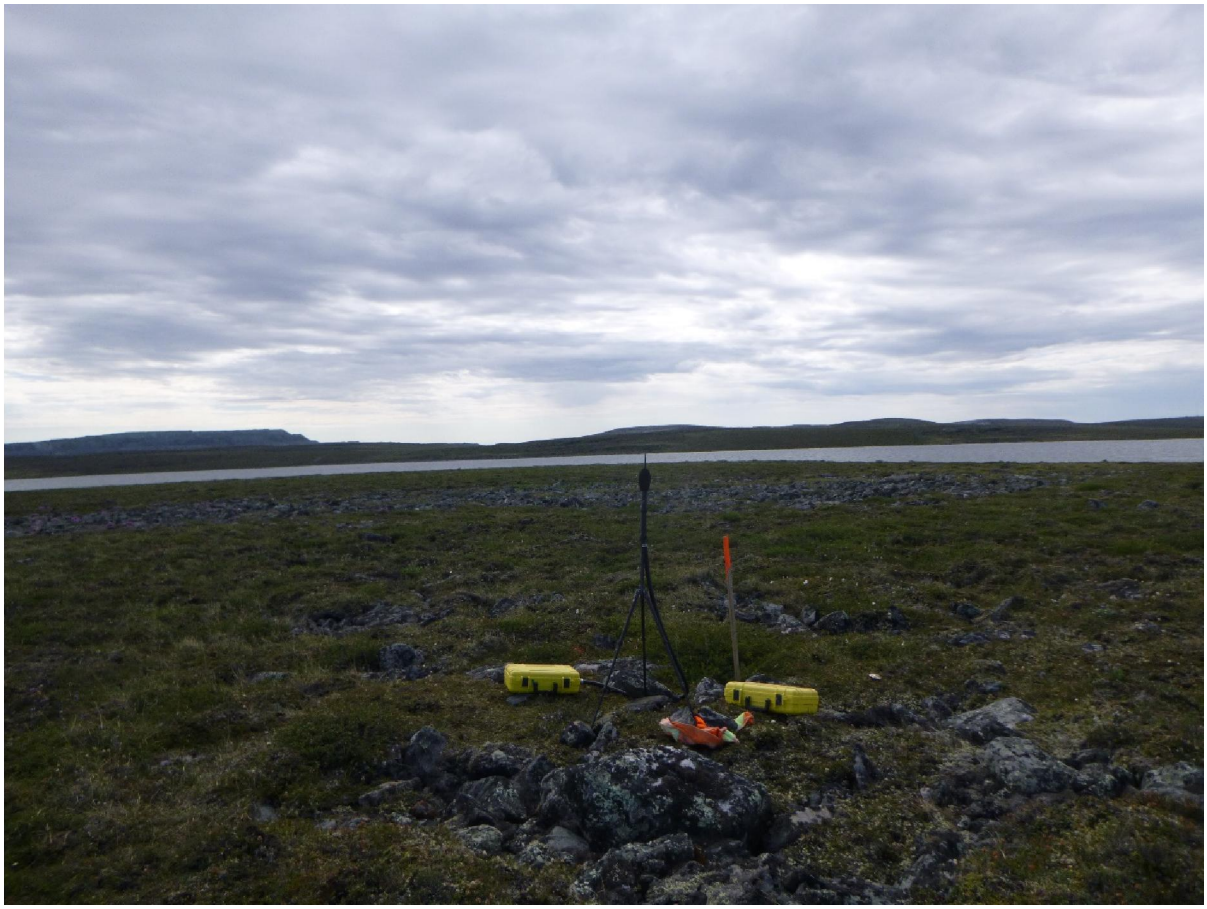


Figure -Apx 4: Monitoring location R4 (July 25, 2018).

Figure -Apx 5: Monitoring location R5 (July 16, 2018).

Figure Apx 6: Monitoring location R6 (July 25, 2019).

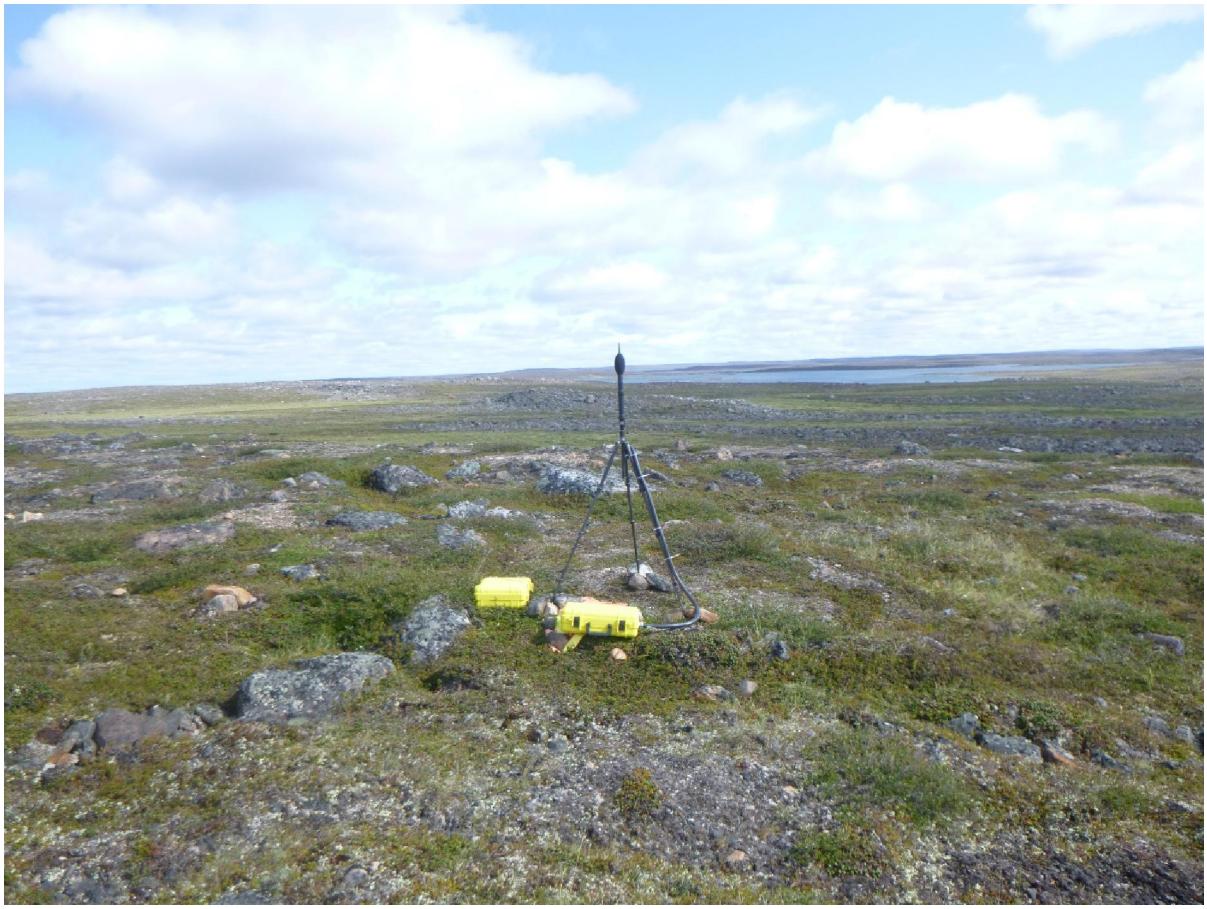


Figure -Apx 7: Monitoring location R7 (July 29, 2019).

Figure -Apx 8: Monitoring location R8 (June 30, 2019).

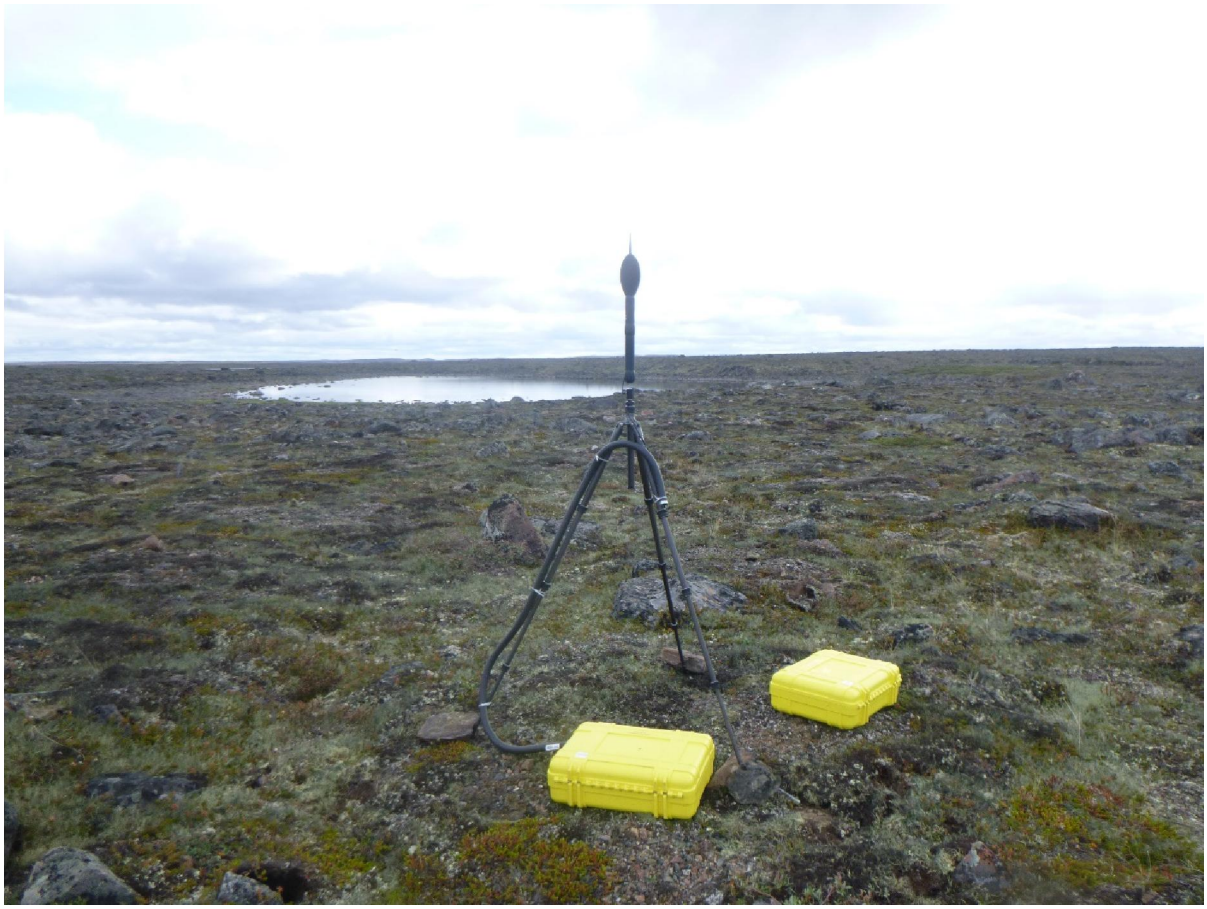


Figure Apx 9: Monitoring Location R9 (July 26, 2019).

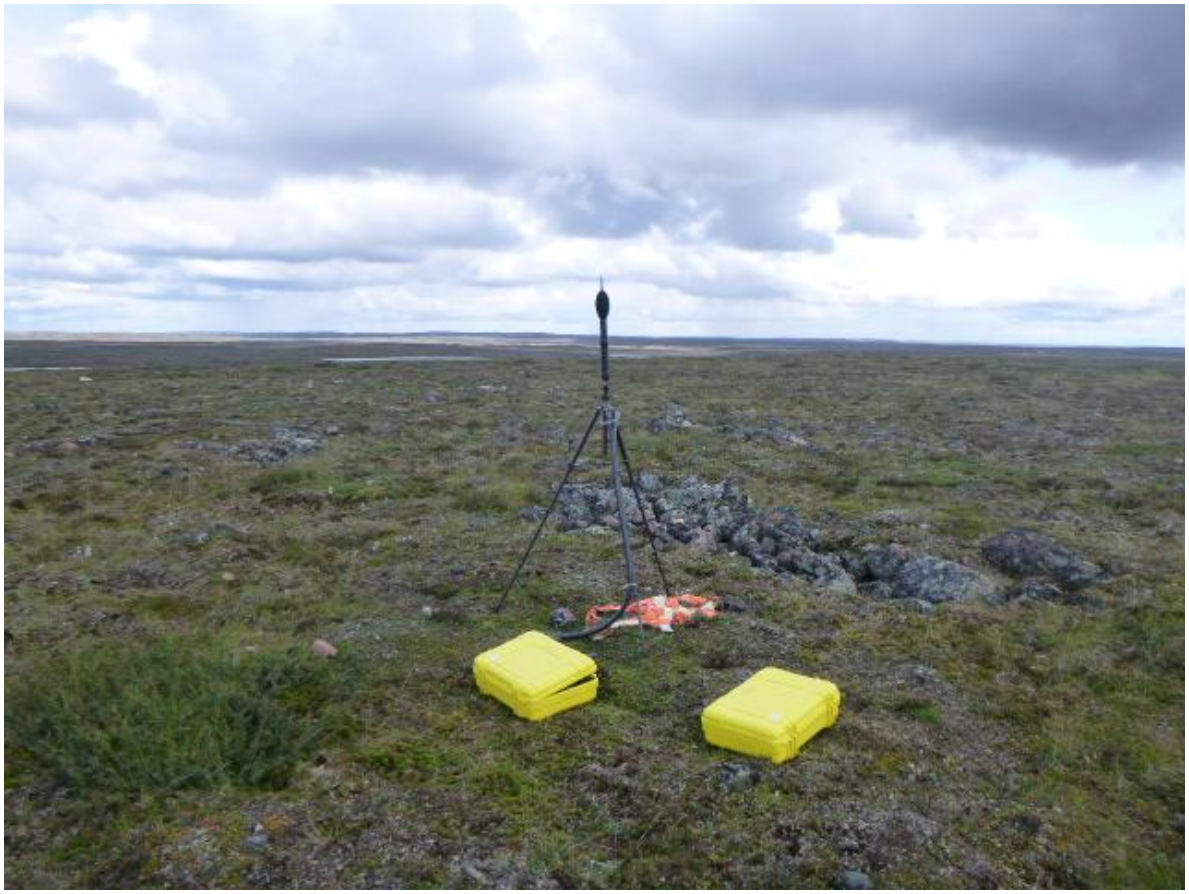


Figure Apx 10: Monitoring location R10 (August 15, 2019).

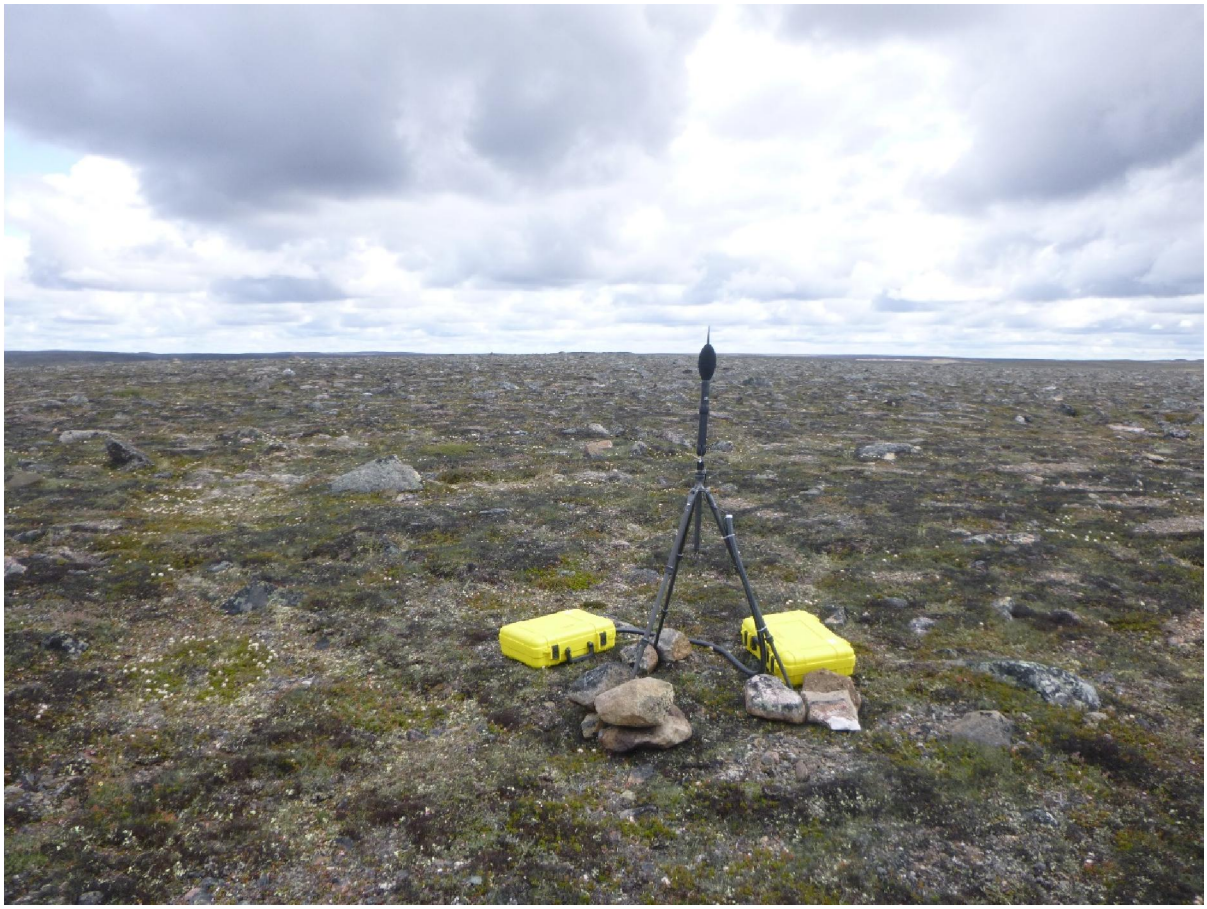


Figure Apx 11: Monitoring location R11 (July 18, 2019).

APPENDIX B

Field Logs

MONITORING STARTS

Operator: Laurence Archambault	Location: EMR
Date: 2019-07-19	Noise Meter Start Time: 8:00
Calibration complete ?: Yes	Sensitivity: 46.75 mV/Pa
Deviation: 0.13	Time of Calibration: 7h
Battery Power Check: Yes	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) N	Photographs of Surrounding (Y/N) N

Cloud cover: (cloudy) partly cloudy sunny

Height of cloud (feet): (0-10,000) 10,000-25,000 25,000 +

Air Temperature (C): 7.7 | Wind Speed (km/hr): 3.1 m/s

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa): | Relative Humidity (%) 82.4

Precipitation: none (drizzle) rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	14W 0636150	7217334	

Type of Ground Surface: Tundra

Acoustic Environment:

(Traffic)
Human activities
(Animal)
(Other noise sources)

MONITORING ENDS

Operator: Laurence Archambault	Total Monitoring Period 54 hrs
Date: 2019-07-21	Noise Meter End Time: 13h46
Calibration complete ?: Yes	Sensitivity: 47.60
Derviation 0.16	Time of Calibration: 14.44

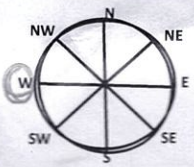
Cloud cover: cloudy (partly cloudy) (sunny)

Height of cloud (feet): 0-10,000 10,000-25,000 (25,000 +)

Air Temperature (C): 17.4 | Wind Speed (km/hr): 3.1

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa): 101.6 | Relative Humidity (%) 46.2

Precipitation: (none) drizzle rain

Comments:

MONITORING STARTS

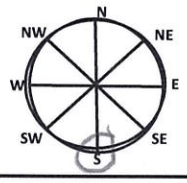
Operator: N. Saucier	Location: R-1
Date: 2019-06-24	Noise Meter Start Time: 16:30
Calibration complete ?: yes	Sensitivity: 45,41
Deviation: 0,02 dB	Time of Calibration: 16:02
Battery Power Check: V	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	(partly cloudy)	(sunny)
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 13,4	Wind Speed (km/hr): 3,2 m/s

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 21,1

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	14W 0636150	7217334	

Type of Ground Surface:

Acoustic Environment:

- (Traffic)
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

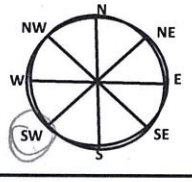
Operator: MBA NS EF	Total Monitoring Period
Date: 2019-06-28	Noise Meter End Time: 14:13
Calibration complete ?: Yes	Sensitivity: 45,39
Derviation 0,00	Time of Calibration: 14:20

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 8,0	Wind Speed (km/hr): 2,4 m/s

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 37,7

Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

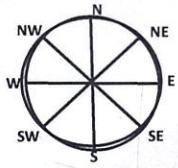
Operator: SM MBA	Location: R2
Date: 2019/07/31	Noise Meter Start Time: ~~1357~~ 1451
Calibration complete ?: Yes	Sensitivity: 47.7
Deviation: 0.08	Time of Calibration: ~~1357~~ 1451
Battery Power Check: Yes	Check available disk memory (Y/N)
Photographs of Setup (Y/N)	Photographs of Surrounding (Y/N)

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 13.1°C	Wind Speed (km/hr): 1.3

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 65.7

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location			

Type of Ground Surface:

Acoustic Environment:

- Traffic
- Human activities
- Animal
- Other noise sources → Mosquitoes

MONITORING ENDS

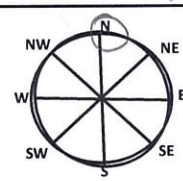
Operator: SM IT	Total Monitoring Period 44h
Date: 2019/08/02	Noise Meter End Time: 0946
Calibration complete ?: Yes	Sensitivity: 52.57
Derviation 0.13	Time of Calibration: 1022

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 13.7	Wind Speed (km/hr): 3.3

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 66.3

Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

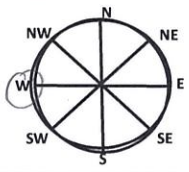
Operator: NS MBA EF	Location: Fresh water barge
Date: 2019 - 06 - 28	Noise Meter Start Time:
Calibration complete ?: Y	Sensitivity: 45,20
Deviation: -0,04	Time of Calibration: 15:07
Battery Power Check: Y	Check available disk memory (Y/N)
Photographs of Setup (Y/N) N	Photographs of Surrounding (Y/N) N

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 24,0	Wind Speed (km/hr): MAX 2,7 m/s AVG 0,3 m/s

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 31,5

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	14 W 0636795	7214435	

Type of Ground Surface:

Acoustic Environment:

- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

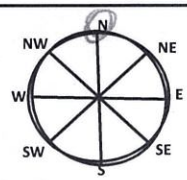
Operator: MBA	Total Monitoring Period
Date: 2019-06-30	Noise Meter End Time: 12:49
Calibration complete ?: Y	Sensitivity: 46,B
Derviation 0,18	Time of Calibration: 12:50

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 4,0	Wind Speed (km/hr): 1,6 AVG MAX 3,9 m/s

Wind Direction:

North wind (wind blows from North)



3,9 MAX AVG 1,6 m/s

Barometric Pressure (kPa):	Relative Humidity (%) 10,6

Precipitation:	none	(drizzle)	rain

Comments:

MONITORING STARTS

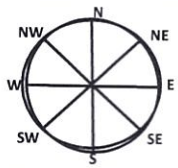
Operator: NS SM	Location: B3
Date: 2019-07-26	Noise Meter Start Time: 1050
Calibration complete ?: Yes	Sensitivity: 47.74
Deviation: -0.06	Time of Calibration: 1050
Battery Power Check: Yes	Check available disk memory (Y/N)
Photographs of Setup (Y/N) Yes	Photographs of Surrounding (Y/N) Yes.

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 8.0°C	Wind Speed (km/hr): 3.4

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 75.3

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude

Type of Ground Surface:

Acoustic Environment:

- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

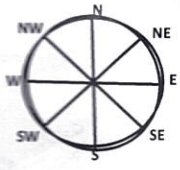
Operator: NS MBA SM	Total Monitoring Period 52h03
Date: 2019/07/30	Noise Meter End Time: 1453
Calibration complete ?: Yes	Sensitivity: 47.28
Derviation -0.08	Time of Calibration: 1453

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(0,000-25,000)	25,000 +

Air Temperature (C): 19.1	Wind Speed (km/hr): 14.5

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 48.1

Precipitation:	(none)	drizzle	rain

MONITORING STARTS

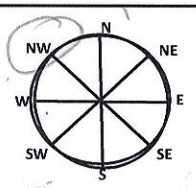
Operator: IT / EF	Location: R3
Date: 10 August 2019	Noise Meter Start Time: 18:00
Calibration complete ?: Y	Sensitivity: 52.56
Deviation: 0.01 dB	Time of Calibration: 5:40
Battery Power Check: AT THE OFFICE 100%	Check available disk memory (Y/N) At the office 96%
Photographs of Setup (Y/N) N	Photographs of Surrounding (Y/N) N

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 12.1°C	Wind Speed (km/hr):

Wind Direction:

North wind (wind blows from North)



AV 18.6
MAX: 23.7

Barometric Pressure (kPa): 79.7	Relative Humidity (%) 78.3

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	0641111	7214423	135m

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

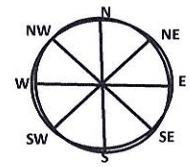
Operator: Isabelle Tétrault / DM	(Total Monitoring Period) 88:10
Date: ~~18~~ August 2019, 14th	Noise Meter End Time: 10:10
Calibration complete ?: ~~53.81~~ Y	Sensitivity: 53.81
Derviation 0.20	Time of Calibration: 10.20

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 11.1	Wind Speed (km/hr):

Wind Direction:

North wind (wind blows from North)



AV: 4.6
MAX: 7.8

Barometric Pressure (kPa): 1.213	Relative Humidity (%) 97.3

Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

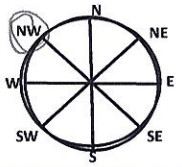
Operator: MBA	Location: VAULT
Date: 2019-07-04	Noise Meter Start Time: 16:05
Calibration complete ?: Y	Sensitivity: 45.96
Deviation: 0.02	Time of Calibration: 14:56
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) N	Photographs of Surrounding (Y/N) N

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 22.0	Wind Speed (km/hr):

Wind Direction:

North wind (wind blows from North)



MAX 5.3
AVG 1.5

Barometric Pressure (kPa):	Relative Humidity (%) 43.0

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location			

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

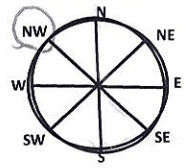
Operator: JK/FH/SM	Total Monitoring Period 46 hrs
Date: 2019-07-06	Noise Meter End Time: 14:06
Calibration complete ?: Yes	Sensitivity: 46.06
Derviation 0.02	Time of Calibration: 14:02

Cloud cover:	cloudy	(partly cloudy)	(sunny)
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 17.2	Wind Speed (km/hr):

Wind Direction:

North wind (wind blows from North)



Max: 4.9
avg: 3.6

Barometric Pressure (kPa):	Relative Humidity (%) 67.7

Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

Operator: MBA FH	Location: RY vAULT
Date: 2019-08-03	Noise Meter Start Time: 8:35
Calibration complete ?: Y	Sensitivity: 53,07
Deviation: 0.09	Time of Calibration: 8:30
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) N	Photographs of Surrounding (Y/N) N

Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 13.0	Wind Speed (km/hr):

Wind Direction:

North wind (wind blows from North)

MAX 18.5
AVG 11.6

Barometric Pressure (kPa):	Relative Humidity (%) 69,3

Precipitation:	none	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: IT/FH	Total Monitoring Period
Date: 2019-08-06	Noise Meter End Time: 12:06 pm
Calibration complete ?:	Sensitivity:
Derviation	Time of Calibration: 12:02 ?

Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 14.4	Wind Speed (km/hr):

Wind Direction:

North wind (wind blows from North)

North East

MAX 19.5
AVG: 14

Barometric Pressure (kPa):	Relative Humidity (%) 77.7

Precipitation:	none	drizzle	rain

Comments:

MONITORING STARTS

Operator: MBA	Location: RS
Date: 2018-06-30	Noise Meter Start Time: 17:30
Calibration complete ?: Y	Sensitivity: 45,59
Deviation: -0.10	Time of Calibration: 17:15
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 9,1 C°	Wind Speed (km/hr): MAX 4,9 m/s AVG 1,8

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa):	Relative Humidity (%) 80,0

Precipitation:	none	(drizzle)	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: MBA JK	Total Monitoring Period ~4 DAYS
Date: 2018-07-04	Noise Meter End Time: 13:52
Calibration complete ?: YES	Sensitivity: 93,85
Derviation 0,05	Time of Calibration: 13:58

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 20,6	Wind Speed (km/hr): MAX 7,8 AVG 3,4

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa):	Relative Humidity (%) 41,7

Precipitation:	(none)	drizzle	rain

Comments: RAINED From 07/01 to 07/03

MONITORING STARTS

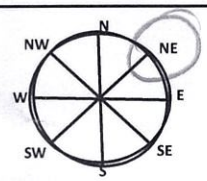
Operator: IT · MBA		Location: RS	
Date: 2019-08-07		Noise Meter Start Time:	
Calibration complete ?: Yes		Sensitivity: 52,51	
Deviation: -0,09		Time of Calibration: 10:00	
Battery Power Check:		Check available disk memory (Y/N) Y	
Photographs of Setup (Y/N) N		Photographs of Surrounding (Y/N) N	
Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)
Air Temperature (C): 13.3		Wind Speed (km/hr):	
Wind Direction: North wind (wind blows from North)			AVG 7,7 MAX 11,2
Barometric Pressure (kPa):		Relative Humidity (%) 72	
Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location			

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: IT / FH		Total Monitoring Period ≈ 48 hres	
Date: 2019-08-09		Noise Meter End Time: 8	
Calibration complete ?: Yes		Sensitivity: 52.54	
Derviation 0.01 DB		Time of Calibration: 9:03	
Cloud cover: Overcast	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +
Air Temperature (C): 10.6		Wind Speed (km/hr):	
Wind Direction: North wind (wind blows from North)			AV : 9.2 MAX: 12.9
Barometric Pressure (kPa):		Relative Humidity (%) 84	
Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

Operator: Fanny Lapointe Joe Angotingoar	Location: R6
Date: 2019-07-22	Noise Meter Start Time: 10 H 10
Calibration complete ?: Yes	Sensitivity: 47.48 mV/Pa
Deviation: -0.02db	Time of Calibration: 9:29
Battery Power Check: Yes	Check available disk memory (Y/N) Yes
Photographs of Setup (Y/N) Yes	Photographs of Surrounding (Y/N) Yes

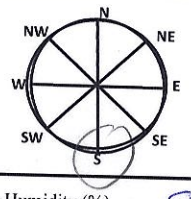
Cloud cover: cloudy / partly cloudy / (sunny)

Height of cloud (feet): 0-10,000 / 10,000-25,000 / (25,000 +)

Air Temperature (C): 20,2	Wind Speed (km/hr): 8.3 km/H

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa): 101.4	Relative Humidity (%) ~~87%~~ 70,5

Precipitation: (none) / drizzle / rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	14W 0640708	2221964	135M

Type of Ground Surface:

Acoustic Environment:

- Traffic
- Human activities
- Animal ✓
- Other noise sources Helicopter ? WIND.

MONITORING ENDS

Operator: NS MG	Total Monitoring Period 72:27
Date: 2019-07-25	Noise Meter End Time: 10:37
Calibration complete ?: yes	Sensitivity: 48,05
Derviation 0,10	Time of Calibration: 10:43

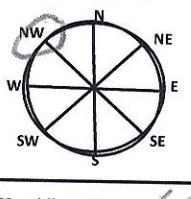
Cloud cover: cloudy / (partly cloudy) / sunny

Height of cloud (feet): (0-10,000) / 10,000-25,000 / 25,000 +

Air Temperature (C): 5,2	Wind Speed (km/hr): 7,8 Km/h

Wind Direction:

North wind (wind blows from North)

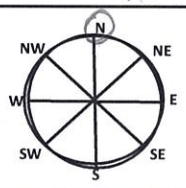


Barometric Pressure (kPa):	Relative Humidity (%) 68,3

Precipitation: (none) / drizzle / rain

Comments:

MONITORING STARTS

Operator: Laurence Archambault		Location: R6	
Date: 2019-08-16		Noise Meter Start Time:	
Calibration complete ?: Yes		Sensitivity: 52	
Deviation: -0.30		Time of Calibration: 15h34	
Battery Power Check: Yes		Check available disk memory (Y/N)	
Photographs of Setup (Y/N)		Photographs of Surrounding (Y/N)	
Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C): 20,7		Wind Speed (km/hr): 13	
Wind Direction: North wind (wind blows from North)			
Barometric Pressure (kPa):		Relative Humidity (%) 50	
Precipitation:	none	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude

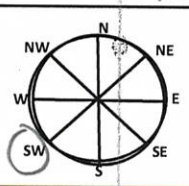
Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: Cédric Parent and Joe A.		Total Monitoring Period 8:23	
Date: 21/08/2019		Noise Meter End Time: 8:10	
Calibration complete ?: Y		Sensitivity: 53.16	
Derviation 0.19		Time of Calibration: 9:32	
Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C): 12.1		Wind Speed (km/hr): 10.6	
Wind Direction: North - East North wind (wind blows from North)			
Barometric Pressure (kPa):		Relative Humidity (%) 57.4	
Precipitation:	none	drizzle	rain

Comments:

MONITORING STARTS

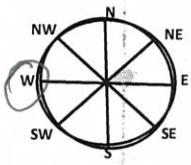
Operator: Louis Dubois		Location: A7	
Date: 2019-07-29		Noise Meter Start Time: 14:10	
Calibration complete ?: Yes		Sensitivity: 0.05	
Deviation: - 0.07		Time of Calibration: 14:00	
Battery Power Check: ✓		Check available disk memory (Y/N)	
Photographs of Setup (Y/N) Y		Photographs of Surrounding (Y/N) Y	
Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C): 12°C		Wind Speed (km/hr): 10,2	
Wind Direction: South West North wind (wind blows from North)			
Barometric Pressure (kPa):		Relative Humidity (%) 58,9	
Precipitation:	none	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	65°15'8.68" N	96°25'34.71" W	135 m

Type of Ground Surface: Tundra
Acoustic Environment:
- Traffic
- Human activities
- Animal ✓
- Other noise sources: Helicopter

MONITORING ENDS

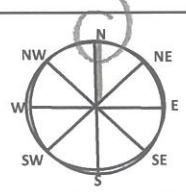
Operator: LD - MA		Total Monitoring Period 1.18:14:45	
Date: 2019-07-31		Noise Meter End Time: 8h15	
Calibration complete ?: Y		Sensitivity: 0,05 V/V	
Derviation -0,04		Time of Calibration: 8h45	
Cloud cover:	cloudy	partly cloudy	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +
Air Temperature (C): 9,5 C°		Wind Speed (km/hr): 8,2	
Wind Direction: North wind (wind blows from North)			
Barometric Pressure (kPa):		Relative Humidity (%) 82	
Precipitation:	none	drizzle	rain

Comments: Rain days 2

MONITORING STARTS

Operator: Jacqui Levy + Cedric Godbout-Parent	Location: R 7
Date: 2019-08-28	Noise Meter Start Time: 16:15
Calibration complete ?: yes	Sensitivity: 0.05
Deviation: 0.02	Time of Calibration: 16:10
Battery Power Check: yes	Check available disk memory (Y/N)
Photographs of Setup (Y/N)	Photographs of Surrounding (Y/N)

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 16.7	Wind Speed (km/hr): 13.0
Wind Direction: N North wind (wind blows from North)	
Barometric Pressure (kPa):	Relative Humidity (%) 43.3 %

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

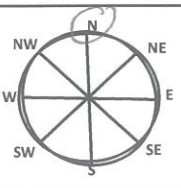
	Latitude	Longitude	Altitude
GPS Location 14W	0620194	7239038	

Type of Ground Surface:
Acoustic Environment:
- (Traffic)
- Human activities
- (Animal)
- (Other noise sources) wind

MONITORING ENDS

Operator: Louis Dubois	Total Monitoring Period 1 Day 10h55
Date: 2019-08-27	Noise Meter End Time: 10:19 AM
Calibration complete ?: Y	Sensitivity: 0,05
Derviation -0,03	Time of Calibration: 2019-08-30 15h15

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 3°C	Wind Speed (km/hr): 50 km
Wind Direction: N North wind (wind blows from North)	
Barometric Pressure (kPa):	Relative Humidity (%) 70,2

Precipitation:	none	(drizzle)	rain

Comments: Extrem wind!
Microphone on the ground.

MONITORING STARTS

Operator: Fanny Laporte & Alice B.A.	Location: R8
Date: 2019-06-30	Noise Meter Start Time: 14:45
Calibration complete ?: YES	Sensitivity: 0.03
Deviation: 30,20	Time of Calibration: 12:55
Battery Power Check: YES	Check available disk memory (Y/N) YES
Photographs of Setup (Y/N) YES	Photographs of Surrounding (Y/N) YES

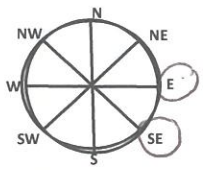
Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 14.7	Wind Speed (km/hr): 18Km/h

Wind Direction:

North wind (wind blows from North)

dew point 6.1



Barometric Pressure (kPa): —	Relative Humidity (%) 45.6

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	(Latitude)	Longitude	Altitude
	14 W 0610616	7256849	158m.

Type of Ground Surface: Tundra
Acoustic Environment: Wild life
Traffic
Human activities Mine (Quarry) but not in use
Animal yes-possible
Other noise sources Helicopter

MONITORING ENDS

Operator: Sam Tapp, Louis Dubois, Alice B-A, K.M.	Total Monitoring Period 3 days.
Date: 2019-07-03	Noise Meter End Time: 14:13
Calibration complete ?:	Sensitivity:
Derviation	Time of Calibration:

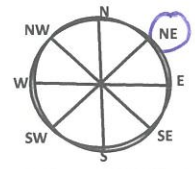
Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 24.1	Wind Speed (km/hr): 2.7Km/h

Wind Direction:

East

North wind (wind blows from North) East



Barometric Pressure (kPa): —	Relative Humidity (%) 25,2%

Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

Operator: ST-ABA	Location: R-8
Date: 2019-08-07	Noise Meter Start Time: 8:20
Calibration complete ?: Y	Sensitivity: 0.05
Deviation: - 0.01	Time of Calibration: 2019-08-02 14:35
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 13.7	Wind Speed (km/hr): 6.7

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa):	Relative Humidity (%) 62.4

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	E610616	N7256849	

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: ST JA	Total Monitoring Period 10 7 HOURS
Date: 2019/08/08	Noise Meter End Time: 15H45
Calibration complete ?: Y	Sensitivity: 0.05
Derviation 0.02	Time of Calibration: 17:06

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 22.4	Wind Speed (km/hr): 19.5

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa):	Relative Humidity (%) 42.6%

Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

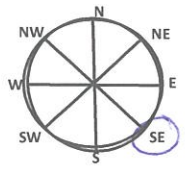
Operator:	Louis Dubois	Location:	R9
Date:	2019-07-26	Noise Meter Start Time:	14:55
Calibration complete ?:	Yes	Sensitivity:	0.05
Deviation:	0.02	Time of Calibration:	14:42
Battery Power Check:	✓	Check available disk memory (Y/N)	Y
Photographs of Setup (Y/N)	Yes	Photographs of Surrounding (Y/N)	Y

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C):	12.5 °C	Wind Speed (km/hr):	2.1

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):		Relative Humidity (%)	54.3

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location	602470	7255956	155 m

Type of Ground Surface:
Acoustic Environment:
- Traffic: - Helicopter - wind
- Human activities: - Blast
- Animal: Wildlife
- Other noise sources

MONITORING ENDS

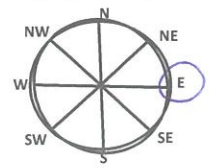
Operator:	Fanny Laporte / KM / ABA	Total Monitoring Period	? we arrived @ 15:50 PM
Date:	2019-07-28	Noise Meter End Time:	WAS stopped due to no more battery
Calibration complete ?:	yes	Sensitivity:	0.05V/V
Derviation	0.01db.	Time of Calibration:	5:45 (DUE to battery charging)

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C):	7.8 °C	Wind Speed (km/hr):	17 KM/H

Wind Direction:

North wind (wind blows from North)



Barometric Pressure (kPa):	100.2 kPa	Relative Humidity (%)	84.3

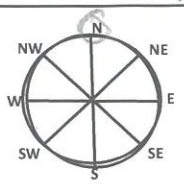
Precipitation:	none	drizzle	(rain)

Comments: Rain & wind gusting to 50KM/H during the period of sampling

MONITORING STARTS

Operator: ST CP	Location: R9
Date: 2019-08-12	Noise Meter Start Time:
Calibration complete ?: Y	Sensitivity: 0.05
Deviation: 0.05	Time of Calibration: 12:40
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover:	cloudy	(partly cloudy)	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 13.3	Wind Speed (km/hr): 9.5
Wind Direction: North wind (wind blows from North)	
Barometric Pressure (kPa):	Relative Humidity (%) 63.4%

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

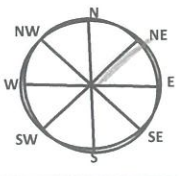
	Latitude	Longitude	Altitude
GPS Location	602488	7255946	

Type of Ground Surface:
Acoustic Environment:
- Traffic
- Human activities
- (Animal)
- Other noise sources – helicopter

MONITORING ENDS

Operator: Jacqui Levy & Cedric Parent	Total Monitoring Period 1 day + 23 hr. (approx)
Date: Aug. 14, 2019	Noise Meter End Time: 13:08
Calibration complete ?: yes	Sensitivity: 0.05 V/V
Derviation 0.02 dB	Time of Calibration: 13:20 → time calibrated said 9:20

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 13.2 °C	Wind Speed (km/hr): 2.9
Wind Direction: NE North wind (wind blows from North)	
Barometric Pressure (kPa):	Relative Humidity (%) 87.4%

Precipitation:	(none)	drizzle	rain

Comments: mild + some rain throughout monitoring period. Light wind.

MONITORING STARTS

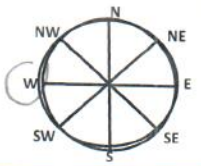
Operator: LD-MA	Location: RIC
Date: 2019-08-01	Noise Meter Start Time: 7:30
Calibration complete ?: YES	Sensitivity: 0.05
Deviation: - 0.05	Time of Calibration: 7:27
Battery Power Check: YES	Check available disk memory (Y/N) YES
Photographs of Setup (Y/N) YES	Photographs of Surrounding (Y/N) YES

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	25,000 +

Air Temperature (C): 11.2°C	Wind Speed (km/hr): 2km

Wind Direction: West

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%)	86.7
Precipitation: (none)	drizzle	rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	65°23"35.83"N	96°38'44.59"W	182 M

Type of Ground Surface:

Acoustic Environment:

- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: ST-ABT	Total Monitoring Period 1.06 DAY
Date: 2019-08-02	Noise Meter End Time: 14:35
Calibration complete ?: Y	Sensitivity: 0.05
Derviation -0.01	Time of Calibration: 14:35

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 20.0C°	Wind Speed (km/hr): 8.4

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa):	Relative Humidity (%)	48%
Precipitation: (none)	drizzle	rain

Comments:

UF Dike-Seep

MONITORING STARTS

Operator: Fanny L. & Jacqui Levy	Location: R 11
Date: 2019-07-18	Noise Meter Start Time: 13:40
Calibration complete ?: Yes	Sensitivity: 0.05 V/V
Deviation: -0.0[illegible] dB	Time of Calibration: 10:33
Battery Power Check: Yes	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Yes	Photographs of Surrounding (Y/N) Yes

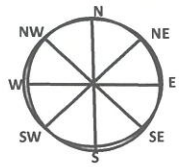
Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	0-10,000	(10,000-25,000)	25,000 +

Air Temperature (C): 16.1	Wind Speed (km/hr): 23.5

Wind Direction:

North wind (wind blows from North)

North North-West



Barometric Pressure (kPa):	Relative Humidity (%) 57.5

Precipitation:	(none)	drizzle	rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location	608708	7257010	

Type of Ground Surface:

Acoustic Environment:

- Traffic: HMV TRUCK @ 2 Km
- Human activities:
- Animal: Wildlife
- Other noise sources: Wind / chopper

MONITORING ENDS

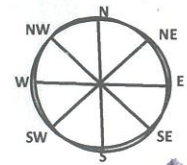
Operator: JL + CP	Total Monitoring Period 1 day, 10 hours
Date: 20-07-2019	Noise Meter End Time: 16:30
Calibration complete ?: yes	Sensitivity: .05 V/V
Derviation 0.03 dB	Time of Calibration:

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000 +)

Air Temperature (C): 15.2	Wind Speed (km/hr): 18.5

Wind Direction: S

North wind (wind blows from North)



Barometric Pressure (kPa):	Relative Humidity (%) 45.5

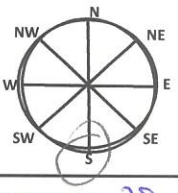
Precipitation:	(none)	drizzle	rain

Comments:

MONITORING STARTS

Operator: Jacqui Levy + Cederic Parent	Location: ~~R9~~ R11
Date: 2019-07-21	Noise Meter Start Time: ~~10:00~~ 15:13
Calibration complete ?: yes	Sensitivity: 0.05 V/V
Deviation: .03 dB	Time of Calibration: 13:05
Battery Power Check: yes	Check available disk memory (Y/N)
Photographs of Setup (Y/N) yes	Photographs of Surrounding (Y/N) yes

Cloud cover:	cloudy	partly cloudy	(sunny)
Height of cloud (feet):	0-10,000	10,000-25,000	(25,000+)

Air Temperature (C): 18.5	Wind Speed (km/hr): 5.2
Wind Direction: South North wind (wind blows from North)	
Barometric Pressure (kPa):	Relative Humidity (%) 38.3

Precipitation: (none) drizzle rain

GENERAL SITE DESCRIPTION

GPS Location	Latitude	Longitude	Altitude
	~~602470~~ 608708	~~7255950~~ 7257040	

Type of Ground Surface:

Acoustic Environment:

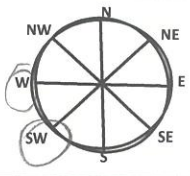
(Traffic) (Human activities) (Animal)

Other noise sources: Helicopter

MONITORING ENDS

Operator: FL & LD	Total Monitoring Period 68HRS.
Date: 2019-07-24	Noise Meter End Time: 9H54
Calibration complete ?: Yes	Sensitivity: 0.05 db
Derviation 0.05 V/V	Time of Calibration: 10:30

Cloud cover:	(cloudy)	partly cloudy	sunny
Height of cloud (feet):	(0-10,000)	10,000-25,000	25,000 +

Air Temperature (C): 6.6 °C	Wind Speed (km/hr): 13 to 17 Km/H
Wind Direction: North wind (wind blows from North)	
Barometric Pressure (kPa):	Relative Humidity (%) 73.9%

Precipitation: none drizzle (rain) light

Comments:

MONITORING STARTS

ST JA	Location: R11
2019-08-09	Noise Meter Start Time: 8:10
Y	Sensitivity: 0.05
Deviation: 0.02	Time of Calibration: 17:00
Battery Power Check: Y	Check available disk memory (Y/N) Y
Photographs of Setup (Y/N) Y	Photographs of Surrounding (Y/N) Y

Cloud cover: cloudy / (partly cloudy) / sunny

Height of cloud (feet): (0-10,000) / 10,000-25,000 / 25,000 +

Air Temperature (C): 12.3 — Wind Speed (km/hr): 12.5

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa): — Relative Humidity (%) 77.12

Precipitation: (none) / drizzle / rain

GENERAL SITE DESCRIPTION

	Latitude	Longitude	Altitude
GPS Location	608786	7257008	

Type of Ground Surface:

Acoustic Environment:

- Traffic
- Human activities
- Animal
- Other noise sources

MONITORING ENDS

Operator: ST	Total Monitoring Period 2D
Date: 2019-08-11	Noise Meter End Time: 8:40
Calibration complete ?: Y	Sensitivity: 0.05
Derviation 0.01	Time of Calibration: 10:00

Cloud cover: cloudy / partly cloudy / sunny

Height of cloud (feet): (0-10,000) / 10,000-25,000 / 25,000 +

Air Temperature (C): 18.6 — Wind Speed (km/hr): 16.6

Wind Direction:

North wind (wind blows from North)

Barometric Pressure (kPa): — Relative Humidity (%) 88.7

Precipitation: (none) / drizzle / rain

Comments:

APPENDIX C

Weather Data and 1-h L_{eq} Values

Table-Apx 1: Average hourly air temperature, relative humidity, wind speed, and wind direction for the Meadowbank site weather station (used for analysis of monitoring stations R1 – R6). All calculated 1-h L_{eq} values are provided. Those excluded from analyses based on unacceptable weather conditions are shaded grey.

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
6/24/19 16:00	12.6	33	3.35	165.6	R1	46.8
6/24/19 17:00	13.6	27	2.44	180.6	R1	34.0
6/24/19 18:00	14.0	28	1.87	182.4	R1	38.4
6/24/19 19:00	14.1	28	2.63	90.7	R1	42.1
6/24/19 20:00	14.1	26	2.91	85.2	R1	39.1
6/24/19 21:00	13.7	31	1.91	139.4	R1	38.6
6/24/19 22:00	12.5	43	1.50	168.9	R1	32.8
6/24/19 23:00	10.3	48	1.16	188.1	R1	34.3
6/25/19 0:00	9.8	51	0.47	190.4	R1	43.5
6/25/19 1:00	9.1	63	0.02	229.3	R1	34.5
6/25/19 2:00	7.3	59	0.19	187.6	R1	40.7
6/25/19 3:00	6.7	73	0.10	177.7	R1	41.1
6/25/19 4:00	6.2	66	0.35	180.7	R1	40.6
6/25/19 5:00	7.3	56	0.70	64.0	R1	42.3
6/25/19 6:00	7.4	55	1.30	89.1	R1	42.3
6/25/19 7:00	8.9	56	1.39	79.1	R1	41.9
6/25/19 8:00	9.5	54	1.99	90.1	R1	53.0
6/25/19 9:00	10.6	52	2.97	103.1	R1	54.0
6/25/19 10:00	11.2	44	3.11	101.0	R1	64.9
6/25/19 11:00	12.5	39	3.87	107.5	R1	70.5
6/25/19 12:00	13.1	36	4.82	114.5	R1	66.2
6/25/19 13:00	13.6	34	4.41	121.9	R1	68.3
6/25/19 14:00	14.5	34	4.31	110.4	R1	65.3
6/25/19 15:00	14.4	30	4.74	136.9	R1	63.3
6/25/19 16:00	15.0	27	4.06	117.8	R1	63.4
6/25/19 17:00	15.6	25	4.23	119.1	R1	62.0
6/25/19 18:00	13.7	55	4.80	164.2	R1	57.5
6/25/19 19:00	11.1	53	4.32	193.1	R1	48.2
6/25/19 20:00	12.2	53	2.41	171.7	R1	53.7
6/25/19 21:00	11.9	58	3.09	146.6	R1	51.9
6/25/19 22:00	11.3	61	2.93	147.3	R1	42.5
6/25/19 23:00	11.4	59	2.00	130.2	R1	50.5
6/26/19 0:00	11.3	60	1.59	92.3	R1	47.2
6/26/19 1:00	10.9	60	2.25	96.8	R1	48.5
6/26/19 2:00	10.7	60	2.67	101.4	R1	49.9

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
6/26/19 3:00	10.0	65	2.49	99.4	R1	52.2
6/26/19 4:00	9.3	65	2.71	86.0	R1	50.3
6/26/19 5:00	9.5	66	2.46	88.8	R1	55.0
6/26/19 6:00	9.7	67	3.65	100.9	R1	58.8
6/26/19 7:00	9.1	67	4.20	100.3	R1	61.1
6/26/19 8:00	8.9	68	3.97	95.0	R1	66.4
6/26/19 9:00	9.2	64	4.06	92.7	R1	64.7
6/26/19 10:00	10.2	58	4.33	106.5	R1	61.9
6/26/19 11:00	11.8	51	4.18	113.1	R1	64.8
6/26/19 12:00	13.3	50	3.76	131.5	R1	58.8
6/26/19 13:00	13.7	52	3.65	135.0	R1	62.0
6/26/19 14:00	13.4	55	4.19	141.7	R1	53.9
6/26/19 15:00	13.9	51	3.19	119.2	R1	52.9
6/26/19 16:00	14.9	50	3.27	105.0	R1	58.6
6/26/19 17:00	15.5	45	3.94	127.0	R1	54.2
6/26/19 18:00	15.3	45	3.71	99.2	R1	48.5
6/26/19 19:00	15.5	47	3.27	120.9	R1	42.4
6/26/19 20:00	15.2	49	2.80	120.0	R1	43.7
6/26/19 21:00	15.1	51	2.29	121.1	R1	41.2
6/26/19 22:00	13.6	56	2.08	151.3	R1	46.3
6/26/19 23:00	13.2	59	3.23	142.0	R1	44.9
6/27/19 0:00	11.7	62	2.17	162.6	R1	45.3
6/27/19 1:00	11.3	64	2.10	158.3	R1	45.9
6/27/19 2:00	10.8	68	1.76	114.4	R1	51.7
6/27/19 3:00	10.4	69	2.22	89.9	R1	48.1
6/27/19 4:00	10.3	70	1.77	91.6	R1	44.4
6/27/19 5:00	10.0	68	2.56	81.6	R1	42.1
6/27/19 6:00	10.1	68	1.98	82.2	R1	40.5
6/27/19 7:00	10.1	70	0.87	95.2	R1	44.9
6/27/19 8:00	10.3	62	1.14	95.2	R1	42.4
6/27/19 9:00	11.6	56	2.01	86.8	R1	40.7
6/27/19 10:00	13.3	44	1.71	121.6	R1	39.6
6/27/19 11:00	14.9	35	1.38	145.5	R1	45.9
6/27/19 12:00	15.6	40	2.41	162.1	R1	50.2
6/27/19 13:00	16.7	39	1.66	142.5	R1	47.7
6/27/19 14:00	17.9	35	1.40	166.3	R1	45.7
6/27/19 15:00	18.3	36	2.03	214.0	R1	50.0
6/27/19 16:00	18.3	36	2.78	190.5	R1	46.1
6/27/19 17:00	18.8	35	1.79	184.7	R1	32.4

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
6/27/19 18:00	19.0	36	1.36	202.8	R1	34.8
6/27/19 19:00	19.0	39	1.40	241.5	R1	32.4
6/27/19 20:00	18.7	38	1.22	293.2	R1	30.1
6/27/19 21:00	18.9	39	1.01	300.9	R1	27.0
6/27/19 22:00	17.3	46	1.51	292.3	R1	29.5
6/27/19 23:00	15.7	52	1.94	294.3	R1	31.7
6/28/19 0:00	15.2	48	2.11	333.7	R1	30.0
6/28/19 1:00	14.1	59	1.48	328.9	R1	29.6
6/28/19 2:00	12.0	63	0.45	320.2	R1	35.9
6/28/19 3:00	11.9	67	0.33	320.1	R1	37.3
6/28/19 4:00	11.7	67	0.92	313.0	R1	41.0
6/28/19 5:00	11.2	63	1.21	4.9	R1	41.9
6/28/19 6:00	12.0	63	0.38	107.8	R1	41.4
6/28/19 7:00	12.5	63	0.40	299.3	R1	41.2
6/28/19 8:00	12.9	61	1.76	98.5	R1	42.0
6/28/19 9:00	14.1	57	1.42	138.7	R1	43.4
6/28/19 10:00	16.2	49	1.35	175.5	R1	40.9
6/28/19 11:00	17.9	43	1.50	190.0	R1	46.4
6/28/19 12:00	19.0	41	1.15	194.5	R1	50.4
6/28/19 13:00	19.2	38	2.45	132.8	R1	57.7
6/28/19 14:00	19.7	37	2.97	116.8	R1	58.1
6/28/19 15:00	20.1	35	2.62	132.7	R2	37.0
6/28/19 16:00	20.4	35	2.95	111.0	R2	28.3
6/28/19 17:00	20.8	32	3.20	110.2	R2	31.5
6/28/19 18:00	20.7	32	3.40	106.2	R2	31.5
6/28/19 19:00	19.7	41	3.98	152.2	R2	32.4
6/28/19 20:00	17.6	41	4.40	184.1	R2	29.5
6/28/19 21:00	16.3	46	4.18	180.2	R2	29.5
6/28/19 22:00	13.8	57	3.75	175.0	R2	30.6
6/28/19 23:00	13.3	56	1.17	174.1	R2	30.6
6/29/19 0:00	13.0	60	1.11	173.9	R2	30.9
6/29/19 1:00	11.5	66	1.68	172.4	R2	32.3
6/29/19 2:00	10.9	62	1.34	145.3	R2	36.4
6/29/19 3:00	10.0	67	2.04	155.6	R2	36.7
6/29/19 4:00	9.8	68	1.45	125.2	R2	37.2
6/29/19 5:00	9.9	67	1.71	105.0	R2	37.0
6/29/19 6:00	9.9	66	1.77	97.2	R2	36.1
6/29/19 7:00	11.1	66	1.97	114.3	R2	36.2

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
6/29/19 8:00	11.9	63	3.06	95.8	R2	38.3
6/29/19 9:00	12.7	62	3.49	90.6	R2	44.9
6/29/19 10:00	14.8	59	4.25	126.6	R2	33.2
6/29/19 11:00	15.8	60	5.45	142.1	R2	36.9
6/29/19 12:00	16.2	54	6.53	151.8	R2	35.3
6/29/19 13:00	15.7	49	6.67	156.8	R2	35.1
6/29/19 14:00	16.1	46	6.71	158.3	R2	35.2
6/29/19 15:00	15.8	54	6.43	157.5	R2	35.3
6/29/19 16:00	15.5	55	6.84	156.6	R2	38.9
6/29/19 17:00	16.2	48	6.39	152.7	R2	33.2
6/29/19 18:00	17.1	46	5.80	150.9	R2	32.9
6/29/19 19:00	17.0	48	5.56	150.0	R2	33.2
6/29/19 20:00	18.7	45	4.94	141.7	R2	35.5
6/29/19 21:00	18.4	49	6.08	138.7	R2	35.9
6/29/19 22:00	17.2	55	6.46	137.6	R2	36.2
6/29/19 23:00	16.0	61	5.64	137.1	R2	33.6
6/30/19 0:00	14.5	66	4.81	136.8	R2	31.9
6/30/19 1:00	12.7	70	4.13	137.2	R2	32.7
6/30/19 2:00	12.0	72	5.01	132.1	R2	34.8
6/30/19 3:00	10.5	82	4.83	121.0	R2	34.2
6/30/19 4:00	9.5	89	5.71	122.9	R2	36.9
6/30/19 5:00	8.3	93	6.04	104.1	R2	39.1
6/30/19 6:00	7.7	92	5.86	100.2	R2	39.2
6/30/19 7:00	8.2	88	5.48	102.8	R2	38.3
6/30/19 8:00	8.0	100	5.27	104.5	R2	37.3
6/30/19 9:00	8.0	100	4.85	103.4	R2	37.2
6/30/19 10:00	8.9	90	5.25	105.4	R2	39.1
6/30/19 11:00	10.5	69	6.06	111.4	R2	37.7
6/30/19 12:00	10.7	72	6.38	114.3	R2	38.7
6/30/19 17:00	13.3	98	7.75	98.4	R5	42.0
6/30/19 18:00	9.3	100	7.54	98.3	R5	38.1
6/30/19 19:00	8.3	100	6.62	98.6	R5	44.5
6/30/19 20:00	7.8	100	7.57	98.1	R5	47.3
6/30/19 21:00	7.2	100	7.81	96.2	R5	51.1
6/30/19 22:00	6.8	100	8.49	94.4	R5	55.4
6/30/19 23:00	7.1	100	9.88	90.0	R5	53.4
7/01/19 0:00	7.4	100	9.47	87.6	R5	54.6
7/01/19 1:00	7.3	100	9.64	82.8	R5	60.7

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/01/19 2:00	7.3	100	11.80	85.5	R5	59.1
7/01/19 3:00	6.7	100	10.79	94.5	R5	57.6
7/01/19 4:00	5.9	100	9.83	97.4	R5	58.6
7/01/19 5:00	6.1	100	10.47	96.1	R5	58.5
7/01/19 6:00	6.4	100	9.81	94.9	R5	55.4
7/01/19 7:00	6.4	100	8.63	93.7	R5	50.6
7/01/19 8:00	7.3	100	8.74	90.2	R5	47.3
7/01/19 9:00	8.1	100	8.78	83.9	R5	48.7
7/01/19 10:00	8.2	100	9.33	83.4	R5	50.0
7/01/19 11:00	8.3	100	9.02	82.3	R5	49.9
7/01/19 12:00	8.7	100	8.22	79.7	R5	52.7
7/01/19 13:00	9.1	100	8.49	80.7	R5	42.1
7/01/19 14:00	9.5	100	6.87	85.0	R5	40.7
7/01/19 15:00	8.2	100	5.32	100.1	R5	40.2
7/01/19 16:00	8.1	100	4.51	102.8	R5	40.1
7/01/19 17:00	8.3	100	3.53	107.6	R5	40.0
7/01/19 18:00	8.3	100	2.58	98.0	R5	40.1
7/01/19 19:00	8.1	100	2.74	99.7	R5	39.2
7/01/19 20:00	8.0	100	4.19	101.7	R5	39.6
7/01/19 21:00	7.2	100	6.77	94.8	R5	38.6
7/01/19 22:00	6.6	100	5.71	114.7	R5	35.8
7/01/19 23:00	6.1	100	4.03	106.9	R5	37.1
7/02/19 0:00	5.7	100	3.78	105.3	R5	39.4
7/02/19 1:00	5.4	100	3.61	107.5	R5	36.3
7/02/19 2:00	5.1	100	2.61	97.1	R5	36.9
7/02/19 3:00	5.2	100	1.91	99.7	R5	36.2
7/02/19 4:00	5.4	100	2.77	102.3	R5	35.2
7/02/19 5:00	5.3	100	2.59	140.1	R5	35.1
7/02/19 6:00	5.3	100	1.52	123.5	R5	39.1
7/02/19 7:00	5.5	100	2.75	38.9	R5	39.8
7/02/19 8:00	5.7	100	4.83	44.8	R5	40.5
7/02/19 9:00	6.0	100	5.52	62.8	R5	39.0
7/02/19 10:00	6.0	100	2.12	120.3	R5	34.7
7/02/19 11:00	6.8	100	3.43	75.8	R5	37.1
7/02/19 12:00	7.3	100	4.23	69.1	R5	40.9
7/02/19 13:00	7.5	100	3.89	84.1	R5	41.0
7/02/19 14:00	7.5	100	4.20	86.2	R5	36.3
7/02/19 15:00	7.8	100	4.54	91.2	R5	36.5
7/02/19 16:00	8.5	100	4.67	89.0	R5	36.8

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/02/19 17:00	8.6	100	5.34	88.1	R5	39.7
7/02/19 18:00	7.4	100	4.91	101.3	R5	38.6
7/02/19 19:00	7.0	100	3.87	98.2	R5	38.7
7/02/19 20:00	7.4	100	4.56	80.5	R5	38.6
7/02/19 21:00	7.8	100	4.35	71.8	R5	39.1
7/02/19 22:00	8.2	100	5.69	74.7	R5	39.6
7/02/19 23:00	8.4	100	5.15	67.3	R5	43.7
7/03/19 0:00	9.2	100	6.50	55.3	R5	45.6
7/03/19 1:00	9.8	100	7.77	75.2	R5	45.6
7/03/19 2:00	9.8	100	7.55	73.1	R5	47.8
7/03/19 3:00	9.8	100	7.75	70.2	R5	45.3
7/03/19 4:00	9.8	100	7.14	66.8	R5	48.4
7/03/19 5:00	9.7	100	7.44	69.0	R5	47.0
7/03/19 6:00	9.6	100	7.83	69.9	R5	44.9
7/03/19 7:00	9.5	100	6.84	62.7	R5	40.5
7/03/19 8:00	9.7	98	6.37	64.5	R5	42.1
7/03/19 9:00	9.5	98	6.03	56.8	R5	42.0
7/03/19 10:00	10.3	89	5.83	58.2	R5	40.9
7/03/19 11:00	11.4	73	5.63	60.4	R5	38.2
7/03/19 12:00	13.5	59	6.24	65.1	R5	40.6
7/03/19 13:00	15.1	52	6.71	56.4	R5	47.3
7/03/19 14:00	16.3	50	6.39	59.0	R5	38.5
7/03/19 15:00	18.6	40	6.99	57.7	R5	37.8
7/03/19 16:00	19.9	28	7.21	58.9	R5	36.6
7/03/19 17:00	20.5	23	7.63	56.2	R5	38.9
7/03/19 18:00	20.9	22	7.15	57.0	R5	37.0
7/03/19 19:00	20.8	23	6.22	69.9	R5	36.5
7/03/19 20:00	20.2	25	6.06	74.0	R5	39.7
7/03/19 21:00	19.5	30	4.72	69.7	R5	39.4
7/03/19 22:00	18.5	30	4.35	64.9	R5	38.4
7/03/19 23:00	17.1	39	4.09	50.3	R5	38.3
7/04/19 0:00	15.8	37	4.64	47.8	R5	39.3
7/04/19 1:00	14.6	42	5.31	51.5	R5	38.7
7/04/19 2:00	13.2	43	4.77	54.4	R5	39.6
7/04/19 3:00	12.3	49	4.88	45.0	R5	39.0
7/04/19 4:00	11.5	46	5.56	53.4	R5	38.3
7/04/19 5:00	12.1	47	4.82	57.2	R5	38.6
7/04/19 6:00	11.7	51	4.60	29.0	R5	37.9
7/04/19 7:00	12.5	51	5.07	22.1	R5	38.7

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/04/19 8:00	13.9	45	3.99	14.4	R5	40.2
7/04/19 9:00	15.4	44	3.57	15.9	R5	29.2
7/04/19 10:00	16.3	43	3.30	11.4	R5	30.5
7/04/19 11:00	17.7	35	3.41	6.3	R5	32.9
7/04/19 12:00	19.0	33	4.16	347.5	R5	59.8
7/04/19 13:00	19.5	36	5.63	320.6	R5	38.7
7/04/19 16:00	19.7	41	7.71	317.3	R4	39.7
7/04/19 17:00	19.4	39	6.74	313.4	R4	40.5
7/04/19 18:00	20.0	36	7.29	324.7	R4	43.4
7/04/19 19:00	19.1	35	8.16	328.1	R4	44.1
7/04/19 20:00	18.3	39	8.02	329.7	R4	41.6
7/04/19 21:00	17.4	48	7.56	329.1	R4	37.2
7/04/19 22:00	15.6	56	7.26	331.7	R4	35.1
7/04/19 23:00	14.2	65	7.35	326.2	R4	36.7
7/05/19 0:00	12.2	71	7.45	329.4	R4	34.1
7/05/19 1:00	10.5	76	7.63	323.6	R4	35.5
7/05/19 2:00	9.4	86	7.12	325.3	R4	38.0
7/05/19 3:00	8.6	88	6.58	321.8	R4	38.1
7/05/19 4:00	8.0	88	6.15	320.0	R4	39.2
7/05/19 5:00	7.6	87	4.49	314.5	R4	38.0
7/05/19 6:00	7.6	83	4.40	313.2	R4	33.3
7/05/19 7:00	8.4	74	4.95	320.6	R4	36.3
7/05/19 8:00	8.7	71	4.26	333.2	R4	35.6
7/05/19 9:00	9.1	59	6.41	312.4	R4	33.5
7/05/19 10:00	9.9	62	4.57	305.1	R4	42.7
7/05/19 11:00	10.2	69	4.47	293.1	R4	40.5
7/05/19 12:00	11.1	67	5.67	286.4	R4	32.9
7/05/19 13:00	12.4	70	5.36	287.3	R4	37.1
7/05/19 14:00	13.7	69	6.68	296.4	R4	41.8
7/05/19 15:00	12.4	70	6.74	288.4	R4	35.2
7/05/19 16:00	12.8	72	6.36	277.0	R4	36.6
7/05/19 17:00	11.3	85	5.20	279.9	R4	33.5
7/05/19 18:00	11.3	100	5.26	274.4	R4	32.4
7/05/19 19:00	10.0	100	5.02	277.4	R4	33.4
7/05/19 20:00	9.8	100	3.86	278.6	R4	32.6
7/05/19 21:00	10.4	100	2.43	288.0	R4	30.7
7/05/19 22:00	10.9	100	1.71	295.4	R4	32.7
7/05/19 23:00	10.7	100	1.74	293.7	R4	31.4

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/06/19 0:00	10.5	100	1.42	291.8	R4	32.8
7/06/19 1:00	10.2	100	2.25	292.1	R4	32.7
7/06/19 2:00	10.2	100	1.97	298.0	R4	38.3
7/06/19 3:00	9.5	100	2.00	303.4	R4	39.4
7/06/19 4:00	9.1	100	2.81	306.2	R4	41.3
7/06/19 5:00	9.0	100	3.85	314.9	R4	41.6
7/06/19 6:00	8.6	100	3.76	317.1	R4	33.9
7/06/19 7:00	8.5	100	3.67	318.9	R4	34.4
7/06/19 8:00	9.1	95	5.01	315.3	R4	34.2
7/06/19 9:00	10.8	82	4.83	328.4	R4	36.3
7/06/19 10:00	12.0	67	5.80	330.0	R4	36.8
7/06/19 11:00	12.6	66	6.50	316.6	R4	37.1
7/06/19 12:00	13.4	64	6.63	316.4	R4	37.3
7/06/19 13:00	13.7	64	5.96	310.0	R4	38.6
7/06/19 14:00	13.6	72	6.60	300.4	R4	56.4
7/22/19 10:00	15.7	60	0.00	0.0	R6	37.8
7/22/19 11:00	16.0	63	0.00	0.0	R6	34.2
7/22/19 12:00	15.4	71	0.00	0.0	R6	30.9
7/22/19 13:00	14.8	77	0.00	0.0	R6	52.3
7/22/19 14:00	12.6	100	0.00	0.0	R6	48.7
7/22/19 15:00	10.4	100	0.00	0.0	R6	44.3
7/22/19 16:00	9.7	100	0.00	0.0	R6	42.6
7/22/19 17:00	9.4	100	0.00	0.0	R6	46.8
7/22/19 18:00	9.8	97	0.00	0.0	R6	47.8
7/22/19 19:00	9.7	99	0.00	0.0	R6	48.3
7/22/19 20:00	9.5	87	0.00	0.0	R6	46.8
7/22/19 21:00	9.3	90	0.00	0.0	R6	44.1
7/22/19 22:00	8.8	100	0.00	0.0	R6	44.6
7/22/19 23:00	7.5	100	0.00	0.0	R6	41.6
7/23/19 0:00	7.3	93	0.00	0.0	R6	41.4
7/23/19 1:00	7.3	83	0.00	0.0	R6	29.5
7/23/19 2:00	6.5	96	0.00	0.0	R6	25.5
7/23/19 3:00	5.9	100	0.00	0.0	R6	25.2
7/23/19 4:00	5.4	100	0.00	0.0	R6	24.6
7/23/19 5:00	5.1	100	0.00	0.0	R6	19.7
7/23/19 6:00	5.2	100	0.00	0.0	R6	18.7
7/23/19 7:00	6.2	89	0.00	0.0	R6	20.1
7/23/19 8:00	6.9	84	0.00	0.0	R6	24.5

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/23/19 9:00	7.4	77	0.00	0.0	R6	22.6
7/23/19 10:00	8.1	77	0.00	0.0	R6	22.7
7/23/19 11:00	8.7	71	0.00	0.0	R6	26.8
7/23/19 12:00	9.3	65	0.00	0.0	R6	33.6
7/23/19 13:00	9.6	78	0.00	0.0	R6	36.4
7/23/19 14:00	9.5	92	0.00	0.0	R6	38.1
7/23/19 15:00	9.3	100	0.00	0.0	R6	36.6
7/23/19 16:00	9.0	100	0.00	0.0	R6	31.7
7/23/19 17:00	9.2	100	0.00	0.0	R6	31.0
7/23/19 18:00	9.1	100	0.00	0.0	R6	26.7
7/23/19 19:00	9.5	100	0.00	0.0	R6	22.4
7/23/19 20:00	10.3	100	0.00	0.0	R6	29.2
7/23/19 21:00	10.1	94	0.00	0.0	R6	24.2
7/23/19 22:00	9.8	100	0.00	0.0	R6	41.4
7/23/19 23:00	9.1	97	0.00	0.0	R6	33.0
7/24/19 0:00	8.5	99	0.00	0.0	R6	35.1
7/24/19 1:00	7.5	97	0.00	0.0	R6	36.6
7/24/19 2:00	6.1	97	0.00	0.0	R6	35.1
7/24/19 3:00	5.0	94	0.00	0.0	R6	30.7
7/24/19 4:00	4.3	92	0.00	0.0	R6	22.4
7/24/19 5:00	3.7	94	0.00	0.0	R6	25.9
7/24/19 6:00	3.8	86	0.00	0.0	R6	28.7
7/24/19 7:00	4.4	82	0.00	0.0	R6	34.5
7/24/19 8:00	4.9	73	0.00	0.0	R6	35.3
7/24/19 9:00	5.5	63	0.00	0.0	R6	30.6
7/24/19 10:00	6.3	64	0.00	0.0	R6	31.1
7/24/19 11:00	7.1	69	0.00	0.0	R6	39.6
7/24/19 12:00	7.7	71	0.00	0.0	R6	43.2
7/24/19 13:00	7.9	79	0.00	0.0	R6	44.9
7/24/19 14:00	8.5	80	0.00	0.0	R6	47.6
7/24/19 15:00	9.0	60	0.00	0.0	R6	44.8
7/24/19 16:00	9.3	54	0.00	0.0	R6	42.8
7/24/19 17:00	9.7	53	0.00	0.0	R6	43.6
7/24/19 18:00	10.2	51	0.00	0.0	R6	45.0
7/24/19 19:00	10.6	52	0.00	0.0	R6	40.5
7/24/19 20:00	10.2	59	0.00	0.0	R6	34.2
7/24/19 21:00	9.5	70	0.00	0.0	R6	28.6
7/24/19 22:00	8.6	77	0.00	0.0	R6	29.3
7/24/19 23:00	7.8	77	0.00	0.0	R6	33.5

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/25/19 0:00	7.2	78	0.00	0.0	R6	28.5
7/25/19 1:00	6.5	85	0.00	0.0	R6	27.5
7/25/19 2:00	5.8	95	0.00	0.0	R6	18.7
7/25/19 3:00	4.8	97	0.00	0.0	R6	18.3
7/25/19 4:00	4.2	100	0.00	0.0	R6	38.9
7/25/19 5:00	4.0	100	0.00	0.0	R6	22.4
7/25/19 6:00	4.3	97	0.00	0.0	R6	27.1
7/25/19 7:00	4.4	98	0.00	0.0	R6	26.5
7/25/19 8:00	5.0	82	0.00	0.0	R6	32.4
7/25/19 9:00	5.9	71	0.00	0.0	R6	35.4
7/25/19 10:00	6.4	68	0.00	0.0	R6	37.0
7/26/19 11:00	6.3	81	0.00	0.0	R3	55.8
7/26/19 12:00	6.6	81	0.00	0.0	R3	31.2
7/26/19 13:00	7.3	74	0.00	0.0	R3	35.7
7/26/19 14:00	7.9	72	0.00	0.0	R3	36.7
7/26/19 15:00	8.5	70	0.00	0.0	R3	20.5
7/26/19 16:00	8.8	70	0.00	0.0	R3	21.2
7/26/19 17:00	9.1	70	0.00	0.0	R3	28.8
7/26/19 18:00	9.2	80	0.00	0.0	R3	27.3
7/26/19 19:00	9.1	68	0.00	0.0	R3	22.0
7/26/19 20:00	9.4	73	0.00	0.0	R3	23.4
7/26/19 21:00	9.1	76	0.00	0.0	R3	26.5
7/26/19 22:00	9.0	76	0.00	0.0	R3	26.7
7/26/19 23:00	8.9	75	0.00	0.0	R3	28.9
7/27/19 0:00	8.7	77	0.00	0.0	R3	33.3
7/27/19 1:00	8.6	77	0.00	0.0	R3	33.1
7/27/19 2:00	8.7	78	0.00	0.0	R3	32.8
7/27/19 3:00	8.9	82	0.00	0.0	R3	29.7
7/27/19 4:00	8.4	92	0.00	0.0	R3	42.9
7/27/19 5:00	7.8	87	0.00	0.0	R3	48.0
7/27/19 6:00	7.5	95	0.00	0.0	R3	48.8
7/27/19 7:00	7.3	100	0.00	0.0	R3	51.9
7/27/19 8:00	7.3	100	0.00	0.0	R3	51.1
7/27/19 9:00	7.2	100	0.00	0.0	R3	49.9
7/27/19 10:00	7.2	100	0.00	0.0	R3	50.7
7/27/19 11:00	7.2	100	0.00	0.0	R3	51.2
7/27/19 12:00	6.8	100	0.00	0.0	R3	51.5
7/27/19 13:00	6.8	100	0.00	0.0	R3	54.2

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/27/19 14:00	6.9	100	0.00	0.0	R3	52.9
7/27/19 15:00	7.0	100	0.00	0.0	R3	51.5
7/27/19 16:00	7.2	100	0.00	0.0	R3	49.7
7/27/19 17:00	7.3	93	0.00	0.0	R3	52.2
7/27/19 18:00	7.2	99	0.00	0.0	R3	49.8
7/27/19 19:00	7.0	100	0.00	0.0	R3	50.7
7/27/19 20:00	6.9	100	0.00	0.0	R3	51.5
7/27/19 21:00	6.6	100	0.00	0.0	R3	51.4
7/27/19 22:00	6.7	100	0.00	0.0	R3	51.9
7/27/19 23:00	6.6	100	0.00	0.0	R3	54.5
7/28/19 0:00	6.3	100	0.00	0.0	R3	57.5
7/28/19 1:00	5.9	100	0.00	112.3	R3	57.3
7/28/19 2:00	5.5	100	0.00	119.6	R3	58.0
7/28/19 3:00	5.4	100	3.32	117.5	R3	56.8
7/28/19 4:00	5.2	100	10.11	116.4	R3	57.1
7/28/19 5:00	5.3	100	9.04	115.6	R3	57.7
7/28/19 6:00	5.3	100	8.86	114.5	R3	55.9
7/28/19 7:00	5.5	100	9.12	120.1	R3	52.8
7/28/19 8:00	5.8	100	7.54	124.4	R3	50.4
7/28/19 9:00	6.2	100	7.80	128.6	R3	44.4
7/28/19 10:00	6.6	100	6.70	132.4	R3	40.6
7/28/19 11:00	7.1	100	6.04	135.4	R3	38.3
7/28/19 12:00	8.0	98	1.00	127.9	R3	39.3
7/28/19 13:00	8.8	87	0.00	0.0	R3	38.9
7/28/19 14:00	9.6	80	0.00	0.0	R3	39.8
7/28/19 15:00	9.6	79	0.25	111.9	R3	36.2
7/28/19 16:00	8.6	91	0.48	113.0	R3	31.3
7/28/19 17:00	8.2	82	0.00	0.0	R3	27.6
7/28/19 18:00	7.7	87	0.00	0.0	R3	35.2
7/28/19 19:00	8.3	86	0.00	0.0	R3	32.8
7/28/19 20:00	8.2	92	0.00	0.0	R3	36.9
7/28/19 21:00	8.0	92	0.00	0.0	R3	31.3
7/28/19 22:00	6.9	96	0.00	0.0	R3	30.0
7/28/19 23:00	6.8	95	0.00	0.0	R3	29.0
7/29/19 0:00	6.4	100	0.00	0.0	R3	30.8
7/29/19 1:00	6.2	100	0.00	0.0	R3	30.1
7/29/19 2:00	6.1	100	0.00	0.0	R3	28.2
7/29/19 3:00	6.0	100	0.00	0.0	R3	37.5
7/29/19 4:00	6.2	100	0.00	0.0	R3	39.8

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/29/19 5:00	6.7	100	0.00	0.0	R3	40.1
7/29/19 6:00	6.6	100	0.00	0.0	R3	43.9
7/29/19 7:00	6.3	100	0.00	0.0	R3	41.7
7/29/19 8:00	6.0	99	0.00	0.0	R3	40.0
7/29/19 9:00	6.4	91	0.00	0.0	R3	40.5
7/29/19 10:00	6.8	91	0.00	0.0	R3	40.8
7/29/19 11:00	7.3	84	0.00	0.0	R3	43.0
7/29/19 12:00	8.2	77	0.00	0.0	R3	47.2
7/29/19 13:00	9.4	65	0.00	0.0	R3	35.3
7/29/19 14:00	10.7	61	0.00	0.0	R3	37.7
7/29/19 15:00	12.3	58	0.00	0.0	R3	37.3
7/29/19 16:00	12.6	64	0.00	0.0	R3	34.8
7/29/19 17:00	13.3	58	0.00	0.0	R3	32.9
7/29/19 18:00	13.9	63	0.00	0.0	R3	30.6
7/29/19 19:00	14.2	59	0.00	0.0	R3	29.2
7/29/19 20:00	14.4	62	0.00	0.0	R3	30.1
7/29/19 21:00	14.0	64	0.00	0.0	R3	33.9
7/29/19 22:00	13.0	76	0.00	0.0	R3	37.7
7/29/19 23:00	10.8	91	0.00	0.0	R3	38.5
7/30/19 0:00	9.6	96	0.00	0.0	R3	35.8
7/30/19 1:00	9.1	100	0.00	0.0	R3	35.2
7/30/19 2:00	8.6	100	0.00	0.0	R3	38.7
7/30/19 3:00	8.5	100	0.00	0.0	R3	40.0
7/30/19 4:00	8.6	100	0.00	0.0	R3	40.4
7/30/19 5:00	8.6	95	0.00	0.0	R3	39.9
7/30/19 6:00	9.5	89	0.00	0.0	R3	38.9
7/30/19 7:00	10.2	80	0.00	0.0	R3	38.4
7/30/19 8:00	11.6	77	0.00	0.0	R3	39.9
7/30/19 9:00	13.2	67	0.00	0.0	R3	35.2
7/30/19 10:00	14.5	61	0.00	0.0	R3	38.8
7/30/19 11:00	16.0	55	0.00	0.0	R3	37.9
7/31/19 14:00	11.0	100	1.26	159.5	R2	43.2
7/31/19 15:00	12.0	98	1.57	47.6	R2	31.1
7/31/19 16:00	12.5	95	2.61	10.6	R2	28.2
7/31/19 17:00	12.8	90	3.29	8.9	R2	30.2
7/31/19 18:00	13.5	87	1.81	8.9	R2	33.3
7/31/19 19:00	13.3	90	0.00	0.0	R2	33.1
7/31/19 20:00	13.1	90	0.00	0.0	R2	37.8

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
7/31/19 21:00	12.7	99	0.00	0.0	R2	35.9
7/31/19 22:00	12.2	100	0.00	0.0	R2	26.6
7/31/19 23:00	11.5	100	0.00	0.0	R2	32.6
8/01/19 0:00	10.6	100	0.00	0.0	R2	25.1
8/01/19 1:00	10.4	100	0.00	0.0	R2	27.4
8/01/19 2:00	8.9	100	0.04	335.9	R2	30.2
8/01/19 3:00	8.0	100	1.25	324.8	R2	29.9
8/01/19 4:00	7.6	100	1.79	327.0	R2	29.4
8/01/19 5:00	7.6	100	2.39	305.6	R2	28.2
8/01/19 6:00	7.7	100	1.21	298.9	R2	26.8
8/01/19 7:00	8.5	99	0.00	0.0	R2	28.8
8/01/19 8:00	9.7	98	0.00	0.0	R2	26.2
8/01/19 9:00	10.9	90	0.00	0.0	R2	25.8
8/01/19 10:00	13.1	75	0.00	0.0	R2	28.0
8/01/19 11:00	14.0	62	0.00	0.0	R2	25.4
8/01/19 12:00	15.0	64	0.00	0.0	R2	40.5
8/01/19 13:00	16.4	59	0.00	0.0	R2	24.4
8/01/19 14:00	17.1	51	0.00	0.0	R2	25.5
8/01/19 15:00	17.9	43	0.00	0.0	R2	26.9
8/01/19 16:00	18.5	38	0.00	0.0	R2	39.6
8/01/19 17:00	18.7	39	0.00	0.0	R2	21.2
8/01/19 18:00	18.8	37	0.00	0.0	R2	20.6
8/01/19 19:00	19.1	33	0.00	0.0	R2	21.5
8/01/19 20:00	18.6	43	0.00	0.0	R2	22.2
8/01/19 21:00	17.8	48	0.57	123.7	R2	22.1
8/01/19 22:00	17.1	54	1.16	97.8	R2	25.7
8/01/19 23:00	15.8	59	1.28	101.9	R2	29.9
8/02/19 0:00	14.9	60	1.56	77.1	R2	30.4
8/02/19 1:00	14.1	61	1.86	79.7	R2	29.9
8/02/19 2:00	13.3	65	2.89	72.8	R2	32.5
8/02/19 3:00	12.5	66	3.15	72.4	R2	34.4
8/02/19 4:00	12.5	66	3.19	68.9	R2	34.3
8/02/19 5:00	11.3	79	2.97	86.9	R2	36.9
8/02/19 6:00	11.2	75	1.26	85.8	R2	36.5
8/02/19 7:00	11.7	71	1.26	78.9	R2	39.1
8/02/19 8:00	12.7	71	0.88	95.9	R2	36.2
8/03/19 8:00	12.7	79	6.91	124.5	R4	48.3
8/03/19 9:00	12.8	81	7.69	136.4	R4	47.0

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/03/19 10:00	12.6	90	7.47	137.8	R4	47.1
8/03/19 11:00	12.4	97	7.24	140.1	R4	47.5
8/03/19 12:00	12.1	97	7.05	129.1	R4	49.3
8/03/19 13:00	12.5	97	7.74	125.2	R4	51.7
8/03/19 14:00	12.4	97	8.51	116.2	R4	55.4
8/03/19 15:00	12.2	97	9.88	118.0	R4	58.0
8/03/19 16:00	12.2	97	10.60	119.4	R4	59.1
8/03/19 17:00	11.9	94	11.11	118.6	R4	58.6
8/03/19 18:00	11.9	90	10.01	127.3	R4	59.9
8/03/19 19:00	11.7	91	10.55	133.2	R4	60.3
8/03/19 20:00	11.3	96	11.15	135.0	R4	61.3
8/03/19 21:00	10.6	100	11.51	135.8	R4	61.8
8/03/19 22:00	10.2	100	10.97	134.6	R4	62.7
8/03/19 23:00	10.0	100	11.30	135.6	R4	61.4
8/04/19 0:00	9.6	100	10.80	132.7	R4	61.6
8/04/19 1:00	9.2	100	10.57	132.2	R4	61.3
8/04/19 2:00	8.9	100	9.82	123.0	R4	61.2
8/04/19 3:00	8.9	100	9.66	127.3	R4	59.6
8/04/19 4:00	8.9	100	9.67	131.0	R4	60.1
8/04/19 5:00	8.7	100	9.54	130.3	R4	59.6
8/04/19 6:00	8.7	100	9.73	135.2	R4	58.9
8/04/19 7:00	8.8	100	9.29	134.5	R4	57.1
8/04/19 8:00	8.8	100	8.93	133.0	R4	56.1
8/04/19 9:00	8.9	100	8.45	132.5	R4	53.6
8/04/19 10:00	9.1	100	8.33	133.2	R4	53.2
8/04/19 11:00	9.2	100	8.25	128.6	R4	53.3
8/04/19 12:00	9.0	100	8.15	117.1	R4	48.7
8/04/19 13:00	8.8	100	6.98	115.0	R4	49.2
8/04/19 14:00	8.9	100	6.98	113.3	R4	49.0
8/04/19 15:00	9.0	100	6.76	111.5	R4	51.0
8/04/19 16:00	9.0	100	7.18	114.2	R4	48.5
8/04/19 17:00	9.2	100	6.19	107.3	R4	44.3
8/04/19 18:00	9.1	100	5.33	110.3	R4	45.2
8/04/19 19:00	9.2	100	5.53	121.2	R4	44.9
8/04/19 20:00	9.3	100	5.68	135.1	R4	41.5
8/04/19 21:00	9.3	100	5.40	137.8	R4	37.8
8/04/19 22:00	9.0	100	5.13	139.0	R4	39.4
8/04/19 23:00	8.8	100	4.80	142.3	R4	41.4
8/05/19 0:00	8.7	100	5.53	134.8	R4	39.2

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/05/19 1:00	8.6	100	5.39	134.6	R4	42.9
8/05/19 2:00	8.6	100	4.97	138.2	R4	45.9
8/05/19 3:00	8.6	100	5.28	128.7	R4	45.4
8/05/19 4:00	8.3	100	6.43	114.1	R4	49.8
8/05/19 5:00	8.4	100	6.07	119.0	R4	51.0
8/05/19 6:00	8.4	100	6.89	118.8	R4	50.9
8/05/19 7:00	8.4	100	6.99	114.3	R4	48.9
8/05/19 8:00	8.5	100	7.50	119.2	R4	51.6
8/05/19 9:00	8.6	100	7.60	119.8	R4	50.8
8/05/19 10:00	8.8	100	6.75	122.3	R4	54.1
8/05/19 11:00	8.7	100	7.13	120.0	R4	53.3
8/05/19 12:00	8.9	100	6.75	128.9	R4	54.4
8/05/19 13:00	8.9	100	6.16	122.3	R4	48.3
8/05/19 14:00	9.0	100	6.58	121.1	R4	49.5
8/05/19 15:00	9.5	100	7.17	118.4	R4	48.6
8/05/19 16:00	10.0	100	6.66	117.3	R4	40.8
8/05/19 17:00	10.2	100	5.63	115.6	R4	41.8
8/05/19 18:00	10.5	100	5.31	106.4	R4	47.2
8/05/19 19:00	11.1	100	6.66	110.8	R4	46.6
8/05/19 20:00	11.3	95	6.85	114.2	R4	45.9
8/05/19 21:00	11.2	93	7.13	113.4	R4	45.8
8/05/19 22:00	10.9	100	7.30	114.2	R4	41.3
8/05/19 23:00	10.4	100	6.09	94.5	R4	40.8
8/06/19 0:00	10.4	100	5.63	101.1	R4	46.6
8/06/19 1:00	10.0	100	6.46	111.4	R4	45.2
8/06/19 2:00	9.6	100	7.27	104.8	R4	45.3
8/06/19 3:00	9.4	100	7.22	105.4	R4	45.5
8/06/19 4:00	9.4	100	7.04	109.0	R4	48.0
8/06/19 5:00	9.5	100	7.96	107.1	R4	50.1
8/06/19 6:00	9.7	100	8.37	106.0	R4	49.8
8/06/19 7:00	9.4	100	8.53	104.5	R4	52.0
8/06/19 8:00	9.8	100	8.84	99.2	R4	51.6
8/06/19 9:00	10.7	100	8.51	97.2	R4	49.1
8/06/19 10:00	11.5	97	7.78	95.9	R4	48.0
8/06/19 11:00	12.2	93	1.13	91.7	R4	49.1
8/06/19 12:00	12.8	90	0.00	0.0	R4	50.9
8/07/19 10:00	13.1	67	0.00	0.0	R5	42.5
8/07/19 11:00	13.9	65	0.00	0.0	R5	49.3

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/07/19 12:00	14.9	57	0.00	0.0	R5	42.8
8/07/19 13:00	16.0	52	0.00	0.0	R5	43.6
8/07/19 14:00	16.8	50	0.00	0.0	R5	41.3
8/07/19 15:00	17.2	48	0.00	0.0	R5	39.6
8/07/19 16:00	17.8	51	0.00	0.0	R5	40.8
8/07/19 17:00	18.0	51	0.00	0.0	R5	37.6
8/07/19 18:00	17.6	49	0.00	0.0	R5	33.7
8/07/19 19:00	17.3	49	0.00	0.0	R5	33.8
8/07/19 20:00	17.1	54	0.00	0.0	R5	32.9
8/07/19 21:00	16.9	54	0.00	0.0	R5	33.9
8/07/19 22:00	16.0	58	0.00	0.0	R5	32.9
8/07/19 23:00	14.9	63	0.00	0.0	R5	39.2
8/08/19 0:00	14.2	72	0.00	0.0	R5	38.6
8/08/19 1:00	13.4	73	0.00	0.0	R5	38.0
8/08/19 2:00	12.7	80	0.00	0.0	R5	36.0
8/08/19 3:00	12.7	76	0.00	0.0	R5	34.3
8/08/19 4:00	12.4	82	0.00	0.0	R5	35.5
8/08/19 5:00	11.9	90	0.00	0.0	R5	34.4
8/08/19 6:00	11.4	95	0.00	0.0	R5	31.8
8/08/19 7:00	11.5	95	0.00	0.0	R5	35.2
8/08/19 8:00	11.6	96	0.00	0.0	R5	34.7
8/08/19 9:00	12.0	91	0.00	0.0	R5	35.3
8/08/19 10:00	13.0	93	0.00	0.0	R5	39.4
8/08/19 11:00	13.8	83	0.00	0.0	R5	58.1
8/08/19 12:00	15.9	70	0.00	0.0	R5	42.6
8/08/19 13:00	16.6	67	0.00	0.0	R5	43.6
8/08/19 14:00	17.1	74	0.00	0.0	R5	44.2
8/08/19 15:00	15.8	64	0.00	0.0	R5	45.7
8/08/19 16:00	16.0	50	4.70	48.2	R5	31.4
8/08/19 17:00	17.2	43	2.01	32.8	R5	37.6
8/08/19 18:00	18.1	42	0.00	0.0	R5	36.2
8/08/19 19:00	17.8	46	0.00	0.0	R5	47.1
8/08/19 20:00	17.2	51	0.00	0.0	R5	33.1
8/08/19 21:00	16.7	52	0.00	0.0	R5	31.2
8/08/19 22:00	15.5	58	0.00	0.0	R5	31.0
8/08/19 23:00	14.7	64	0.00	0.0	R5	30.7
8/09/19 0:00	13.8	71	0.00	0.0	R5	33.3
8/09/19 1:00	12.9	78	0.00	0.0	R5	33.1
8/09/19 2:00	12.2	84	0.00	0.0	R5	31.9

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/09/19 3:00	11.5	94	0.00	0.0	R5	30.2
8/09/19 4:00	10.7	96	0.00	0.0	R5	31.2
8/09/19 5:00	10.4	98	0.00	0.0	R5	30.8
8/09/19 6:00	10.5	100	0.00	0.0	R5	33.3
8/09/19 7:00	10.1	100	0.00	0.0	R5	34.4
8/09/19 8:00	10.6	100	0.00	0.0	R5	55.6
8/10/19 18:00	12.2	93	0.00	0.0	R3	45.9
8/10/19 19:00	12.1	96	0.00	0.0	R3	39.4
8/10/19 20:00	11.6	97	0.00	0.0	R3	37.9
8/10/19 21:00	11.3	99	0.00	0.0	R3	40.2
8/10/19 22:00	10.7	100	0.00	0.0	R3	39.3
8/10/19 23:00	10.3	100	0.00	0.0	R3	39.5
8/11/19 0:00	10.1	100	0.00	0.0	R3	39.1
8/11/19 1:00	9.8	100	0.00	0.0	R3	39.3
8/11/19 2:00	9.6	100	0.00	0.0	R3	40.5
8/11/19 3:00	9.4	100	0.00	0.0	R3	39.9
8/11/19 4:00	9.3	100	0.00	0.0	R3	40.6
8/11/19 5:00	9.1	100	5.14	22.0	R3	39.4
8/11/19 6:00	9.1	100	5.13	18.5	R3	42.9
8/11/19 7:00	9.2	100	6.21	5.8	R3	45.1
8/11/19 8:00	9.5	100	6.59	4.2	R3	45.8
8/11/19 9:00	9.9	100	6.85	358.5	R3	46.9
8/11/19 10:00	10.5	100	3.90	349.6	R3	48.8
8/11/19 11:00	11.2	100	0.00	0.0	R3	49.6
8/11/19 12:00	11.0	100	0.00	0.0	R3	49.6
8/11/19 13:00	10.9	100	0.00	0.0	R3	48.8
8/11/19 14:00	11.1	100	0.00	0.0	R3	47.2
8/11/19 15:00	11.0	100	0.00	0.0	R3	44.9
8/11/19 16:00	11.0	100	0.00	0.0	R3	40.2
8/11/19 17:00	10.8	100	0.00	0.0	R3	37.5
8/11/19 18:00	10.5	100	0.00	0.0	R3	36.1
8/11/19 19:00	10.2	100	0.00	0.0	R3	36.1
8/11/19 20:00	10.2	100	0.00	0.0	R3	36.8
8/11/19 21:00	10.1	100	0.00	0.0	R3	36.1
8/11/19 22:00	10.2	100	0.00	0.0	R3	36.5
8/11/19 23:00	10.3	100	0.00	0.0	R3	35.7
8/12/19 0:00	10.2	100	0.00	0.0	R3	35.6
8/12/19 1:00	9.9	100	0.00	0.0	R3	36.8

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/12/19 2:00	9.9	100	0.00	0.0	R3	36.5
8/12/19 3:00	10.1	100	0.00	0.0	R3	37.3
8/12/19 4:00	10.2	100	0.00	0.0	R3	37.4
8/12/19 5:00	10.1	100	0.00	0.0	R3	37.9
8/12/19 6:00	9.8	100	0.00	0.0	R3	36.0
8/12/19 7:00	10.0	100	0.00	0.0	R3	34.8
8/12/19 8:00	10.5	100	0.00	0.0	R3	35.2
8/12/19 9:00	11.0	100	0.00	0.0	R3	36.8
8/12/19 10:00	11.6	100	0.00	0.0	R3	38.5
8/12/19 11:00	12.1	100	0.00	0.0	R3	37.7
8/12/19 12:00	12.9	100	0.00	0.0	R3	37.7
8/12/19 13:00	13.1	100	0.00	0.0	R3	39.8
8/12/19 14:00	13.2	93	0.00	0.0	R3	38.0
8/12/19 15:00	13.6	93	0.00	0.0	R3	39.3
8/12/19 16:00	13.7	88	0.00	0.0	R3	38.5
8/12/19 17:00	14.0	88	0.00	0.0	R3	35.7
8/12/19 18:00	13.9	90	0.00	0.0	R3	36.3
8/12/19 19:00	13.5	95	0.00	0.0	R3	36.1
8/12/19 20:00	13.0	100	0.00	0.0	R3	34.2
8/12/19 21:00	12.5	100	0.00	0.0	R3	33.5
8/12/19 22:00	12.0	100	0.00	0.0	R3	37.7
8/12/19 23:00	11.6	100	0.00	0.0	R3	37.5
8/13/19 0:00	11.2	100	0.00	0.0	R3	35.8
8/13/19 1:00	10.7	100	0.00	0.0	R3	31.1
8/13/19 2:00	10.3	100	0.00	0.0	R3	32.2
8/13/19 3:00	10.2	100	0.00	0.0	R3	37.5
8/13/19 4:00	10.4	100	0.00	0.0	R3	37.3
8/13/19 5:00	10.3	100	0.00	0.0	R3	37.7
8/13/19 6:00	9.9	100	0.00	0.0	R3	29.5
8/13/19 7:00	9.7	100	0.00	0.0	R3	31.4
8/13/19 8:00	10.0	100	0.00	0.0	R3	23.9
8/13/19 9:00	10.7	100	0.00	0.0	R3	28.5
8/13/19 10:00	11.0	100	0.00	0.0	R3	20.3
8/13/19 11:00	11.4	100	0.00	0.0	R3	19.4
8/13/19 12:00	12.1	100	0.00	0.0	R3	44.6
8/13/19 13:00	12.7	100	0.00	0.0	R3	53.3
8/13/19 14:00	12.6	100	0.00	0.0	R3	31.6
8/13/19 15:00	12.5	100	0.00	0.0	R3	27.8
8/13/19 16:00	12.4	100	0.00	0.0	R3	29.4

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/13/19 17:00	12.8	99	0.00	0.0	R3	30.1
8/13/19 18:00	13.0	100	0.00	0.0	R3	34.5
8/13/19 19:00	12.7	100	0.00	0.0	R3	35.2
8/13/19 20:00	12.5	100	0.00	0.0	R3	35.7
8/13/19 21:00	12.1	100	0.00	0.0	R3	29.0
8/13/19 22:00	11.5	100	0.00	0.0	R3	30.0
8/13/19 23:00	11.0	100	0.00	0.0	R3	30.8
8/14/19 0:00	10.5	100	0.00	0.0	R3	24.7
8/14/19 1:00	10.2	100	0.00	0.0	R3	24.9
8/14/19 2:00	10.1	100	0.00	0.0	R3	29.8
8/14/19 3:00	9.9	100	0.00	0.0	R3	33.1
8/14/19 4:00	9.8	100	0.00	0.0	R3	30.0
8/14/19 5:00	9.6	100	0.00	0.0	R3	32.4
8/14/19 6:00	9.5	100	0.00	0.0	R3	28.5
8/14/19 7:00	9.7	100	0.00	0.0	R3	22.9
8/14/19 8:00	9.8	100	0.00	0.0	R3	20.3
8/14/19 9:00	9.9	100	0.00	0.0	R3	20.4
8/14/19 10:00	10.1	100	0.00	0.0	R3	54.3
8/18/19 15:00	18.0	43	0.00	0.0	R6	49.4
8/18/19 16:00	18.4	50	0.91	93.1	R6	34.2
8/18/19 17:00	16.9	52	4.55	109.4	R6	33.0
8/18/19 18:00	16.6	57	4.95	68.6	R6	29.5
8/18/19 19:00	15.5	65	5.35	30.0	R6	19.0
8/18/19 20:00	15.4	67	3.77	43.4	R6	19.6
8/18/19 21:00	15.6	63	3.50	27.0	R6	19.5
8/18/19 22:00	15.6	62	4.52	27.5	R6	20.5
8/18/19 23:00	15.1	66	5.71	29.0	R6	26.6
8/19/19 0:00	14.4	78	5.29	33.6	R6	21.7
8/19/19 1:00	14.0	72	4.75	53.1	R6	34.6
8/19/19 2:00	13.6	69	3.96	61.6	R6	18.4
8/19/19 3:00	13.1	67	4.01	64.1	R6	19.7
8/19/19 4:00	12.5	69	3.91	55.7	R6	20.2
8/19/19 5:00	11.9	68	4.47	43.1	R6	19.7
8/19/19 6:00	11.8	66	4.70	44.7	R6	22.2
8/19/19 7:00	11.7	74	4.50	45.0	R6	21.7
8/19/19 8:00	11.8	73	4.41	31.0	R6	26.7
8/19/19 9:00	12.7	70	4.70	32.2	R6	31.4
8/19/19 10:00	13.0	70	5.87	52.9	R6	34.4

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/19/19 11:00	13.2	63	6.18	51.0	R6	40.0
8/19/19 12:00	14.1	57	7.36	52.0	R6	44.2
8/19/19 13:00	14.7	49	8.39	56.2	R6	42.1
8/19/19 14:00	15.2	47	7.93	55.1	R6	42.3
8/19/19 15:00	15.9	44	8.29	56.8	R6	40.4
8/19/19 16:00	15.8	44	7.82	54.5	R6	39.6
8/19/19 17:00	15.9	45	7.54	57.6	R6	37.1
8/19/19 18:00	15.9	45	6.79	60.9	R6	35.9
8/19/19 19:00	15.9	38	6.07	64.9	R6	26.7
8/19/19 20:00	15.4	41	5.31	69.3	R6	21.3
8/19/19 21:00	14.8	42	5.17	62.4	R6	19.7
8/19/19 22:00	13.8	46	5.06	60.0	R6	22.8
8/19/19 23:00	12.9	57	5.15	57.6	R6	20.5
8/20/19 0:00	12.0	51	5.00	58.4	R6	22.1
8/20/19 1:00	11.2	62	5.32	55.8	R6	23.7
8/20/19 2:00	10.7	61	5.80	59.5	R6	23.6
8/20/19 3:00	10.3	70	5.58	56.3	R6	24.9
8/20/19 4:00	9.8	73	5.35	46.1	R6	24.2
8/20/19 5:00	9.4	73	5.51	42.2	R6	24.4
8/20/19 6:00	9.1	77	5.45	42.4	R6	24.4
8/20/19 7:00	8.9	75	5.91	39.1	R6	34.6
8/20/19 8:00	9.2	77	6.63	50.4	R6	36.3
8/20/19 9:00	9.7	74	6.66	50.2	R6	33.5
8/20/19 10:00	10.5	67	6.32	50.9	R6	33.0
8/20/19 11:00	11.7	56	6.22	48.9	R6	31.4
8/20/19 12:00	13.0	50	6.12	54.2	R6	29.7
8/20/19 13:00	14.0	45	5.54	47.7	R6	30.1
8/20/19 14:00	15.0	40	5.53	49.9	R6	29.9
8/20/19 15:00	15.9	39	5.18	53.2	R6	28.4
8/20/19 16:00	16.5	38	4.67	54.3	R6	23.7
8/20/19 17:00	16.8	37	3.75	49.9	R6	20.7
8/20/19 18:00	17.0	36	3.49	47.0	R6	19.2
8/20/19 19:00	17.1	36	2.64	40.5	R6	18.0
8/20/19 20:00	17.0	39	2.17	33.2	R6	18.2
8/20/19 21:00	15.7	52	2.06	8.9	R6	19.1
8/20/19 22:00	14.6	53	1.90	15.6	R6	20.4
8/20/19 23:00	12.7	72	0.89	26.5	R6	23.7
8/21/19 0:00	11.5	79	0.20	153.1	R6	28.5
8/21/19 1:00	10.6	92	0.00	149.5	R6	30.6

Date and Time	Average Air Temperature (°C)	Average Relative Humidity (%)	Average Wind Speed (m/s)	Average Wind Direction (°)	Station	Leq 1 h (dBA)
8/21/19 2:00	10.2	94	0.31	149.5	R6	32.6
8/21/19 3:00	9.8	100	0.64	150.1	R6	36.4
8/21/19 4:00	9.6	96	0.51	178.9	R6	25.6
8/21/19 5:00	9.8	92	0.85	171.3	R6	31.2
8/21/19 6:00	9.5	90	1.47	187.1	R6	31.8
8/21/19 7:00	9.9	83	2.13	199.2	R6	38.6
8/21/19 8:00	10.3	86	1.48	163.4	R6	39.3